
MyTardis Documentation

Release 4.2

Mar 02, 2021

Contents

1	Overview	3
2	Key features for users	5
3	Key features for instrument facilities	7
4	Developing for MyTardis	9
5	Find out more	11
6	Known deployments	13
7	Related projects and repositories	15
8	Releases	17
9	Reporting Bugs	19
10	Contributing	21
11	Documentation	23
11.1	User Guide	23
11.2	Configuration and Administration	42
11.3	Development	64
11.4	Documentation for included Apps	249
11.5	Releases	256
12	Indices and tables	267
	Python Module Index	269
	Index	275

CHAPTER 1

Overview

MyTardis began at Monash University to solve the problem of users needing to store large datasets and share them with collaborators online. Its particular focus is on integration with scientific instruments, instrument facilities and research storage and computing infrastructure; to address the challenges of data storage, data access, collaboration and data publication.

[Read more...](#)

CHAPTER 2

Key features for users

The MyTardis data management platform is a software solution that manages research data and the associated meta-data. MyTardis handles the underlying storage to ensure that data is securely archived and provides access to the data through a web portal. Data hosted in MyTardis can also be accessed via SFTP.

[Read more...](#)

Key features for instrument facilities

MyTardis takes care of distributing data to your users. Its instrument integration technology takes care of securely and automatically shifting data from instrument to repository and makes it accessible by the right users.

[Read more...](#)

Developing for MyTardis

MyTardis is mostly written in the [Python programming language](#) and is built on top of the [Django web framework](#). A complete installation of the service also includes an [Elasticsearch index](#), a [RabbitMQ-based task queue](#), an [Nginx server](#), and a [PostgreSQL database](#).

To set up and manage these services we employ the [Kubernetes](#) orchestration software and cloud technologies.

[Read more...](#)

CHAPTER 5

Find out more

Project homepage <http://mytardis.org>

The source code is hosted at <https://github.com/mytardis/mytardis>

Documentation at <http://mytardis.readthedocs.org> includes

- User documentation
- Administrator documentation
- Developer documentation

The wiki at <https://github.com/mytardis/mytardis/wiki> includes

- Links to MyTardis add-ons, including apps and post-save filters
- Information about MyTardis community events

Known deployments

- **Store.Synchrotron:** <https://store.synchrotron.org.au/>
- **Store.Monash:** <https://store.erc.monash.edu>
- **NIF ImageTrove:** <https://imagetrove.cai.uq.edu.au/>
- **MHTP Medical Genomics:** <https://mhtp-seq.erc.monash.edu/>
- **ANSTO:** <https://tardis.nbi.ansto.gov.au/>
- **Monash MyTardis Demo:** <https://mytardisdemo.erc.monash.edu/>

Related projects and repositories

- **MyData:** <https://github.com/mytardis/mydata>
 - A desktop application for managing uploads to MyTardis
- **NIF ImageTrove:** <https://github.com/NIF-au/imagetrove>
 - A tool for ingesting and archiving NIF datasets, including
 - * Web front end: [MyTardis](#)
 - * A DICOM server: [DICOM ToolKit](#)
 - * A dataset uploader: [imagetrove-uploader](#)
 - * Federated authentication with the Australian Access Federation’s [Rapid Connect](#) service
- **NIF ImageTrove Docker deployment:** <https://github.com/UWA-FoS/docker-mytardis>
 - For ease of deployment, all of ImageTrove’s components are packaged into a Docker container.
- **NIF Trusted Data Repositories:** <https://github.com/NIF-au/TDR>
 - Delivering durable, reliable, high-quality image data

Releases

The default branch on GitHub is `develop`. This is the cutting edge development version. Please **DO NOT** use this in production, as it may have bugs that eat your data.

The `master` branch is the current stable release with all the latest bug fixes included. It will move to newer versions automatically. Follow this branch if you want to stay up to date in a production environment.

Each version has its own branch named by version number. At the time of writing, the latest release is `4.2.0`, tagged from the `series-4.2` branch. Follow this branch for your production installation and perform version upgrades manually.

Each bug fix or set of fixes bumps the minor version and each new release is tagged, eg. `4.2.1`. Use tagged releases if you are paranoid about changes to the code you have not tested yourself.

To follow development, please see the contributing section below.

CHAPTER 9

Reporting Bugs

Bug reports and feature requests can be made via our [public issue tracker](#).

CHAPTER 10

Contributing

New contributors are always welcome, however all developers should review the [pull-request checklist](#) before making pull requests.

For any wishes, comments, praise etc. either open a GitHub issue or contact us.

Active developers are also welcome to join our Slack team.

Contact details can be found on mytardis.org.

11.1 User Guide

11.1.1 Basics

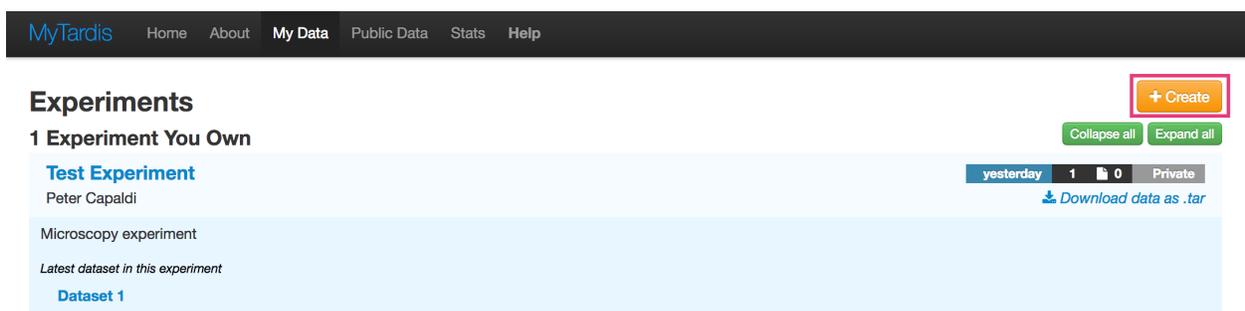
Organising Data

Data Structure Overview

Data in MyTardis is organised into a uniform hierarchy, which includes Experiments, Datasets and Data Files. Experiments are at the top of the hierarchy and can contain multiple Datasets. Similarly, Datasets can contain multiple Data Files. The hierarchy can be thought of like a directory structure on a typical PC (Fig. 1) in which a the Experiment directory contains multiple Dataset directories, which in turn contain multiple Data Files.

Creating Experiments

1. Navigate to the **My Data** page.
2. Click on the **Create** button to the right of the page.



The screenshot shows the MyTardis interface. At the top is a navigation bar with links: MyTardis, Home, About, My Data, Public Data, Stats, and Help. Below the navigation bar, the page title is 'Experiments'. On the right side, there is a '+ Create' button. Below the title, it says '1 Experiment You Own'. There are two buttons: 'Collapse all' and 'Expand all'. The main content area shows a list of experiments. The first entry is 'Test Experiment' by Peter Capaldi, created yesterday, with 1 dataset and 0 files. It is marked as 'Private'. There is a 'Download data as .tar' link. Below the experiment title, it says 'Microscopy experiment' and 'Latest dataset in this experiment' with a link to 'Dataset 1'.

3. Fill in the 'Create Experiment' form. Requires at least a Title and one author.

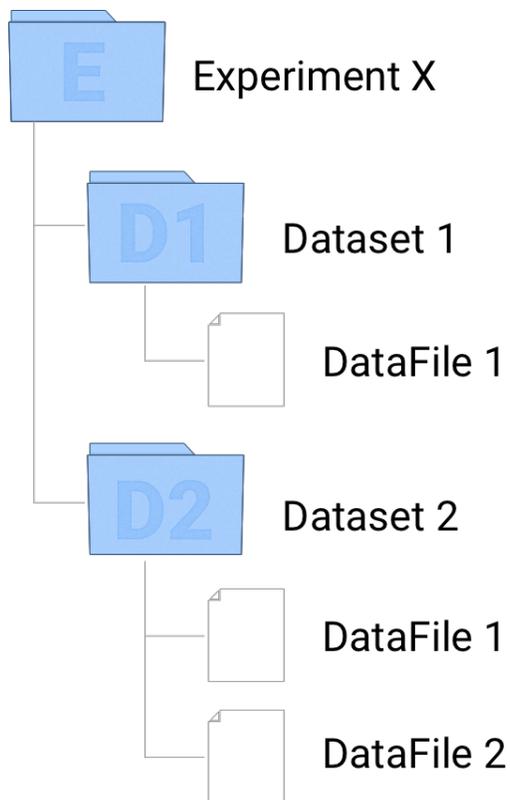


Fig. 1: Fig. 1. Data hierarchy in MyTardis

MyTardis Home About My Data Public Data Stats Help thedoctor

Create Experiment

Title

Authors
Comma-separated authors and optional emails/URLs

Institution name

Description

Powered by MyTardis

4. Click **Save**.

Adding Datasets

Datasets always have at least one parent Experiment. To add a dataset to an Experiment:

1. Navigate to the Experiment page into which you would like to add a dataset.
2. Click the **+ Add New** button to the right of the page.

The screenshot shows the MyTardis interface for an experiment titled 'Test Experiment' by Peter Capaldi. The page has a dark navigation bar at the top with 'MyTardis' and links for Home, About, My Data, Public Data, Stats, and Help. On the right of the navigation bar is a user profile 'thedoctor'. Below the navigation bar, the experiment title 'Test Experiment' is displayed, along with buttons for 'Create publication' and 'Edit Experiment'. A summary bar shows '1' dataset, '0 bytes', 'yesterday', and 'Private' status. A search bar contains 'Microscopy experiment'. On the left, there are tabs for 'Description', 'Metadata', 'Sharing', and 'Transfer Datasets'. The 'Description' tab is active, showing 'Institution: Monash University', 'Licensing: Unspecified', and 'Administrators: thedoctor'. Below this are 'Download All' buttons for TAR and SFTP. On the right, a '1 Dataset' section is visible, with a 'Download Selected' button and a search bar containing the text 'Just start typing to filter datasets based on descriptions'. A single dataset entry, 'Dataset 1', is listed with a file icon, a download icon, and a status bar showing '0 bytes'. A red box highlights the '+ Add New' button in the top right corner of the dataset list.

3. Fill in the 'Add new dataset' form. Note: The 'Description' field is actually the name of the dataset.

The screenshot shows the 'Add new dataset' form in MyTardis. It features a dark navigation bar at the top with 'MyTardis' and links for Home, About, My Data, Public Data, Stats, and Help. The user profile 'thedoctor' is visible on the right. The main heading is 'Add new dataset'. The form contains three input fields: 'Description' with the value 'Dataset 1', 'Directory' which is empty, and 'Instrument' which is a dropdown menu currently showing '-----'. Below the form is a blue 'Save' button with a document icon. The footer of the page indicates 'Powered by MyTardis'.

4. Click **Save**.

Adding Data Files

Data Files can be added to a particular Dataset from the Dataset page.

1. Navigate to the Dataset into which you want to add new files.
2. Click the green **Add files...** button to the right of the page.

The screenshot shows the MyTardis interface for 'Dataset 1'. The top navigation bar includes 'MyTardis', 'Home', 'About', 'My Data', 'Public Data', 'Stats', 'Help', and a user profile 'thedoctor'. The main content area is divided into three sections: 'Datafile Information' (with a note to click the list icon for details), 'Dataset Metadata' (with an 'Add Dataset Metadata' button and a message that there is no metadata), and 'Other Experiments' (with a message that the dataset doesn't appear in any other experiments). On the right, the '0 Files' section shows download options (TAR, SFTP, MDS), a search bar, and a 'Download Selected Files' button. A red box highlights the 'Add files...' button in the top right corner of the file list area.

3. Select the files you want to add from the file selector dialog and Click **Open**. You can add multiple files by holding the “Shift” or “Ctrl” keys to select multiple files in the dialog.

Accessing Data

Download a Data File

Individual Data Files can be downloaded as follows:

1. Navigate to the Dataset containing the Data File you want to download.
2. Click the **Download** button on the Data File you want to download.

This screenshot shows the MyTardis interface for 'Dataset 1' with files loaded. The top navigation bar is the same as in the previous screenshot. The 'Preview Images' section shows a thumbnail of a file named 'cell5_deskewed_C2_T0.ome.tif'. The 'Dataset Metadata' section remains empty. The '4 Files' section on the right lists four files: 'cell5_deskewed.companion.ome' (292.2 KB), 'cell5_deskewed_C0_T0.ome.tif' (1.0 GB), 'cell5_deskewed_C1_T0.ome.tif' (1.0 GB), and 'cell5_deskewed_C2_T0.ome.tif' (1.0 GB). Each file has a download icon, a plus sign, and a list icon. A red box highlights the download icon for the second file, 'cell5_deskewed_C0_T0.ome.tif'.

Download a Dataset

Entire Datasets can be downloaded as a tar archive.

1. Navigate to the Dataset you want to download.
2. Click the **tar** button to the right of the page.

The screenshot shows the MyTardis web interface. At the top is a navigation bar with links for Home, About, My Data, Public Data, Stats, and Help. The main content area is titled 'Dataset 1' and includes a sub-header 'From the experiment: Test Experiment'. There is a 'Preview Images' section with a large image placeholder and a thumbnail labeled 'cell5_deskewed_C2_T0.ome.tif'. Below this are sections for 'Datafile Information' and 'Dataset Metadata'. On the right side, there is a '4 Files' section with download options (TAR, SFTP, MDS) and a list of files: 'cell5_deskewed.companion.ome' (292.2 KB) and three 'cell5_deskewed_C0_T0.ome.tif' files (1.0 GB each).

Note: *tar* is an archive format like *zip* that may not be familiar to Windows users and a default Windows installation may not have the appropriate software to expand *tar* archives. We suggest that users install [7-zip](#) to expand *tar* archives from MyTardis.

Download an Experiment

Entire Experiments can be downloaded as a tar archive.

1. Navigate to the Experiment you want to download.
2. Click the **tar** button under the 'Description' section of the page.

The screenshot shows the MyTardis interface for an experiment titled "Test Experiment" by Peter Capaldi. The top navigation bar includes "MyTardis", "Home", "About", "My Data", "Public Data", "Stats", "Help", and a user profile "thedoctor". The experiment page features a search bar with "Microscopy experiment" entered. On the left, there are tabs for "Description", "Metadata", "Sharing", and "Transfer Datasets". Below these are details for "Institution: Monash University", "Licensing: Unspecified", "Administrators: thedoctor", and "Download All" options for "TAR" and "SFTP". On the right, the "1 Dataset" section shows a search filter "Just start typing to filter datasets based on descriptions" and a list item for "Dataset 1" with a download icon, a thumbnail, and a size of "3.1 GB".

Note: *tar* is an archive format like *zip* that may not be familiar to Windows users and a default Windows installation may not have the appropriate software to expand *tar* archives. We suggest that users install [7-zip](#) to expand *tar* archives from MyTardis.

Sharing and Publishing Data

MyTardis provides 3 primary mechanisms for sharing your data:

- Sharing with another MyTardis user.
- Sharing via a temporary (obfuscated) link.
- Making data public.

Data sharing is done at the Experiment level and you can find the options to share an Experiment under the **Sharing** tab on the left side of an Experiment page.

Experiment

Test Experiment

Peter Capaldi

Microscopy experiment

[Description](#)[Metadata](#)[Sharing](#)[Transfer Datasets](#)

Public Access

Current Public Access Settings

[Private](#)

Current License

[Unspecified](#)[Change Public Access](#)

Sharing

Users

Users who have a share in this experiment:

Username	Name
thedoctor	<i>none</i>

[Change User Sharing](#)

Groups

Groups who have a share in this experiment:

There are currently no groups with access to this experiment.[Change Group Sharing](#)

Links

This experiment is private. A temporary link can be created by its owner(s) and privately shared.

Temporary access links provide full access to recipients regardless of an experiment's public status.

No tokens defined

[Create New Temporary Link](#)

Sharing Data with Another MyTardis User

To share an Experiment with another MyTardis user:

1. Navigate to the Experiment you want to share.
2. Click on the **Sharing** tab on the left side of the page.
3. Click the **Change User Sharing** button.

Experiment

Test Experiment

Peter Capaldi

Microscopy experiment

[Description](#)[Metadata](#)[Sharing](#)[Transfer Datasets](#)

Public Access

Current Public Access Settings

[Private](#)

Current License

[Unspecified](#)[⚙️ Change Public Access](#)

Sharing

Users

Users who have a share in this experiment:

Username	Name
thedoctor	<i>none</i>

[↪️ Change User Sharing](#)

Groups

Groups who have a share in this experiment:

There are currently no groups with access to this experiment.[↪️ Change Group Sharing](#)

Links

This experiment is private. A temporary link can be created by its owner(s) and privately shared.

Temporary access links provide full access to recipients regardless of an experiment's public status.

No tokens defined

[Create New Temporary Link](#)

4. Enter the **Username** of the user with which you want to share the data.

User Sharing ✕

Current User Permissions

[thedoctor] (doctor@tardis.org) Read Edit Owner Edit Delete

Add new user

Username:

Permissions:

Owners have the ability to change access controls and share experiments with others.

+ Add User

Note: Entering the users name or email address with activate autocomplete, which helps to find the username of the user.

5. Select the permissions you'd like to give the user from the **Permissions** dropdown.
6. Click the **+Add User** button.
7. You should now see a new entry under the **Current User Permissions** section showing the user you've shared the Experiment with and the permissions you've given them.

User Sharing ×

Current User Permissions

[thedoctor] (doctor@tardis.org)	Read	Edit	Owner	✎ Edit	✕ Delete
[rosetyler] (rosetyler@tardis.org)	Read	Edit		✎ Edit	✕ Delete

Add new user

Username:

Permissions:

View and Edit ▾

Owners have the ability to change access controls and share experiments with others.

+ Add User

Sharing Data via a Temporary Link

You can also share Data in an Experiment via a temporary (obfuscated) link. Temporary links expire after 1 month or can be deleted manually. Note: temporary links are not protected (i.e., anybody with the link can access the data); however, they are obfuscated and are thus difficult to find without prior knowledge of the link.

To share an Experiment via a temporary link:

1. Navigate to the Experiment you want to share.
2. Click on the **Sharing** tab on the left of the page.
3. Click the **Create New Temporary Link** button in the links section.

Links

This experiment is private. A temporary link can be created by its owner(s) and privately shared for direct access.

Temporary access links provide full access to recipients regardless of an experiment's public status.

No tokens defined

Create New Temporary Link

4. You should now see a new entry in the **Links** section. The new entry will provide links to both the Experiment page and a direct download link. These can be copied to the clipboard using the relevant buttons. These can then be shared with collaborators using email etc.

Links

This experiment is private. A temporary link can be created by its owner(s) and privately shared for direct access.

Temporary access links provide full access to recipients regardless of an experiment's public status.

Temporary Link	Archive direct download	Expiry	Granted By
Page link  Copy to clipboard	Archive link  Copy to clipboard	10th January 2018	thedoctor 
			

Publishing Data

Access to an Experiment in MyTardis is set to “private” by default and no license is attached to the data; however, MyTardis allows data from an Experiment to be made publicly available with an appropriate license. To make an Experiment publicly available:

1. Navigate to the Experiment you wish to publish and activate the **Sharing** tab to the left of the page.
2. Click the **Change Public Access** button. This will activate the Public Access dialog and display the current status of the data.
3. Select **Public** in the “Public access” dropdown menu.
4. Select an appropriate license from the list of licenses presented. In the following screenshot, a “Creative Commons Attribution” license is selected; however, your choices may be different as licenses are configured by your service provider.

Public Access ×

Step 1: Change Public Access:

Public access

Public 

Step 2: Select a license:

Creative Commons Attribution 3.0 Australia (CC BY 3.0)

This licence lets others distribute, remix, tweak, and build upon your work, even commercially, as long as they credit you for the original creation. This is the most accommodating of licences offered under Creative Commons.



[Reselect License](#)

Step 3: Accept The Legal Agreement:

Monash University (ABN 12 377 614 012) ("University") maintains a digital repository ("Repository") in which it stores and makes available various works via the Internet or other electronic means.

By submitting material for the Repository ("Work") the person(s) submitting the Work ("Depositor") agree to the following terms and conditions:

5. Agree to the "Terms of Publishing" of your service provider.
6. Click **Confirm**

11.1.2 SFTP Access

SFTP is a secure and convenient way to access, browse and download large Experiments, Datasets and Files in MyTardis. Importantly, the SFTP interface to MyTardis is read only i.e., it is a mechanism to access data in MyTardis but does **not** allow adding data to MyTardis.

Prerequisites for accessing data via SFTP

In order to access data on MyTardis via SFTP, you will first need to install an SFTP client. There are many free and commercial SFTP clients for you to choose from; however, we recommend [Cyberduck \(Win & Mac\)](#), [FileZilla \(All platforms\)](#) or [WinSCP \(Win only\)](#) for the majority of users. The instructions here will focus on [Cyberduck \(Win & Mac\)](#).

Registering and managing SSH keys in MyTardis

MyTardis uses SSH key pairs to authenticate you when connecting via SFTP. Using SSH keys to authenticate is more secure and private than password-based authentication. SSH keys generally come in a pair: (1) a private part and (2) a public part. Key-based authentication typically requires you to share your public key with the service, again which you use your private key to authenticate. Never share your private key!

MyTardis provide to mechanism for registering a public key:

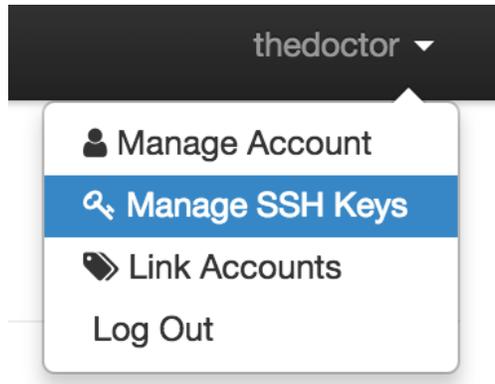
1. *Adding an existing public SSH key to MyTardis*
2. *Have MyTardis to generate an SSH key pair*

Adding an existing public SSH key to MyTardis

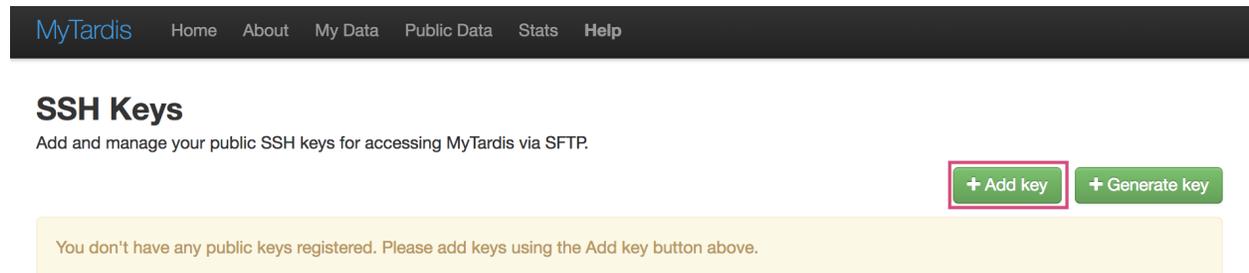
If you have an existing SSH keypair, you can register the public key in MyTardis. For instructions on how to create an SSH key pair, Gitlab provide some nice documentation on how to do so [here](#).

To register a public key in MyTardis:

1. Navigate to the SSH key management page using the *Manage SSH Keys* link in the user menu.



2. Click the + *Add Key* button:



3. Fill in the *Add SSH Keys* form by entering a name for the key and the public key text. The public key text should be in OpenSSH format e.g., `ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDYZnXpTP6e/BsQw+...`

FTP.

Add SSH Keys ×

Add your own public SSH Key using the form below. **Important:** Don't add your private key.

Device Name:

Public Key:

```
ssh-rsa
AAAAB3NzaC1vc2EAAAADAQABAAQBAQDYZYnXpTP6e/BsQw+QEVDtpvdKJV2pxc9Q
DISipqsV464bxerFs7+deNSHlpJiHy7zBO4zbzGd2vE2wuxXa02tGRwKqhQm3/fFRH6ZL4
pfJ/tkasYd7i5sAIKikh0tPVVU+6HYbNbNjN+riYh16ECrp7+YmtwPwVieeiTn69cStkG+way
TFXwO6M3dolb/SMY8zE5JMotVnqxBJTwNwpQZHmQW4eh87elHbv7QrtRF7ws/Ph6ME
Bpy1A9Vl18ysBKMG4YxybxGuwOOMDAOI/2RhaMGV1MPXlushIOAy9vrYCeS40AukYjE
```

4. Click the *Add Key* button.

If successful you should get a new entry in the SSH keys table.

MyTardis [Home](#) [About](#) [My Data](#) [Public Data](#) [Stats](#) [Help](#)

SSH Keys

Add and manage your public SSH keys for accessing MyTardis via SFTP.

Key
<p>massive <input type="button" value="Delete"/></p> <p>Type: SSH-RSA</p> <p>Fingerprint: f68edca12548c068f8836d412230bdd4</p> <p>Date added: 2018-08-07</p>

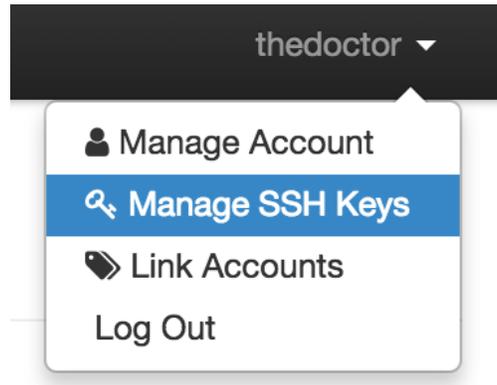
Have MyTardis to generate an SSH key pair

Creating SSH key pairs can be a bit of a challenge, particularly on Windows systems. For this reason, MyTardis provides you another option for registering a public keys. In this case, MyTardis will generate the key pair for

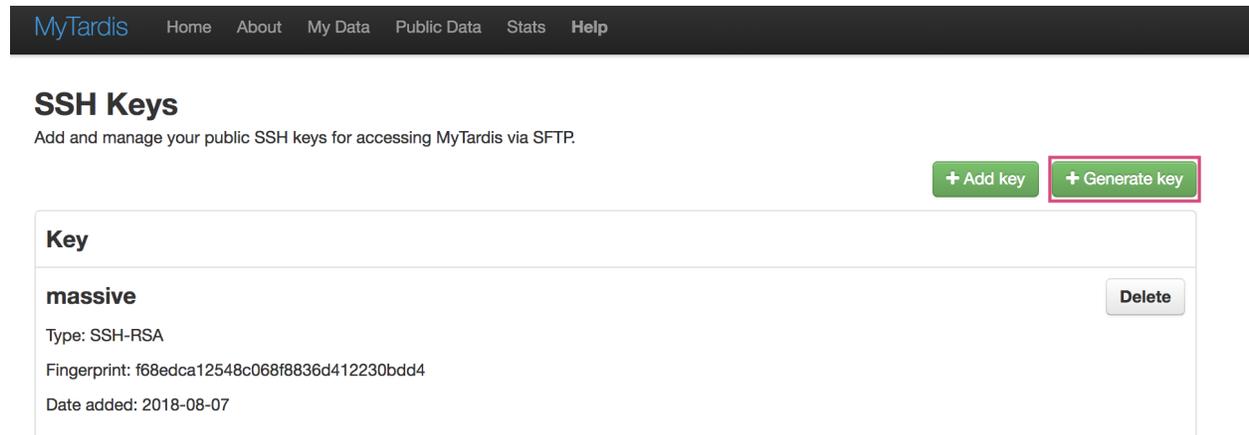
you, store the public part of the key and provide you with a one time opportunity to download the private part of the key.

It is important to note that MyTardis never stores your private key. If you lose/delete it, MyTardis cannot recover it for you. This isn't really a problem, since MyTardis can always generate another key pair for you; however, you should revoke the public key associated to the lost private key in your account to ensure that no one who gains access to your private key can access your data. See [Deleting previously registered public keys in MyTardis](#).

1. Navigate to the SSH key management page using the *Manage SSH Keys* link in the user menu.



2. Click the + *Generate key* button:



3. Give the key a name and click the *Generate & Download* button. The server will generate an SSH key pair, register the public key and trigger your browser to download the private key.

Generate an SSH key pair ✕

MyTardis can generate an SSH key pair for you. Only the public part of the key pair will be stored by MyTardis and you will be provided with a one time opportunity to download the private part of the key pair.

Name:

Important: Keep your private key in a safe place. Anyone with access to the private key will be able to access your data on MyTardis.

- The SSH keys table will be updated with your newly registered public key.



SSH Keys

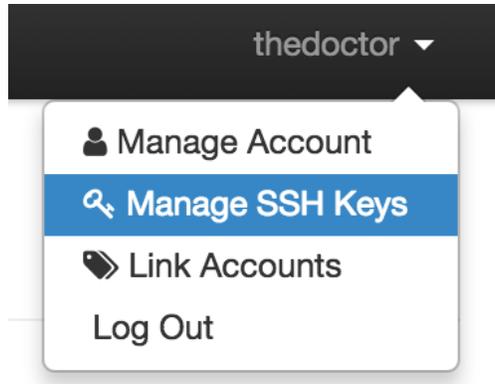
Add and manage your public SSH keys for accessing MyTardis via SFTP.

Key	
<p>massive</p> <p>Type: SSH-RSA</p> <p>Fingerprint: f68edca12548c068f8836d412230bdd4</p> <p>Date added: 2018-08-07</p>	<input type="button" value="Delete"/>
<p>TestKey</p> <p>Type: SSH-RSA</p> <p>Fingerprint: 3c4c3c3eb293d274fbeb687cc46aff76</p> <p>Date added: 2018-08-07</p>	<input type="button" value="Delete"/>

Deleting previously registered public keys in MyTardis

Removing a previously registered public SSH key from MyTardis is straightforward.

1. Navigate to the SSH key management page using the *Manage SSH Keys* link in the user menu.



2. Click the *Delete* button on the key you wish to remove.

A screenshot of the MyTardis SSH Keys management page. At the top, there is a navigation bar with 'MyTardis' and links for 'Home', 'About', 'My Data', 'Public Data', 'Stats', and 'Help'. Below the navigation bar, the page title is 'SSH Keys' with a subtitle 'Add and manage your public SSH keys for accessing MyTardis via SFTP'. There are two green buttons: '+ Add key' and '+ Generate key'. The main content area shows a list of keys. The first key is named 'massive' and has a 'Delete' button. The second key is named 'TestKey' and has a 'Delete' button highlighted with a red box. Each key entry shows its type (SSH-RSA), fingerprint, and date added.

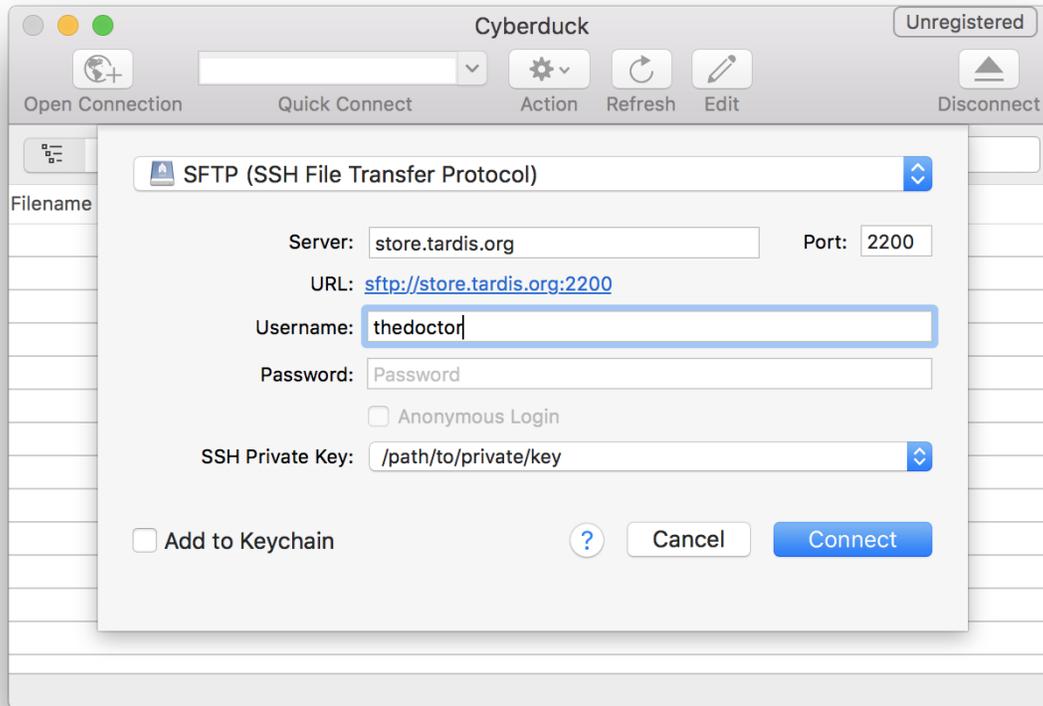
Attempting to connect to MyTardis via SFTP using the private sister key to the deleted key will no longer work.

Connecting to MyTardis via SFTP

1. Open your SFTP client and create a new connection with the following configuration:

Parameter	Value
Server:	<i>URL for your MyTardis deployment e.g. https://store.erc.monash.edu</i>
Port:	<i>Port on which SFTP server is running</i>
Username:	<i>Your MyTardis username</i>
Password:	<i>Leave this blank</i>
SSH Private Key	<i>Path to a private SSH key¹</i>

Note: substitute your credentials and details for your MyTardis deployment for the *italicised* values. If you are unsure about any of these value, please contact your system admin should be able to provide these to you.



2. Click **Connect**

3. Upon successful connection you will be presented with a file browser showing all your data on MyTardis.

Data is organised according to the Experiment/Dataset/Data File hierarchy/structure described in the [Organising Data](#) section.

Browse and/or Download a Specific Experiment or Dataset

MyTardis also provides a convenient way to access/browse a particular Experiment or Dataset via SFTP.

1. Navigate to the Experiment or Dataset page that you want to access via SFTP using your web browser.
2. There is an **SFTP** button in the *Download* section on both the Experiment and Dataset views.

¹ You must register the public key in MyTardis first, see [Registering and managing SSH keys in MyTardis](#)

Experiment View

Experiment

Test Experiment

Peter Capaldi

Microscopy experiment

Description Metadata Sharing Transfer Datasets

Institution Monash University

Licensing Unspecified

Administrators Peter Capaldi

Download All [TAR](#) [SFTP](#)

Dataset View

4 Files

Add files...

Download Dataset: [TAR](#) [SFTP](#) [MD5](#)

Search: Enter part or all of a filename, then press enter.

Select: All / None

Download Selected Files

<input type="checkbox"/>	cell5_deskewed.companion.ome (292.2 KB)	Download + List
<input type="checkbox"/>	cell5_deskewed_C0_T0.ome.tif (1.0 GB)	Download + List
<input type="checkbox"/>	cell5_deskewed_C1_T0.ome.tif (1.0 GB)	Download + List
<input type="checkbox"/>	cell5_deskewed_C2_T0.ome.tif (1.0 GB)	Download + List

3. Clicking the **SFTP** button at either of these two locations will redirect you to a page with instructions and links for starting an SFTP session for a specific experiment or dataset.

11.2 Configuration and Administration

11.2.1 Installation

The sections through to Extended Configuration below provide a Quick Start guide for getting a basic MyTardis installation up and running. The following section provides additional information on advanced configuration and add-on capabilities of MyTardis.

Prerequisites

Ubuntu (18.04 LTS is recommended)

Run this script for Python 3:

```
sudo bash install-ubuntu-py3-requirements.sh
```

It will install required packages with these commands:

```
# for Ubuntu 16.04 or 18.04
# sudo bash install-ubuntu-py3-requirements.sh

apt-get update
apt-get install \
  git libldap2-dev libmagickwand-dev libsasl2-dev \
  libssl-dev libxml2-dev libxslt1-dev libmagic-dev curl gnupg \
  python3-dev python3-pip python3-venv zlib1g-dev libfreetype6-dev libjpeg-dev

curl -sL https://deb.nodesource.com/setup_12.x | sudo -E bash -
sudo apt-get install -y nodejs
```

Download

To get the most recent stable release:

```
git clone -b master https://github.com/mytardis/mytardis.git
cd mytardis
```

This clones the repository as read-only.

Or, to get the current development branch:

```
git clone -b develop git://github.com/mytardis/mytardis.git
cd mytardis
```

Quick configuration

If you want to use `virtualenvwrapper`, you can install it with `sudo pip3 install virtualenvwrapper` and set the export `VIRTUALENV_PYTHON=/usr/bin/python3` in your `~/.bashrc` or `~/.profile` to ensure that `mkvirtualenv` will make a Python 3 virtual environment. For more information on configuring `virtualenvwrapper`, see <https://virtualenvwrapper.readthedocs.io/en/latest/install.html#shell-startup-file>

To activate `virtualenvwrapper`:

For Ubuntu 18.04 with Python 3 (using `pip3` installed `virtualenvwrapper`):

```
source /usr/local/bin/virtualenvwrapper.sh
```

Then create the `mytardis` virtual environment

```
mkvirtualenv mytardis
pip install -U pip
```

Note: the next time you want to work with this `virtualenv`, run the appropriate `source` command and then use the command: `workon mytardis`

MyTardis dependencies are then installed with `pip`:

```
pip install -U -r requirements.txt
```

To install minimal Javascript dependencies for production:

```
npm install --production
```

To install Javascript dependencies for production and for testing:

```
npm install && npm test
```

Configuring MyTardis is done through a standard Django `settings.py` file. MyTardis comes with a set of default settings in its `tardis/default_settings/` package. You can import this as the basis of your own config file - options defined here will override the relevant options in `default_settings/*.py`.

Create a new file `tardis/settings.py` containing the following:

```
from .default_settings import *
# Add site specific changes here.
```

(continues on next page)

(continued from previous page)

```
# Turn on django debug mode.
DEBUG = True

# Use the built-in SQLite database for testing.
# The database needs to be named something other than "tardis" to avoid
# a conflict with a directory of the same name.
DATABASES['default']['ENGINE'] = 'django.db.backends.sqlite3'
DATABASES['default']['NAME'] = 'tardis_db'
```

In addition you will need to create a new `SECRET_KEY` for your installation. This is important for security reasons.

A convenient method is to run the following command in your mytardis installation location:

```
python -c "import os; from random import choice; key_line = '%sSECRET_KEY=\"%s\"' % ('from .default_settings import * \n\n' if not os.path.isfile('tardis/settings.py') else '', '.join([choice('abcdefghijklmnopqrstuvwxyz0123456789@#%^&*(_=+)') for i in range(50)])); f=open('tardis/settings.py', 'a+'); f.write(key_line); f.close()"
```

This is the minimum set of changes required to successfully run the server in development mode. You can make any other site-specific changes as necessary.

Initialisation

Create and configure the database:

```
python manage.py migrate
python manage.py createcachetable default_cache
python manage.py createcachetable celery_lock_cache
```

This avoids creating a superuser before the MyTardis specific `UserProfile` table has been created. More information about the migrate commands can be found at *Configuration and Administration*.

Next, create a superuser:

```
python manage.py createsuperuser
```

MyTardis can now be executed in its simplest form using:

```
python manage.py runserver
```

This will start the Django web server at <http://localhost:8000/>.

Extended configuration

See below for some extra configuration options that are specific to MyTardis.

An automatically generated documentation of the settings can be found in *tardis package*.

Essential Production Settings

These settings are essential if you want to run MyTardis in production mode (`DEBUG = False`).

SECRET_KEY

This key needs to be unique per installation and, as the name implies, be kept secret.

A new one can be conveniently generated with the command:

```
echo "SECRET_KEY=`python manage.py generate_secret_key`" >> tardis/settings.py
```

However, the more complex command shown above needs to be used at installation time.

ALLOWED_HOSTS

ALLOWED_HOSTS is a list of hostnames and/or IP addresses under which the server is accessible. If this is not set you will get a 500 Error for any request.

Database**tardis.default_settings.DATABASE_ENGINE**

The database server engine that will be used to store the MyTardis metadata, possible values are *postgresql-psycopg2*, *postgresql*, *mysql*, *sqlite3* or *oracle*.

tardis.default_settings.DATABASE_NAME

The name of the database to used to store the data, this is the path to the database if you are using the SQLite storage engine.

tardis.default_settings.DATABASE_USER

The user name used to authenticate to the database. If you are using SQLite this field is not used.

tardis.default_settings.DATABASE_PASSWORD

The password used to authenticate to the database. If you are using SQLite this field is not used.

tardis.default_settings.DATABASE_HOST

The host name of the machine hosting the database service. If this is empty then localhost will be used. If you are using SQLite then this field is ignored.

tardis.default_settings.DATABASE_PORT

The port the database is running on. If this is empty then the default port for the database engine will be used. If you are using SQLite then this field is ignored.

LDAP

For further information see [LDAP authentication](#)

Repository**tardis.default_settings.DEFAULT_STORAGE_BASE_DIR**

The path to the default MyTardis storage location. This is where files will be stored to if you do not provide any other location explicitly through “StorageBox”es.

tardis.default_settings.REQUIRE_DATAFILE_CHECKSUMS

If True, a Datafile requires an MD5 or SHA-512 checksum from the time it is first recorded in the MyTardis database. This enables a model-level constraint check each time a Datafile record is saved. Defaults to True. Datafile record is saved.

tardis.default_settings.REQUIRE_DATAFILE_SIZES

If True, a Datafile require a size from the time it is first recorded in the MyTardis database. This enables a model-level constraint check each time a Datafile record is saved. Defaults to True.

`tardis.default_settings.REQUIRE_VALIDATION_ON_INGESTION`

If True, ingestion of a Datafile is only permitted if the Datafile matches its supplied size and/or checksums. Defaults to True.

Access Rights & Licensing

Licences

By default, the Creative Commons Attribution 4.0 International licences are loaded.

You can use the admin interface to add other licences. Please ensure `allows_distribution` is set to the correct value to ensure the licence appears in conjunction with suitable public access types.

Legal Notice

When changing the public access rights or licence for an experiment, a legal notice is displayed. You can override it by specifying following settings in `settings.py`:

```
LEGAL_TEXT = "A sample legal Text"
```

Filters

`tardis.default_settings.POST_SAVE_FILTERS`

This contains a list of post save filters that are execute when a new data file is created.

The `POST_SAVE_FILTERS` variable is specified like:

```
POST_SAVE_FILTERS = [  
    ("tardis.tardis_portal.filters.exif.EXIFFilter", ["EXIF", "http://exif.schema  
↪"]),  
]
```

For further details please see the *Filter Setup* section.

Archive Organizations

`tardis.default_settings.DEFAULT_ARCHIVE_FORMATS`.

This is a prioritized list of download archive formats to be used in contexts where only one choice is offered to the user; e.g. the “download selected” buttons. (The list allows for using different archive formats depending on the user’s platform.)

`tardis.default_settings.DEFAULT_PATH_MAPPER`.

This gives the default archive “organization” to be used. Organizations are defined via the next attribute.

`tardis.default_settings.DOWNLOAD_PATH_MAPPERS`.

This is a hash that maps archive organization names to Datafile filename mapper functions. These functions are responsible for generating the archive pathnames used for files written to “tar” and “zip” archives by the downloads module.

The `DOWNLOAD_PATH_MAPPERS` variable is specified like:

```

DOWNLOAD_PATH_MAPPERS = {
    'test': ('tardis.apps.example.ExampleMapper',),
    'test2': ('tardis.apps.example.ExampleMapper', {'foo': 1})
}

```

The key for each entry is the logical name for the organization, and the value is a tuple consisting of the function's pathname and a set of optional keyword arguments to be passed to the function. At runtime, the function is called with each `Datafile` as a positional argument, and an additional 'rootdir' keyword argument. The function should compute and return a (unique) pathname based on the `Datafile` and associated objects. If the function returns **None**, this tells the archive builder to leave out the file.

By default, the archive builder uses the built-in "deep-storage" mapper which gives pathnames that try to use directory information to rebuild a file tree.

Storage Locations (`StorageBox` es)

A MyTardis instance can be configured to support multiple locations (`StorageBox` es) for storing data files. Each location holds copies (`DataFileObject` s) of `DataFile` s that are recorded in the MyTardis database.

The `StorageBox` architecture is compatible with the [Django File Storage API](#). This makes it relatively easy to support a number of different storage backends such as cloud storage or SFTP servers. Please refer to the [StorageBox documentation](#) for more detailed information.

Single Search

Instructions on installing and configuring Elasticsearch for advanced search are available from [Setting Up Search](#).

Additional Tabs

Additional and custom tabs may be configured in MyTardis on a per-installation basis. The tabs are implemented as separate Django applications with a single view (index), listed in the `TARDIS_APPS` configuration item and either linked to, or installed in the `TARDIS_APP_ROOT` directory, by default `tardis/apps`.

Documentation on the additional tabs is available from [Apps and Contextual Views](#).

Additional Views

Custom views may be configured in MyTardis on a per-installation basis. The tabs are implemented as separate Django applications with a single view function listed in the `*_VIEWS` configuration item and added to the `INSTALLED_APPS` list.

Refer to the [views documentation](#) for further information.

Site Customisations

Some settings that allow customised messages and styles.

```

PUBLICATION_INTRODUCTION = """
<p><strong>... introduction and publication agreement ...</strong></p>
"""

```

(continues on next page)

(continued from previous page)

```
SITE_STYLES = '' # should be CSS

# if either GA setting is empty, GA is disabled
GOOGLE_ANALYTICS_ID = '' # whatever Google provides
GOOGLE_ANALYTICS_HOST = '' # the host registered with Google

# these refer to any template finder findable location, e.g. APPDIR/templates/...
CUSTOM_ABOUT_SECTION_TEMPLATE = 'tardis_portal/about_include.html'
CUSTOM_USER_GUIDE = 'user_guide/index.html'
```

Deployment

Collecting Static Files

For performance reasons you should avoid static files being served via the application, and instead serve them directly through the webserver.

To collect all the static files to a single directory:

```
python manage.py collectstatic
```

`tardis.default_settings.STATIC_ROOT`

This contains the location to deposit static content for serving.

`tardis.default_settings.STATIC_URL`

The path static content will be served from. (eg. `/static` or `http://mytardis-resources.example.com/`)

See also:

`collectstatic`, `STATIC_ROOT`, `STATIC_URL`

Serving with Nginx + Gunicorn

In this configuration, Nginx serves static files and proxies application requests to a Gunicorn server:

```
HTTP +-----+ +-----+
+----->| Nginx +----->| Gunicorn Server |
      +-----+ +-----+
      0.0.0.0:80 127.0.0.1:8000
```

Nginx should then be configured to send requests to the server. Here is an example configuration (SSL part from Mozilla SSL configurator). Please amend for your own needs and understand the settings before deploying it.:

```
upstream mytardis {
    server unix:/var/run/gunicorn/mytardis/socket;
    server 127.0.0.1:8000 backup;
}
server {
    listen 80 default_server;
    server_name demo.mytardis.org;
    return 301 https://$server_name$request_uri;
}
```

(continues on next page)

(continued from previous page)

```

server {
    listen 443 default_server ssl;
    server_name demo.mytardis.org;

    # certs sent to the client in SERVER HELLO are concatenated in ssl_certificate
    ssl_certificate /path/to/signed_cert_plus_intermediates;
    ssl_certificate_key /path/to/private_key;
    ssl_session_timeout 5m;
    ssl_session_cache shared:SSL:50m;

    # Diffie-Hellman parameter for DHE ciphersuites, recommended 2048 bits
    ssl_dhparam /path/to/dhparam.pem;

    # intermediate configuration. tweak to your needs.
    ssl_protocols TLSv1.1 TLSv1.2;
    ssl_ciphers 'ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-
↪AES256-GCM-SHA384:ECDHE-ECDSA-AES256-GCM-SHA384:DHE-RSA-AES128-GCM-SHA256:DHE-DSS-
↪AES128-GCM-SHA256:kEDH+AESGCM:ECDHE-RSA-AES128-SHA256:ECDHE-ECDSA-AES128-
↪SHA256:ECDHE-RSA-AES128-SHA:ECDHE-ECDSA-AES128-SHA:ECDHE-RSA-AES256-SHA384:ECDHE-
↪ECDSA-AES256-SHA384:ECDHE-RSA-AES256-SHA:ECDHE-ECDSA-AES256-SHA:DHE-RSA-AES128-
↪SHA256:DHE-RSA-AES128-SHA:DHE-DSS-AES128-SHA256:DHE-RSA-AES256-SHA256:DHE-DSS-
↪AES256-SHA:DHE-RSA-AES256-SHA:DES-CBC3-SHA:!aNULL:!eNULL:!EXPORT:!DES:!RC4:!MD5:!
↪PSK:!aECDH:!EDH-DSS-DES-CBC3-SHA:!EDH-RSA-DES-CBC3-SHA:!KRB5-DES-CBC3-SHA';
    ssl_prefer_server_ciphers on;

    # HSTS (ngx_http_headers_module is required) (15768000 seconds = 6 months)
    add_header Strict-Transport-Security max-age=15768000;

    # OCSP Stapling ---
    # fetch OCSP records from URL in ssl_certificate and cache them
    ssl_stapling on;
    ssl_stapling_verify on;

    ## verify chain of trust of OCSP response using Root CA and Intermediate certs
    ssl_trusted_certificate /path/to/root_CA_cert_plus_intermediates;

    resolver <IP DNS resolver>;

    client_max_body_size 4G;
    keepalive_timeout 5;

    gzip off; # security reasons
    gzip_proxied any;
    # MyTardis generates uncompressed archives, so compress them in transit
    gzip_types application/x-javascript text/css;
    gzip_min_length 1024;
    gzip_vary on;

    location / {
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $http_host;
        proxy_redirect off;
        proxy_pass http://mytardis;
        client_max_body_size 4G;
        client_body_buffer_size 8192k;
        proxy_connect_timeout 2000;
    }

```

(continues on next page)

(continued from previous page)

```
proxy_send_timeout 2000;
proxy_read_timeout 2000;
}

location /static/ {
    expires 7d;
    alias /srv/static_files/;
}
}
```

The X-Forwarded-Proto header is explained in <http://docs.gunicorn.org/en/stable/deploy.html#id5>:

It is recommended to pass protocol information to Gunicorn. Many web frameworks use this information to generate URLs. Without this information, the application may mistakenly generate 'http' URLs in 'https' responses, leading to mixed content warnings or broken applications.

To tell MyTardis to set this header in its HTTP requests and redirects, you'll need the following in your `settings.py`:

```
SECURE_PROXY_SSL_HEADER = ('HTTP_X_FORWARDED_PROTO', 'https')
```

For more information, including warnings on the risks of misconfiguring this setting, see: <https://docs.djangoproject.com/en/2.2/ref/settings/#secure-proxy-ssl-header>

Don't forget to create the static files directory and give it appropriate permissions. The location is set in the `settings.py` file.

```
# Collect static files to ``settings.STATIC_ROOT``
python manage.py collectstatic
# Allow Nginx read permissions
setfacl -R -m user:nginx:rx static_dir
```

See also:

Django with Gunicorn

Serving with Apache HTTPD + mod_wsgi

We do not support the use of Apache. If you need this and want to support this use case, we welcome your contribution of any relevant documentation.

Creating Systemd Services for Gunicorn and Celery

Gunicorn is a Python WSGI HTTP Server which is suitable for production (when combined with NGINX). Gunicorn is typically run from a Systemd service (on Ubuntu 16.04 or Ubuntu 18.04), saved in `/etc/systemd/system/gunicorn.service`:

```
[Unit]
Description=gunicorn daemon
After=network.target

[Service]
User=mytardis
Group=mytardis
```

(continues on next page)

(continued from previous page)

```

WorkingDirectory=/home/mytardis/mytardis
ExecStart=/home/mytardis/.virtualenvs/mytardis/bin/gunicorn \
  -c gunicorn_settings.py -b unix:/tmp/gunicorn.socket \
  -b 127.0.0.1:8000 \
  --log-syslog \
  wsgi:application

[Install]
WantedBy=multi-user.target

```

On older systems (Ubuntu 14.04), Supervisor can be used instead of Systemd. In this case, the Gunicorn service would be configured in `/etc/supervisor/conf.d/gunicorn.conf`:

```

[program:gunicorn]
command=/home/mytardis/.virtualenvs/mytardis/bin/gunicorn
  -c /home/mytardis/mytardis/gunicorn_settings.py
  -b unix:/tmp/gunicorn.socket
  -b 127.0.0.1:8000
  --log-syslog
  wsgi:application
user=mytardis
stdout_logfile=/var/log/gunicorn.log
redirect_stderr=true

```

A single server MyTardis deployment requires only one Gunicorn service, but MyTardis can be installed on multiple web nodes, each running NGINX and Gunicorn to accommodate load balancing and high availability using HAProxy.

The Celery workers which run MyTardis asynchronous tasks also require a service configuration, which is typically implemented with Systemd (on Ubuntu 16.04 or Ubuntu 18.04), saved in `/etc/systemd/system/celeryworker.service`:

```

[Unit]
Description=celeryworker daemon
After=network.target

[Service]
User=mytardis
Group=mytardis
WorkingDirectory=/home/mytardis/mytardis
Environment=DJANGO_SETTINGS_MODULE=tardis.settings
ExecStart=/home/mytardis/.virtualenvs/mytardis/bin/celery worker \
  -A tardis.celery.tardis_app \
  -c 2 -Q celery,default -n "allqueues.%%h"

[Install]
WantedBy=multi-user.target

```

On older systems (Ubuntu 14.04), Supervisor can be used instead of Systemd. In this case, the Celery worker service would be configured in `/etc/supervisor/conf.d/celeryworker.conf`:

```

[program:celeryd]
environment=
  DJANGO_SETTINGS_MODULE=tardis.settings
command=/home/mytardis/.virtualenvs/mytardis/bin/celery worker
  -A tardis.celery.tardis_app
  -c 2 -Q celery,default -n "allqueues.%%h"
user=mytardis
directory=/home/mytardis/mytardis

```

(continues on next page)

(continued from previous page)

```
stdout_logfile=/var/log/celeryd.log
redirect_stderr=true
killasgroup=true
stopwaitsecs=600
```

For tasks scheduled by Celerybeat, the Systemd service configuration (for Ubuntu 16.04 or Ubuntu 18.04), is saved in `/etc/systemd/system/celerybeat.service`:

```
[Unit]
Description=celerybeat daemon
After=network.target

[Service]
User=mytardis
Group=mytardis
WorkingDirectory=/home/mytardis/mytardis
Environment=DJANGO_SETTINGS_MODULE=tardis.settings
ExecStart=/home/mytardis/.virtualenvs/mytardis/bin/celery beat \
  -A tardis.celery.tardis_app --loglevel INFO

[Install]
WantedBy=multi-user.target
```

On older systems (Ubuntu 14.04), Supervisor can be used instead of Systemd. In this case, the Celerybeat service would be configured in `/etc/supervisor/conf.d/celerybeat.conf`:

```
[program:celerybeat]
environment=
  DJANGO_SETTINGS_MODULE=tardis.settings
command=/home/mytardis/.virtualenvs/mytardis/bin/celery beat
  -A tardis.celery.tardis_app --loglevel INFO
user=mytardis
directory=/home/mytardis/mytardis
stdout_logfile=/var/log/celerybeat.log
redirect_stderr=true
```

11.2.2 Authentication Methods

Users

MyTardis supports several sources of authentication and identity, referred to as user providers.

In the `settings.py` user providers are activated by specifying them within the **USER_PROVIDERS** variable:

```
USER_PROVIDERS = ('tardis.tardis_portal.auth.localdb_auth.DjangoUserProvider',)
```

Groups

MyTardis also supports several sources for group membership information, referred to as group providers.

In the `settings.py` group providers are activated by specifying them within the **GROUP_PROVIDERS** variable:

```
GROUP_PROVIDERS = ('tardis.tardis_portal.auth.localdb_auth.DjangoGroupProvider',
                  'tardis.tardis_portal.auth.vbl_auth.VblGroupProvider',)
```

Included Auth Plugins

HTTP Basic Endpoint Authentication

`tardis.tardis_portal.auth.httpbasicendpoint_auth`

HTTP Basic Endpoint authentication uses access to a HTTP resource (or endpoint) to determine if authentication should be allowed.

To use HTTP Basic Endpoint authentication, you'll need a HTTP resource protected by HTTP Basic Auth which is accessible from the MyTardis server.

In the `settings.py` add the following to `AUTH_PROVIDERS` with an appropriate name. eg.

```
AUTH_PROVIDERS = (
    ('acls', 'acls', 'tardis.tardis_portal.auth.httpbasicendpoint_auth.
↳HttpBasicEndpointAuth'),
)
```

On each request, MyTardis will attempt to use basic authentication with the provided credentials to access the HTTP resource. If it fails, access is denied.

Endpoint to use in HTTP Basic Endpoint Auth. eg.

```
HTTP_BASIC_AUTH_ENDPOINT = 'https://test.example/endpoint'
```

LDAP Authentication

`tardis.tardis_portal.auth.ldap_auth`

To enable LDAP you'll need to specify which components of the LDAP authentication backend are enabled. In the `settings.py` add the following to either Authentication, User Provider, Group Provider slugs.:

```
'tardis.tardis_portal.auth.ldap_auth.ldap_auth'
```

This is a wrapper function that allows initialisation of the LDAP provider using `settings.py` values.

`ldap_auth()` Function

The following are configuration settings that are used when initialising the LDAP backend.

`tardis.default_settings.LDAP_TLS`

Enable TLS connections.

`tardis.default_settings.LDAP_URL`

Set the URL of the LDAP server, e.g. `ldap://localhost:389/`

`tardis.default_settings.LDAP_USER_LOGIN_ATTR`

Set the login attribute of the users, usually this will be either `cn` or `uid`

`tardis.default_settings.LDAP_USER_ATTR_MAP`

The LDAP user attribute map is used to map internal identifiers like `first_name`, `last_name` and `email` to their LDAP equivalents e.g. `{"givenName": "first_name", "sn": "last_name", "mail": "email"}`

`tardis.default_settings.LDAP_GROUP_ID_ATTR`

This is where you specify the group identifier from LDAP, usually it will be `cn`.

`tardis.default_settings.LDAP_GROUP_ATTR_MAP`

This map is used to map internal identifiers like *display* e.g. `{"description": "display"}`

`tardis.default_settings.LDAP_BASE`

Sets the search base of the LDAP queries *dc=example, dc=com*

`tardis.default_settings.LDAP_USER_BASE`

Sets the suffix to append to the user RDN (e.g. `uid=jsmith`) to construct the DN e.g. `"ou=People, " + LDAP_BASE`

`tardis.default_settings.LDAP_GROUP_BASE`

Sets the suffix to append to the group RDN (e.g. `cn=group1`) to construct the DN e.g. `"ou=Group, " + LDAP_BASE`

Temporary Token Authentication

`tardis.tardis_portal.auth.token_auth`

To use token authentication, you'll need to specify the following *settings.py*

```
'tardis.tardis_portal.auth.token_auth.TokenGroupProvider',
```

```
TOKEN_EXPIRY_DAYS = 30
```

```
TOKEN_LENGTH = 30
```

```
TOKEN_USERNAME = 'tokenuser'
```

and create a user with

```
bin/django createtokenuser
```

Cleaning up

```
bin/django cleanuptokens
```

It is recommended that you schedule regular purging of expired tokens. Set a cronjob to run `bin/django cleanuptokens`

Expiry

Token auth works by hijacking the group provider system.

MyTardis groups are calculated and cached when a user logs in.

This means that if a session is active, and a token becomes invalid (either through deletion or expiry) that access will still be granted. To mitigate this, when a token user logs in, an explicit expiry is set on their session - the earlier of 4am the next day, or the session expiry date (the end of the day)

This forces the user to attempt to log in again, and be denied access.

- `tardis.tardis_portal.auth.ip_auth`

The `tardis.tardis_portal.auth` package module contains the authentication specific code.

11.2.3 Filter Setup

With the `USE_FILTERS` option set to `True` in settings, filters will be called once a file object has been verified.

Filters allow post-processing of uploaded files and can be used to extract metadata from file headers and/or generate thumbnail images.

The `DataFileObject`'s `verify` method submits a task called “mytardis.apply_filters” to the message broker (RabbitMQ).

This task can be picked up by the “mytardis-filters” microservice: <https://github.com/mytardis/mytardis-filters> or by your own custom microservice.

11.2.4 Database

Initialising

When creating a new database the `migrate` command will need to be called to initialise the schema and insert the initial data fixtures.

Usage

```
python manage.py migrate
```

Migrating

Some of the upgrades to MyTardis will require that the database schema be upgraded to match the internal data model. The `migrate` command migrates data from old database schemas to the current one. It detects which version of the database you are currently running and will automatically migrate to the current version.

In certain cases it is also necessary to update the permissions table.

Usage

```
python manage.py migrate
```

If the model changes require it, run:

```
python manage.py update_permissions
```

creating superuser

After success of database initialization or migration, please use a command line utility called `createsuperuser` to create an administrator account using the admin site which is hooked to the URL `/admin/`.

Usage

```
python manage.py createsuperuser
```

Backup

Previous versions of MyTardis included a `backupdb` management command but it has been removed in 4.0. Please use the recommended backup tool for your database engine, e.g. `pg_dump` or `mysqldump`.

11.2.5 Schema and Parameter Sets

MyTardis stores metadata as *Parameters*, which are grouped in to *Parameter Sets*, which are defined by a *Schema*.

Managing Schema

Schemas are managed through the Django administrative interface. The administrative interface is normally accessible from a link similar to:

```
http://domain.com:8000/admin/
```

Selecting “Schemas” in the administrative interface will display a list of the installed schemas. Clicking on a schema displays the editor for that schema.

Schema definitions are the combination of two tables, *Schema* and *ParameterName*.

The *Schema* fields are:

Namespace The namespace uniquely identifies the schema. When exporting an experiment as a METS file the namespace is used as an XML Namespace, and thus must follow the XML standard, i.e. in the form of a URL.

The MyTardis naming convention is:

```
http://domain.com/localidentifiers/schemaname/version
```

Name The display name of the schema.

Type Experiment, Dataset or Datafile.

Subtype Used to group and identify schema for forms based searching.

The *ParameterName* fields are:

Schema The namespace of the schema which this parameter belongs to.

Name The identifier used to ingest parameters.

Full Name The display name of the parameter.

Units The display name of the units for numerical values.

Data Type One of:

- Numeric
- String
- Longstring
- URL
- Filename
- Datetime
- Link

Strings use the input field widget for editing, while longstrings use a textarea widget.

Immutable If true, no user editing of the parameter is allowed, regardless of access.

Comparison Type The type of search to be performed with Forms Based Search. Not used by Advanced Search.

Is Searchable Flag whether this parameter is searchable.

Choices If defined, a drop down list of values is displayed.

Order The display order of the parameters within the schema. Sorting is by Order, then alphabetically.

11.2.6 Setting Up Search

Tardis comes with a single search option which provides users with a search field that returns a list of matching Experiments, Datasets and Datafiles.

The single search box uses Elasticsearch, and Django Elasticsearch DSL library that allows indexing of django models in elasticsearch, and accordingly requires some setup. The single search box is disabled by default.

Setting up Elasticsearch

Elasticsearch doesn't work out of the box with MyTardis. It is not currently installed with pip and requires a number of manual steps to get working.

Elasticsearch can be found here: <https://www.elastic.co/products/elasticsearch>

The following are a very simple list of steps that will get everything up and running. It is advisable to follow up with the person responsible for overseeing security policy at your home institution to see if any extra setup is necessary.

Django Configuration

Enabling Single Search

A list of default settings for Single Search are already in `default_settings.py` in the MyTardis repository. Single search is enabled by setting the `SINGLE_SEARCH_ENABLED` option to True.

MyTardis comes with a search app that allows indexing Experiments, Dataset and Datafile models and also provides view and api to perform elasticsearch query on these models. This can be enabled by adding `'tardis.apps.search'` to the list of installed apps.

Other settings are shown below:

ELASTICSEARCH_DSL Settings

The default value is

```
INSTALLED_APPS += ('django_elasticsearch_dsl', 'tardis.apps.search',)
ELASTICSEARCH_DSL = {
    'default': {
        'hosts': 'http://localhost:9200'
    },
}
ELASTICSEARCH_DSL_INDEX_SETTINGS = {
    'number_of_shards': 1,
    'number_of_replicas': 0
}
```

Updating Indexes

Once Elasticsearch is set up, and Single Search is enabled (i.e. the `SINGLE_SEARCH_ENABLED` option in settings is set to True) Elasticsearch DSL will automatically register the addition of and changes to models and reflect these in the search index. That is, as soon as a new instance of a model is added to the database, or changes are made to an existing instance, these changes will be searchable.

If you're adding search to an existing deployment of Django then you'll need to manually trigger a rebuild of the indexes (automatic indexing only happens through signals when models are added or changed).

Elasticsearch DSL registers a number of management commands with the Django framework, these commands can be listed by running the following command

```
python manage.py search_index --help
```

the important one here being the `--rebuild` command. To rebuild, navigate to your checkout and call the following command

```
python manage.py search_index --rebuild
```

Elasticsearch DSL will then ask you to confirm your decision (Note: Rebuilding will destroy your existing indexes, and will take a while for large datasets, so be sure), and then start rebuilding.

11.2.7 Storage Options and Architecture in MyTardis

Database layout for storage

The storage for each `DataFile` is configured individually. A “way to store data” is called `StorageBox`. Each file has one or many related `DataFileObjects`, which link a `DataFile` with a `StorageBox`. A `DataFile` can have several copies stored in different `StorageBoxes` via several `DataFileObjects`.

StorageBoxes

`StorageBoxes` contain all the information needed to store a file except an id unique to the file and `storagebox`.

Each `StorageBox` points to a class that implements the Django storage API via a python module path as string.

Optional instantiation parameters for each `StorageBox` can be stored in `StorageBoxOptions`. These are used as parameters to the storage class set in the `django_storage_class` attribute of a `StorageBox`

These parameters are string types by default. However, by setting the optional parameter `value_type` to `'pickle'`, any picklable object can be stored here and hence used for instantiation of the storage class.

Optional classification and other metadata can be stored in `StorageBoxAttributes`.

A special case is where someone registers a file and wants to put it into location themselves but needs to be given the place to put it (via the API). Such situation can only be resolved with `StorageBoxes` that implement the “`build_save_location`” function. Such `StorageBoxes` need to have a `StorageBoxAttribute` with key “`staging`” and value “`True`”.

DataFiles

`DataFiles` are the logical representation of the file. They contain information about the name, size, checksum, dates etc.

DataFileObjects

DataFileObjects point to the DataFile they belong to and the StorageBox they reside in. They also have an identifier that the StorageBox uses to find the actual file. DataFileObjects also have a date, and a state-flag.

Available backends

Django storage API compatible backends are available for example at <https://github.com/jschneier/django-storages>

We have tested the following backends with MyTardis:

- File on disk or any other system mounted storage
- SFTP
- SWIFT Object Storage

Documented backends

S3 compatible storage

S3 and S3 compatible storage backends are supported by the django-storages package.

The django-storages package is now included in MyTardis's requirements-base.txt

It can be used to configure an S3 storage box, or it can be used to store static assets in S3, as described at <https://django-storages.readthedocs.io/en/latest/backends/amazon-S3.html>

Configuration

The following options can be set as StorageBoxOption on your S3 storage box or system wide in your Django settings (a default of * labels mandatory settings):

StorageBoxOption	Django Setting	Default
access_key	AWS_S3_ACCESS_KEY_ID * AWS_ACCESS_KEY_ID	
secret_key	AWS_S3_SECRET_ACCESS_KEY * AWS_SECRET_ACCESS_KEY	
file_overwrite	AWS_S3_FILE_OVERWRITE	True
headers	AWS_HEADERS	{}
bucket_name	AWS_STORAGE_BUCKET_NAME	
auto_create_bucket	AWS_AUTO_CREATE_BUCKET	False
default_acl	AWS_DEFAULT_ACL	public-read
bucket_acl	AWS_BUCKET_ACL	default_acl
querystring_auth	AWS_QUERYSTRING_AUTH	True
querystring_expire	AWS_QUERYSTRING_EXPIRE	600
reduced_redundancy	AWS_REDUCED_REDUNDANCY	False
location	AWS_LOCATION	' '
encryption	AWS_S3_ENCRYPTION	False
custom_domain	AWS_S3_CUSTOM_DOMAIN	None
calling_format	AWS_S3_CALLING_FORMAT	SubdomainCallingFormat()
secure_urls	AWS_S3_SECURE_URLS	True
file_name_charset	AWS_S3_FILE_NAME_CHARSET	'utf-8'
gzip	AWS_IS_GZIPPED	False
preload_metadata	AWS_PRELOAD_METADATA	False
gzip_content_types	GZIP_CONTENT_TYPES	('text/css', 'text/javascript', 'application/javascript', 'application/x-javascript', 'image/svg+xml')
url_protocol	AWS_S3_URL_PROTOCOL	http:
host	AWS_S3_HOST	S3Connection.DefaultHost
use_ssl	AWS_S3_USE_SSL	True
port	AWS_S3_PORT	None
proxy	AWS_S3_PROXY_HOST	None
proxy_port	AWS_S3_PROXY_PORT	None
The max amount of memory a returned file can take up before being rolled over into a temporary file on disk. Default is 0: Do not roll over.		
max_memory_size	AWS_S3_MAX_MEMORY_SIZE	0

Appendix: Conversion of 'Replicas'

Replicas used to be the method of file storage abstraction in MyTardis versions 3.x. The StorageBoxes replace this. For pain-free upgrading, a conversion has been included with the database migrations that works as follows:

All 'Locations' that are local are converted to default (folder on disk) StorageBoxes. All 'Locations' that are not local are converted to dummy 'link only' StorageBoxes with the corresponding name. These can be upgraded manually to a StorageBox with an appropriate backend after the migration has taken place.

Max size is set to size of disk, hence for multiple locations on the same disk this number provides no protection. This also should be set to reasonable values manually after the migration.

Each 'Replica' of a file will be converted to a DataFileObject pointing to the relevant StorageBox.

All files are manually reverified, so that unverified entries can be checked for errors.

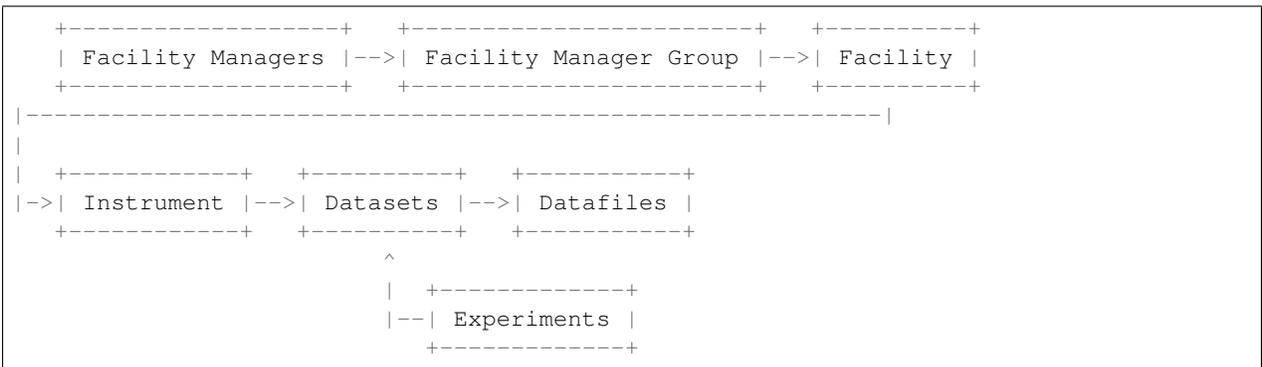
11.2.8 Facility Overview

Introduction

The Facility Overview included with MyTardis allows facility administrators to monitor the output of connected instruments, highlighting unverified files, dataset size, file counts and file listings.

Setup

In order for datasets to appear in the Facility Overview, each dataset must be associated with an Instrument, which is itself associated with a Facility. The Facility object will reference a facility administrator’s group, members of which may view the Facility Overview.



The facility managers, facility manager groups, facilities and instruments may be configured via the django admin interface. MyData, the desktop uploader client for the MyTardis server, can be configured to assign the appropriate instrument to uploaded datasets at the point of ingestion.

It should be noted that the dataset visibility within the facility overview is limited to dataset and datafile listings only. Access to the experiment and dataset views, as well as raw data, is still controlled via the *ACL framework*.

Usage

Members of the facility manager groups for one or more facilities will see the “Facility Overview” menu item in the MyTardis web portal. After opening the facility overview, a list of recently ingested datasets will be displayed from the facility being managed. If a user manages multiple facilities, a blue drop-down selector will also appear on the right-hand side of the page. As the facility overview is designed to give a snapshot of recently uploaded datasets, older data is not immediately accessible; MyTardis’ *search feature* is better suited to this.

In addition to simply listing the most recent datasets, the datasets can be grouped by instrument or by owner, and filtered by username, experiment name and instrument name. Note that while filters are active, it may appear as though no new pages are loaded by clicking “Load more”, since the additional datasets fetched from the server might not match the active filters.

11.2.9 Task Priorities

Overview

From v4.1.0, MyTardis assumes the use of RabbitMQ as its message broker, and instructs Celery to create a “celery” queue with task priorities enabled. The queue’s maximum priority is set to 10 in `tardis/default_settings/celery_settings.py` which is used when setting up the Celery app in `tardis/celery.py`:

```
tardis/default_settings/celery_settings.py
-----
...
MAX_TASK_PRIORITY = 10
DEFAULT_TASK_PRIORITY = 5
DEFAULT_EMAIL_TASK_PRIORITY = 10

CELERY_DEFAULT_QUEUE = 'celery'
# The 'x-max-priority' argument will only be respected by the RabbitMQ broker,
# which is the recommended broker for MyTardis:
CELERY_QUEUES = (
    Queue('celery', Exchange('celery'),
          routing_key='celery',
          queue_arguments={'x-max-priority': MAX_TASK_PRIORITY}),
)

tardis/celery.py
-----
...
tardis_app = Celery('tardis')
tardis_app.config_from_object('django.conf:settings')
...
```

Celery's `apply_async` method's `shadow` argument is used to annotate storage box related task names with the location (storage box name) which they are running in, e.g. `dfo_verify` becomes `dfo_verify location:default-storage`:

```
tardis/tardis_portal/tasks.py
-----
...
def verify_dfos(**kwargs):
    ...
    for dfo in dfos_to_verify:
        kwargs['priority'] = dfo.priority
        kwargs['shadow'] = 'dfo_verify location:%s' % dfo.storage_box.name
        dfo_verify.apply_async(args=[dfo.id], **kwargs)
    ...
```

Monitoring

We can confirm that the `x-max-priority` argument was supplied when creating the queue by running `rabbitmqctl report` on our RabbitMQ server:

```
$ sudo rabbitmqctl report | grep 'x-max-priority'
...
Listing queues for vhost mytardis ...
name    durable auto_delete    arguments ...
...
celery  true    false    [{"x-max-priority",10}] ...
```

We can list the tasks currently running (and observe their priorities) by running `celery inspect active` from one of our Celery nodes:

```
(mytardis) mytardis@celery0 ~/mytardis$ DJANGO_SETTINGS_MODULE=tardis.settings celery_
↵-A tardis.celery.tardis_app inspect active
-> celery@allqueues.celery0: OK
```

(continues on next page)

(continued from previous page)

```

    * {u'args': u'[32933203]', u'time_start': 1548368931.7151582, u'name': u'dfo_
↪verify location:default-storage',
      u'delivery_info': {u'priority': 5, u'redelivered': False, u'routing_key': u
↪'celery', u'exchange': u''},
      u'hostname': u'celery@allqueues.celery0', u'acknowledged': False, u'kwargs': u'
↪{}',
      u'type': u'tardis_portal.dfo.verify', u'id': u'50c80b84-5d64-44c7-a6d4-
↪c551b6d14e22', u'worker_pid': 3730}
-> celery@allqueues.celery2: OK
    - empty -
...
-> celery@allqueues.celery7: OK
    * {u'args': u'[30476811]', u'time_start': 1548368924.2799926, u'name': u'dfo_
↪verify location:default-storage',
      u'delivery_info': {u'priority': 5, u'redelivered': False, u'routing_key': u
↪'celery', u'exchange': u''},
      u'hostname': u'celery@allqueues.celery7', u'acknowledged': False, u'kwargs': u'
↪{}',
      u'type': u'tardis_portal.dfo.verify', u'id': u'de7d0fe1-f386-4937-af7f-
↪a693e7630fb5', u'worker_pid': 9051}
...
-> celery@allqueues.celery14: OK
    * {u'args': u'[289]', u'time_start': 1548368427.9639463, u'name': u'sbox_cache_
↪files location:big-data1',
      u'delivery_info': {u'priority': 4, u'redelivered': False, u'routing_key': u
↪'celery', u'exchange': u''},
      u'hostname': u'celery@allqueues.celery14', u'acknowledged': False, u'kwargs': u'
↪{}',
      u'type': u'tardis_portal.storage_box.cache_files', u'id': u'8767709f-ae98-4735-
↪9d29-21bb5b13e230', u'worker_pid': 15906}

```

Notice that most tasks have the default priority of 5 (defined in `tardis/default_settings/celery_settings.py` as `DEFAULT_TASK_PRIORITY` and that the task operating on a file from the `big-data1` storage boxes has a lower priority of 4.

Default priorities for storage boxes can be configured via StorageBox Attributes. We can check which storage boxes have priorities specified in the Django shell as follows:

```

(mytardis) mytardis@celery0:~/mytardis$ ./manage.py shell_plus

>>> StorageBoxAttribute.objects.filter(key='priority')
<QuerySet [<StorageBoxAttribute: big-data1-> priority: 4>, <StorageBoxAttribute: big-
↪data2-> priority: 4>]>

```

So in the example above, explicit priorities are only set for the “big-data1” and “big-data2” storage boxes.

Common Problems and Solutions

Celery workers time out when running `celery inspect active`

When running `celery inspect active` sometimes you will see this error:

```
Error: No nodes replied within time constraint.
```

Usually, running `celery inspect active` again will resolve the problem, i.e. it will just work without error on subsequent attempts.

If desired, you can specify a timeout e.g. `timeout 10` but usually `running celery inspect active again` does the trick.

Non-priority queue already exists

If an attempt to submit a task to the queue (with `apply_async` triggers an error like this:

```
PreconditionFailed: Queue.declare: (406) PRECONDITION_FAILED - inequivalent arg 'x-
↪max-priority' for queue 'celery' in vhost '/':
received the value '10' of type 'signedint' but current is none
```

This means that the MyTardis process attempting to submit the task is expecting the queue to have the `x-max-priority` argument, but it doesn't have that argument (see `rabbitmqctl` report above).

In this case, you can delete the `celery` queue, and allow Celery to recreate it with the `x-max-priority` argument:

```
(mytardis) mytardis@celery0 ~/mytardis$ DJANGO_SETTINGS_MODULE=tardis.settings celery_
↪-A tardis.celery.tardis_app amqp queue.delete celery
```

11.3 Development

11.3.1 Architecture

This page describes the architecture of MyTardis.

MyTardis is built on the Django web framework, which itself is built on Python, thus MyTardis follows the architectural model of Django.

Component Architecture

Web Server MyTardis is typically deployed with the standard `Nginx + Gunicorn + Django + Python` stack.

RDBMS Ideally, use PostgreSQL. MySQL or MariaDB may be usable but it is not as well tested.

Data Storage Local disk, network mounted disks as well as S3 and SFTP are supported.

Ingestion Ingestion is normally site specific. A desktop application is available (MyData).

Functional Architecture

MyTardis follows the standard Django architecture.

The major functional modules in MyTardis are:

API A RESTful API provides anonymous and authenticated access to most of the stored data.

Auth Authentication and Authorisation.

Download Data download functionality.

Filters Processing of metadata as data is uploaded, e.g. extract EXIF metadata from JPEG files.

Management Additional commands for the Django CLI. The backup utility is implemented as a Django command.

Migrations Database migration code.

Publish RIF-CS metadata publication.

Search Provides a searchable and authorisation enabled index for quickly finding data.

SFTP server Provides read access to data in MyTardis via the SFTP protocol

Information on the individual modules is available from the modindex.

Scalability Model

At the component / module level, performance and Scalability within MyTardis is achieved by:

- Allowing long lived or compute intensive operations to be hosted on separate machines from the main web server.
 - E.g. by running multiple web servers and sending long lived operations, such as ingestion, to a server reserved for such operations.
- Performance and Scalability of the database is achieved by a combination of 1) optimising the SQL requests issued by MyTardis, and 2) database specific scalability, please refer to the appropriate database documentation.
- Performance and Scalability of the web server is provided through the normal mechanisms for nginx / wsgi hosted python applications, e.g.:
 - Increasing individual Server capability
 - * Individual Server performance / utilization may be managed by controlling the number of python (django) processes active at any one time.
 - Deploying multiple web servers
 - * Multiple web servers may be deployed using standard mechanisms, e.g. load balancers. State (session) information is distributed using Django's standard session model.
- The Data Archive is a normal file system, e.g. NFS, SAMBA, etc., with performance and scalability dependent on the implementation and deployment.
- Extraction and formatting of metadata for ingestion is up to the client and may be distributed across any number of machines.

SQL Scalability Notes

The datafileparameter table is expected to be the single largest table by an order of magnitude, in the hundreds of millions of records (at the Australian Synchrotron).

For Postgres, this will probably be addressed by table partitioning. In this case using a date field to partition is often recommended. Dates may be introduced as part of the support for annotations, raw data, versioned data and derived data.

Persistence and Data Architecture

Django provides an Object-Relational-Model that maps Django Models to the underlying relational database.

The Django Models are defined in `tardis.tardis_portal.models`.

Security Model

Authentication

Access to data catalogued by MyTardis may be either public, i.e. anonymous access allowed, or private, requiring authentication. The Authentication Framework is documented in `ref-authframework`.

Authorisation

MyTardis includes an extensible authorisation engine, documented in `ref-authframework` and *Authorisation Framework*.

Class Diagram

Unless the application has a very rich business model (which MyTardis does not), a class diagram doesn't convey much information in Django applications (it ends up being a flat list of classes). To understand the context in which the MyTardis classes are created, please refer to the Django documentation, <http://docs.djangoproject.com/> on the responsibilities of models, views, managers and templates.

Source Code

This section describes the top level layout of the source code in the [GitHub repository](#).

- docs
 - MyTardis User and Administrative documentation
- tardis
 - apps
 - * **Contains all the optional functionality and installation specific** functionality. Examples include the optional ANDS Register (`ands_register`) and Related Info (`related_info`) tabs, and the ANSTO (`mecat-ansto`) and Australian Synchrotron (`mecat-as`) installation specific modules.
 - * **Some applications are part of the main code base, others can be added** at installation time.
 - search
 - * Search related code
 - `tardis_portal`
 - * This is the main django application that contains most of the core MyTardis functionality

11.3.2 Authorisation Framework

Django Authorisation

Django has a built-in authorisation/permission mechanism that is in use by default. It is enabled in MyTardis in `default_settings.py` together with the custom object level permission framework described below.

```
AUTHENTICATION_BACKENDS = (
    'django.contrib.auth.backends.ModelBackend',
    'tardis.tardis_portal.auth.authorisation.ACLAwareBackend',
)
```

The Django default permissions are automatically available for each Model. The verbs are add, change, delete, and they can be queried on the user object as follows:

```
user.has_perm('tardis_portal.add_experiment')
user.has_perm('tardis_portal.add_dataset')
user.has_perm('tardis_portal.change_experiment')
user.has_perm('tardis_portal.delete_datasetparameterset')
```

There is a function in `tardis.tardis_portal.auth.authservice` called `_set_user_from_dict` that adds the following permissions for each new user created using custom methods:

```
'add_experiment'
'change_experiment'
'change_group'
'change_userauthentication'
'change_experimentacl'
```

These permissions apply in general and are augmented by ACLs

Object Level Permissions and Access Control Lists

The main purpose of the ACL system is to manage per experiment permissions. The architecture allows for future expansion to more fine grained permission management. However, at this stage only the Experiment level is supported by the user interface.

Permissions are applied with a few predefined roles:

read read permission allows individuals and groups access to view an experiment.

write write permissions cover addition of new datasets and datafiles and also deletion of datafile.

delete delete permission allows deletion of datasets and experiments.

Roles are applied through the web using the *Control Panel* and can be applied to either users or groups.

To make an experiment public requires an explicit publish action.

The ACL permissions can be queried on the user object just like standard permissions, however, with the addition of the object in question:

```
user.has_perm('tardis_acls.change_experiment', experiment)
```

Verbs currently available are change, view, delete, owns, share.

The translation of ACLs to `has_perm` verbs is defined in a function in `tardis.tardis_portal.auth.authorisation`.

To allow for querying on any object related to experiments, extra logic was added to some of the models. To support the logic, in addition to ACLs, `has_perm` calls model functions named `_has_VERB_perm`, which allows model-specific permission logic.

The current policy is that if those functions return True or False then that result is returned without further checking. If they return an object, permissions will be checked for this object thereby allowing delegation.

11.3.3 RESTful API for MyTardis

The data and metadata stored in MyTardis instances is made accessible through a RESTful API.

Not all functionality has been exposed via the API at this time. This documentation reflects what is available and tested.

The API version `v1` is built on the Tastypie framework.

The RESTful API can also be explored via the automatically generated Swagger documentation at <http://mytardis-example.com/api/v1/swagger/>.

See swagger.io for details on the Swagger standard.

API accessible models

- Experiment
- ExperimentParameterSet
- ExperimentParameter
-
- Dataset
- DatasetParameterSet
- DatasetParameter
-
- DataFile
- DatafileParameterSet
- DatafileParameter
-
- StorageBox
- StorageBoxOption
- StorageBoxAttribute
-
- Schema
- ParameterName
-
- User
- Group
-
- Facility
- Instrument
-
- ObjectACL

Authentication

Currently implemented are Basic Auth, to be used via HTTPS only, and SessionAuth which queries Django sessions.

Due to our desire to provide information to users without any login, eg. for public data, the Basic Auth mechanism is slightly non-standard.

The standard sends an anonymous request, awaits a WWW-Authenticate header, then sends authentication credentials. Instead, this API sends public data for anonymous requests.

Using `curl` or the `requests` library this poses no problem. However, using `urllib2` or web browser without a Django session is not going to work out of the box.

Here is a snippet (found here: <http://stackoverflow.com/questions/4628610/does-urllib2-support-preemptive-authentication-authentication>) that makes `urllib2` work, should you want to use this library:

```
class PreemptiveBasicAuthHandler(urllib2.BaseHandler):

    def __init__(self, password_mgr=None):
        if password_mgr is None:
            password_mgr = urllib2.HTTPPasswordMgrWithDefaultRealm()
        self.passwd = password_mgr
        self.add_password = self.passwd.add_password

    def http_request(self, req):
        uri = req.get_full_url()
        user, pw = self.passwd.find_user_password(None, uri)
        if pw is None:
            return req

        raw = "%s:%s" % (user, pw)
        auth = 'Basic %s' % base64.b64encode(raw).strip()
        req.add_unredirected_header('Authorization', auth)
        return req

auth_handler = PreemptiveBasicAuthHandler()
auth_handler.add_password(realm=None,
                        uri=url,
                        user='mytardis',
                        passwd='mytardis')
opener = urllib2.build_opener(auth_handler)
# ...and install it globally so it can be used with urlopen.
urllib2.install_opener(opener)
```

Querying the database (GET)

All endpoints support querying lists and individual records via GET requests. Some support more complex queries via GET parameters as well.

Creating objects, adding files (POST)

The creation of Experiments, Datasets and Dataset_Files via POSTs with the option to include metadata/parametersets has been implemented and tested.

The following examples demonstrate how to go about it.

In all except the file attachment case the POST data should be a JSON string, the `Content-Type` header needs to be set to `application/json` and the `Accept` header as well. Other response formats may be made available in the future.

In all cases the URI of the created object is returned in the `Location` header of the response.

Experiments

Example JSON input

```
{
  "title": "API-created Experiment #1",
  "description": "Wow, all automatic!",
  "institution_name": "Monash University",
  "parameter_sets": [
    {
      "schema": "http://institution.com/my/schema",
      "parameters": [
        {
          "name": "important_parameter_1",
          "value": "Test16"
        },
        {
          "name": "important_parameter_3",
          "value": "57.136"
        }
      ]
    },
    {
      "schema": "http://company.com/some/other/schema",
      "parameters": [
        {
          "name": "meaningful_name",
          "value": "Test17"
        },
        {
          "name": "meaningless_name",
          "value": "1234"
        }
      ]
    }
  ]
}
```

This creates an experiment with two parametersets with two parameters each.

Alternative to Schema namespaces and Parameter names, you can also specify the URIs to each. Until the querying of Schemas and Parameters is documented this is discouraged.

Datasets

Example JSON input:

```
{
  "description": "API-created Dataset",
  "experiments": [
```

(continues on next page)

(continued from previous page)

```

    "/api/v1/experiment/1/",
    "/api/v1/experiment/2/"
  ],
  "immutable": false,
  "parameter_sets": [
    {
      "parameters": [
        {
          "name": "obscure-instrument-setting-52",
          "value": "awesome dataset api POST"
        },
        {
          "name": "temperature",
          "value": "301"
        }
      ],
      "schema": "http://datasets.com/need/schemas/too"
    },
    {
      "parameters": [
        {
          "name": "someotherparameter",
          "value": "some other value"
        }
      ],
      "schema": "http://better-datasets.com/offers/better/schemas"
    }
  ]
}

```

DataFiles

There are three ways to add a file to MyTardis via the API.

Via multipart form POST

This works for single files at the moment.

The key is to send a multipart-form instead of 'application/json'. This can be accomplished with the requests library as shown in the following example.

To use requests you need to install it first, eg. `pip install requests`.

Also, for this to work, the POST data needs to be sent with the JSON string called 'json_data' and the file called 'attached_file'.

Example JSON input:

```

{
  "dataset": "/api/v1/dataset/1/",
  "filename": "mytestfile.txt",
  "md5sum": "c858d6319609d6db3c091b09783c479c",
  "size": "12",
  "mimetype": "text/plain",
  "parameter_sets": [{

```

(continues on next page)

(continued from previous page)

```

    "schema": "http://datafileshop.com/fileinfo/v1",
    "parameters": [{
      "name": "fileparameter1",
      "value": "123"
    },
    {
      "name": "fileparameter2",
      "value": "1234"
    }
  ]
}

```

Example requests script:

```

import requests
from requests.auth import HTTPBasicAuth

url = "http://localhost:8000/api/v1/dataset_file/"
headers = {'Accept': 'application/json'}
response = requests.post(url, data={"json_data": data}, headers=headers,
                        files={'attached_file': open(filename, 'rb')},
                        auth=HTTPBasicAuth(username, password)
                        )

```

Via staging location

Another way to add a file is to create the database entry first without providing a storage location. This will return back a location on the server that you are assumed to have access to. Once the file appears there, for example when you copy it there, it will be moved to its permanent storage location managed by MyTardis.

The full file path that you should copy/move the file to is returned as the content of the response.

Example JSON input:

```

{
  "dataset": "/api/v1/dataset/1/",
  "filename": "mytestfile.txt",
  "md5sum": "c858d6319609d6db3c091b09783c479c",
  "size": "12",
  "mimetype": "text/plain",
  "parameter_sets": [{
    "schema": "http://datafileshop.com/fileinfo/v1",
    "parameters": [{
      "name": "fileparameter1",
      "value": "123"
    },
    {
      "name": "fileparameter2",
      "value": "1234"
    }
  ]
}

```

Via shared permanent storage location

This method assumes that there exists a storage that is shared between MyTardis and you. The registered file will remain in this location.

For this to work you need to get a `Location` (internal MyTardis settings) name to submit with your metadata.

Examples JSON:

```
{
  "dataset": "/api/v1/dataset/1/",
  "filename": "mytestfile.txt",
  "md5sum": "c858d6319609d6db3c091b09783c479c",
  "size": "12",
  "mimetype": "text/plain",
  "replicas": [{
    "url": "mytestfile.txt",
    "location": "local",
    "protocol": "file"
  }],
  "parameter_sets": [{
    "schema": "http://datafileshop.com/fileinfo/2",
    "parameters": [{
      "name": "fileparameter1",
      "value": "123"
    },
    {
      "name": "fileparameter2",
      "value": "123"
    }
  ]
}]
}
```

urllib2 POST example script

Replace `MODEL` with one of the available model names in lower case. `data` is the JSON as a string.

```
import urllib2
url = "http://localhost:8000/api/v1/MODEL/"
headers = {'Accept': 'application/json',
          'Content-Type': 'application/json'}
auth_handler = urllib2.HTTPBasicAuthHandler()
auth_handler.add_password(realm="django-tastypie",
                          uri=url,
                          user=username,
                          passwd=password)
opener = urllib2.build_opener(auth_handler)
urllib2.install_opener(opener)
myrequest = urllib2.Request(url=url, data=data,
                             headers=headers)
myrequest.get_method = lambda: 'POST'
output = "error"
output = urllib2.urlopen(myrequest)
print output.headers["Location"]
```

11.3.4 Tests

Running the Test Suite

Run this command to run the unit tests:

```
./test.py
```

If you want to specify any options or specific tests to run, the test argument is required first:

```
./test.py test --some-argument
```

You can choose to run the test suite with different options (e.g. with coverage, with different verbosity, etc.). To see the full list of options, run the same command with the `--help` flag.

Running Individual Unit Tests

The unit tests reside in the `tardis/tardis_portal/tests` directory. To run the unit tests individually, you can use this command:

```
./test.py test <test_module_name_here>
```

Note that the test module name argument should be the relative file path with “.” as folder separator. For example, if you want to run the test “`test_authentication.py`”, then your command to execute this test would be:

```
./test.py test tardis.tardis_portal.tests.test_authentication
```

Other options

You can choose to include different options when running the unit tests (e.g. run in verbose mode, print out a traceback, etc.). Run the test or `django test` command with `--help` flag to see the full list of options:

```
./test.py test --help
```

Running BDD tests

To run BDD (Behaviour Driven Development) tests with the default settings and headless Chrome, download `ChromeDriver` from <http://chromedriver.chromium.org/downloads> and make it available in your `PATH` (e.g. in `/usr/local/bin/`) and run:

```
./test.py behave
```

Running QUnit tests

The QUnit tests reside in the `js_tests/` directory.

`package.json` contains `devDependencies` required for running these tests.

Running `npm install` will install everything you need, whereas `npm install --production` will skip the `devDependencies`.

You can run the QUnit tests with:

```
npm test
```

Or by running a web server:

```
python -m SimpleHTTPServer
```

and opening http://127.0.0.1:8000/js_tests/tests.html in your browser.

11.3.5 tardis

tardis package

Subpackages

tardis.analytics package

Submodules

tardis.analytics.apps module

```
class tardis.analytics.apps.AnalyticsConfig (app_name, app_module)
    Bases: django.apps.config.AppConfig
    name = 'tardis.analytics'
    verbose_name = 'Analytics framework'
```

tardis.analytics.ga module

Google analytics tracking

```
tardis.analytics.ga.track_download (label, session_id, ip, user, total_size=None,
                                     num_files=None, ua=None)
tardis.analytics.ga.track_login (label, session_id, ip, user)
tardis.analytics.ga.track_logout (label, session_id, ip, user)
```

tardis.analytics.tracker module

Generic tracking and analytics interface Supports Google Analytics through ga.py, others may follow

```
class tardis.analytics.tracker.IteratorTracker (iterator, tracker_data=None)
    Bases: object
    wraps file iterator to track successful and incomplete downloads
    close ()
    next ()
```

```
tardis.analytics.tracker.service = <module 'tardis.analytics.ga' from '/home/docs/checkouts/...>
    This can become a setting to other service in the future
```

Module contents

tardis.apps package

Subpackages

tardis.apps.deep_storage_download_mapper package

Submodules

tardis.apps.deep_storage_download_mapper.mapper module

File mapper that works for files stored in deep directory structures. It recreates the structure as stored in the datafile directory

```
tardis.apps.deep_storage_download_mapper.mapper.deep_storage_mapper(obj,  
                                                                    root-  
                                                                    dir=None)
```

If rootdir is None, just return a filesystem-safe representation of the object, e.g. “DatasetDescription_123” or “strange %2F filename.txt”

For now, only DataFiles are supported when rootdir is not None.

Parameters

- **obj** (*DataFile*, *Dataset* or *Experiment*) – The model instance (*DataFile*, *Dataset* or *Experiment*) to generate a path for.
- **rootdir** (*basestring*) – The top-level directory name, or None

Returns Filesystem-safe path for the object in the archive or SFTP view.

Return type *basestring*

Raises

- **Exception** –
- **NotImplementedError** –

tardis.apps.deep_storage_download_mapper.urls module

Module contents

tardis.apps.dl_mapper_df_dir_only package

Submodules

tardis.apps.dl_mapper_df_dir_only.mapper module

File mapper that works for files stored in deep directory structures. It recreates the structure as stored in the datafile directory

```
tardis.apps.dl_mapper_df_dir_only.mapper.df_dir_only(datafile, rootdir)
```

tardis.apps.dl_mapper_df_dir_only.urls module

Module contents

tardis.apps.eventlog package

Subpackages

tardis.apps.eventlog.migrations package

Submodules

tardis.apps.eventlog.migrations.0001_initial module

```
class tardis.apps.eventlog.migrations.0001_initial.Migration (name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('auth', '__first__'), ('contenttypes', '0002_remove_content_type_name')]
    initial = True
    operations = [<CreateModel name='Action', fields=[('id', <django.db.models.fields.Auto
```

Module contents

Submodules

tardis.apps.eventlog.admin module

```
class tardis.apps.eventlog.admin.LogAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    list_display = ['timestamp', 'user', 'action', 'extra']
    list_filter = ['action__name', 'timestamp']
    media
    raw_id_fields = ['user']
    search_fields = ['user__username', 'user__email', 'extra']
```

tardis.apps.eventlog.default_settings module

tardis.apps.eventlog.fields module

```
class tardis.apps.eventlog.fields.JSONField(verbose_name=None, name=None, primary_key=False, max_length=None, unique=False, blank=False, null=False, db_index=False, rel=None, default=<class 'django.db.models.fields.NOT_PROVIDED'>, editable=True, serialize=True, unique_for_date=None, unique_for_month=None, unique_for_year=None, choices=None, help_text="", db_column=None, db_tablespace=None, auto_created=False, validators=(), error_messages=None)
```

Bases: `django.db.models.fields.Field`

Simple class to make *JSONField* available to sqlite backends.

db_type (*connection*)

Return the database column data type for this field, for the provided connection.

from_db_value (*value, expression, connection*)

get_prep_value (*value*)

Perform preliminary non-db specific value checks and conversions.

to_python (*value*)

Convert the input value into the expected Python data type, raising `django.core.exceptions.ValidationError` if the data can't be converted. Return the converted value. Subclasses should override this.

value_to_string (*obj*)

Return a string value of this field from the passed obj. This is used by the serialization framework.

tardis.apps.eventlog.models module

```
class tardis.apps.eventlog.models.Action(id, name)
```

Bases: `django.db.models.base.Model`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

log_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

class tardis.apps.eventlog.models.Log(*id, timestamp, action, user, content_type, object_id, extra*)

Bases: django.db.models.base.Model

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

action

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

action_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

content_type

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

content_type_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

extra

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

get_next_by_timestamp (*, field=<django.db.models.fields.DateTimeField: timestamp>, is_next=True, **kwargs)

get_previous_by_timestamp (*, field=<django.db.models.fields.DateTimeField: timestamp>, is_next=False, **kwargs)

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

obj

Provide a generic many-to-one relation through the `content_type` and `object_id` fields.

This class also doubles as an accessor to the related object (similar to `ForwardManyToOneDescriptor`) by adding itself as a model attribute.

object_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

timestamp

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

user

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

user_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

tardis.apps.eventlog.signals module

tardis.apps.eventlog.urls module

tardis.apps.eventlog.utils module

`tardis.apps.eventlog.utils.get_request_data(request)`

`tardis.apps.eventlog.utils.log(action, user=None, obj=None, extra=None, request=None)`

Module contents

tardis.apps.filepicker package

Submodules

tardis.apps.filepicker.filepicker_settings module

tardis.apps.filepicker.urls module

tardis.apps.filepicker.utils module

taken from https://raw.githubusercontent.com/Filepicker/django-filepicker/master/django_filepicker/utils.py on 11 Apr 2013

```

class tardis.apps.filepicker.utils.FilepickerFile(url)
    Bases: object

    cleanup()
        Removes any downloaded objects and closes open files.

    filepicker_url_regex = re.compile('https?:\\/\\/www.filepicker.io\\/api\\/file\\/.*')

    get_file()
        Downloads the file from filepicker.io and returns a Django File wrapper object

```

tardis.apps.filepicker.views module

Filepicker.io button view and upload handler

Module contents

tardis.apps.oaipmh package

Subpackages

tardis.apps.oaipmh.provider package

Submodules

tardis.apps.oaipmh.provider.base module

```

class tardis.apps.oaipmh.provider.base.BaseProvider(site)
    Bases: oaipmh.interfaces.IOAI, object

    A base provider which roughly implements the PyOAI interface for OAI-PMH servers.

    Extend this if you're writing your own provider for a new type or a different metadata format.

    getRecord(metadataPrefix, identifier)
        Get a record for a metadataPrefix and identifier.

```

Parameters

- **metadataPrefix** (*string*) – identifies metadata set to retrieve
- **identifier** (*string*) –
– repository-unique identifier of record

Raises

- **oaipmh.error.CannotDisseminateFormatError** – if metadataPrefix is unknown or not supported by identifier.
- **oaipmh.error.IdDoesNotExistError** – if identifier is unknown or illegal.

Returns a header, metadata, about tuple describing the record.

```

identify()
    Retrieve information about the repository.

    Returns an Identify object describing the repository.

```

listIdentifiers (*metadataPrefix*, *set=None*, *from_=None*, *until=None*)

Get a list of header information on records.

Parameters

- **metadataPrefix** (*string*) – identifies metadata set to retrieve
- **set** (*string*) – set identifier; only return headers in set
- **from** (*datetime*) – only retrieve headers from **from_** date forward (in naive UTC)
- **until** (*datetime*) – only retrieve headers with dates up to and including until date (in naive UTC)

Raises

- **error.CannotDisseminateFormatError** – if metadataPrefix is not supported by the repository.
- **error.NoSetHierarchyError** – if the repository does not support sets.

Returns an iterable of headers.

listMetadataFormats (*identifier=None*)

List metadata formats supported by repository or record.

Parameters **identifier** (*string*) – identify record for which we want to know all supported metadata formats. If absent, list all metadata formats supported by repository.

Raises

- **error.IdDoesNotExistError** – if record with identifier does not exist.
- **error.NoMetadataFormatsError** – if no formats are available for the indicated record.

Returns an iterable of *metadataPrefix*, *schema*, *metadataNamespace* tuples (each entry in the tuple is a string).

listRecords (*metadataPrefix*, *set=None*, *from_=None*, *until=None*)

Get a list of header, metadata and about information on records.

Parameters

- **metadataPrefix** (*string*) – identifies metadata set to retrieve
- **set** (*string*) – set identifier; only return records in set
- **from** (*datetime*) – only retrieve records from *from_* date forward (in naive UTC)
- **until** (*datetime*) – only retrieve records with dates up to and including until date (in naive UTC)

Raises

- **oaipmh.error.CannotDisseminateFormatError** – if metadataPrefix is not supported by the repository.
- **oaipmh.error.NoSetHierarchyError** – if the repository does not support sets.

Returns an iterable of *header*, *metadata*, *about* tuples.

listSets ()

Get a list of sets in the repository.

Raises **error.NoSetHierarchyError** – if the repository does not support sets.

Returns an iterable of *setSpec*, *setName* tuples (strings).

writeMetadata (*element, metadata*)

Create XML elements under the given element, using the provided metadata.

Should avoid doing any model-lookups, as they should be done when creating the metadata.

Parameters

- **element** (*lxml.etree.Element*) – element to put all content under (as SubElements)
- **metadata** (*oaipmh.common.Metadata*) – metadata to turn into XML

Raises **NotImplementedError** – not implemented

tardis.apps.oaipmh.provider.experiment module

class `tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider` (*site*)

Bases: `tardis.apps.oaipmh.provider.base.BaseProvider`

NS_CC = 'http://www.tardis.edu.au/schemas/creative_commons/2011/05/17'

getRecord (*metadataPrefix, identifier*)

Return record if we handle it.

static get_id (*obj*)

listIdentifiers (*metadataPrefix, set=None, from_=None, until=None*)

Return identifiers in range, provided we handle this metadata prefix.

listRecords (*metadataPrefix, set=None, from_=None, until=None*)

Return records in range, provided we handle this metadata prefix.

listSets ()

No support for sets.

class `tardis.apps.oaipmh.provider.experiment.DcExperimentProvider` (*site*)

Bases: `tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider`

listMetadataFormats (*identifier=None*)

Return metadata format if no identifier, or identifier is a valid experiment.

class `tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider` (*site*)

Bases: `tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider`

class `ExperimentWriter` (*root, metadata, site*)

Bases: `object`

write ()

writeRegistryObjectsWrapper ()

writeRelatedAuthor (*element, obj, relation*)

writeRelatedInfo (*element, obj*)

writeRelatedUser (*element, obj, relation*)

writeSubject (*element, obj*)

static get_rifcs_id (*id_, site_=None*)

listMetadataFormats (*identifier=None*)

Return metadata format if no identifier, or identifier is a valid experiment.

```
static writeExperimentMetadata (element, metadata, site=None, writer=None)  
    Wrapper around experiment writer.  
static writeUserMetadata (element, metadata, site=None)
```

Module contents

tardis.apps.oaipmh.tests package

Subpackages

tardis.apps.oaipmh.tests.provider package

Submodules

tardis.apps.oaipmh.tests.provider.test_base module

```
class tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase (methodName='runTest')  
    Bases: django.test.testcases.TestCase  
  
    setUp ()  
        Hook method for setting up the test fixture before exercising it.  
  
    tearDown ()  
        Hook method for deconstructing the test fixture after testing it.  
  
    testGetRecord ()  
        Default behaviour should be to not handle the identifier.  
  
    testIdentify ()  
        There can be only one provider that responds. By default, don't.  
  
    testListIdentifiers ()  
        By default a provider cannot handle the given metadata prefix.  
  
    testListMetadataFormats ()  
        By default a provider handles no metadata formats.  
  
    testListRecords ()  
        By default a provider cannot handle the given metadata prefix.  
  
    testListSets ()  
        By default a provider does not implement sets.
```

tardis.apps.oaipmh.tests.provider.test_experiment module

```
class tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentProviderTC  
    Bases: object  
  
    setUp ()  
  
    tearDown ()  
  
    testGetRecordHandlesInvalidIdentifiers ()  
  
    testIdentify ()  
        There can be only one provider that responds. This one does not.
```

```

    testListIdentifiers ()
    testListIdentifiersDoesNotHandleSets ()
    testListMetadataFormats ()
    testListSets ()
class tardis.apps.oaipmh.tests.provider.test_experiment.DcExperimentProviderTestCase (method
    Bases:          tardis.apps.oaipmh.tests.provider.test_experiment.
                    AbstractExperimentProviderTC, django.test.testcases.TestCase
    testGetRecord ()
    testListRecords ()
class tardis.apps.oaipmh.tests.provider.test_experiment.RifCsExperimentProviderTestCase (met
    Bases:          tardis.apps.oaipmh.tests.provider.test_experiment.
                    AbstractExperimentProviderTC, django.test.testcases.TestCase
    tearDown ()
        Hook method for deconstructing the test fixture after testing it.
    testGetRecord ()
    testListRecords ()

```

Module contents

Submodules

tardis.apps.oaipmh.tests.test_oai module

```

class tardis.apps.oaipmh.tests.test_oai.EndpointTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase
    setUp ()
        Hook method for setting up the test fixture before exercising it.
    tearDown ()
        Hook method for deconstructing the test fixture after testing it.
    testGetRecord ()
    testIdentify ()
    testListIdentifiers ()
    testListMetadataFormats ()
    testListRecords ()

```

Module contents

Submodules

tardis.apps.oaipmh.models module

tardis.apps.oiipmh.server module

class tardis.apps.oiipmh.server.**ProxyingMetadataRegistry** (*providers*)

Bases: oiipmh.metadata.MetadataRegistry

A registry that only writes, and does so by proxying to Providers.

hasReader (*metadata_prefix*)

hasWriter (*metadata_prefix*)

readMetadata (*metadata_prefix, element*)

Turn XML into metadata object.

element - element to read in

returns - metadata object

registerReader (*metadata_prefix, reader*)

registerWriter (*metadata_prefix, writer*)

writeMetadata (*metadata_prefix, element, metadata*)

Write metadata as XML.

element - ElementTree element to write under metadata - metadata object to write

class tardis.apps.oiipmh.server.**ProxyingServer** (*providers*)

Bases: oiipmh.interfaces.IOAI

getRecord (*metadataPrefix, identifier*)

Get a record for a metadataPrefix and identifier.

Raises

- **oiipmh.error.CannotDisseminateFormatError** – if no provider returns a result, but at least one provider responds with `oiipmh.error.CannotDisseminateFormatError` (meaning the identifier exists)
- **oiipmh.error.IdDoesNotExistError** – if all providers fail with `oiipmh.error.IdDoesNotExistError`

Returns first successful provider response

Return type response

identify ()

Retrieve information about the repository.

Returns an `oiipmh.common.Identify` object describing the repository.

Return type `oiipmh.common.Identify`

listIdentifiers (*metadataPrefix, **kwargs*)

Lists identifiers from all providers as a single set.

Raises

- **error.CannotDisseminateFormatError** – if `metadataPrefix` is not supported by the repository.
- **error.NoSetHierarchyError** – if a set is provided, as the repository does not support sets.

Returns a `set.Set` of headers.

Return type `set`

listMetadataFormats (***kwargs*)

List metadata formats from all providers in a single set.

Raises

- **error.IdDoesNotExistError** – if record with identifier does not exist.
- **error.NoMetadataFormatsError** – if no formats are available for the indicated record, but it does exist.

Returns a *frozenset* of `metadataPrefix`, `schema`, `metadataNamespace` tuples (each entry in the tuple is a string).

Return type `frozenset`

listRecords (*metadataPrefix, **kwargs*)

Lists records from all providers as a single set.

Raises

- **error.CannotDisseminateFormatError** – if `metadataPrefix` is not supported by the repository.
- **error.NoSetHierarchyError** – if a set is provided, as the repository does not support sets.

Returns a `set`. Set of `header`, `metadata`, `about` tuples.

Return type `set`

listSets ()

List sets.

Raises `oaipmh.error.NoSetHierarchyError` – because set hierarchies are currently not implemented

`tardis.apps.oaipmh.server.get_server` (*current_site*)

tardis.apps.oaipmh.urls module

tardis.apps.oaipmh.views module

`tardis.apps.oaipmh.views.endpoint` (*request*)

Module contents

tardis.apps.openid_migration package

Subpackages

tardis.apps.openid_migration.migrations package

Submodules

tardis.apps.openid_migration.migrations.0001_initial module

```
class tardis.apps.openid_migration.migrations.0001_initial.Migration(name,  
                                                                app_label)  
    Bases: django.db.migrations.migration.Migration  
    dependencies = [('tardis_portal', '0012_userauthentication_approved'), ('auth', '__first__')]  
    initial = True  
    operations = [<CreateModel name='OpenidACLMigration', fields=[('id', <django.db.models
```

Module contents

tardis.apps.openid_migration.tests package

Submodules

tardis.apps.openid_migration.tests.test_forms module

Tests related to OpenID migration forms

```
class tardis.apps.openid_migration.tests.test_forms.OpenIDMigrationFormTestCase(methodName='runTest')  
    Bases: django.test.testcases.TestCase  
    setUp()  
        Hook method for setting up the test fixture before exercising it.  
    test_init()
```

tardis.apps.openid_migration.tests.test_migration module

Tests related to OpenID migration

```
class tardis.apps.openid_migration.tests.test_migration.OpenIDMigrationTestCase(methodName='runTest')  
    Bases: django.test.testcases.TestCase  
    setUp()  
        Hook method for setting up the test fixture before exercising it.  
    test_do_migration()
```

tardis.apps.openid_migration.tests.test_models module

```
class tardis.apps.openid_migration.tests.test_models.ModelTestCase(methodName='runTest')  
    Bases: django.test.testcases.TestCase  
    create_OpenidUserMigration()  
    setUp()  
        Hook method for setting up the test fixture before exercising it.  
    test_OpenidUserMigration_creation()
```

tardis.apps.openid_migration.tests.test_views module

Tests related to OpenID migration views

```

class tardis.apps.openid_migration.tests.test_views.OpenIDMigrationViewTestCase (methodName=
    Bases: django.test.testcases.TestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    test_migrate_accounts (mock_webpack_get_bundle)

```

Module contents

Submodules

tardis.apps.openid_migration.apps module

```

class tardis.apps.openid_migration.apps.OpenidMigrationConfig (app_name,
    app_module)
    Bases: tardis.app_config.AbstractTardisAppConfig
    name = 'tardis.apps.openid_migration'
    verbose_name = 'OpenID migrations'

```

tardis.apps.openid_migration.context_processors module

```

tardis.apps.openid_migration.context_processors.openid_migration_processor (request)
    adds context for openid_migration

```

tardis.apps.openid_migration.default_settings module

tardis.apps.openid_migration.email_text module

```

tardis.apps.openid_migration.email_text.email_migration_success (user,
    new_username,
    auth_method)

tardis.apps.openid_migration.email_text.interpolate_template (template_name,
    **kwargs)

```

tardis.apps.openid_migration.forms module

```

tardis.apps.openid_migration.forms.openid_user_migration_form ()
    Create a user migration form with username and password field.

```

tardis.apps.openid_migration.migration module

```

tardis.apps.openid_migration.migration.acl_migration (userIdToBeReplaced,
    replacementUserId,
    user_migration_record)

```

`tardis.apps.openid_migration.migration.confirm_migration(request)`

`tardis.apps.openid_migration.migration.do_migration(request)`

Migrating account from the account that the logged in user has provided in the Authentication Form. Migration involve relinking the UserAuthentication table entries, transferring ObjectACL entries to the migrated account, changing the Group memberships and making the old account inactive.

Parameters `request` (*Request*) – the HTTP request object

Returns The `HttpResponse` which contains `request.user`'s new list of authentication methods

Return type `HttpResponse`

`tardis.apps.openid_migration.migration.getSupportedAuthMethods()`

Return the list of authentication methods.

`tardis.apps.openid_migration.migration.get_api_key(user)`

`tardis.apps.openid_migration.migration.get_matching_auth_provider(backend)`

`tardis.apps.openid_migration.migration.migrate_api_key(old_user, new_user)`

`tardis.apps.openid_migration.migration.migrate_user_permissions(old_user, new_user)`

`tardis.apps.openid_migration.migration.openid_migration_method(request)`

`tardis.apps.openid_migration.models` module

class `tardis.apps.openid_migration.models.OpenidACLMigration(id, user_migration, acl_id)`

Bases: `django.db.models.base.Model`

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

acl_id

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

acl_id_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = `<django.db.models.manager.Manager object>`

user_migration

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

user_migration_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.apps.openid_migration.models.OpenidACLMigrationAdmin(model, admin_site)
```

Bases: `django.contrib.admin.options.ModelAdmin`

list_display = ['user_migration_obj', 'acl_id']

media

user_migration_obj (*obj*)

```
class tardis.apps.openid_migration.models.OpenidUserMigration(id, old_user,
                                                             old_user_auth_method,
                                                             new_user,
                                                             new_user_auth_method,
                                                             migration_timestamp,
                                                             migration_status)
```

Bases: `django.db.models.base.Model`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

get_next_by_migration_timestamp (*, *field*=<`django.db.models.fields.DateTimeField: migration_timestamp`>, *is_next*=True, ***kwargs*)

get_previous_by_migration_timestamp (*, *field*=<`django.db.models.fields.DateTimeField: migration_timestamp`>, *is_next*=False, ***kwargs*)

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

migration_status

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

migration_timestamp

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

new_user

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

`new_user_auth_method`

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`new_user_id`

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`objects = <django.db.models.manager.Manager object>`

`old_user`

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

`old_user_auth_method`

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`old_user_id`

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`openidaclmigration_set`

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

```
class tardis.apps.openid_migration.models.OpenidUserMigrationAdmin(model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    list_display = ['__str__', 'old_user', 'old_user_auth_method', 'new_user_id', 'new_user_auth_method']
    media
```

[tardis.apps.openid_migration.tasks module](#)

[tardis.apps.openid_migration.urls module](#)

tardis.apps.openid_migration.user_menu_modifiers module

tardis.apps.openid_migration.user_menu_modifiers.**add_migrate_account_menu_item**(*request*,
user_menu)

Add a 'Migrate My Account' item to the user menu

Parameters

- **request** (`django.http.HttpRequest`) – an HTTP Request instance
- **user_menu** (`list`) – user menu context to modify

Returns user_menu list

Return type list

tardis.apps.openid_migration.utils module

tardis.apps.openid_migration.utils.**rollback_migration** (*user_migration_obj*)

tardis.apps.openid_migration.views module

tardis.apps.openid_migration.views.**migrate_accounts** (*request*)
Manage user migration using AJAX.

Module contents**tardis.apps.push_to package****Subpackages****tardis.apps.push_to.migrations package****Submodules****tardis.apps.push_to.migrations.0001_initial module**

```
class tardis.apps.push_to.migrations.0001_initial.Migration (name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('auth', '__first__'), ('auth', '0006_require_contenttypes_0002')]
    operations = [<CreateModel name='Credential', fields=[('id', <django.db.models.fields.
```

tardis.apps.push_to.migrations.0002_auto_20160518_1953 module

```
class tardis.apps.push_to.migrations.0002_auto_20160518_1953.Migration (name,  
app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('push_to', '0001_initial')]
    operations = [<AlterField model_name='credential', name='key_type', field=<django.db.m
```

Module contents

tardis.apps.push_to.tests package

Submodules

tardis.apps.push_to.tests.test_models module

```
class tardis.apps.push_to.tests.test_models.ModelsTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp()
        Hook method for setting up the test fixture before exercising it.

    test_credential_generation()

    test_get_allowed_signing_services()

    test_keys_from_private_key_only()

    test_pkey_to_credential()
```

Module contents

Submodules

tardis.apps.push_to.apps module

```
class tardis.apps.push_to.apps.PushToConfig (app_name, app_module)
    Bases: tardis.app_config.AbstractTardisAppConfig

    name = 'tardis.apps.push_to'

    verbose_name = 'Push To'
```

tardis.apps.push_to.exceptions module

```
exception tardis.apps.push_to.exceptions.NoSuitableCredential
    Bases: Exception

    This exception is thrown when attempting to find a suitable credential for a remote host but none is found
```

tardis.apps.push_to.models module

```
class tardis.apps.push_to.models.Credential (*args, **kwargs)
    Bases: tardis.apps.push_to.models.KeyPair

    A credential that may contain a password and/or key. The auth method chosen depends on the credentials
    available, allowed auth methods, and priorities defined by the SSH client.

exception DoesNotExist
    Bases: django.core.exceptions.ObjectDoesNotExist
```

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

static generate_keypair_credential (*tardis_user*, *remote_user*, *remote_hosts*,
bit_length=2048)

Generates and saves an RSA key pair credential. Credentials returned by this method are intended to be registered on remote systems before being used. @type *tardis_user*: User @type *remote_user*: str @type *bit_length*: int @type *remote_hosts*: list[RemoteHost] :return: the generated credential :rtype: object

get_client_for_host (*remote_host*)

Attempts to establish a connection with the *remote_host* using this credential object. The *remote_host* may be any host, but only those in the *remote_hosts* field are expected to work. @type *remote_host*: RemoteHost :return: a connected SSH client :rtype: SSHClient

static get_suitable_credential (*tardis_user*, *remote_host*, *remote_user=None*)

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

password

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

remote_hosts

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

remote_user

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

user

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

user_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

verify_remote_access (*remote_host=None*)

@type *remote_host*: RemoteHost

class tardis.apps.push_to.models.**CredentialAdmin** (*model, admin_site*)

Bases: django.contrib.admin.options.ModelAdmin

form

alias of *CredentialForm*

media

class tardis.apps.push_to.models.**CredentialForm** (*data=None, files=None, auto_id='id_%s', prefix=None, initial=None, error_class=<class 'django.forms.utils.ErrorList'>, label_suffix=None, empty_permitted=False, instance=None, use_required_attribute=None, renderer=None*)

Bases: django.forms.models.ModelForm

class Meta

Bases: object

fields = '__all__'

model

alias of *Credential*

widgets = {'password': <django.forms.widgets.PasswordInput object>}

base_fields = {'key_type': <django.forms.fields.CharField object>, 'password': <django.forms.fields.CharField object>}

declared_fields = {}

media

class tardis.apps.push_to.models.**DBHostKeyPolicy**

Bases: paramiko.client.MissingHostKeyPolicy

Host key verification policy based on the host key stored in the database.

missing_host_key (*client, hostname, key*)

@type key: PKey

class tardis.apps.push_to.models.**KeyPair** (**args, **kwargs*)

Bases: django.db.models.base.Model

A key pair

class Meta

Bases: object

abstract = False

key

Returns a subclass of PKey of the appropriate key type

Return type PKey

Raises **ValidationError** –

key_type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

private_key

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

public_key

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The ‘force_insert’ and ‘force_update’ parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

class tardis.apps.push_to.models.OAuthSSHCertSigningService (*args, **kwargs)

Bases: django.db.models.base.Model

Connection parameters for an OAuth2 SSH certificate signing service. Supports certificate signing server available here: <https://github.com/monash-merc/ssh-authz>

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

allow_for_all

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

allowed_groups

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

allowed_remote_hosts

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

allowed_users

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

cert_signing_url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

static get_available_signing_services (*user*)

Gets all SSH cert signing services available for a given user :param User user: User :return: allowed signing services :rtype: User

static get_oauth_service (*user, service_id*)

@type user: User @type service_id: int

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

nickname

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

oauth_authorize_url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

oauth_check_token_url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

oauth_client_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

oauth_client_secret

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

oauth_token_url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

class tardis.apps.push_to.models.RemoteHost (*args, **kwargs)

Bases: `tardis.apps.push_to.models.KeyPair`

A remote host that may be connected to via SSH

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

administrator

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

administrator_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

credential_set

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

host_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

logo_img

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

nickname

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

oauthsshcertsigningservice_set

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

objects = `<django.db.models.manager.Manager object>`

port

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

class `tardis.apps.push_to.models.RemoteHostAdmin` (*model, admin_site*)

Bases: `django.contrib.admin.options.ModelAdmin`

Hides the private key field, which is not necessary for host keys

```
fields = ['nickname', 'administrator', 'host_name', 'port', 'key_type', 'public_key',
media
```

tardis.apps.push_to.oauth_tokens module

tardis.apps.push_to.oauth_tokens.**get_token** (*request, oauth_service*)

Returns the OAuth2 token from the current session :param Request request: django session object :param OAuthSSHCertSigningService oauth_service: an

OAuthSSHCertSigningService object

Returns

Return type string

tardis.apps.push_to.oauth_tokens.**get_token_data** (*oauth_service, token*)

Gets the OAuth2 user attributes using the supplied token :param OAuthSSHCertSigningService oauth_service: an

OAuthSSHCertSigningService object

Parameters **token** (*basestring*) – an OAuth2 token

Returns a json object of user attributes

Return type dict

tardis.apps.push_to.oauth_tokens.**set_token** (*request, oauth_service, token*)

Stores the OAuth2 token in the current session :param Request request: django request object :param OAuthSSHCertSigningService oauth_service: an

OAuthSSHCertSigningService object

Parameters **token** (*basestring*) – the OAuth2 token

tardis.apps.push_to.ssh_authz module

tardis.apps.push_to.ssh_authz.**sign_certificate** (*credential, token, url*)

An interface to the OAuth2 SSH certificate signing service @type credential: models.Credential

tardis.apps.push_to.tasks module

tardis.apps.push_to.tasks.**do_file_copy** (*credential_id, remote_host_id, datafile_map,*
base_dir=None)

tardis.apps.push_to.tasks.**make_dirs** (*sftp_client, dir_list*)

tardis.apps.push_to.tasks.**notify_user** (*user_id, remote_host_id, success=True*)

tardis.apps.push_to.urls module**tardis.apps.push_to.utils module**

tardis.apps.push_to.utils.**bytes_available** (*ssh_client, path*)
 tardis.apps.push_to.utils.**can_copy** (*ssh_client, object_type, object_id, path*)
 tardis.apps.push_to.utils.**get_default_push_location** (*sftp_client*)
 tardis.apps.push_to.utils.**get_object_size** (*type, id*)
 tardis.apps.push_to.utils.**is_directory** (*sftp_client, path*)
 tardis.apps.push_to.utils.**list_subdirectories** (*sftp_client, path, show_hidden=False*)
 tardis.apps.push_to.utils.**shell_escape** (*s*)

tardis.apps.push_to.views module

tardis.apps.push_to.views.**authorize_remote_access** (*request, remote_host_id, service_id=None*)
 Generates an SSH certificate using an OAuth2 SSH signing service :param Request request: request object :param basestring remote_host_id: remote host id :param basestring service_id: OAuth2 SSH certificate signing service id :return: an error message or OAuth2 redirects :rtype: HttpResponseRedirect

tardis.apps.push_to.views.**get_accessible_hosts** (*request, obj_type=None, push_obj_id=None*)
 Retrieves all accessible hosts (i.e. hosts for which the user already has credentials for) including push-to trigger URLs if the object type and id are supplied :param Request request: request object :param object obj_type: data type to be copied
 (experiment, dataset or datafile)
Parameters **push_obj_id** (*int*) – the database object id
Returns json object with accessible hosts
Return type HttpResponse

tardis.apps.push_to.views.**get_credential** (*request, remote_host*)
 Fetches a suitable credential for the remote host, or raises an exception if none found :param Request request: request object :param RemoteHost remote_host: the RemoteHost for which a credential should be found
Returns the credential
Return type object
Raises *NoSuitableCredential* – raised when no credential is found

tardis.apps.push_to.views.**get_push_url_for_host** (*remote_host, obj_type, push_obj_id*)
 Constructs a push-to URL to trigger data transfer :param RemoteHost remote_host: the RemoteHost to which data should be copied :param obj_type: data type to be copied (experiment, dataset or datafile) :type obj_type: object :param int push_obj_id: the database object id :return: a push-to URL :rtype: basestring

`tardis.apps.push_to.views.get_signing_services` (*request*, *obj_type=None*,
push_obj_id=None)

Retrieves all certificate signing services and associated hosts including push-to trigger URLs if the object type and id are supplied :param Request request: request object :param class obj_type: data type to be copied (experiment, dataset or datafile) :param int push_obj_id: the database object id :return: json object with signing services and hosts :rtype: HttpResponse

`tardis.apps.push_to.views.oauth_callback` (*request*)

OAuth2 callback endpoint to continue the SSH certificate signing process :param Request request: request object :return: error message or redirect to the signing service with access token :rtype: HttpResponse

`tardis.apps.push_to.views.oauth_callback_url` (*request*)

Builds the oauth callback URL :param Request request: request object :return: callback URL :rtype: basestring

`tardis.apps.push_to.views.render_error_message` (*request*, *message*, *status=500*)

`tardis.apps.push_to.views.render_success_message` (*request*, *message*, *status=200*)

`tardis.apps.push_to.views.validate_remote_path` (*request*, *remote_host_id*)

Module contents

tardis.apps.related_info package

Subpackages

tardis.apps.related_info.tests package

Submodules

tardis.apps.related_info.tests.test_oaipmh module

```
class tardis.apps.related_info.tests.test_oaipmh.RifCSTestCase (methodName='runTest')
    Bases: django.test.testcases.TransactionTestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    testExistsInOaipmh ()
```

tardis.apps.related_info.tests.tests module

```
class tardis.apps.related_info.tests.tests.CreateTestCase (methodName='runTest')
    Bases: django.test.testcases.TransactionTestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    testCanCreate ()

    testDetectsBadInput ()

    testMustHaveWrite (mock_webpack_get_bundle)

class tardis.apps.related_info.tests.tests.DeleteTestCase (methodName='runTest')
    Bases: django.test.testcases.TransactionTestCase
```

```

setUp()
    Hook method for setting up the test fixture before exercising it.

testCanDelete()

testMustHaveWrite (mock_webpack_get_bundle)

class tardis.apps.related_info.tests.tests.GetTestCase (methodName='runTest')
    Bases: django.test.testcases.TransactionTestCase

setUp()
    Hook method for setting up the test fixture before exercising it.

testHandlesFound()

testHandlesNotFound (mock_webpack_get_bundle)

class tardis.apps.related_info.tests.tests.ListTestCase (methodName='runTest')
    Bases: django.test.testcases.TransactionTestCase

setUp()
    Hook method for setting up the test fixture before exercising it.

testHandlesEmptySet()

testHandlesMultipleEntries()

testHandlesSingleEntry()

class tardis.apps.related_info.tests.tests.TabTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

setUp()
    Hook method for setting up the test fixture before exercising it.

testAccessWithReadPerms (mock_webpack_get_bundle)

testAccessWithoutReadPerms (mock_webpack_get_bundle)

class tardis.apps.related_info.tests.tests.UpdateTestCase (methodName='runTest')
    Bases: django.test.testcases.TransactionTestCase

setUp()
    Hook method for setting up the test fixture before exercising it.

testDetectsBadInput()

testMustHaveWrite (mock_webpack_get_bundle)

```

Module contents

Submodules

tardis.apps.related_info.forms module

```
class tardis.apps.related_info.forms.RelatedInfoForm(data=None, files=None,
auto_id='id_%s', pre-
fix=None, initial=None,
error_class=<class
'django.forms.utils.ErrorList'>,
label_suffix=None,
empty_permitted=False,
field_order=None,
use_required_attribute=None,
renderer=None)
```

Bases: `django.forms.forms.Form`

```
base_fields = {'identifier': <django.forms.fields.URLField object>, 'notes': <django
declared_fields = {'identifier': <django.forms.fields.URLField object>, 'notes': <dj
media
```

tardis.apps.related_info.models module

tardis.apps.related_info.settings module

tardis.apps.related_info.urls module

tardis.apps.related_info.views module

Module contents

tardis.apps.s3utils package

Subpackages

tardis.apps.s3utils.tests package

Submodules

tardis.apps.s3utils.tests.test_api module

Testing the s3util app's extensions to the tastypie-based mytardis api

```
class tardis.apps.s3utils.tests.test_api.S3UtilsAppApiTestCase(methodName='runTest')
Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

```
setUp ()
```

Hook method for setting up the test fixture before exercising it.

```
tearDown ()
```

Hook method for deconstructing the test fixture after testing it.

```
test_download_dfo ()
```

Test downloading a DataFileObject using the s3util app's extensions to the MyTardis REST API.

tardis.apps.s3utils.tests.test_app_config module

```
class tardis.apps.s3utils.tests.test_app_config.S3UtilsConfigTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    test_app_config()
```

tardis.apps.s3utils.tests.test_checksums module

Testing the s3util app's ability to calculate checksums for S3 objects

```
class tardis.apps.s3utils.tests.test_checksums.S3UtilsAppChecksumsTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp()
        Hook method for setting up the test fixture before exercising it.

    tearDown()
        Hook method for deconstructing the test fixture after testing it.

    test_checksums()
        Ensure that we can calculate an MD5 sum and a SHA512 sum for a file in S3 object storage
```

Module contents

Submodules

tardis.apps.s3utils.api module

Additions to MyTardis's REST API

```
class tardis.apps.s3utils.api.ReplicaAppResource (api_name=None)
    Bases: tardis.tardis_portal.api.ReplicaResource

    Extends MyTardis's API for DFOs, adding in a download method for S3 objects

class Meta
    Bases: tardis.tardis_portal.api.Meta

    authorization
        Authorisation class for Tastypie.

    queryset

    resource_name = 'replica'

    base_fields = {'created_time': <tastypie.fields.DateTimeField object>, 'datafile': <
    declared_fields = {}

    download_dfo (request, **kwargs)
        Download DataFileObject from S3 Object Store

    prepend_urls ()
        A hook for adding your own URLs or matching before the default URLs.
```

tardis.apps.s3utils.apps module

```
class tardis.apps.s3utils.apps.S3UtilsConfig(app_name, app_module)
    Bases: django.apps.config.AppConfig
    name = 's3utils'
```

tardis.apps.s3utils.default_settings module

Default settings for s3utils app

```
tardis.apps.s3utils.default_settings.S3_SIGNED_URL_EXPIRY = 30
```

A short expiry (30 seconds) is used, because it is only intended to provide access long enough for an authenticated MyTardis user to be redirected to the signed URL.

tardis.apps.s3utils.urls module

Minimal urls.py, so we can do a reverse lookup for the 's3_api_download_dfo' URL pattern.

's3_api_download_dfo' is defined in the `prepend_urls` method of the `ReplicaAppResource` class in `api.py`

The API endpoint defined in this app is mapped to a URL in `tardis/urls/api.py` (along with API endpoints defined by other MyTardis apps).

tardis.apps.s3utils.utils module

Utilities for S3 objects

```
tardis.apps.s3utils.utils.calculate_checksums(dfo, compute_md5=True, compute_sha512=False)
```

Calculates checksums for an S3 `DataFileObject` instance. For files in S3, using the `django-storages` abstraction is inefficient - we end up with a clash of chunking algorithms between the download from S3 and MyTardis's Python-based checksum calculation. So for S3 files, we calculate checksums using external binaries (`md5sum` and `shasum`) instead.

`:param dfo` : The `DataFileObject` instance `:type dfo`: `DataFileObject` `:param compute_md5`: whether to compute md5 `default=True` `:type compute_md5`: `bool` `:param compute_sha512`: whether to compute sha512, `default=True` `:type compute_sha512`: `bool`

Returns the checksums as `{'md5sum': result, 'sha512sum': result}`

Return type `dict`

```
tardis.apps.s3utils.utils.generate_presigned_url(dfo, expiry=None)
```

Generate a presigned URL for an S3 object

`boto3` must be installed if you are using the `storages.backends.s3boto3.S3Boto3Storage` storage class, defined in the `django-storages` package

dfo [`DataFileObject`] The `DataFileObject` to generate the pre-signed URL for

expiry [`int`] The signed URL's expiry in seconds

string The pre-signed URL

Module contents

tardis.apps.search package

Subpackages

tardis.apps.search.tests package

Submodules

tardis.apps.search.tests.test_api module

```

class tardis.apps.search.tests.test_api.SimpleSearchTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    test_advance_search_authenticated_user ()

    test_advance_search_unauthenticated_user ()

    test_simple_search_authenticated_user ()

    test_simple_search_unauthenticated_user ()

```

tardis.apps.search.tests.test_index module

```

class tardis.apps.search.tests.test_index.IndexExperimentTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    test_create_index ()

```

Module contents

Submodules

tardis.apps.search.api module

RESTful API for MyTardis search. Implemented with Tastypie.

```

class tardis.apps.search.api.AdvanceSearchAppResource (api_name=None)
    Bases: tastypie.resources.Resource

    class Meta
        Bases: object

        always_return_data = True

        authentication = <tardis.tardis_portal.api.MyTardisAuthentication object>

        list_allowed_methods = ['post']

```

```

    object_class
        alias of SearchObject

    resource_name = 'advance-search'

    serializer = <tardis.apps.search.api.PrettyJSONSerializer object>
base_fields = {'hits': <tastypie.fields.ApiField object>, 'resource_uri': <tastypie.
declared_fields = {'hits': <tastypie.fields.ApiField object>}
detail_uri_kwargs (bundle_or_obj)
    Given a Bundle or an object (typically a Model instance), it returns the extra kwargs needed to generate
    a detail URI.

    By default, it uses this resource's detail_uri_name in order to create the URI.

get_object_list (request)
    A hook to allow making returning the list of available objects.

    This needs to be implemented at the user level.

    ModelResource includes a full working version specific to Django's Models.

obj_create (bundle, **kwargs)
    Creates a new object based on the provided data.

    This needs to be implemented at the user level.

    ModelResource includes a full working version specific to Django's Models.

obj_get_list (bundle, **kwargs)
    Fetches the list of objects available on the resource.

    This needs to be implemented at the user level.

    ModelResource includes a full working version specific to Django's Models.

class tardis.apps.search.api.PrettyJSONSerializer (formats=None,                con-
                                                    tent_types=None,                date-
                                                    time_formatting=None)

Bases: tastypie.serializers.Serializer

    json_indent = 2

    to_json (data, options=None)
        Given some Python data, produces JSON output.

class tardis.apps.search.api.SearchAppResource (api_name=None)
Bases: tastypie.resources.Resource

Tastypie resource for simple-search

class Meta
    Bases: object

    always_return_data = True

    authentication = <tardis.tardis_portal.api.MyTardisAuthentication object>

    list_allowed_methods = ['get']

    object_class
        alias of SearchObject

    resource_name = 'simple-search'

    serializer = <tardis.apps.search.api.PrettyJSONSerializer object>

```

```
base_fields = {'hits': <tastypie.fields.ApiField object>, 'resource_uri': <tastypie.
```

```
declared_fields = {'hits': <tastypie.fields.ApiField object>}
```

```
detail_uri_kwargs (bundle_or_obj)
```

Given a `Bundle` or an object (typically a `Model` instance), it returns the extra kwargs needed to generate a detail URI.

By default, it uses this resource's `detail_uri_name` in order to create the URI.

```
get_object_list (request)
```

A hook to allow making returning the list of available objects.

This needs to be implemented at the user level.

`ModelResource` includes a full working version specific to Django's `Models`.

```
log_search_event (request, query_text, result_dict)
```

```
obj_get_list (bundle, **kwargs)
```

Fetches the list of objects available on the resource.

This needs to be implemented at the user level.

`ModelResource` includes a full working version specific to Django's `Models`.

```
class tardis.apps.search.api.SearchObject (hits=None, id=None)
```

Bases: `object`

```
tardis.apps.search.api.simple_search_public_data (query_text)
```

tardis.apps.search.apps module

```
class tardis.apps.search.apps.SearchConfig (app_name, app_module)
```

Bases: `tardis.app_config.AbstractTardisAppConfig`

```
name = 'tardis.apps.search'
```

```
verbose_name = 'Search'
```

tardis.apps.search.documents module

```
class tardis.apps.search.documents.DataFileDocument (related_instance_to_ignore=None,
                                                    **kwargs)
```

Bases: `django_elasticsearch_dsl.documents.DocType`

```
class Django
```

Bases: `object`

```
model
```

alias of `tardis.tardis_portal.models.datafile.DataFile`

```
queryset_pagination = 5000
```

```
related_models = [<class 'tardis.tardis_portal.models.dataset.Dataset'>, <class 'ta
```

```
class Index
```

Bases: `object`

```
name = 'datafile'
```

```
settings = {'number_of_replicas': 0, 'number_of_shards': 1}
```

```
django = {'model': <class 'tardis.tardis_portal.models.datafile.DataF...>}
get_instances_from_related(related_instance)
get_queryset()
    Return the queryset that should be indexed by this doc type.
parallel_bulk(actions, **kwargs)
prepare_experiments(instance)

class tardis.apps.search.documents.DatasetDocument(related_instance_to_ignore=None,
                                                    **kwargs)
    Bases: django_elasticsearch_dsl.documents.DocType

    class Django
        Bases: object

        model
            alias of tardis.tardis_portal.models.dataset.Dataset

        related_models = [<class 'tardis.tardis_portal.models.experiment.Experiment'>, <class 'tardis.tardis_portal.models.datafile.DataFile'>]

    class Index
        Bases: object

        name = 'dataset'

        settings = {'number_of_replicas': 0, 'number_of_shards': 1}

    django = {'model': <class 'tardis.tardis_portal.models.dataset.Datase...>}
    get_instances_from_related(related_instance)
    parallel_bulk(actions, **kwargs)

class tardis.apps.search.documents.ExperimentDocument(related_instance_to_ignore=None,
                                                       **kwargs)
    Bases: django_elasticsearch_dsl.documents.DocType

    class Django
        Bases: object

        model
            alias of tardis.tardis_portal.models.experiment.Experiment

        related_models = [<class 'django.contrib.auth.models.User'>, <class 'tardis.tardis_portal.models.experiment.Experiment'>]

    class Index
        Bases: object

        name = 'experiments'

        settings = {'number_of_replicas': 0, 'number_of_shards': 1}

    django = {'model': <class 'tardis.tardis_portal.models.experiment.Exp...>}
    get_instances_from_related(related_instance)
    parallel_bulk(actions, **kwargs)
```

tardis.apps.search.urls module

tardis.apps.search.views module

views relevant to search

```

class tardis.apps.search.views.SearchView(**kwargs)
    Bases: django.views.generic.base.TemplateView

    template_name = 'search.html'

```

Module contents

tardis.apps.sftp package

Subpackages

tardis.apps.sftp.management package

Subpackages

tardis.apps.sftp.management.commands package

Submodules

tardis.apps.sftp.management.commands.sftpd module

```

class tardis.apps.sftp.management.commands.sftpd.Command(
    stdout=None,
    stderr=None,
    no_color=False,
    force_color=False)

    Bases: django.core.management.base.BaseCommand

    add_arguments(parser)
        Entry point for subclassed commands to add custom arguments.

    handle(*args, **options)
        The actual logic of the command. Subclasses must implement this method.

```

Module contents

Module contents

tardis.apps.sftp.migrations package

Submodules

tardis.apps.sftp.migrations.0001_initial module

```

class tardis.apps.sftp.migrations.0001_initial.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration

    dependencies = [('tardis_portal', '0011_auto_20160505_1643'), ('auth', '__first__')]

```

```
initial = True
operations = [<CreateModel name='SFTTPublicKey', fields=[('id', <django.db.models.fields
```

Module contents

tardis.apps.sftp.tests package

Submodules

tardis.apps.sftp.tests.test_sftp module

```
class tardis.apps.sftp.tests.test_sftp.SFTPDManagementTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    testSFTPDWithoutHostKey ()
        Attempting to start the SFTPD service without a host key should raise an SSHException

class tardis.apps.sftp.tests.test_sftp.SFTPTTest (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    test_cyberduck_connection_window ()

    test_sftp ()

    test_sftp_dynamic_docs_dataset (mock_webpack_get_bundle)

    test_sftp_dynamic_docs_experiment (mock_webpack_get_bundle)

    test_sftp_key_connect ()
```

Module contents

Submodules

tardis.apps.sftp.admin module

tardis.apps.sftp.api module

```
class tardis.apps.sftp.api.SFTPAclAuthorization
    Bases: tastypie.authorization.Authorization

    create_detail (object_list, bundle)
        Returns either True if the user is allowed to create the object in question or throw Unauthorized if
        they are not.

        Returns True by default.

    delete_detail (object_list, bundle)
        Returns either True if the user is allowed to delete the object in question or throw Unauthorized if
        they are not.

        Returns True by default.
```

read_detail (*object_list*, *bundle*)

Returns either `True` if the user is allowed to read the object in question or throw `Unauthorized` if they are not.

Returns `True` by default.

read_list (*object_list*, *bundle*)

Returns a list of all the objects a user is allowed to read.

Should return an empty list if none are allowed.

Returns the entire list by default.

class `tardis.apps.sftp.api.SFTPPublicKeyAppResource` (*api_name=None*)

Bases: `tastypie.resources.ModelResource`

Tastypie model resource for SFTPPublicKey model

class Meta

Bases: `object`

authentication = `<tardis.tardis_portal.api.MyTardisAuthentication object>`

authorization

detail_allowed_methods = `['get', 'delete']`

filtering = `{'id': ('exact',), 'name': ('exact',)}`

list_allowed_methods = `['get', 'post']`

object_class

alias of `tardis.apps.sftp.models.SFTPPublicKey`

queryset

resource_name = `'publickey'`

validation = `<tastypie.validation.FormValidation object>`

base_fields = `{'added': <tastypie.fields.DateField object>, 'id': <tastypie.fields.I`

`declared_fields = {}`

dehydrate (*bundle*)

A hook to allow a final manipulation of data once all fields/methods have built out the dehydrated data.

Useful if you need to access more than one dehydrated field or want to annotate on additional data.

Must return the modified bundle.

hydrate (*bundle*)

A hook to allow an initial manipulation of data before all methods/fields have built out the hydrated data.

Useful if you need to access more than one hydrated field or want to annotate on additional data.

Must return the modified bundle.

tardis.apps.sftp.apps module

class `tardis.apps.sftp.apps.SFTPConfig` (*app_name*, *app_module*)

Bases: `tardis.app_config.AbstractTardisAppConfig`

name = `'tardis.apps.sftp'`

verbose_name = `'SFTP'`

tardis.apps.sftp.default_settings module

`tardis.apps.sftp.default_settings.REQUIRE_SSL_TO_GENERATE_KEY = True`

Require a secure connection (i.e., HTTPS) to allow key generation.

`tardis.apps.sftp.default_settings.SFTP_USERNAME_ATTRIBUTE = 'email'`

The attribute from the User model ('email' or 'username') used to generate the SFTP login example on the `sftp_access` help page.

tardis.apps.sftp.forms module

```
class tardis.apps.sftp.forms.KeyAddForm(data=None, files=None, auto_id='id_%s', prefix=None, initial=None, error_class=<class 'django.forms.utils.ErrorList'>, label_suffix=None, empty_permitted=False, field_order=None, use_required_attribute=None, renderer=None)
```

Bases: `django.forms.forms.Form`

```
base_fields = {'key_type': <django.forms.fields.CharField object>, 'name': <django.f
```

```
clean()
```

Hook for doing any extra form-wide cleaning after `Field.clean()` has been called on every field. Any `ValidationError` raised by this method will not be associated with a particular field; it will have a special-case association with the field named `'_all_'`.

```
declared_fields = {'key_type': <django.forms.fields.CharField object>, 'name': <djan
```

```
media
```

```
class tardis.apps.sftp.forms.KeyGenerateForm(data=None, files=None, auto_id='id_%s', prefix=None, initial=None, error_class=<class 'django.forms.utils.ErrorList'>, label_suffix=None, empty_permitted=False, field_order=None, use_required_attribute=None, renderer=None)
```

Bases: `django.forms.forms.Form`

```
base_fields = {'name': <django.forms.fields.CharField object>}
```

```
declared_fields = {'name': <django.forms.fields.CharField object>}
```

```
media
```

tardis.apps.sftp.models module

```
class tardis.apps.sftp.models.SFTPPublicKey(*args, **kwargs)
```

Bases: `django.db.models.base.Model`

Model for associated SFTP public keys with users

Parameters

- **user** (*ForeignKey for User*) – user who owns this public key
- **name** (*string*) – name for this public key

- **public_key** (*string*) – OpenSSH formatted public key
- **added** (*date*) – date the public key was added (Optional)

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

added

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
get_next_by_added(*, field=<django.db.models.fields.DateField: added>, is_next=True,
                 **kwargs)
```

```
get_previous_by_added(*, field=<django.db.models.fields.DateField: added>, is_next=False,
                     **kwargs)
```

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

key_type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = `<django.db.models.manager.Manager object>`

public_key

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

user

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

user_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

tardis.apps.sftp.sftp module

SFTP Server

```
class tardis.apps.sftp.sftp.DynamicTree(host_obj=None)
```

Bases: `object`

```
add_child(name, obj=None)
```

```
add_path (path)
add_path_elems (elems)
clear_children ()
get_leaf (path, update=False)
update_all_files ()
update_dataset_files ()
update_datasets ()
update_experiments ()
update_nothing ()
```

```
class tardis.apps.sftp.sftp.MyTSFTPHandle (df, flags=0, optional_args=None)
    Bases: paramiko.sftp_handle.SFTPHandle
```

SFTP File Handle

```
stat ()
    Return an L{SFTPAttributes} object referring to this open file, or an error code. This is equivalent to
    L{SFTPServerInterface.stat}, except it's called on an open file instead of a path.

    @return: an attributes object for the given file, or an SFTP error code (like
    L{SFTP_PERMISSION_DENIED}). @rtype: L{SFTPAttributes} I{or error code}
```

```
class tardis.apps.sftp.sftp.MyTSFTPRequestHandler (request, client_address, server)
    Bases: socketserver.BaseRequestHandler
```

```
auth_timeout = 60
handle ()
handle_timeout ()
setup ()
timeout = 60
```

```
class tardis.apps.sftp.sftp.MyTSFTPServer (*args, **kwargs)
    Bases: paramiko.sftp_server.SFTPServer
```

override SFTPServer to provide channel information to the SFTP subsystem

```
class tardis.apps.sftp.sftp.MyTSFTPServerInterface (server, *args, **kwargs)
    Bases: paramiko.sftp_si.SFTPServerInterface
```

MyTardis data via SFTP

```
canonicalize (path)
    Return the canonical form of a path on the server.
```

experiments

```
list_folder (path)
    Returns a list of files within a given folder. The C{path} will use posix notation (C{"/"} separates folder
    names) and may be an absolute or relative path.
```

The list of files is expected to be a list of L{SFTPAttributes} objects, which are similar in structure to the objects returned by C{os.stat}. In addition, each object should have its C{filename} field filled in, since this is important to a directory listing and not normally present in C{os.stat} results.

In case of an error, you should return one of the C{SFTP_*} error codes, such as L{SFTP_PERMISSION_DENIED}.

@param path: the requested path (relative or absolute) to be listed. @type path: str @return: a list of the files in the given folder, using L{SFTPAttributes} objects. @rtype: list of L{SFTPAttributes} I{or error code}

lstat (*path*)

symbolic links are not supported

open (*path, flags, attr*)

Open a file on the server and create a handle for future operations on that file. On success, a new object subclassed from L{SFTPHandle} should be returned. This handle will be used for future operations on the file (read, write, etc). On failure, an error code such as L{SFTP_PERMISSION_DENIED} should be returned.

C{flags} contains the requested mode for opening (read-only, write-append, etc) as a bitset of flags from the C{os} module:

- C{os.O_RDONLY}
- C{os.O_WRONLY}
- C{os.O_RDWR}
- C{os.O_APPEND}
- C{os.O_CREAT}
- C{os.O_TRUNC}
- C{os.O_EXCL}

(One of C{os.O_RDONLY}, C{os.O_WRONLY}, or C{os.O_RDWR} will always be set.)

The C{attr} object contains requested attributes of the file if it has to be created. Some or all attribute fields may be missing if the client didn't specify them.

@note: The SFTP protocol defines all files to be in "binary" mode. There is no equivalent to python's "text" mode.

Parameters

- **path** (*basestring*) – the requested datafile path
- **flags** (*int*) – flags or'd together from the C{os} module indicating the requested mode for opening the file.
- **attr** (*SFTPAttributes*) – requested attributes of the file if it is newly created.

Returns a new L{SFTPHandle} I{or error code}.

Return type SFTPHandle

session_ended ()

run cleanup on exceptions or disconnection. idea: collect stats and store them in this function

session_started ()

run on connection initialisation

stat (*path*)

Return an L{SFTPAttributes} object for a path on the server, or an error code. If your server supports symbolic links (also known as "aliases"), you should follow them. (L{lstat} is the corresponding call that doesn't follow symlinks/aliases.)

@param path: the requested path (relative or absolute) to fetch file statistics for. @type path: str

@return: an attributes object for the given file, or an SFTP error code (like L{SFTP_PERMISSION_DENIED}). @rtype: L{SFTPAttributes} I{or error code}

class tardis.apps.sftp.sftp.**MyTSFTPTCPServer** (*address*, *host_key*, *RequestHandler-
Class=None*)

Bases: `socketserver.TCPServer`

allow_reuse_address = True

close_request (*request*)

Called to clean up an individual request.

shutdown_request (*request*)

Called to shutdown and close an individual request.

class tardis.apps.sftp.sftp.**MyTServerInterface**

Bases: `paramiko.server.ServerInterface`

check_auth_interactive (*username*, *submethods*)

Begin an interactive authentication challenge, if supported. You should override this method in server mode if you want to support the "keyboard-interactive" auth type, which requires you to send a series of questions for the client to answer.

Return AUTH_FAILED if this auth method isn't supported. Otherwise, you should return an *InteractiveQuery* object containing the prompts and instructions for the user. The response will be sent via a call to *check_auth_interactive_response*.

The default implementation always returns AUTH_FAILED.

Parameters

- **username** (*str*) – the username of the authenticating client
- **submethods** (*str*) – a comma-separated list of methods preferred by the client (usually empty)

Returns AUTH_FAILED if this auth method isn't supported; otherwise an object containing queries for the user

Return type int or *InteractiveQuery*

check_auth_interactive_response (*responses*)

Continue or finish an interactive authentication challenge, if supported. You should override this method in server mode if you want to support the "keyboard-interactive" auth type.

Return AUTH_FAILED if the responses are not accepted, AUTH_SUCCESSFUL if the responses are accepted and complete the authentication, or AUTH_PARTIALLY_SUCCESSFUL if your authentication is stateful, and this set of responses is accepted for authentication, but more authentication is required. (In this latter case, *get_allowed_auths* will be called to report to the client what options it has for continuing the authentication.)

If you wish to continue interactive authentication with more questions, you may return an *InteractiveQuery* object, which should cause the client to respond with more answers, calling this method again. This cycle can continue indefinitely.

The default implementation always returns AUTH_FAILED.

Parameters **responses** – list of *str* responses from the client

Returns AUTH_FAILED if the authentication fails; AUTH_SUCCESSFUL if it succeeds; AUTH_PARTIALLY_SUCCESSFUL if the interactive auth is successful, but authentication must continue; otherwise an object containing queries for the user

Return type int or *InteractiveQuery*

check_auth_password (*username, password*)

Determine if a given username and password supplied by the client is acceptable for use in authentication.

Return `AUTH_FAILED` if the password is not accepted, `AUTH_SUCCESSFUL` if the password is accepted and completes the authentication, or `AUTH_PARTIALLY_SUCCESSFUL` if your authentication is stateful, and this key is accepted for authentication, but more authentication is required. (In this latter case, `get_allowed_auths` will be called to report to the client what options it has for continuing the authentication.)

The default implementation always returns `AUTH_FAILED`.

Parameters

- **username** (*str*) – the username of the authenticating client.
- **password** (*str*) – the password given by the client.

Returns `AUTH_FAILED` if the authentication fails; `AUTH_SUCCESSFUL` if it succeeds; `AUTH_PARTIALLY_SUCCESSFUL` if the password auth is successful, but authentication must continue.

Return type `int`

check_auth_publickey (*username, key*)

Determine if a given key supplied by the client is acceptable for use in authentication. You should override this method in server mode to check the username and key and decide if you would accept a signature made using this key.

Return `AUTH_FAILED` if the key is not accepted, `AUTH_SUCCESSFUL` if the key is accepted and completes the authentication, or `AUTH_PARTIALLY_SUCCESSFUL` if your authentication is stateful, and this password is accepted for authentication, but more authentication is required. (In this latter case, `get_allowed_auths` will be called to report to the client what options it has for continuing the authentication.)

Note that you don't have to actually verify any key signature here. If you're willing to accept the key, Paramiko will do the work of verifying the client's signature.

The default implementation always returns `AUTH_FAILED`.

Parameters

- **username** (*str*) – the username of the authenticating client
- **key** (*PKKey*) – the key object provided by the client

Returns `AUTH_FAILED` if the client can't authenticate with this key; `AUTH_SUCCESSFUL` if it can; `AUTH_PARTIALLY_SUCCESSFUL` if it can authenticate with this key but must continue with authentication

Return type `int`

check_channel_request (*kind, chanid*)

Determine if a channel request of a given type will be granted, and return `OPEN_SUCCEEDED` or an error code. This method is called in server mode when the client requests a channel, after authentication is complete.

If you allow channel requests (and an ssh server that didn't would be useless), you should also override some of the channel request methods below, which are used to determine which services will be allowed on a given channel:

- `check_channel_pty_request`
- `check_channel_shell_request`

- `check_channel_subsystem_request`
- `check_channel_window_change_request`
- `check_channel_x11_request`
- `check_channel_forward_agent_request`

The `chanid` parameter is a small number that uniquely identifies the channel within a `.Transport`. A `.Channel` object is not created unless this method returns `OPEN_SUCCEEDED` – once a `.Channel` object is created, you can call `.Channel.get_id` to retrieve the channel ID.

The return value should either be `OPEN_SUCCEEDED` (or 0) to allow the channel request, or one of the following error codes to reject it:

- `OPEN_FAILED_ADMINISTRATIVELY_PROHIBITED`
- `OPEN_FAILED_CONNECT_FAILED`
- `OPEN_FAILED_UNKNOWN_CHANNEL_TYPE`
- `OPEN_FAILED_RESOURCE_SHORTAGE`

The default implementation always returns `OPEN_FAILED_ADMINISTRATIVELY_PROHIBITED`.

Parameters

- **kind** (*str*) – the kind of channel the client would like to open (usually "session").
- **chanid** (*int*) – ID of the channel

Returns an *int* success or failure code (listed above)

`get_allowed_auths` (*username*)

Return a list of authentication methods supported by the server. This list is sent to clients attempting to authenticate, to inform them of authentication methods that might be successful.

The “list” is actually a string of comma-separated names of types of authentication. Possible values are "password", "publickey", and "none".

The default implementation always returns "password".

Parameters **username** (*str*) – the username requesting authentication.

Returns a comma-separated *str* of authentication types

`myt_auth` (*username, password*)

`tardis.apps.sftp.sftp.start_server` (*host=None, port=None, keyfile=None*)

The `SFTP_HOST_KEY` setting is required for configuring SFTP access. The `SFTP_PORT` setting defaults to 2200.

See: `tardis/default_settings/sftp.py`

tardis.apps.sftp.urls module

tardis.apps.sftp.user_menu_modifiers module

`tardis.apps.sftp.user_menu_modifiers.add_ssh_keys_menu_item` (*request, user_menu*)

Add a ‘Manage SSH Keys’ item to the user menu

Parameters

- **request** (`django.http.HttpRequest`) – an HTTP Request instance

- **user_menu** (*list*) – user menu context to modify

Returns user_menu list

Return type list

tardis.apps.sftp.views module

tardis.apps.sftp.views.**cybderduck_connection_window** (*request*)

tardis.apps.sftp.views.**sftp_access** (*request*)

Show dynamically generated instructions on how to connect to SFTP :param Request request: HttpRequest
:return: HttpResponse :rtype: HttpResponse

tardis.apps.sftp.views.**sftp_keys** (*request*)

Generate an RSA key pair for a user.

Generates a key pair, stores the public part of the key and provides a one time opportunity for the user to download the private part of the key.

Parameters **request** (*HttpRequest*) – http request

Returns either returns form on GET request or private key download on POST request

Return type HttpResponse

Module contents

tardis.apps.social_auth package

Subpackages

tardis.apps.social_auth.auth package

Submodules

tardis.apps.social_auth.auth.authorisation module

tardis.apps.social_auth.auth.social_auth module

tardis.apps.social_auth.auth.social_auth.**add_authentication_method** (***kwargs*)

Creates an authentication record for OpenID authenticated user

tardis.apps.social_auth.auth.social_auth.**add_migration_permission** (***kwargs*)

Adds permission to migrate account for OpenID authenticated user

tardis.apps.social_auth.auth.social_auth.**add_user_permissions** (***kwargs*)

Adds default permission to OpenID authenticated user

tardis.apps.social_auth.auth.social_auth.**approve_user_auth** (***kwargs*)

Sets approved status to True in user authentication This will add user permissions as well.

tardis.apps.social_auth.auth.social_auth.**configure_social_auth_user** (***kwargs*)

Applies configuration used for external (non-Django) accounts.

Adds user to settings.NEW_USER_INITIAL_GROUPS and sets isDjangoAccount to False in their UserProfile, so that MyTardis won't allow them to change their password.

```
tardis.apps.social_auth.auth.social_auth.get_auth_method(authenticatedBackendName)
```

Return matching user authentication method from list of authentication methods in settings

```
tardis.apps.social_auth.auth.social_auth.is_openid_migration_enabled()
```

```
tardis.apps.social_auth.auth.social_auth.migrate_user_message(**kwards)
```

Automatically detects if a user has an account with the same email address and prompts user to perform migration.

```
tardis.apps.social_auth.auth.social_auth.requires_admin_approval(authenticationBackend)
```

```
tardis.apps.social_auth.auth.social_auth.send_admin_email(**kwards)
```

Sends MyTardis admins an email for approving account

Module contents

Submodules

tardis.apps.social_auth.apps module

```
class tardis.apps.social_auth.apps.SocialAuthConfig(app_name, app_module)
```

Bases: *tardis.app_config.AbstractTardisAppConfig*

```
name = 'tardis.apps.social_auth'
```

```
verbose_name = 'Social Auth'
```

tardis.apps.social_auth.default_settings module

tardis.apps.social_auth.urls module

Module contents

Module contents

tardis.default_settings package

Submodules

tardis.default_settings.admins module

```
tardis.default_settings.admins.ADMINS = []
```

A list of all the people who get code error notifications. When DEBUG=False and AdminEmailHandler is configured in LOGGING (done by default), Django emails these people the details of exceptions raised in the request/response cycle.

Each item in the list should be a tuple of (Full name, email address). Example:

```
[('John', 'john@example.com'), ('Mary', 'mary@example.com')]
```

tardis.default_settings.analytics module

tardis.default_settings.apps module

```
tardis.default_settings.apps.USER_MENU_MODIFIERS = ['tardis.apps.sftp.user_menu_modifiers.')
```

A list of methods which can modify the user menu defined in `tardis.tardis_portal.context_processors.user_menu_processor`. The modifications will be applied in order, so it is possible for one app to overwrite changes made by another app whose modifier method is earlier in the list.

Each modifier method should take a `django.http.HttpRequest` object and a list of user menu items, and return a modified list of user menu items.

An example from the SFTP app is below:

```
USER_MENU_MODIFIERS.extend([
    'tardis.apps.sftp.user_menu_modifiers.add_ssh_keys_menu_item'
])
```

tardis.default_settings.apps_default_settings module

tardis.default_settings.auth module

```
tardis.default_settings.auth.AUTOGENERATE_API_KEY = False
```

Generate a tastypie API key with user post_save (`tardis/tardis_portal/models/hooks.py`)

```
tardis.default_settings.auth.REGISTRATION_OPEN = True
```

Enable/disable the self-registration link and form in the UI. Note - this does not actually disable the URL endpoints for registration. You must also remove the `registration` app from `INSTALLED_APPS` to disable registration.

tardis.default_settings.caches module

```
tardis.default_settings.caches.CACHES = {'celery-locks': {'BACKEND': 'django.core.cache.backends.memcached.MemcachedCache'}}
change the CACHES setting to memcached if you prefer. Requires additional dependencies.
```

tardis.default_settings.celery_settings module

tardis.default_settings.custom_views module

```
tardis.default_settings.custom_views.DATASET_VIEWS = []
```

Dataset view overrides ('contextual views') are specified as tuples mapping a Schema namespace to a class-based view (or view function). See: https://mytardis.readthedocs.io/en/develop/apps/contextual_views.html#dataset-and-experiment-views

e.g.:

```
DATASET_VIEWS = [
    ('http://example.org/schemas/dataset/my_awesome_schema',
     'tardis.apps.my_awesome_app.views.CustomDatasetViewSubclass'),
]
```

`tardis.default_settings.custom_views.EXPERIMENT_VIEWS = []`
Experiment view overrides ('contextual views') are specified as tuples mapping a Schema namespace to a class-based view (or view function). See: https://mytardis.readthedocs.io/en/develop/apps/contextual_views.html#dataset-and-experiment-views

e.g.:

```
EXPERIMENT_VIEWS = [
    ('http://example.org/schemas/expt/my_awesome_schema',
     'tardis.apps.my_awesome_app.views.CustomExptViewSubclass'),
]
```

`tardis.default_settings.custom_views.INDEX_VIEWS = {}`
A custom index page override is defined in as dictionary mapping a class-based view (or view function) to a Django Site, specified by `SITE_ID` (an integer) or the domain name of the incoming request. See: https://mytardis.readthedocs.io/en/develop/apps/contextual_views.html#custom-index-view

e.g.:

```
INDEX_VIEWS = {
    1: 'tardis.apps.my_custom_app.views.MyCustomIndexSubclass',
    'store.example.com': 'tardis.apps.myapp.AnotherCustomIndexSubclass'
}
```

`tardis.default_settings.custom_views.LOGIN_VIEWS = {}`
A custom login page override is defined in as dictionary mapping a class-based view (or view function) to a Django Site, specified by `SITE_ID` (an integer) or the domain name of the incoming request. See: https://mytardis.readthedocs.io/en/develop/apps/contextual_views.html#custom-login-view

e.g.:

```
LOGIN_VIEWS = {
    1: 'tardis.apps.my_custom_app.views.MyCustomLoginSubclass',
    'store.example.com': 'tardis.apps.myapp.AnotherCustomLoginSubclass'
}
```

tardis.default_settings.database module

tardis.default_settings.debug module

`tardis.default_settings.debug.ALLOWED_HOSTS = ['*']`
For security reasons this needs to be set to your hostname and/or IP address in production.

`tardis.default_settings.debug.DEBUG = True`
Set to false for production use

`tardis.default_settings.debug.INTERNAL_IPS = ('127.0.0.1',)`

A list of IP addresses, as strings, that: Allow the `debug()` context processor to add some variables to the template context.

tardis.default_settings.downloads module

`tardis.default_settings.downloads.DEFAULT_ARCHIVE_FORMATS = ['tar']`
Site's preferred archive types, with the most preferred first other available option: 'tgz'. Add to list if desired

```
tardis.default_settings.downloads.DOWNLOAD_URI_TEMPLATES = {}
```

When a file download is requested, by default, MyTardis will create a StreamingHttpResponse to serve the download which requires reading the file from a file-like object. For some storage backends, e.g. S3Boto3Storage provided by the django-storages package, it is more efficient to redirect the request directly to the storage provider.

Or the download request could be handled by an API which is aware of HSM (Hierarchical Storage Management) status for files which could be either on disk or on tape.

The `DOWNLOAD_URI_TEMPLATES` dictionary can be used to specify a URI template (e.g. `/api/v1/s3utils_replica/{dfo_id}/download/` which can be used to download a DataFileObject, instead of using the default `/api/v1/dataset_file/[datafile_id]/download/` endpoint.

For example,

```
DOWNLOAD_URI_TEMPLATES = { 'storages.backends.s3boto3.S3Boto3Storage':
    '/api/v1/s3utils_replica/{dfo_id}/download/'
}
```

The `/api/v1/s3utils_replica/{dfo_id}/download/` endpoint is provided by the `'s3utils'` tardis app which needs to be in your `INSTALLED_APPS`

tardis.default_settings.email module

```
tardis.default_settings.email.DEFAULT_FROM_EMAIL = 'webmaster@localhost'
```

This can be set as : “MyTardis Admins <admins@mytardis.org>”

```
tardis.default_settings.email.EMAIL_HOST = 'localhost'
```

Set this to your local SMTP server, e.g. `'smtp.example.edu'` or to a remote SMTP server, e.g. `'smtp.gmail.com'`

```
tardis.default_settings.email.EMAIL_HOST_PASSWORD = ''
```

When using a local SMTP server, you probably don't need to authenticate, so you can leave this blank.

If using a remote SMTP server, this can be set to the password used to authenticate.

```
tardis.default_settings.email.EMAIL_HOST_USER = ''
```

When using a local SMTP server, you probably don't need to authenticate, so you can leave this blank.

If using a remote SMTP server, this can be set to the email address used to authenticate, e.g. `'bob@bobmail.com'`

```
tardis.default_settings.email.EMAIL_PORT = 25
```

Some SMTP servers require a different port, e.g. 587. Django's default value for this setting is 25.

```
tardis.default_settings.email.EMAIL_USE_TLS = False
```

Some SMTP servers require this to be set to True. Django's default value for this setting is False.

tardis.default_settings.filters module

```
tardis.default_settings.filters.FILTERS_TASK_PRIORITY = 4
```

The default RabbitMQ task priority for messages sent to the filters microservice. Priority 4 is slightly less than the overall default task priority of 5, defined in `tardis/default_settings/celery_settings.py`

```
tardis.default_settings.filters.USE_FILTERS = False
```

If enabled, a task will be sent to RabbitMQ after a file is saved and verified, requesting post-processing, e.g. extracting metadata from file headers and/or generating thumbnail images.

tardis.default_settings.frontend module

```
tardis.default_settings.frontend.BLEACH_ALLOWED_ATTRIBUTES = {'a': ['href', 'title'], 'ab
```

These are the default bleach values and shown here as an example.

```
tardis.default_settings.frontend.BLEACH_ALLOWED_TAGS = ['a', 'abbr', 'acronym', 'b', 'bloc
```

These are the default bleach values and shown here as an example.

```
tardis.default_settings.frontend.MAX_IMAGES_IN_CAROUSEL = 100
```

Max number of images in dataset view's carousel: zero means no limit

```
tardis.default_settings.frontend.RENDER_IMAGE_DATASET_SIZE_LIMIT = 0
```

Render image dataset size limit: zero means no limit

In order to display a dataset thumbnail image, MyTardis queries the dataset's files for image MIME types. These queries can be very slow for large datasets, making page load times slow. In future versions, the dataset thumbnails will be generated asynchronously (not at response time), but for now, we can set `RENDER_IMAGE_DATASET_SIZE_LIMIT` to the maximum number of files a dataset can have for MyTardis to scan it for image files at response time.

```
tardis.default_settings.frontend.RENDER_IMAGE_SIZE_LIMIT = 0
```

Render image file size limit: zero means no limit

tardis.default_settings.i18n module

tardis.default_settings.localisation module

tardis.default_settings.logging module

tardis.default_settings.middlewares module

tardis.default_settings.publication module

tardis.default_settings.search module

Settings for search

```
tardis.default_settings.search.ELASTICSEARCH_PARALLEL_INDEX_SETTINGS = {'chunk_size': 500,
```

Setting for running elastic search index in parallel mode to get indexing speed boost while indexing <https://django-elasticsearch-dsl.readthedocs.io/en/latest/settings.html#elasticsearch-dsl-parallel>

```
tardis.default_settings.search.MAX_SEARCH_RESULTS = 100
```

Limits the maximum number of search results for each model (Experiment, Dataset and DataFile). The default value of 100 means that a query could potentially return 300 results in total, i.e. 100 experiments, 100 datasets and 100 datafiles.

```
tardis.default_settings.search.MIN_CUTOFF_SCORE = 0.0
```

Filters results based on this value. The default value of 0.0 means that nothing will be excluded from search results. Set it to any number greater than 0.0 to filter out results.

```
tardis.default_settings.search.SINGLE_SEARCH_ENABLED = False
```

To enable search:

```
SINGLE_SEARCH_ENABLED = True INSTALLED_APPS += ('django_elasticsearch_dsl',  
'tardis.app.search') ELASTICSEARCH_DSL = {
```

```

    'default': { 'hosts': os.environ.get('ELASTICSEARCH_URL', 'http://localhost:9200')
    }
} ELASTICSEARCH_DSL_INDEX_SETTINGS = {
    'number_of_shards': 1, 'number_of_replicas': 0
}

```

tardis.default_settings.sharing module

tardis.default_settings.site_customisations module

tardis.default_settings.site_customisations.**SITE_TITLE** = 'MyTardis'
 customise the title of your site

tardis.default_settings.site_customisations.**SPONSORED_TEXT** = None
 add text to the footer to acknowledge someone

tardis.default_settings.static_files module

tardis.default_settings.storage module

tardis.default_settings.storage.**CALCULATE_CHECKSUMS_METHODS** = {}
 A custom method can be provided for calculating checksums for a storage class, e.g.

```

CALCULATE_CHECKSUMS_METHODS = {
    'storages.backends.s3boto3.S3Boto3Storage': 'tardis.apps.s3utils.utils.calculate_checksums'
}

```

The DataFileObject class's calculate_checksums method checks for a storage class match in the CALCULATE_CHECKSUMS_METHODS dict, and if one is not found, it calls the classic compute_checksums method which uses the file_object to calculate the checksums one chunk at a time. For some storage backends (e.g. S3), representing the file as file-like object with Django's file storage API is not the most efficient way to calculate the checksum.

tardis.default_settings.storage.**METADATA_STORE_PATH** = '/home/docs/checkouts/readthedocs.org'
 storage path for image paths stored in parameters. Better to set to another location if possible

tardis.default_settings.storage.**REUSE_DATASET_STORAGE_BOX** = True

If a new DataFile is created in a Dataset whose files are all stored in the same storage box, then the new file will be stored in the same storage box, irrespective of the "default" StorageBoxAttribute.

The mytardis-app-mydata app has its own logic for determining the appropriate storage box for uploads from a MyData instance. When a MyData instance (an "Uploader") is approved, it will be assigned a storage box which should be used for DataFileObjects created from MyData uploads.

tardis.default_settings.templates module

tardis.default_settings.uploads module

tardis.default_settings.uploads.**UPLOAD_METHOD** = False

Old version: UPLOAD_METHOD = "uploadify". This can be changed to an app that provides an upload_button

function, eg. “tardis.apps.filepicker.views.upload_button” to use a fancy commercial uploader. To use filepicker, please also get an API key at <http://filepicker.io>

tardis.default_settings.urls module

Module contents

```
tardis.default_settings.get_git_version()
```

tardis.tardis_portal package

Subpackages

tardis.tardis_portal.auth package

Submodules

tardis.tardis_portal.auth.authentication module

A module containing helper methods for the manage_auth_methods function in views.py.

```
tardis.tardis_portal.auth.authentication.add_auth_method(request)
```

Add a new authentication method to request.user’s existing list of authentication methods. This method will ask for a confirmation if the user wants to merge two accounts if the authentication method he provided already exists as a method for another user.

Parameters `request` (*Request*) – the HTTP request object

Returns The HttpResponse which contains request.user’s new list of authentication methods

Return type HttpResponse

```
tardis.tardis_portal.auth.authentication.edit_auth_method(request)
```

Change the local DB (Django) password for request.user.

```
tardis.tardis_portal.auth.authentication.list_auth_methods(request)
```

Generate a list of authentication methods that request.user uses to authenticate to the system and send it back in a HttpResponse.

Parameters `request` (*Request*) – the HTTP request object

Returns The HttpResponse which contains request.user’s list of authentication methods

Return type HttpResponse

```
tardis.tardis_portal.auth.authentication.merge_auth_method(request)
```

Merge the account that the user is logged in as and the account that he provided in the Authentication Form. Merging accounts involve relinking the UserAuthentication table entries, transferring ObjectACL entries to the merged account, changing the Group memberships and deleting the unneeded account.

Parameters `request` (*Request*) – the HTTP request object

Returns The HttpResponse which contains request.user’s new list of authentication methods

Return type HttpResponse

`tardis.tardis_portal.auth.authentication.remove_auth_method(request)`

Removes the non-local DB auth method from the UserAuthentication model.

Parameters `request` (*Request*) – the HTTP request object

Returns The HttpResponse which contains request.user’s new list of authentication methods

Return type HttpResponse

tardis.tardis_portal.auth.authorisation module

Object-level authorisation backend

class `tardis.tardis_portal.auth.authorisation.ACLAwareBackend`

Bases: `object`

app_label = 'tardis_acls'

authenticate (*request*)
do not use this backend for authentication

get_perm_bool (*verb*)
relates ACLs to permissions

has_perm (*user_obj, perm, obj=None*)
main method, calls other methods based on permission type queried

supports_anonymous_user = True

supports_object_permissions = True

tardis.tardis_portal.auth.authservice module

models.py

class `tardis.tardis_portal.auth.authservice.AuthService` (*settings=<LazySettings "tardis.test_settings">*)

Bases: `object`

The AuthService provides an interface for querying the auth(n/z) framework within MyTardis. The auth service works by reading the class path to plugins from the settings file.

Parameters `settings` (`django.conf.settings`) – the settings object that contains the list of user and group plugins.

authenticate (*authMethod, **credentials*)
Try and authenticate the user using the auth type he/she specified to use and if authentication didn’t work using that

Parameters

- **authMethod** (*string*) – the shortname of the auth method.
- **credentials** (*kwargs*) – the credentials as expected by the auth plugin

Returns authenticated User or None

Return type User or None

getGroups (*user*)

Parameters `user` (*User*) – User

Returns a list of tuples containing pluginname and group id

Return type list

getGroupsForEntity (*entity*)

Return a list of the groups an entity belongs to

Parameters *entity* (*string*) – the entity to search for, user or group.

Returns groups

Return type Group

The groups will be returned as a list similar to:

```
[{'name': 'Group 456', 'id': '2'},
 {'name': 'Group 123', 'id': '1'}]
```

getUser (*authMethod*, *user_id*, *force_user_create=False*)

Return a user model based on the given auth method and user id.

This function is responsible for creating the user within the Django DB and returning the resulting user model.

getUsernameByEmail (*authMethod*, *email*)

Return a username given the auth method and email address of a user.

get_or_create_user (*user_obj_or_dict*, *authMethod=None*)

refactored out for external use by AAF and possibly others

searchEntities (*filter*)

Return a list of users and/or groups

searchGroups (***kw*)

basestring id: the value of the id to search for basestring name: the value of the displayname to search for int max_results: the maximum number of elements to return basestring sort_by: the attribute the users should be sorted on basestring plugin: restrict the search to the specific group provider

returns: a list of users and/or groups rtype: list

searchUsers (*filter*)

Return a list of users and/or groups

tardis.tardis_portal.auth.decorators module

tardis.tardis_portal.auth.decorators.**datafile_access_required** (*f*)

tardis.tardis_portal.auth.decorators.**dataset_access_required** (*f*)

tardis.tardis_portal.auth.decorators.**dataset_download_required** (*f*)

tardis.tardis_portal.auth.decorators.**dataset_write_permissions_required** (*f*)

tardis.tardis_portal.auth.decorators.**delete_permissions_required** (*f*)

tardis.tardis_portal.auth.decorators.**experiment_access_required** (*f*)

tardis.tardis_portal.auth.decorators.**experiment_download_required** (*f*)

tardis.tardis_portal.auth.decorators.**experiment_ownership_required** (*f*)

A decorator for Django views that validates if a user is an owner of an experiment or 'superuser' prior to further processing the request. Unauthenticated requests are redirected to the login page. If the user making the request satisfies none of these criteria, an error response is returned.

Parameters *f* (*types.FunctionType*) – A Django view function

Returns A Django view function

Return type *types.FunctionType*

`tardis.tardis_portal.auth.decorators.get_accessible_datafiles_for_user` (*request*)

`tardis.tardis_portal.auth.decorators.get_accessible_experiments` (*request*)

`tardis.tardis_portal.auth.decorators.get_accessible_experiments_for_dataset` (*request*,
dataset_id)

`tardis.tardis_portal.auth.decorators.get_owned_experiments` (*request*)

`tardis.tardis_portal.auth.decorators.get_shared_experiments` (*request*)

`tardis.tardis_portal.auth.decorators.group_ownership_required` (*f*)

A decorator for Django views that validates if a user is a group admin or 'superuser' prior to further processing the request. Unauthenticated requests are redirected to the login page. If the user making the request satisfies none of these criteria, an error response is returned.

Parameters *f* (*types.FunctionType*) – A Django view function

Returns A Django view function

Return type *types.FunctionType*

`tardis.tardis_portal.auth.decorators.has_datafile_access` (*request*, *datafile_id*)

`tardis.tardis_portal.auth.decorators.has_datafile_download_access` (*request*,
datafile_id)

`tardis.tardis_portal.auth.decorators.has_dataset_access` (*request*, *dataset_id*)

`tardis.tardis_portal.auth.decorators.has_dataset_download_access` (*request*,
dataset_id)

`tardis.tardis_portal.auth.decorators.has_dataset_ownership` (*request*, *dataset_id*)

`tardis.tardis_portal.auth.decorators.has_dataset_write` (*request*, *dataset_id*)

`tardis.tardis_portal.auth.decorators.has_delete_permissions` (*request*, *experiment_id*)

`tardis.tardis_portal.auth.decorators.has_experiment_access` (*request*, *experiment_id*)

`tardis.tardis_portal.auth.decorators.has_experiment_download_access` (*request*,
experiment_id)

`tardis.tardis_portal.auth.decorators.has_experiment_ownership` (*request*, *experiment_id*)

`tardis.tardis_portal.auth.decorators.has_experiment_write` (*request*, *experiment_id*)

`tardis.tardis_portal.auth.decorators.has_read_or_owner_ACL` (*request*, *experiment_id*)

Check whether the user has read access to the experiment - this means either they have been granted read access, or that they are the owner.

NOTE: This does not check whether the experiment is public or not, which means even when the experiment is public, this method does not automatically returns true.

As such, this method should NOT be used to check whether the user has general read permission.

```
tardis.tardis_portal.auth.decorators.has_write_permissions (request, experiment_id)
tardis.tardis_portal.auth.decorators.is_group_admin (request, group_id)
tardis.tardis_portal.auth.decorators.upload_auth (f)
tardis.tardis_portal.auth.decorators.write_permissions_required (f)
```

tardis.tardis_portal.auth.fix_circular module

```
tardis.tardis_portal.auth.fix_circular.getGroups (user)
```

tardis.tardis_portal.auth.interfaces module

```
class tardis.tardis_portal.auth.interfaces.AuthProvider
```

Bases: `object`

```
authenticate (request)
```

from a request authenticate try to authenticate the user. return a user dict if successful.

```
getUsernameByEmail (email)
```

returns the username (format string) from the auth domain

Implementing this function is optional- it is needed for resolving experiment owner email addresses to usernames during ingestion.

```
get_user (user_id)
```

```
class tardis.tardis_portal.auth.interfaces.GroupProvider
```

Bases: `object`

```
getGroupById (id)
```

return the group associated with the id

```
getGroups (user)
```

return an iteration of the available groups.

```
getGroupsForEntity (id)
```

return a list of groups associated with a particular entity id

```
searchGroups (**filter)
```

return a list of groups that match the filter

```
class tardis.tardis_portal.auth.interfaces.UserProvider
```

Bases: `object`

```
getUserById (id)
```

return the user dictionary in the format of:

```
{ "id": 123,
  "first_name": "John",
  "last_name": "Smith",
  "email": "john@example.com" }
```

```
getUsernameByEmail (email)
```

returns the username (format string) from the auth domain needed for resolving experiment owners during ingestion

searchUsers (***filter*)

return a list of user descriptions from the auth domain.

each user is in the format of:

```
{ "id": 123,
  "first_name": "John",
  "last_name": "Smith",
  "email": "john@example.com" }
```

tardis.tardis_portal.auth.ldap_auth module**tardis.tardis_portal.auth.localdb_auth** module

Local DB Authentication module.

class tardis.tardis_portal.auth.localdb_auth.DjangoAuthBackend

Bases: *tardis.tardis_portal.auth.interfaces.AuthProvider*

Authenticate against Django's Model Backend.

authenticate (*request*)

authenticate a user, this expect the user will be using form based auth and the *username* and *password* will be passed in as **POST** variables.

Parameters *request* (*django.http.HttpRequest*) – a HTTP Request instance

Returns authenticated User

Return type User

get_user (*user_id*)**class** tardis.tardis_portal.auth.localdb_auth.DjangoGroupProvider

Bases: *tardis.tardis_portal.auth.interfaces.GroupProvider*

getGroupById (*id*)

return the group associated with the id:

```
{ "id": 123,
  "display": "Group Name", }
```

getGroups (*user*)

return an iteration of the available groups.

name = 'django_group'

searchGroups (***filter*)

return a list of groups that match the filter

class tardis.tardis_portal.auth.localdb_auth.DjangoUserProvider

Bases: *tardis.tardis_portal.auth.interfaces.UserProvider*

getUserById (*id*)

return the user dictionary in the format of:

```
{ "id": 123,
  "first_name": "John",
  "last_name": "Smith",
  "email": "john@example.com" }
```

```
name = 'django_user'
```

tardis.tardis_portal.auth.token_auth module

token authentication module

```
class tardis.tardis_portal.auth.token_auth.TokenAuthMiddleware(get_response)  
    Bases: object
```

adds tokens to the user object and the session from a GET query

```
process_request (request)
```

```
class tardis.tardis_portal.auth.token_auth.TokenGroupProvider
```

```
    Bases: tardis.tardis_portal.auth.interfaces.GroupProvider
```

Transforms tokens into auth groups

```
getGroups (user)
```

return an iteration of the available groups.

```
name = 'token_group'
```

```
searchGroups (**kwargs)
```

return nothing because these are not groups in the standard sense

tardis.tardis_portal.auth.utils module

Created on 15/03/2011

@author: gerson

```
tardis.tardis_portal.auth.utils.configure_user (user)
```

Configure a user account that has just been created by adding the user to the default groups and marking it as a not a Django account.

Parameters *user* (*User*) – the User instance for the newly created account

Returns User profile for user

Return type *UserProfile*

```
tardis.tardis_portal.auth.utils.create_user (auth_method, user_id, email="")
```

```
tardis.tardis_portal.auth.utils.get_or_create_user (auth_method, user_id, email="")
```

Module contents

tardis.tardis_portal.management package

Subpackages

tardis.tardis_portal.management.commands package

Submodules

tardis.tardis_portal.management.commands.createuser module

Management utility to create regular users.

```
class tardis.tardis_portal.management.commands.createuser.Command (stdout=None,
                                                                stderr=None,
                                                                no_color=False,
                                                                force_color=False)

    Bases: django.core.management.base.BaseCommand

    add_arguments (parser)
        Entry point for subclassed commands to add custom arguments.

    handle (*args, **options)
        The actual logic of the command. Subclasses must implement this method.

    help = 'Used to create a MyTardis user.'
```

tardis.tardis_portal.management.commands.createuser.**is_valid_email** (*value*)

tardis.tardis_portal.management.commands.dumpschemas module

Command for dumping soft schema definitions

```
class tardis.tardis_portal.management.commands.dumpschemas.Command (stdout=None,
                                                                stderr=None,
                                                                no_color=False,
                                                                force_color=False)

    Bases: django.core.management.base.BaseCommand

    add_arguments (parser)
        Entry point for subclassed commands to add custom arguments.

    args = '[namespace...]'

    handle (*args, **options)
        The actual logic of the command. Subclasses must implement this method.

    help = 'Dump soft schema definitions. No namespace = dump all schemas'
```

tardis.tardis_portal.management.commands.loadschemas module

Command for loading soft schema definitions

```
class tardis.tardis_portal.management.commands.loadschemas.Command (stdout=None,
                                                                stderr=None,
                                                                no_color=False,
                                                                force_color=False)

    Bases: django.core.management.base.BaseCommand

    add_arguments (parser)
        Entry point for subclassed commands to add custom arguments.

    args = 'schema [schema ...]'

    handle (*args, **options)
        The actual logic of the command. Subclasses must implement this method.

    help = 'Load soft schema definitions'
```

tardis.tardis_portal.management.commands.rmexperiment module

Management command to delete the specified experiment and its associated datasets, datafiles and parameters.

The operation is atomic, either the entire experiment is deleted, or nothing.

rmexperiment was introduced due to the Oracle DISTINCT workaround causing sql delete cascading to fail. The current implementation of rmexperiment still relies on some cascading.

```
class tardis.tardis_portal.management.commands.rmexperiment.Command(stdout=None,  
stderr=None,  
no_color=False,  
force_color=False)
```

```
Bases: django.core.management.base.BaseCommand
```

```
add_arguments (parser)
```

```
    Entry point for subclassed commands to add custom arguments.
```

```
args = '<MyTardis Exp ID>'
```

```
handle (*args, **options)
```

```
    The actual logic of the command. Subclasses must implement this method.
```

```
help = 'Delete the supplied MyTardis Experiment ID'
```

Module contents

Module contents

tardis.tardis_portal.migrations package

Submodules

tardis.tardis_portal.migrations.0001_initial module

```
class tardis.tardis_portal.migrations.0001_initial.Migration (name, app_label)
```

```
Bases: django.db.migrations.migration.Migration
```

```
dependencies = [('contenttypes', '0002_remove_content_type_name'), ('auth', '__first__')
```

```
operations = [<CreateModel name='DataFile', fields=[('id', <django.db.models.fields.AutoField
```

tardis.tardis_portal.migrations.0001_squashed_0011_auto_20160505_1643 module

```
class tardis.tardis_portal.migrations.0001_squashed_0011_auto_20160505_1643.Migration (name,  
app_label)
```

```
Bases: django.db.migrations.migration.Migration
```

```
dependencies = [('contenttypes', '0002_remove_content_type_name'), ('auth', '__first__')
```

```
operations = [<CreateModel name='DataFile', fields=[('id', <django.db.models.fields.AutoField
```

```
replaces = [('tardis_portal', '0001_initial'), ('tardis_portal', '0002_auto_20150528_1
```

```
tardis.tardis_portal.migrations.0001_squashed_0011_auto_20160505_1643.cast_string_to_integ
```

tardis.tardis_portal.migrations.0002_auto_20150528_1128 module

```
class tardis.tardis_portal.migrations.0002_auto_20150528_1128.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0001_initial')]
    operations = [<AlterField model_name='userprofile', name='user', field=<django.db.models.
```

tardis.tardis_portal.migrations.0003_auto_20150907_1315 module

```
class tardis.tardis_portal.migrations.0003_auto_20150907_1315.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0002_auto_20150528_1128')]
    operations = [<AlterField model_name='parametername', name='data_type', field=<django.
```

tardis.tardis_portal.migrations.0004_storageboxoption_value_type module

```
class tardis.tardis_portal.migrations.0004_storageboxoption_value_type.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0003_auto_20150907_1315')]
    operations = [<AddField model_name='storageboxoption', name='value_type', field=<django.
```

tardis.tardis_portal.migrations.0005_datafile_add_size_int_column module

```
class tardis.tardis_portal.migrations.0005_datafile_add_size_int_column.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0004_storageboxoption_value_type')]
    operations = [<AddField model_name='datafile', name='_size', field=<django.db.models.f
```

```
tardis.tardis_portal.migrations.0005_datafile_add_size_int_column.cast_string_to_integer(ap
sc
```

tardis.tardis_portal.migrations.0006_datafile_remove_size_string_column module

```
class tardis.tardis_portal.migrations.0006_datafile_remove_size_string_column.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0005_datafile_add_size_int_column')]
    operations = [<RemoveField model_name='datafile', name='size'>, <RenameField model_name
```

tardis.tardis_portal.migrations.0007_remove_parameter_string_value_index module

```
class tardis.tardis_portal.migrations.0007_remove_parameter_string_value_index.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0006_datafile_remove_size_string_column')]
    operations = [<AlterField model_name='datafileparameter', name='string_value', field=<
```

tardis.tardis_portal.migrations.0008_string_value_partial_index_postgres module

```
class tardis.tardis_portal.migrations.0008_string_value_partial_index_postgres.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0007_remove_parameter_string_value_index')]
    operations = []
```

tardis.tardis_portal.migrations.0009_auto_20160128_1119 module

```
class tardis.tardis_portal.migrations.0009_auto_20160128_1119.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0008_string_value_partial_index_postgres')]
    operations = [<AlterUniqueTogether name='instrument', unique_together={('name', 'facil
```

tardis.tardis_portal.migrations.0010_auto_20160503_1443 module

```
class tardis.tardis_portal.migrations.0010_auto_20160503_1443.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0009_auto_20160128_1119')]
    operations = [<AlterField model_name='datafile', name='mimetype', field=<django.db.mod
```

tardis.tardis_portal.migrations.0011_auto_20160505_1643 module

```
class tardis.tardis_portal.migrations.0011_auto_20160505_1643.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0010_auto_20160503_1443')]
    operations = [<AlterField model_name='datafile', name='directory', field=<django.db.mo
```

tardis.tardis_portal.migrations.0012_userauthentication_approved module

```
class tardis.tardis_portal.migrations.0012_userauthentication_approved.Migration(name, app_label)
    Bases: django.db.migrations.migration.Migration
```

```
dependencies = [('tardis_portal', '0011_auto_20160505_1643')]
operations = [<AddField model_name='userauthentication', name='approved', field=<django.db.migrations.models.fields.Field>]
```

tardis.tardis_portal.migrations.0013_auto_20181002_1136 module

```
class tardis.tardis_portal.migrations.0013_auto_20181002_1136.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0012_userauthentication_approved')]
    operations = [<AlterModelOptions name='facility', options={'ordering': ('name',)}, 've
```

tardis.tardis_portal.migrations.0014_auto_20181002_1154 module

```
class tardis.tardis_portal.migrations.0014_auto_20181002_1154.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0013_auto_20181002_1136')]
    operations = [<AlterField model_name='storagebox', name='max_size', field=<django.db.migrations.models.fields.Field>]
```

tardis.tardis_portal.migrations.0015_dataset_created_time module

```
class tardis.tardis_portal.migrations.0015_dataset_created_time.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0014_auto_20181002_1154')]
    operations = [<AddField model_name='dataset', name='created_time', field=<django.db.migrations.models.fields.Field>]
```

tardis.tardis_portal.migrations.0016_add_timestamps module

```
class tardis.tardis_portal.migrations.0016_add_timestamps.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0015_dataset_created_time')]
    operations = [<AddField model_name='facility', name='created_time', field=<django.db.migrations.models.fields.Field>]
```

tardis.tardis_portal.migrations.0017_add_cc_licenses module

```
class tardis.tardis_portal.migrations.0017_add_cc_licenses.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [('tardis_portal', '0016_add_timestamps'), ('auth', '0008_alter_user_us
    operations = [<RunPython <function forwards_func>, <function reverse_func>>]
```

```
tardis.tardis_portal.migrations.0017_add_cc_licenses.forwards_func(apps,
                                                                    schema_editor)
```

```
tardis.tardis_portal.migrations.0017_add_cc_licenses.load_licenses (apps,  
                                                                    schema_editor)
```

```
tardis.tardis_portal.migrations.0017_add_cc_licenses.remove_licenses (apps,  
                                                                        schema_editor)
```

```
tardis.tardis_portal.migrations.0017_add_cc_licenses.reverse_func (apps,  
                                                                    schema_editor)
```

tardis.tardis_portal.migrations.0018_make_default_storage_box_status_online module

```
class tardis.tardis_portal.migrations.0018_make_default_storage_box_status_online.Migration
```

```
    Bases: django.db.migrations.migration.Migration
```

```
    dependencies = [('tardis_portal', '0017_add_cc_licenses')]
```

```
    operations = [<AlterField model_name='storagebox', name='status', field=<django.db.mod
```

Module contents

tardis.tardis_portal.models package

Submodules

tardis.tardis_portal.models.access_control module

```
class tardis.tardis_portal.models.access_control.GroupAdmin (*args, **kwargs)
```

```
    Bases: django.db.models.base.Model
```

GroupAdmin links the Django User and Group tables for group administrators

Attribute user a foreign key to the `django.contrib.auth.models.User`

Attribute group a foreign key to the `django.contrib.auth.models.Group`

```
exception DoesNotExist
```

```
    Bases: django.core.exceptions.ObjectDoesNotExist
```

```
exception MultipleObjectsReturned
```

```
    Bases: django.core.exceptions.MultipleObjectsReturned
```

group

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):  
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

group_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

user

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

user_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

class tardis.tardis_portal.models.access_control.**ObjectACL**(*args, **kwargs)
Bases: django.db.models.base.Model

The ObjectACL (formerly ExperimentACL) table is the core of the [Tardis Authorisation framework](#)

Attribute pluginId the the name of the auth plugin being used

Attribute entityId a foreign key to auth plugins

Attribute object_type a foreign key to ContentType

Attribute object_id the primary key/id of the object_type

Attribute canRead gives the user read access

Attribute canWrite gives the user write access

Attribute canDelete gives the user delete permission

Attribute isOwner the experiment owner flag.

Attribute effectiveDate the date when access takes into effect

Attribute expiryDate the date when access ceases

Attribute aclOwnershipType system-owned or user-owned.

System-owned ACLs will prevent users from removing or editing ACL entries to a particular experiment they own. User-owned ACLs will allow experiment owners to remove/add/edit ACL entries to the experiments they own.

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

OWNER_OWNED = 1

SYSTEM_OWNED = 2

aclOwnershipType

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

canDelete

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

canRead

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

canWrite

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

content_object

Provide a generic many-to-one relation through the `content_type` and `object_id` fields.

This class also doubles as an accessor to the related object (similar to `ForwardManyToOneDescriptor`) by adding itself as a model attribute.

content_type

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

content_type_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

effectiveDate

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

entityId

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

expiryDate

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

get_aclOwnershipType_display (*, *field*=<django.db.models.fields.IntegerField: aclOwnershipType>)

classmethod get_effective_query ()

get_related_object ()

If possible, resolve the pluginId/entityId combination to a user or group object.

get_related_object_group ()

If possible, resolve the pluginId/entityId combination to a user or group object.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

isOwner

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

object_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

openidaclmigration_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

pluginId

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.access_control.UserAuthentication(id, user-
                                                                    Profile,
                                                                    user-
                                                                    name,
                                                                    authen-
                                                                    tication-
                                                                    Method,
                                                                    ap-
                                                                    proved)
```

Bases: django.db.models.base.Model

CHOICES = ()

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

approved

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

authenticationMethod

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

getAuthMethodDescription()

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The 'force_insert' and 'force_update' parameters can be used to insist that the "save" must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

userProfile

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

userProfile_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

username

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

class tardis.tardis_portal.models.access_control.**UserProfile** (*args, **kwargs)

Bases: django.db.models.base.Model

UserProfile class is an extension to the Django standard user model.

Attribute isDjangoAccount is the user a local DB user

Attribute user a foreign key to the django.contrib.auth.models.User

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

ext_groups

getUserAuthentications ()

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

isDjangoAccount

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

isValidPublicContact ()

Checks if there's enough information on the user for it to be used as a public contact.

Note: Last name can't be required, because people don't necessarily have a last (or family) name.

objects = <django.db.models.manager.Manager object>

rapidConnectEduPersonTargetedID

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

user

Accessor to the related object on the forward side of a one-to-one relation.

In the example:

```
class Restaurant(Model):
    place = OneToOneField(Place, related_name='restaurant')
```

`Restaurant.place` is a `ForwardOneToOneDescriptor` instance.

user_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

userauthentication_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

```
tardis.tardis_portal.models.access_control.create_user_api_key(sender,
                                                             **kwargs)
```

Auto-create ApiKey objects using Tastypie's `create_api_key`

```
tardis.tardis_portal.models.access_control.create_user_profile(sender, instance, created,
                                                             **kwargs)
```

tardis.tardis_portal.models.datafile module

```
class tardis.tardis_portal.models.datafile.DataFile(*args, **kwargs)
```

Bases: `django.db.models.base.Model`

A `DataFile` is a record of a file which includes its filename, its size in bytes, its relative directory, and various other meta-data. Each `DataFile` belongs to a `Dataset` which usually represents the files from one folder on an instrument PC.

The physical copy (or copies) of a file are described by distinct `DataFileObject` records.

Attribute dataset The foreign key to the `tardis.tardis_portal.models.Dataset` the file belongs to.

Attribute filename The name of the file, excluding the path.

Attribute size The size of the file.

Attribute created_time Should be populated with the file's creation time from the instrument PC.

Attribute modification_time Should be populated with the file's last modification time from the instrument PC.

Attribute mimetype For example 'application/pdf'

Attribute md5sum Digest of length 32, containing only hexadecimal digits

Attribute sha512sum Digest of length 128, containing only hexadecimal digits

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

cache_file()

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datafileparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

dataset

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

dataset_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

deleted

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

deleted_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

directory

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

file_object

file_objects

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

filename

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

getParameterSets()

Return datafile parametersets associated with this datafile.

get_absolute_filepath()

get_as_temporary_file (*directory=None*)

Returns a traditional file-system-based file object that is a copy of the original data. The file is deleted when the context is destroyed.

Parameters `directory` (*basestring*) – the directory in which to create the temp file

Returns the temporary file object

Return type `NamedTemporaryFile`

get_default_storage_box()

try to guess appropriate box from dataset or use global default

get_download_url()

get_file (*verified_only=True*)

Returns the file as a readable file-like object from the best available storage box.

If `verified_only=False`, the return of files without a verified checksum is allowed, otherwise `None` is returned for unverified files.

Parameters `verified_only` (*bool*) – if `False` return files without verified checksums

Returns Python file object

Return type Python File object

get_image_data()

get_mimetype()

get_preferred_dfo (*verified_only=True*)

get_receiving_storage_box()

get_size()

get_view_url()

has_image()

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

is_image()

returns `True` if it's an image and not an x-icon and not an img the image/img mimetype is made up though and may need revisiting if there is an official img mimetype that does not refer to diffraction images

is_local()

is_online

return False if a file is on tape. At this stage it checks it returns true for no file objects, because those files are offline through other checks

is_public()

md5sum

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

mimetype

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

modification_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The 'force_insert' and 'force_update' parameters can be used to insist that the "save" must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

sha512sum

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

size

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

status

returns information about the status of the file. States are defined in StorageBox

classmethod sum_sizes (datafiles)

Takes a query set of datafiles and returns their total size.

update_mimetype (mimetype=None, force=False, save=True)

verified

Return True if at least one DataFileObject is verified

verify (reverify=False)

version

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

class tardis.tardis_portal.models.datafile.DataFileObject (*args, **kwargs)

Bases: django.db.models.base.Model

The physical copy (or copies) of a *DataFile* are described by distinct *DataFileObject* records.

Attribute datafile The *DataFile* record which this *DataFileObject* is storing a copy of.

Attribute storage_box The *StorageBox* containing this copy of the file. The *StorageBox* could represent a directory on a mounted filesystem, or a bucket in an Object Store.

Attribute uri The relative path of the file location within the the *StorageBox*, e.g. dataset1-12345/file1.txt for a copy of a *DataFile* with filename file1.txt which belongs to a *Dataset* with a description of dataset1 and an ID of 12345.

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

apply_filters()**cache_file()****calculate_checksums** (*compute_md5=True, compute_sha512=False*)

Calculates checksums for a `DataFileObject` instance

Parameters

- **compute_md5** (*bool*) – whether to compute md5 default=True
- **compute_sha512** (*bool*) – whether to compute sha512, default=True

Returns the checksums as `{‘md5sum’: result, ‘sha512sum’: result}`

Return type `dict`

copy_file (*dest_box=None, verify=True*)

copies verified file to new storage box checks for existing copy triggers async verification if not disabled
:param `StorageBox dest_box`: `StorageBox` instance :param `bool verify`: :returns: `DataFileObject` of copy
:rtype: `DataFileObject`

create_set_uri (*force=False, save=False*)

sets the uri as well as building it :param `bool force`: :param `bool save`: :return: :rtype: `basestring`

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datafile

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

datafile_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

delete_data()**file_object**

A set of accessor functions that convert the file information to a standard Python file object for reading and copy the contents of an existing `file_object` into the storage backend.

Returns a file object

Return type Python File object

get_full_path()

get_next_by_created_time (**, field=<django.db.models.fields.DateTimeField: created_time>, is_next=True, **kwargs*)

get_previous_by_created_time (*, field=<django.db.models.fields.DateTimeField: created_time>, is_next=False, **kwargs)

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

last_verified_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

modified_time

move_file (dest_box=None)

moves a file copies first, then synchronously verifies deletes file if copy is true copy and has been verified

Parameters **dest_box** (StorageBox) – StorageBox instance

Returns moved file dfo

Return type *DataFileObject*

objects = <django.db.models.manager.Manager object>

priority

Default priority for tasks which take this DFO as an argument

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The ‘force_insert’ and ‘force_update’ parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

storage_box

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

storage_box_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

storage_type

Returns storage_box type

Return type StorageBox type constant

uri

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

verified

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

verify (add_checksums=True, add_size=True)

```
tardis.tardis_portal.models.datafile.compute_checksums (file_object,           com-
                                                         pute_md5=True,           com-
                                                         pute_sha512=False,
                                                         close_file=True)
```

Computes checksums for a python file object

Parameters

- **file_object** (*object*) – Python File object
- **compute_md5** (*bool*) – whether to compute md5 default=True
- **compute_sha512** (*bool*) – whether to compute sha512, default=True
- **close_file** (*bool*) – whether to close the file_object, default=True

Returns the checksums as {'md5sum': result, 'sha512sum': result}

Return type dict

```
tardis.tardis_portal.models.datafile.delete_dfo (sender, instance, **kwargs)
```

Deletes the actual file / object, before deleting the database record

tardis.tardis_portal.models.dataset module

```
class tardis.tardis_portal.models.dataset.Dataset (*args, **kwargs)
```

Bases: django.db.models.base.Model

A dataset represents a collection files usually associated with a folder on an instrument PC. Each file within the dataset is represented by a `tardis.tardis_portal.models.DataFile` record. A dataset can appear in one or more *Experiment* records. Access controls are configured at the *Experiment* level by creating *ObjectACL* records. Each dataset can be associated with an *Instrument* record, but it is possible to create a dataset without specifying an instrument.

Attribute experiment A foreign key to the one ore more *Experiment* records which contain this dataset

Attribute instrument The foreign key to the instrument that generated this data

Attribute description Description of this dataset, which usually corresponds to the folder name on the instrument PC

Attribute immutable Whether this dataset is read-only

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datafile_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model) :
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

datasetparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

description

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

directory

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

experiments

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

getParameterSets()

Return the dataset parametersets associated with this experiment.

get_absolute_url()

Return the absolute url to the current Dataset

get_all_storage_boxes_used()

get_datafiles()

get_dir_nodes(*dir_tuples*)

Return child node's subdirectories in format required for tree view

Given a list of ('subdir', 'path/to/subdir') tuples for a dataset directory node, return a list of {'name': 'subdir', 'children': []} dictionaries required for the tree view.

Like the `get_dir_tuples` method, the `get_dir_nodes` method only lists files and directories immediately within the supplied basedir, so any subdirectories will have an empty children array.

Continuing the example from the `_dirs` property method:

```
test files/subdir1/ test files/subdir2/ test files/subdir3/ test files/subdir3/subdir4/
```

```
List directories in the dataset's top level directory: >>> dir_tuples = ds.get_dir_tuples("") >>>
ds.get_dir_nodes(dir_tuples) [
```

```

    { 'name': 'test files', 'path': '', 'children': []
    }
]

```

List directories within the dataset's "test files" directory: >>> dir_tuples = ds.get_dir_tuples("test files")
>>> ds.get_dir_nodes(dir_tuples) [

```

    { 'name': 'subdir1', 'path': 'test files/subdir1', 'children': []
    }, {
        'name': 'subdir2', 'path': 'test files/subdir2', 'children': []
    }, {
        'name': 'subdir3', 'path': 'test files/subdir3', 'children': []
    },
]

```

Request directories within a non-existent directory: >>> dir_tuples = ds.get_dir_tuples("test file") >>> ds.get_dir_nodes(dir_tuples) []

List directories within the dataset's "test files/subdir3" directory: >>> dir_tuples = ds.get_dir_tuples("test files3/subdir3") >>> ds.get_dir_nodes(dir_tuples) [

```

    { 'name': 'subdir4', 'path': 'test files/subdir3/subdir4', 'children': []
    }
]

```

get_dir_tuples (*basedir=""*)

List the directories immediately inside basedir.

If basedir is empty (the default), list directories with no separator, e.g. "subdir1"

If basedir is a string without a separator (e.g. "subdir1"), look for directory paths with one separator e.g. "subdir1/subdir2" and include a "." for navigating back to the dataset's top-level directory.

Continuing the example from the `_dirs` property method:

```
test files/subdir1/ test files/subdir2/ test files/subdir3/ test files/subdir3/subdir4/
```

List directories in the dataset's top level directory: >>> ds.get_dir_tuples("") [('test files')]

List directories within the dataset's "test files" directory: >>> ds.get_dir_tuples("test files") [('.', 'test files'), ('subdir1', 'test /filessubdir1'),

```
    ('subdir2', 'test files/subdir2' ), ('subdir3', 'test files/subdir3' )]
```

Request directories within a non-existent directory: >>> ds.get_dir_tuples("test file") []

List directories within the dataset's "test files/subdir3" directory: >>> ds.get_dir_tuples("test files/subdir3") [('.', 'test files/subdir3'), ('subdir4', 'test files/subdir3/subdir4')]

List directories within the dataset's "test files/subdir3/subdir4" directory: >>> ds.get_dir_tuples("test files/subdir3/subdir4") [('.', 'test files/subdir3/subdir4')]

get_download_urls ()

get_edit_url ()

Return the absolute url to the edit view of the current `Dataset`

get_first_experiment ()

get_images ()

`get_path()`

`get_size()`

`get_thumbnail_url()`

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

image

immutable

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrument

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

instrument_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

is_online

modified_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = `<tardis.tardis_portal.managers.OracleSafeManager object>`

save (**args*, ***kwargs*)

Save the current instance. Override this in a subclass if you want to control the saving process.

The ‘force_insert’ and ‘force_update’ parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

tardis.tardis_portal.models.experiment module

```
class tardis.tardis_portal.models.experiment.Experiment(*args, **kwargs)
```

Bases: `django.db.models.base.Model`

An `Experiment` is a collection of `Dataset` records. A `Dataset` record can appear in multiple `Experiment` records. Access controls are configured at the `Experiment` level by creating `ObjectACL` records.

Attribute url An optional URL associated with the data collection

Attribute approved An optional field indicating whether the collection is approved

Attribute title The title of the experiment.

Attribute description The description of the experiment.

Attribute institution_name The name of the institution who created the experiment.

Attribute start_time Undocumented

Attribute end_time Undocumented

Attribute created_time Undocumented

Attribute handle Undocumented

Attribute public Whether the experiment is publicly accessible

Attribute objects Default model manager

Attribute safe ACL aware model manager

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

`PUBLICATION_DETAILS_SCHEMA = 'http://www.tardis.edu.au/schemas/publication/details/'`

`PUBLICATION_DRAFT_SCHEMA = 'http://www.tardis.edu.au/schemas/publication/draft/'`

`PUBLICATION_SCHEMA_ROOT = 'http://www.tardis.edu.au/schemas/publication/'`

`PUBLIC_ACCESS_CHOICES = ((1, 'No public access (hidden)'), (25, 'Ready to be released'))`

`PUBLIC_ACCESS_EMBARGO = 25`

`PUBLIC_ACCESS_FULL = 100`

`PUBLIC_ACCESS_METADATA = 50`

`PUBLIC_ACCESS_NONE = 1`

approved

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

created_by

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

created_by_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datasets

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

description

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

end_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

experimentauthor_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

experimentparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

getParameterSets()

Return the experiment parametersets associated with this experiment.

get_absolute_url()

Return the absolute url to the current `Experiment`

get_create_token_url()

Return the absolute url to the create token view of the current `Experiment`

get_ct()

get_datafiles()

get_download_urls()

get_edit_url()

Return the absolute url to the edit view of the current `Experiment`

get_groups()

get_images()

get_next_by_created_time(*, field=<django.db.models.fields.DateTimeField: created_time>, is_next=True, **kwargs)

```
get_next_by_update_time (*, field=<django.db.models.fields.DateTimeField: update_time>,
                          is_next=True, **kwargs)
```

```
get_or_create_directory ()
```

```
get_owners ()
```

```
get_previous_by_created_time (*, field=<django.db.models.fields.DateTimeField: created_time>,
                                is_next=False, **kwargs)
```

```
get_previous_by_update_time (*, field=<django.db.models.fields.DateTimeField: update_time>,
                                is_next=False, **kwargs)
```

```
get_public_access_display (*, field=<django.db.models.fields.PositiveSmallIntegerField: public_access>)
```

```
get_size ()
```

handle

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

institution_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
is_publication ()
```

```
is_publication_draft ()
```

license

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

license_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

locked

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objectacls

Accessor to the related objects manager on the one-to-many relation created by GenericRelation.

In the example:

```
class Post(Model):
    comments = GenericRelation(Comment)
```

post.comments is a ReverseGenericManyToOneDescriptor instance.

```
objects = <tardis.tardis_portal.managers.OracleSafeManager object>
```

public_access

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

classmethod public_access_implies_distribution (*public_access_level*)

Determines if a level of public access implies that distribution should be allowed, or alternately if it should not be allowed. Used to prevent free-distribution licences for essentially private data, and overly-restrictive licences for public data.

public_download_allowed ()

instance method version of 'public_access_implies_distribution'

safe = <tardis.tardis_portal.managers.ExperimentManager object>

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The 'force_insert' and 'force_update' parameters can be used to insist that the "save" must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

start_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

title

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

token_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

update_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.experiment.ExperimentAuthor (id, experiment,
                                                                author, institu-
                                                                tion, email, order,
                                                                url)
```

Bases: django.db.models.base.Model

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

author

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

email

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

experiment

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

experiment_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

institution

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

order

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The ‘force_insert’ and ‘force_update’ parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

tardis.tardis_portal.models.facility module

class tardis.tardis_portal.models.facility.**Facility**(*args, **kwargs)

Bases: django.db.models.base.Model

Represents a facility that produces data.

Each *Instrument* record must belong to exactly one facility. Many *Instrument* records can be associated with the same facility.

Attribute name The name of the facility, e.g. “Test Facility”

Attribute manager_group The group of users who can access the Facility Overview for this facility.

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrument_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

manager_group

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

manager_group_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

modified_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The ‘force_insert’ and ‘force_update’ parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

`tardis.tardis_portal.models.facility.facilities_managed_by (user)`

Returns a list of facilities managed by a user

`tardis.tardis_portal.models.facility.is_facility_manager (user)`

Returns true if the user manages one or more facilities

tardis.tardis_portal.models.hooks module

`tardis.tardis_portal.models.hooks.post_save_experiment` (*sender*, ***kwargs*)

`tardis.tardis_portal.models.hooks.post_save_experiment_parameter` (*sender*, ***kwargs*)

`tardis.tardis_portal.models.hooks.post_save_experimentauthor` (*sender*, ***kwargs*)

`tardis.tardis_portal.models.hooks.publish_public_expt_rifcs` (*experiment*)

tardis.tardis_portal.models.instrument module

class `tardis.tardis_portal.models.instrument.Instrument` (**args*, ***kwargs*)

Bases: `django.db.models.base.Model`

Represents an instrument belonging to a facility that produces data

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

dataset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

facility

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

facility_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

getParameterSets ()

Return the instrument parametersets associated with this instrument.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrumentparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

modified_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>**save (*args, **kwargs)**

Save the current instance. Override this in a subclass if you want to control the saving process.

The `'force_insert'` and `'force_update'` parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

tardis.tardis_portal.models.jti module

```
class tardis.tardis_portal.models.jti.JTI(id, jti, created_time)
```

Bases: `django.db.models.base.Model`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
get_next_by_created_time(*, field=<django.db.models.fields.DateTimeField: created_time>,
                          is_next=True, **kwargs)
```

```
get_previous_by_created_time(*, field=<django.db.models.fields.DateTimeField: cre-
                              ated_time>, is_next=False, **kwargs)
```

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

jti

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`objects = <django.db.models.manager.Manager object>`

tardis.tardis_portal.models.license module

class `tardis.tardis_portal.models.license.License(*args, **kwargs)`

Bases: `django.db.models.base.Model`

Represents a licence for experiment content.

Instances should provide enough detail for both researchers to select the licence, and for the users of their data to divine correct usage of experiment content.

(Non-US developers: We're using US spelling in the code.)

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

allows_distribution

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

experiment_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

classmethod `get_none_option_license()`

classmethod `get_suitable_licenses(public_access_method=None)`

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

image_url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

internal_description

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

is_active

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`objects = <django.db.models.manager.Manager object>`

url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

tardis.tardis_portal.models.parameters module

```
class tardis.tardis_portal.models.parameters.DatafileParameter(id, name,  
                                                             string_value,  
                                                             numeri-  
                                                             cal_value,  
                                                             datetime_value,  
                                                             link_id, link_ct,  
                                                             parameterset)
```

Bases: *tardis.tardis_portal.models.parameters.Parameter*

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

link_ct

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):  
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

link_gfk

Provide a generic many-to-one relation through the content_type and object_id fields.

This class also doubles as an accessor to the related object (similar to ForwardManyToOneDescriptor) by adding itself as a model attribute.

name

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):  
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

parameter_type = 'Datafile'

parameterset

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

parameterset_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.parameters.DatafileParameterSet(id, schema,
                                                                datafile)
```

Bases: *tardis.tardis_portal.models.parameters.ParameterSet*

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

datafile

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

datafile_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datafileparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

parameter_class

alias of *DatafileParameter*

schema

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

storage_box

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

```
class tardis.tardis_portal.models.parameters.DatasetParameter(id, name,
                                                             string_value,
                                                             numerical_value,
                                                             datetime_value,
                                                             link_id, link_ct,
                                                             parameterset)
```

Bases: *tardis.tardis_portal.models.parameters.Parameter*

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

link_ct

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

link_gfk

Provide a generic many-to-one relation through the content_type and object_id fields.

This class also doubles as an accessor to the related object (similar to ForwardManyToOneDescriptor) by adding itself as a model attribute.

name

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

parameter_type = 'Dataset'

parameterset

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

parameterset_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

class `tardis.tardis_portal.models.parameters.DatasetParameterSet` (*id*, *schema*, *dataset*)

Bases: `tardis.tardis_portal.models.parameters.ParameterSet`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

dataset

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

dataset_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datasetparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

parameter_class

alias of *DatasetParameter*

schema

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

storage_box

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

```
class tardis.tardis_portal.models.parameters.ExperimentParameter(id, name,
                                                                string_value,
                                                                numerical_value,
                                                                date_time_value,
                                                                link_id,
                                                                link_ct, parameteriset)
```

Bases: *tardis.tardis_portal.models.parameters.Parameter*

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

link_ct

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

link_gfk

Provide a generic many-to-one relation through the content_type and object_id fields.

This class also doubles as an accessor to the related object (similar to `ForwardManyToOneDescriptor`) by adding itself as a model attribute.

name

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

parameter_type = 'Experiment'**parameterset**

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

parameterset_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The `'force_insert'` and `'force_update'` parameters can be used to insist that the “save” must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

```
class tardis.tardis_portal.models.parameters.ExperimentParameterSet(id,
                                                                    schema,
                                                                    experi-
                                                                    ment)
```

Bases: `tardis.tardis_portal.models.parameters.ParameterSet`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

experiment

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

experiment_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

experimentparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

parameter_class

alias of `ExperimentParameter`

schema

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

storage_box

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

class `tardis.tardis_portal.models.parameters.FreeTextSearchField`(*id*, *parameter_name*)

Bases: `django.db.models.base.Model`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

parameter_name

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

parameter_name_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.parameters.InstrumentParameter(id, name,
                                                                string_value,
                                                                numerical_value,
                                                                date_time_value,
                                                                link_id,
                                                                link_ct, parameterset)
```

Bases: *tardis.tardis_portal.models.parameters.Parameter*

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

link_ct

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

link_gfk

Provide a generic many-to-one relation through the `content_type` and `object_id` fields.

This class also doubles as an accessor to the related object (similar to ForwardManyToOneDescriptor) by adding itself as a model attribute.

name

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

parameter_type = 'Instrument'

parameterset

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

parameterset_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.parameters.InstrumentParameterSet (id,
                                                                    schema,
                                                                    instru-
                                                                    ment)
```

Bases: *tardis.tardis_portal.models.parameters.ParameterSet*

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrument

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

instrument_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrumentparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

objects = <django.db.models.manager.Manager object>

parameter_class

alias of `InstrumentParameter`

schema

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

storage_box

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

class `tardis.tardis_portal.models.parameters.Parameter` (*args, **kwargs)

Bases: `django.db.models.base.Model`

class `Meta`

Bases: `object`

abstract = `False`

app_label = `'tardis_portal'`

ordering = `['name']`

datetime_value

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

get()

link_ct

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

link_ct_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

link_gfk

Provide a generic many-to-one relation through the `content_type` and `object_id` fields.

This class also doubles as an accessor to the related object (similar to `ForwardManyToOneDescriptor`) by adding itself as a model attribute.

link_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

link_url

name

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

name_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

numerical_value

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects

`parameter_type = 'Abstract'`

set_value (*value*)

Sets the parameter value, converting into the appropriate data type. Deals with date/time strings that are timezone naive or aware, based on the `USE_TZ` setting.

Parameters `value` (*basestring*) – a string (or string-like) repr of the value

Raises `SuspiciousOperation` –

string_value

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.parameters.ParameterName(id, schema, name,
                                                         full_name, units,
                                                         data_type, immutable,
                                                         comparison_type,
                                                         is_searchable,
                                                         choices, order)
```

Bases: `django.db.models.base.Model`

`CONTAINS_COMPARISON = 8`

`DATETIME = 6`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

EXACT_VALUE_COMPARISON = 1

FILENAME = 5

GREATER_THAN_COMPARISON = 4

GREATER_THAN_EQUAL_COMPARISON = 5

JSON = 8

LESS_THAN_COMPARISON = 6

LESS_THAN_EQUAL_COMPARISON = 7

LINK = 4

LONGSTRING = 7

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

NOT_EQUAL_COMPARISON = 2

NUMERIC = 1

RANGE_COMPARISON = 3

STRING = 2

URL = 3

choices

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

comparison_type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

data_type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

datafileparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

datasetparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

experimentparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

freetextsearchfield_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

full_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

getUniqueShortName()

get_comparison_type_display(**, field=<django.db.models.fields.IntegerField: comparison_type>*)

get_data_type_display(**, field=<django.db.models.fields.IntegerField: data_type>*)

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

immutable

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrumentparameter_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

isDateTime()

isFilename()

isLink()

isLongString()

isNumeric()

isString()

isURL()

is_json()

is_searchable

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

natural_key()

objects = <tardis.tardis_portal.managers.ParameterNameManager object>

order

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

schema

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

schema_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

units

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.parameters.ParameterSet(*args, **kwargs)
    Bases: django.db.models.base.Model, tardis.tardis_portal.models.parameters.
    ParameterSetManagerMixin
```

class Meta

Bases: object

abstract = False

app_label = 'tardis_portal'

ordering = ['id']

parameter_class = None

save (*args, **kwargs)

Save the current instance. Override this in a subclass if you want to control the saving process.

The 'force_insert' and 'force_update' parameters can be used to insist that the "save" must be an SQL insert or update (or equivalent for non-SQL backends), respectively. Normally, they should not be set.

schema

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

schema_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

storage_box

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create_forward_many_to_many_manager() defined below.

```
class tardis.tardis_portal.models.parameters.ParameterSetManagerMixin(parameterset=None,
                                                                    par-
                                                                    en-
                                                                    tOb-
                                                                    ject=None,
                                                                    schema=None)
```

Bases: *tardis.tardis_portal.ParameterSetManager.ParameterSetManager*

for clarity's sake and for future extension this class makes ParameterSetManager local to this file. At the moment its only function is increasing the line count

```
class tardis.tardis_portal.models.parameters.Schema(id, namespace, name, type, sub-
                                                    type, immutable, hidden)
```

Bases: *django.db.models.base.Model*

DATAFILE = 3

DATASET = 2

exception DoesNotExist

Bases: *django.core.exceptions.ObjectDoesNotExist*

EXPERIMENT = 1

INSTRUMENT = 5

exception MultipleObjectsReturned

Bases: *django.core.exceptions.MultipleObjectsReturned*

NONE = 4

exception UnsupportedType (*msg*)

Bases: `Exception`

datafileparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

datasetparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

experimentparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

get_type_display (**, field=<django.db.models.fields.IntegerField: type>*)

hidden

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

immutable

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrumentparameterset_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

namespace

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

natural_key()

objects = <`tardis.tardis_portal.managers.SchemaManager` object>

parametername_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

subtype

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

tardis.tardis_portal.models.storage module

class `tardis.tardis_portal.models.storage.StorageBox(*args, **kwargs)`

Bases: `django.db.models.base.Model`

table that holds storage boxes of any type. to extend to new types, add fields if necessary

Attribute `max_size` max size in bytes

BUNDLE = 6

CACHE = 3

DISK = 1

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

TAPE = 2

TEMPORARY = 4

```
TYPES = {'bundle': 6, 'cache': 3, 'disk': 1, 'receiving': 4, 'tape': 2}
TYPE_UNKNOWN = 5
```

attributes

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

autocache

Whether to automatically copy data into faster storage

Returns True if data should be automatically cached

Return type `bool`

cache_box

Get cache box if set up

child_boxes

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

copy_files (*dest_box=None*)**copy_to_master** ()**classmethod create_local_box** (*location=None*)**datafileparametersets**

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

datasetparametersets

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

description

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

django_storage_class

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

experimentparametersets

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

file_objects

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

classmethod get_default_storage (location=None, user=None)

gets default storage box or get local storage box with given base location or create one if it doesn't exist.

policies: Have a `StorageBoxAttribute`: `key='default'`, `value=True` find a storage box where location is `DEFAULT_STORAGE_BASE_DIR` create a default storage box at `DEFAULT_STORAGE_BASE_DIR` lowest id storage box is default no storage box defined, use hard coded default for now TODO: consider removing this

Would be nice: get largest free space one, test for authorisation

get_initialised_storage_instance ()

get_options_as_dict ()

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

instrumentparametersets

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

`Pizza.toppings` and `Topping.pizzas` are `ManyToManyDescriptor` instances.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

master_box

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

master_box_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

max_size

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

move_files (*dest_box=None*)

move_to_master ()

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

offline_types = [2]

online_types = [3, 1, 4, 6]

options

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

priority

Default priority for tasks which take this box as an argument

status

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

storage_type

```
type_order = [3, 6, 1, 2, 4, 5]
```

```
class tardis.tardis_portal.models.storage.StorageBoxAttribute(*args, **kwargs)
    Bases: django.db.models.base.Model
```

Can hold attributes/metadata about different storage locations.

Attribute key The key used to look up the attribute (e.g. “type”).

Attribute value The value of the attribute e.g. “cache”.

The “type” key has three values support by the core MyTardis code: “permanent”, “receiving” and “cache”.

Adding an attribute with key “type” and value “permanent” preserves the default behaviour of a storage box, i.e. it is equivalent to not adding the attribute.

Adding an attribute with key “type” and value “receiving” means that the storage box will be treated as a staging area which receives files intended to be transferred to a permanent storage box. If a storage box has the “type: receiving” attribute, it must link to a permanent storage box (via its master_box foreign key).

Adding an attribute with key “type” and value “cache” means that the storage box will be used to copy data from slow-access storage to fast-access storage. If a storage box has the “type: cache” attribute, it must link to a permanent storage box (via its master_box foreign key).

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

key

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django.db.models.manager.Manager object>

storage_box

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

storage_box_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

value

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class tardis.tardis_portal.models.storage.StorageBoxOption(*args, **kwargs)
    Bases: django.db.models.base.Model
```

holds the options passed to the storage class defined in StorageBox. key->value store with support for typed values through pickling when value_type is set to ‘pickle’

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

PICKLE = 'pickle'

STRING = 'string'

TYPE_CHOICES = (('string', 'String value'), ('pickle', 'Pickled value'))

get_value_type_display (*, *field*=<`django.db.models.fields.CharField: value_type`>)

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

key

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <`django.db.models.manager.Manager` object>

storage_box

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

storage_box_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

unpickled_value**value**

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

value_type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

tardis.tardis_portal.models.token module

class `tardis.tardis_portal.models.token.Token` (*id, token, experiment, expiry_date, user*)

Bases: `django.db.models.base.Model`

exception DoesNotExist

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception MultipleObjectsReturned

Bases: `django.core.exceptions.MultipleObjectsReturned`

experiment

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

experiment_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

expiry_date

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
get_next_by_expiry_date (*, field=<django.db.models.fields.DateField: expiry_date>,
                        is_next=True, **kwargs)
```

```
get_previous_by_expiry_date (*, field=<django.db.models.fields.DateField: expiry_date>,
                             is_next=False, **kwargs)
```

get_session_expiry()

A token login should expire at the earlier of a) tomorrow at 4am b) the (end of) the token's expiry date

It is the responsibility of token_auth to set the session expiry

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

is_expired()

objects = <tardis.tardis_portal.managers.OracleSafeManager object>

save_with_random_token()

token

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

user

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

user_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

Module contents

models/__init__.py

tardis.tardis_portal.publish package

Subpackages

tardis.tardis_portal.publish.provider package

Submodules

tardis.tardis_portal.publish.provider.rifcsprovider module

class tardis.tardis_portal.publish.provider.rifcsprovider.**RifCsProvider**

Bases: `object`

can_publish (*experiment*)

get_rifcs_context (*experiment*)

get_template (*experiment*)

is_schema_valid (*experiment*)

Module contents

Submodules

tardis.tardis_portal.publish.publishservice module

class tardis.tardis_portal.publish.publishservice.**PublishService** (*providers, experiment*)

Bases: `object`

get_context ()

get_template ()

manage_rifcs (*oaipath*)

Module contents

tardis.tardis_portal.storage package

Submodules

tardis.tardis_portal.storage.file_system module

class tardis.tardis_portal.storage.file_system.**MyTardisLocalFileSystemStorage** (*location=None, base_url=None*)

Bases: `django.core.files.storage.FileSystemStorage`

Simply changes the `FileSystemStorage` default store location to the MyTardis file store location. Makes it easier to migrate 2.5 installations.

Module contents

class `tardis.tardis_portal.storage.DummyStorage`

Bases: `django.core.files.storage.Storage`

Does nothing except serve as a place holder for Storage classes not implemented yet

`tardis.tardis_portal.templatetags` package

Submodules

`tardis.tardis_portal.templatetags.approved_user_tags` module

`tardis.tardis_portal.templatetags.approved_user_tags.check_if_user_not_approved` (*request*)

Custom template filter to identify whether a user account is approved.

`tardis.tardis_portal.templatetags.approved_user_tags.get_matching_authmethod` (*backend*)

`tardis.tardis_portal.templatetags.basiccomparisonfilters` module

`tardis.tardis_portal.templatetags.basiccomparisonfilters.gt` (*value, arg*)

Returns a boolean of whether the value is greater than the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.gte` (*value, arg*)

Returns a boolean of whether the value is greater than or equal to the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.length_gt` (*value, arg*)

Returns a boolean of whether the value's length is greater than the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.length_gte` (*value, arg*)

Returns a boolean of whether the value's length is greater than or equal to the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.length_lt` (*value, arg*)

Returns a boolean of whether the value's length is less than the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.length_lte` (*value, arg*)

Returns a boolean of whether the value's length is less than or equal to the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.lt` (*value, arg*)

Returns a boolean of whether the value is less than the argument.

`tardis.tardis_portal.templatetags.basiccomparisonfilters.lte` (*value, arg*)

Returns a boolean of whether the value is less than or equal to the argument.

`tardis.tardis_portal.templatetags.bleach_tag` module

`tardis.tardis_portal.templatetags.bleach_tag.bleach_value` (*value*)

tardis.tardis_portal.template.tags.capture module

class tardis.tardis_portal.template.tags.capture.**CaptureNode** (*nodelist, varname*)
 Bases: django.template.base.Node

render (*context*)
 Return the node rendered as a string.

tardis.tardis_portal.template.tags.capture.**capture** (*parser, token*)
 {% capture as [foo] %}

tardis.tardis_portal.template.tags.dynurl module

class tardis.tardis_portal.template.tags.dynurl.**DynUrlNode** (**args*)
 Bases: django.template.base.Node

render (*context*)
 Return the node rendered as a string.

tardis.tardis_portal.template.tags.dynurl.**dynurl** (*parser, token*)

tardis.tardis_portal.template.tags.experiment_tags module

tardis.tardis_portal.template.tags.experiment_tags.**experiment_authors** (*experiment, **kwargs*)

Displays an experiment's authors in an experiment list view

tardis.tardis_portal.template.tags.experiment_tags.**experiment_download_link** (*experiment, **kwargs*)

Displays a download link for an experiment in a list view

tardis.tardis_portal.template.tags.experimentstats module

tardis.tardis_portal.template.tags.experimentstats.**experiment_file_count** (*value*)

tardis.tardis_portal.template.tags.facility_tags module

tardis.tardis_portal.template.tags.facility_tags.**check_if_facility_manager** (*request*)
 Custom template filter to identify whether a user is a facility manager.

tardis.tardis_portal.template.tags.feed module

tardis.tardis_portal.template.tags.feed.**todatetime** (*value*)

tardis.tardis_portal.template.tags.formfieldfilters module

This module holds filters that can be used in postprocessing a form field.

@author: Gerson Galang

tardis.tardis_portal.template.tags.formfieldfilters.**parametername_form** (*value*)
 Removes all values of arg from the given string

`tardis.tardis_portal.template_tags.formfieldfilters.sanitize_html` (*html*,
bad_tags=['body'])
Removes identified malicious HTML content from the given string.

`tardis.tardis_portal.template_tags.formfieldfilters.size` (*value*, *actualSize*)
Add the size attribute to the text field.

`tardis.tardis_portal.template_tags.lookupfilters` module

`tardis.tardis_portal.template_tags.lookupfilters.get_item` (*dictionary*, *key*)
Returns a value from a dictionary.

`tardis.tardis_portal.template_tags.pagination` module

`tardis.tardis_portal.template_tags.pagination.pagination` (*data_list*, *paginator*,
page_num, *query_string*)
Generates the series of links to the pages in a paginated list.

`tardis.tardis_portal.template_tags.pagination.paginator_number` (*data_list*, *paginator*,
page_num,
query_string,
page_index)
Generates an individual page index link in a paginated list.

`tardis.tardis_portal.template_tags.xmldate` module

`tardis.tardis_portal.template_tags.xmldate.toxmldatetime` (*value*)

Module contents

`tardis.tardis_portal.tests` package

Subpackages

`tardis.tardis_portal.tests.api` package

Submodules

`tardis.tardis_portal.tests.api.test_auth` module

Testing authentication and authorization in the Tastypie-based MyTardis REST API

class `tardis.tardis_portal.tests.api.test_auth.ACLAuthorizationTest` (*methodName='runTest'*)
Bases: `django.test.testcases.TestCase`

class `tardis.tardis_portal.tests.api.test_auth.MyTardisAuthenticationTest` (*methodName='runTest'*)
Bases: `tardis.tardis_portal.tests.api.MyTardisResourceTestCase`

test_apikey_authentication ()

test_bad_credentials ()

tardis.tardis_portal.tests.api.test_datafile_metadata_resources module

Testing the DatafileParameter and DatafileParameterSet resources in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_datafile_metadata_resources.DatafileParameterRes
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

class tardis.tardis_portal.tests.api.test_datafile_metadata_resources.DatafileParameterSet
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

tardis.tardis_portal.tests.api.test_datafile_resource module

Testing the DataFile resource in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_datafile_resource.DataFileResourceTest (methodName=
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

setUp ()
    Hook method for setting up the test fixture before exercising it.

test_create_df_for_staging ()

test_download_file ()
    Re-run the upload test in order to create a verified file to download - it will be verified immediately because
    CELERY_ALWAYS_EAGER is True in test_settings.py
    Then download the file, check the HTTP status code and check the file content.

test_post_single_file ()

test_shared_fs_many_files ()
    tests sending many files with known permanent location (useful for Australian Synchrotron ingestions)

test_shared_fs_single_file ()
```

tardis.tardis_portal.tests.api.test_dataset_metadata_resources module

Testing the DatasetParameter and DatasetParameterSet resources in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_dataset_metadata_resources.DatasetParameterResour
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

class tardis.tardis_portal.tests.api.test_dataset_metadata_resources.DatasetParameterSetRes
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

setUp ()
    Hook method for setting up the test fixture before exercising it.

tearDown ()
    Hook method for deconstructing the test fixture after testing it.

test_create_dataset_pset ()
    Test creating a dataset parameter set

test_create_dataset_pset_no_auth ()
    Test attempting to create a dataset parameter set without access

test_post_dataset_with_params ()
    Test creating a dataset with metadata
```

tardis.tardis_portal.tests.api.test_dataset_resource module

Testing the Dataset resource in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    test_get_child_dir_nodes ()

    test_get_child_dir_nodes_no_files_in_root_dir ()

    test_get_dataset_files ()

    test_get_dataset_filter_instrument ()

    test_get_dataset_no_instrument ()

    test_get_dataset_with_instrument ()

    test_get_root_dir_nodes ()

    test_post_dataset ()
```

tardis.tardis_portal.tests.api.test_experiment_metadata_resources module

Testing the ExperimentParameter and ExperimentParameterSet resources in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_experiment_metadata_resources.ExperimentParameterSetResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

class tardis.tardis_portal.tests.api.test_experiment_metadata_resources.ExperimentParameterResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

tardis.tardis_portal.tests.api.test_experiment_resource module

Testing the Experiment resource in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_experiment_resource.ExperimentResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    setUp ()
        Hook method for setting up the test fixture before exercising it.

    test_get_experiment ()

    test_get_experiment_author ()

    test_post_experiment ()
```

tardis.tardis_portal.tests.api.test_facility_resource module

Testing the Facility resource in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_facility_resource.FacilityResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    test_get_facility_by_id ()
```

```
test_get_facility_by_manager_group_id()
```

This type of query can be used to iterate through a user’s groups, and use each group’s id to determine which facilities a user manages, i.e. a way to obtain the functionality implemented by `facilities_managed_by()` via the API

```
test_get_facility_by_name()
```

tardis.tardis_portal.tests.api.test_group_resource module

Testing the Group resource in MyTardis’s Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_group_resource.GroupResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

```
test_get_group_by_id()
```

```
test_get_group_by_name()
```

tardis.tardis_portal.tests.api.test_instrument_resource module

Testing the Instrument resource in MyTardis’s Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_instrument_resource.InstrumentResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

```
test_get_instrument_by_id()
```

```
test_get_instrument_by_name()
```

```
test_post_instrument()
```

```
test_rename_instrument()
```

```
test_unauthorized_instrument_access_attempt()
```

tardis.tardis_portal.tests.api.test_list_api_endpoints module

Testing listing all of the endpoints in MyTardis’s Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_list_api_endpoints.ListEndpointsTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

```
test_list_endpoints()
```

tardis.tardis_portal.tests.api.test_replica_resource module

Testing the Replica resource in MyTardis’s Tastypie-based REST API

“Replica” was the old name for what is now known as a `DataFileObject` in MyTardis. The API v1 endpoint is still `/api/v1/replica/`

```
class tardis.tardis_portal.tests.api.test_replica_resource.ReplicaResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase
```

tardis.tardis_portal.tests.api.test_schema_resource module

Testing the Schema resource in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_schema_resource.SchemaResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    setUp()
        Hook method for setting up the test fixture before exercising it.

    tearDown()
        Hook method for deconstructing the test fixture after testing it.

    test_get_schema_by_id()

    test_get_schema_by_namespace()
```

tardis.tardis_portal.tests.api.test_serializer module

Testing the serializer in the Tastypie-based MyTardis REST API

```
class tardis.tardis_portal.tests.api.test_serializer.SerializerTest (methodName='runTest')
    Bases: django.test.testcases.TestCase

    test_debug_serializer()

    test_pretty_serializer()
```

tardis.tardis_portal.tests.api.test_storagebox_resources module

Testing the StorageBox resources in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_storagebox_resources.StorageBoxAttributeResourceTest
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    test_get_storage_box_attr_list_from_box_id()

class tardis.tardis_portal.tests.api.test_storagebox_resources.StorageBoxOptionResourceTest
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    test_get_storage_box_option_by_id()

    test_get_storage_box_option_list_from_box_id()

class tardis.tardis_portal.tests.api.test_storagebox_resources.StorageBoxResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    test_get_storage_box_by_id()
```

tardis.tardis_portal.tests.api.test_user_resource module

Testing the User resource in MyTardis's Tastypie-based REST API

```
class tardis.tardis_portal.tests.api.test_user_resource.UserResourceTest (methodName='runTest')
    Bases: tardis.tardis_portal.tests.api.MyTardisResourceTestCase

    test_get_user_by_id()

    test_get_user_by_username()
```

Module contents

Testing the tastypie-based mytardis api

class tardis.tardis_portal.tests.api.**MyTardisResourceTestCase** (*methodName='runTest'*)

Bases: tastypie.test.ResourceTestCaseMixin, django.test.testcases.TestCase

abstract class without tests to combine common settings in one place

get_admin_credentials ()

get_apikey_credentials ()

get_credentials ()

A convenience method for the user as a way to shorten up the often repetitious calls to create the same authentication.

Raises `NotImplementedError` by default.

Usage:

```
class MyResourceTestCase (ResourceTestCase) :
    def get_credentials (self) :
        return self.create_basic ('daniel', 'pass')

    # Then the usual tests...
```

setUp ()

Hook method for setting up the test fixture before exercising it.

tardis.tardis_portal.tests.auth package

Module contents

tardis.tardis_portal.tests.management package

Submodules

tardis.tardis_portal.tests.management.test_collectstatic module

class tardis.tardis_portal.tests.management.test_collectstatic.**CollectstaticTest** (*methodName='runTest'*)

Bases: django.test.testcases.TestCase

setUp ()

Hook method for setting up the test fixture before exercising it.

tearDown ()

Hook method for deconstructing the test fixture after testing it.

test_collectstatic ()

tardis.tardis_portal.tests.management.test_createuser module

class tardis.tardis_portal.tests.management.test_createuser.**CreateUserTestCase** (*methodName='runTest'*)

Bases: django.test.testcases.TestCase

testInteractive ()

Just test that we can run `./manage.py createuser` without any runtime exceptions by mocking the `raw_input` username and email entry

testNoInput ()

Just test that we can run `./manage.py createuser --username testuser1 --email testuser1@example.com --noinput` without any runtime exceptions

tardis.tardis_portal.tests.management.test_dumpschemas module

class `tardis.tardis_portal.tests.management.test_dumpschemas.DumpSchemasTestCase` (*methodName=*
Bases: `django.test.testcases.TestCase`

setUp ()

Hook method for setting up the test fixture before exercising it.

tearDown ()

Hook method for deconstructing the test fixture after testing it.

testDumpSchemas ()

Just test that we can run `./manage.py dumpschemas` without any runtime exceptions

tardis.tardis_portal.tests.management.test_loadschemas module

class `tardis.tardis_portal.tests.management.test_loadschemas.LoadSchemasTestCase` (*methodName=*
Bases: `django.test.testcases.TestCase`

testLoadSchemas ()

Test that we can run `./manage.py loadschemas tardis/tardis_portal/fixtures/jeol_metadata_schema.json`

tardis.tardis_portal.tests.management.test_rmexperiment module

class `tardis.tardis_portal.tests.management.test_rmexperiment.RmExperimentTestCase` (*methodName=*
Bases: `django.test.testcases.TestCase`

testList ()

testRemove ()

Module contents

This package contains tests relating to management commands, i.e. command-line tools invoked with `manage.py`

tardis.tardis_portal.tests.models package

Submodules

tardis.tardis_portal.tests.models.test_authors module

`test_authors.py`

```

class tardis.tardis_portal.tests.models.test_authors.AuthorTestCase (methodName='runTest')
    Bases: tardis.tardis_portal.tests.models.ModelTestCase

    test_authors ()

```

tardis.tardis_portal.tests.models.test_datafile module

test_datafile.py

```

class tardis.tardis_portal.tests.models.test_datafile.DataFileTestCase (methodName='runTest')
    Bases: tardis.tardis_portal.tests.models.ModelTestCase

    test_datafile (mock_send_task)

```

tardis.tardis_portal.tests.models.test_dataset module

test_dataset.py

```

class tardis.tardis_portal.tests.models.test_dataset.DatasetTestCase (methodName='runTest')
    Bases: tardis.tardis_portal.tests.models.ModelTestCase

    test_dataset ()

    test_get_dir_tuples ()

```

tardis.tardis_portal.tests.models.test_dfo module

tests_datafileobject.py

```

class tardis.tardis_portal.tests.models.test_dfo.DataFileObjectTestCase (methodName='runTest')
    Bases: tardis.tardis_portal.tests.models.ModelTestCase

    test_deleting_dfo_without_uri ()

```

tardis.tardis_portal.tests.models.test_experiment module

test_experiment.py

```

class tardis.tardis_portal.tests.models.test_experiment.ExperimentTestCase (methodName='runTest')
    Bases: tardis.tardis_portal.tests.models.ModelTestCase

    test_experiment ()

```

tardis.tardis_portal.tests.models.test_generate_api_key module

test_generate_api_key.py

```

class tardis.tardis_portal.tests.models.test_generate_api_key.ApiKeyTestCase (methodName='runTest')
    Bases: tardis.tardis_portal.tests.models.ModelTestCase

    test_create_user_automatically_generate_api_key ()
        Verify that create a new user will generate an api_key automatically

```

tardis.tardis_portal.tests.models.test_instrument module

test_instrument.py

```
class tardis.tardis_portal.tests.models.test_instrument.InstrumentTestCase (methodName='runTest')  
    Bases: tardis.tardis_portal.tests.models.ModelTestCase  
  
    test_instrument ()
```

tardis.tardis_portal.tests.models.test_parameter module

test_parameter.py

```
class tardis.tardis_portal.tests.models.test_parameter.ParameterTestCase (methodName='runTest')  
    Bases: tardis.tardis_portal.tests.models.ModelTestCase  
  
    test_parameter ()
```

Module contents

tests/models/__init__.py <http://docs.djangoproject.com/en/dev/topics/testing/>

```
class tardis.tardis_portal.tests.models.ModelTestCase (methodName='runTest')  
    Bases: django.test.testcases.TestCase  
  
    setUp ()  
        Hook method for setting up the test fixture before exercising it.
```

tardis.tardis_portal.tests.views package

Submodules

tardis.tardis_portal.tests.views.test_auth_views module

test_auth_views.py

Tests for view methods relating to users, groups, access controls and authorization

```
class tardis.tardis_portal.tests.views.test_auth_views.ManageAccountTestCase (methodName='runTest')  
    Bases: django.test.testcases.TestCase  
  
    test_manage_account (mock_webpack_get_bundle)  
  
class tardis.tardis_portal.tests.views.test_auth_views.RightsTestCase (methodName='runTest')  
    Bases: django.test.testcases.TestCase  
  
    test_rights_require_valid_owner ()  
  
class tardis.tardis_portal.tests.views.test_auth_views.UserGroupListsTestCase (methodName='runTest')  
    Bases: django.test.testcases.TestCase  
  
    setUp ()  
        Hook method for setting up the test fixture before exercising it.  
  
    tearDown ()  
        Hook method for deconstructing the test fixture after testing it.
```

```
test_get_group_list ()
```

```
test_get_user_list ()
```

```
class tardis.tardis_portal.tests.views.test_auth_views.UserListTestCase (methodName='runTest')
```

```
Bases: django.test.testcases.TestCase
```

User lists are used for autocompleting the user-to-share-with field when granting access to an experiment

```
setUp ()
```

```
Hook method for setting up the test fixture before exercising it.
```

```
tearDown ()
```

```
Hook method for deconstructing the test fixture after testing it.
```

```
test_get_user_list ()
```

tardis.tardis_portal.tests.views.test_contextual_views module

```
test_contextual_views.py
```

Tests for view methods supplying context data to templates

```
class tardis.tardis_portal.tests.views.test_contextual_views.ContextualViewTest (methodName='runTest')
```

```
Bases: django.test.testcases.TestCase
```

```
setUp ()
```

```
setting up essential objects, copied from tests above
```

```
tearDown ()
```

```
Hook method for deconstructing the test fixture after testing it.
```

```
test_details_display ()
```

```
test display of view for an existing schema and no display for an undefined one.
```

tardis.tardis_portal.tests.views.test_experiment_views module

```
test_experiment_views.py
```

Tests for view methods relating to experiments

```
class tardis.tardis_portal.tests.views.test_experiment_views.ExperimentTestCase (methodName='runTest')
```

```
Bases: django.test.testcases.TestCase
```

```
setUp ()
```

```
Hook method for setting up the test fixture before exercising it.
```

```
test_create_and_edit (mock_webpack_get_bundle)
```

```
test_dataset_json ()
```

tardis.tardis_portal.tests.views.test_template_contexts module

```
test_template_contexts.py
```

Tests for view methods supplying context data to templates

```
class tardis.tardis_portal.tests.views.test_template_contexts.ExperimentListsTest (methodName='runTest')
```

```
Bases: django.test.testcases.TestCase
```

setUp()
setting up essential objects, copied from tests above

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_mydata_view (*mock_webpack_get_bundle*)
Test My Data view

test_shared_view (*mock_webpack_get_bundle*)
Test Shared view

class tardis.tardis_portal.tests.views.test_template_contexts.**ViewTemplateContextsTest** (*meth*
Bases: django.test.testcases.TestCase

setUp()
setting up essential objects, copied from tests above

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_dataset_view (*mock_webpack_get_bundle*)
test some context parameters for a dataset view

test_experiment_view (*mock_webpack_get_bundle*)
test some template context parameters for an experiment view

tardis.tardis_portal.tests.views.test_upload_views module

test_upload_views.py

Tests for view methods relating to uploads

class tardis.tardis_portal.tests.views.test_upload_views.**UploadTestCase** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

setUp()
Hook method for setting up the test fixture before exercising it.

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_file_upload()

test_upload_complete()

Module contents

Tests for view methods in tardis/tardis_portal/views/

Submodules

tardis.tardis_portal.tests.ldap_ldif module

tardis.tardis_portal.tests.slapped module

Utilities for starting up a test slapd server and talking to it with ldapsearch/ldapadd.

```
class tardis.tardis_portal.tests.slapped.Slapped
```

```
Bases: object
```

Controller class for a slapped instance, OpenLDAP's server.

This class creates a temporary data store for slapped, runs it on a private port, and initialises it with a top-level dc and the root user.

When a reference to an instance of this class is lost, the slapped server is shut down.

```
PATH_LDAPADD = None
```

```
PATH_LDAPSEARCH = None
```

```
PATH_SCHEMA_DIR = '/home/docs/checkouts/readthedocs.org/user_builds/mytardis/checkouts/
```

```
PATH_SLAPD = None
```

```
PATH_SLAPTEST = None
```

```
PATH_TMPDIR = '/tmp/tmpyks4mxdt'
```

```
TEST_UTILS_DIR = '/home/docs/checkouts/readthedocs.org/user_builds/mytardis/checkouts/
```

```
classmethod check_paths ()
```

Checks that the configured executable paths look valid. If they don't, then logs warning messages (not errors).

```
configure (cfg)
```

Appends slapped.conf configuration lines to *cfg*. Also re-initializes any backing storage. Feel free to subclass and override this method.

```
get_address ()
```

```
get_dn_suffix ()
```

```
get_root_dn ()
```

```
get_root_password ()
```

```
get_tmpdir ()
```

```
get_url ()
```

```
ldapadd (ldif, extra_args=[])
```

Runs ldapadd on this slapped instance, passing it the ldif content

```
ldapsearch (base=None, filter='(objectClass=*)', attrs=[], scope='sub', extra_args=[])
```

```
restart ()
```

Restarts the slapped server; ERASING previous content. Starts the server even if it isn't already running.

```
set_debug ()
```

```
set_dn_suffix (dn)
```

```
set_port (port)
```

```
set_root_cn (cn)
```

```
set_root_password (pw)
```

```
set_slapped_debug_level (level)
```

```
set_tmpdir (path)
```

```
start ()
```

Starts the slapped server process running, and waits for it to come up.

started()

This method is called when the LDAP server has started up and is empty. By default, this method adds the two initial objects, the domain object and the root user object.

stop()

Stops the slapd server, and waits for it to terminate

wait()

Waits for the slapd process to terminate by itself.

`tardis.tardis_portal.tests.slapd.delete_directory_content` (*path*)

`tardis.tardis_portal.tests.slapd.find_available_tcp_port` (*host='127.0.0.1'*)

`tardis.tardis_portal.tests.slapd.mkdirs` (*path*)

Creates the directory path unless it already exists

`tardis.tardis_portal.tests.slapd.quote` (*s*)

Quotes the " and characters in a string and surrounds with "..."

`tardis.tardis_portal.tests.slapd.which` (*executable*)

tardis.tardis_portal.tests.test_authentication module

Created on 19/01/2011

class `tardis.tardis_portal.tests.test_authentication.AuthenticationTestCase` (*methodName='runTest'*)

Bases: `django.test.testcases.TestCase`

setUp()

Hook method for setting up the test fixture before exercising it.

testManageAuthMethods (*mock_webpack_get_bundle*)

testSimpleAuthenticate ()

test_djangoauth ()

tardis.tardis_portal.tests.test_authorisation module

class `tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase` (*methodName='runTest'*)

Bases: `django.test.testcases.TestCase`

setUp()

Hook method for setting up the test fixture before exercising it.

tearDown()

Hook method for deconstructing the test fixture after testing it.

testCantEditLockedExperiment (*mock_webpack_get_bundle*)

testChangeUserPermissions (*mock_webpack_get_bundle*)

testOwnedExperiments ()

testReadAccess (*mock_webpack_get_bundle*)

testWriteAccess (*mock_webpack_get_bundle*)

urls = 'tardis.urls'

tardis.tardis_portal.tests.test_authservice module

class `tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase` (*methodName='runTest'*)
 Bases: `django.test.testcases.TestCase`

setUp ()

Hook method for setting up the test fixture before exercising it.

tearDown ()

Hook method for deconstructing the test fixture after testing it.

testAuthenticate ()

testGetGroupsForEntity ()

testGroupProvider ()

testGroupSearch ()

testInitialisation ()

class `tardis.tardis_portal.tests.test_authservice.MockAuthProvider`
 Bases: `object`

authenticate (*request*)

class `tardis.tardis_portal.tests.test_authservice.MockGroupProvider`
 Bases: `tardis.tardis_portal.auth.interfaces.GroupProvider`

getGroupById (*id*)

return the group associated with the id

getGroups (*user*)

return an iteration of the available groups.

getGroupsForEntity (*id*)

return a list of groups associated with a particular entity id

searchGroups (***filter*)

return a list of groups that match the filter

class `tardis.tardis_portal.tests.test_authservice.MockRequest`
 Bases: `django.http.request.HttpRequest`

setPost (*field, value*)

class `tardis.tardis_portal.tests.test_authservice.MockSettings`
 Bases: `object`

tardis.tardis_portal.tests.test_copy_move module

`test_copy_move.py`

Test copying and moving a file to another storage box

class `tardis.tardis_portal.tests.test_copy_move.CopyMoveTestCase` (*methodName='runTest'*)
 Bases: `django.test.testcases.TestCase`

Test copying and moving files between storage boxes

setUp ()

Hook method for setting up the test fixture before exercising it.

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_cache()
Test caching a file from a slow-access storage box

test_copy()
Test copying a file to another storage box

test_move()
Test moving a file to another storage box

tardis.tardis_portal.tests.test_df_save_metadata module

class `tardis.tardis_portal.tests.test_df_save_metadata.DatafileSaveMetadataTestCase` (*methodName='runTest'*)
Bases: `django.test.testcases.TestCase`

setUp()
Hook method for setting up the test fixture before exercising it.

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_df_save_metadata()
Test the DataFile metadata saving task used by the post-save filters microservice

tardis.tardis_portal.tests.test_download module

class `tardis.tardis_portal.tests.test_download.DownloadTestCase` (*methodName='runTest'*)
Bases: `django.test.testcases.TestCase`

setUp()
Hook method for setting up the test fixture before exercising it.

tearDown()
Hook method for deconstructing the test fixture after testing it.

testDatasetFile()

testDownload (*mock_webpack_get_bundle*)

testView (*mock_webpack_get_bundle*)

`tardis.tardis_portal.tests.test_download.get_size_and_sha512sum` (*testfile*)

tardis.tardis_portal.tests.test_download_apikey module

class `tardis.tardis_portal.tests.test_download_apikey.ApiKeyDownloadTestCase` (*methodName='runTest'*)
Bases: `tastypie.test.ResourceTestCaseMixin`, `django.test.testcases.TestCase`

setUp()
Hook method for setting up the test fixture before exercising it.

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_download_apikey()

tardis.tardis_portal.tests.test_facility_overview module

Tests relating to facility overview

```
class tardis.tardis_portal.tests.test_facility_overview.FacilityOverviewTestCase (methodName=
    Bases: django.test.testcases.TestCase
    setUp ()
        Hook method for setting up the test fixture before exercising it.
    test_facility_overview_datafile_list ()
    test_facility_overview_experiments ()
        Despite the name of the test_facility_overview_experiments method, it actually returns a JSON list of
        datasets (not experiments)
```

tardis.tardis_portal.tests.test_forms module

test_models.py <http://docs.djangoproject.com/en/dev/topics/testing/>

```
class tardis.tardis_portal.tests.test_forms.RightsFormTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase
    setUp ()
        Hook method for setting up the test fixture before exercising it.
    test_ensures_suitable_license ()
```

tardis.tardis_portal.tests.test_iiif module

```
class tardis.tardis_portal.tests.test_iiif.ExtraTestCases (methodName='runTest')
    Bases: django.test.testcases.TestCase
```

As per: <http://library.stanford.edu/iiif/image-api/compliance.html>

```
setUp ()
    Hook method for setting up the test fixture before exercising it.
```

```
testImageCacheControl ()
```

```
testImageHasEtags ()
```

```
testInfoHasEtags ()
```

```
class tardis.tardis_portal.tests.test_iiif.Level0TestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase
```

As per: <http://library.stanford.edu/iiif/image-api/compliance.html>

```
setUp ()
    Hook method for setting up the test fixture before exercising it.
```

```
testCanGetInfoAsJSON ()
```

```
testCanGetInfoAsXML ()
```

```
testCanGetOriginalImage ()
```

```
class tardis.tardis_portal.tests.test_iiif.Level1TestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase
```

As per: <http://library.stanford.edu/iiif/image-api/compliance.html>

setUp()
Hook method for setting up the test fixture before exercising it.

testCanGetJpegFormat()

testHandleRegions()

testHandleRotation()

testHandleSizing()

class tardis.tardis_portal.tests.test_iiif.**Level2TestCase** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

As per: <http://library.stanford.edu/iiif/image-api/compliance.html>

setUp()
Hook method for setting up the test fixture before exercising it.

testCanGetRequiredFormats()

testHandleSizing()

tardis.tardis_portal.tests.test_ldap module

class tardis.tardis_portal.tests.test_ldap.**LDAPErrorTest** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

test_search()

class tardis.tardis_portal.tests.test_ldap.**LDAPTest** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

setUp()
Hook method for setting up the test fixture before exercising it.

tearDown()
Hook method for deconstructing the test fixture after testing it.

test_authenticate()

test_getgroupbyid()

test_getgroups()

test_getgroupsforentity()

test_getuserbyid()

test_search()

test_searchgroups()

tardis.tardis_portal.tests.test_parameters module

test_parameters.py

class tardis.tardis_portal.tests.test_parameters.**ParametersTestCase** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

Tests for the different parameter types, defined in the `tardis.tardis_portal.models.parameters.ParameterName` class:

NUMERIC, STRING, URL, LINK, FILENAME, DATETIME, LONGSTRING and JSON

setUp()

Hook method for setting up the test fixture before exercising it.

tearDown()

Hook method for deconstructing the test fixture after testing it.

test_experiment_parameter_get()

Test the Parameter class's get() method which should return an appropriate string representation of the parameter which depends on the parameter's data type:

NUMERIC, STRING, URL, LINK, FILENAME, DATETIME, LONGSTRING or JSON

test_image_filename_parameters()

When a FILENAME parameter refers to a thumbnail image file, MyTardis can generate a HTML for displaying that image.

This method tests the generation of the image HTML

test_link_urls()

Test URLs generated for parameters which link to MyTardis model records

test_permissions_checks()

Test permissions checks, used by tardis.tardis_portal.auth.authorisation

tardis.tardis_portal.tests.test_parametersets module

test_parametersets.py <http://docs.djangoproject.com/en/dev/topics/testing/>

class tardis.tardis_portal.tests.test_parametersets.**EditParameterSetTestCase** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

setUp()

Hook method for setting up the test fixture before exercising it.

tearDown()

Hook method for deconstructing the test fixture after testing it.

test_add_datafile_params()

test_add_dataset_params()

test_add_experiment_params()

test_edit_datafile_params()

test_edit_dataset_params()

test_edit_experiment_params()

class tardis.tardis_portal.tests.test_parametersets.**ParameterSetManagerTestCase** (*methodName='runTest'*)
Bases: django.test.testcases.TestCase

setUp()

Hook method for setting up the test fixture before exercising it.

tearDown()

Hook method for deconstructing the test fixture after testing it.

test_existing_parameterset()

test_link_parameter_type ()

Test that Parameter.link_gfk (GenericForeignKey) is correctly assigned after using Parameter.set_value(some_url) for a LINK Parameter.

test_link_parameter_type_extra ()

test_new_parameterset ()

test_parameterset_as_string ()

test_tz_aware_date_handling ()

Ensure that dates are handling in a timezone-aware way.

test_tz_naive_date_handling ()

Ensure that dates are handling in a timezone-aware way.

test_unresolvable_link_parameter ()

Test that LINK Parameters that can't be resolved to a model (including non-URL values) still work.

tardis.tardis_portal.tests.test_publishservice module

class tardis.tardis_portal.tests.test_publishservice.**MockRifCsProvider**

Bases: *tardis.tardis_portal.publish.provider.rifcsprovider.RifCsProvider*

get_beamline (*experiment*)

get_license_uri (*experiment*)

get_rifcs_context (*experiment*)

get_template (*experiment*)

tardis.test_settings adds this to the template dirs: tardis/tardis_portal/tests/rifcs/

is_schema_valid (*experiment*)

class tardis.tardis_portal.tests.test_publishservice.**PublishServiceTestCase** (*methodName='runTest'*)

Bases: *django.test.testcases.TestCase*

setUp ()

Hook method for setting up the test fixture before exercising it.

testContext ()

testInitialisation ()

testInitialisationNoProvider ()

testManageRifCsCheckContent ()

testManageRifCsCreateAndRemove ()

tardis.tardis_portal.tests.test_storage module

test_storage.py <http://docs.djangoproject.com/en/dev/topics/testing/>

class tardis.tardis_portal.tests.test_storage.**ModelTestCase** (*methodName='runTest'*)

Bases: *django.test.testcases.TestCase*

setUp ()

Hook method for setting up the test fixture before exercising it.

```

tearDown()
    Hook method for deconstructing the test fixture after testing it.

test_get_receiving_box()

test_storageboxoption()

```

tardis.tardis_portal.tests.test_tar_download module

```

class tardis.tardis_portal.tests.test_tar_download.TarDownTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp()
        Hook method for setting up the test fixture before exercising it.

    tearDown()
        Hook method for deconstructing the test fixture after testing it.

    test_tar_experiment_download()

```

tardis.tardis_portal.tests.test_tasks module

```

class tardis.tardis_portal.tests.test_tasks.BackgroundTaskTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    As per: http://library.stanford.edu/iiif/image-api/compliance.html

    setUp()
        Hook method for setting up the test fixture before exercising it.

    testLocalFile()

    test_wrong_size_verification()

```

tardis.tardis_portal.tests.test_tokens module

```

test_tokens.py

class tardis.tardis_portal.tests.test_tokens.FrozenTime (*args, **kwargs)
    Bases: object

    classmethod freeze_time (time)

    classmethod now ()

class tardis.tardis_portal.tests.test_tokens.TokenTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp()
        Hook method for setting up the test fixture before exercising it.

    tearDown()
        Hook method for deconstructing the test fixture after testing it.

    test_create_token (mock_webpack_get_bundle)

    test_default_expiry()

    test_get_session_expiry()

```

```
test_get_session_expiry_expired_token()
test_get_session_expiry_near_expiry()
test_is_expired()
test_retrieve_access_list_tokens()
test_save_with_random_token()
test_save_with_random_token_failures()
test_save_with_random_token_gives_up()
test_token_delete(mock_webpack_get_bundle)
urls = 'tardis.tardis_portal.tests.urls'
```

tardis.tardis_portal.tests.tests module

tests.py <http://docs.djangoproject.com/en/dev/topics/testing/>

```
class tardis.tardis_portal.tests.tests.UserInterfaceTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase
    test_login()
    test_root(mock_webpack_get_bundle)
    test_urls(mock_webpack_get_bundle)
    test_urls_with_some_content(mock_webpack_get_bundle)
tardis.tardis_portal.tests.tests.suite()
```

tardis.tardis_portal.tests.urls module

tardis.tardis_portal.tests.urls.groups_view(request)
Dummy view for remote user tests

Module contents

tardis.tardis_portal.views package

Submodules

tardis.tardis_portal.views.ajax_actions module

views that perform some action and don't return anything very useful

tardis.tardis_portal.views.ajax_json module

views that return JSON data

```
tardis.tardis_portal.views.ajax_json.get_experiment_list(request)
tardis.tardis_portal.views.ajax_json.retrieve_licenses(request)
```

tardis.tardis_portal.views.ajax_pages module

views that return HTML that is injected into pages

```
tardis.tardis_portal.views.ajax_pages.retrieve_owned_exps_list(request, template_name='tardis_portal/ajax/exps_list')
```

```
tardis.tardis_portal.views.ajax_pages.retrieve_shared_exps_list(request, template_name='tardis_portal/ajax/exps_list')
```

tardis.tardis_portal.views.authentication module

views that have to do with authentication

```
tardis.tardis_portal.views.authentication.create_user(request)
```

```
tardis.tardis_portal.views.authentication.login(request)
    handler for login page
```

```
tardis.tardis_portal.views.authentication.logout(request)
```

```
tardis.tardis_portal.views.authentication.manage_auth_methods(request)
    Manage the user's authentication methods using AJAX.
```

```
tardis.tardis_portal.views.authentication.manage_user_account(request)
```

```
tardis.tardis_portal.views.authentication.rcauth(request)
```

tardis.tardis_portal.views.authorisation module

views that have to do with authorisations

```
tardis.tardis_portal.views.authorisation.create_group(request)
```

```
tardis.tardis_portal.views.authorisation.manage_groups(request)
```

```
tardis.tardis_portal.views.authorisation.retrieve_access_list_group_readonly(request, experiment_id)
```

```
tardis.tardis_portal.views.authorisation.retrieve_access_list_user_readonly(request, experiment_id)
```

```
tardis.tardis_portal.views.authorisation.retrieve_group_list(request)
```

```
tardis.tardis_portal.views.authorisation.retrieve_group_list_by_user(request)
```

```
tardis.tardis_portal.views.authorisation.retrieve_group_userlist_readonly(request, group_id)
```

```
tardis.tardis_portal.views.authorisation.retrieve_user_list(request)
```

```
tardis.tardis_portal.views.authorisation.share(request, experiment_id)
    Choose access rights and licence.
```

```
tardis.tardis_portal.views.authorisation.token_delete(request, token_id)
```

tardis.tardis_portal.views.facilities module

views relevant for facilities and the facility view

`tardis.tardis_portal.views.facilities.dataset_aggregate_info` (*dataset*)

`tardis.tardis_portal.views.facilities.datetime_to_us` (*dt*)

The datetime objects are kept as None if they aren't set, otherwise they're converted to milliseconds so AngularJS can format them nicely.

`tardis.tardis_portal.views.facilities.facility_overview_data_count` (*request*,
facility_id)

returns the total number of datasets for pagination in json format

`tardis.tardis_portal.views.facilities.facility_overview_datafile_list` (*dataset*)

`tardis.tardis_portal.views.facilities.facility_overview_dataset_detail` (*request*,
dataset_id)

`tardis.tardis_portal.views.facilities.facility_overview_experiments` (*request*,
facility_id,
start_index,
end_index)

json facility datasets

`tardis.tardis_portal.views.facilities.facility_overview_facilities_list` (*request*)
json list of facilities managed by the current user

tardis.tardis_portal.views.images module

views that return images or route to images

`tardis.tardis_portal.views.images.load_datafile_image` (*request*, *parameter_id*)

`tardis.tardis_portal.views.images.load_dataset_image` (*request*, *parameter_id*)

`tardis.tardis_portal.views.images.load_experiment_image` (*request*, *parameter_id*)

`tardis.tardis_portal.views.images.load_image` (*request*, *parameter*)

tardis.tardis_portal.views.machine module

views that return data useful only to other machines (but not JSON)

`tardis.tardis_portal.views.machine.site_settings` (*request*)

tardis.tardis_portal.views.pages module

views that render full pages

class `tardis.tardis_portal.views.pages.DatasetView` (***kwargs*)

Bases: `django.views.generic.base.TemplateView`

find_custom_view_override (*request*, *dataset*)

Determines if any custom view overrides have been defined in settings.DATASET_VIEWS and returns

the view function if a match to one the schemas for the dataset is found. (DATASET_VIEWS is a list of (schema_namespace, view_function) tuples).

Parameters

- **request** –
- **dataset** –

Returns

Return type

get (*request*, *args, **kwargs)
View an existing dataset.

This default view can be overridden by defining a dictionary DATASET_VIEWS in settings.

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP request object
- **args** (*list*) –
- **kwargs** (*dict*) –

Returns The Django response object

Return type `django.http.HttpResponse`

get_context_data (*request*, *dataset*, **kwargs)
Prepares the values to be passed to the default dataset view, respecting authorization rules. Returns a dict of values (the context).

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP request object
- **dataset** (`tardis.tardis_portal.models.dataset.Dataset`) – the Dataset model instance
- **kwargs** (*dict*) –

Returns A dictionary of values for the view/template.

Return type `dict`

```
template_name = 'tardis_portal/view_dataset.html'
```

```
class tardis.tardis_portal.views.pages.ExperimentView(**kwargs)
Bases: django.views.generic.base.TemplateView
```

```
find_custom_view_override(request, experiment)
```

get (*request*, *args, **kwargs)
View an existing experiment.

This default view can be overridden by defining a dictionary EXPERIMENT_VIEWS in settings.

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP Request instance
- **args** (*list*) –
- **kwargs** (*dict*) – In kwargs: param int experiment_id: the ID of the experiment

Returns an HttpResponse

Return type `django.http.HttpResponse`

get_context_data (*request*, *experiment*, ***kwargs*)

Prepares the values to be passed to the default experiment view, respecting authorization rules. Returns a dict of values (the context).

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP request object
- **experiment** (`tardis.tardis_portal.models.experiment.Experiment`) – the experiment model instance
- **kwargs** (*dict*) – kwargs

Returns A dictionary of values for the view/template.

Return type `dict`

`template_name = 'tardis_portal/view_experiment.html'`

class `tardis.tardis_portal.views.pages.IndexView` (***kwargs*)

Bases: `django.views.generic.base.TemplateView`

get (*request*, **args*, ***kwargs*)

The index view, intended to render the front page of the MyTardis site listing recent experiments.

This default view can be overridden by defining a dictionary `INDEX_VIEWS` in settings which maps `SITE_ID`'s or domain names to an alternative view function (similar to the `DATASET_VIEWS` or `EXPERIMENT_VIEWS` overrides).

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP request object
- **args** (*list*) –
- **kwargs** (*dict*) –

Returns The Django response object

Return type `django.http.HttpResponse`

get_context_data (**args*, ***kwargs*)

`template_name = 'tardis_portal/index.html'`

`tardis.tardis_portal.views.pages.about` (*request*)

`tardis.tardis_portal.views.pages.add_dataset` (*request*, *experiment_id*)

`tardis.tardis_portal.views.pages.create_experiment` (*request*, *template_name='tardis_portal/create_experiment.html'*)

Create a new experiment view.

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP Request instance
- **template_name** (*string*) – the path of the template to render

Returns an `HttpResponse`

Return type `django.http.HttpResponse`

`tardis.tardis_portal.views.pages.edit_dataset` (*request*, *dataset_id*)

`tardis.tardis_portal.views.pages.facility_overview` (*request*)
summary of experiments in a facility

`tardis.tardis_portal.views.pages.healthz` (*request*)
returns that the server is alive

`tardis.tardis_portal.views.pages.my_data` (*request*)
show owned data with credential-based access

`tardis.tardis_portal.views.pages.public_data` (*request*)
list of public experiments

`tardis.tardis_portal.views.pages.shared` (*request*)
show shared data with credential-based access

`tardis.tardis_portal.views.pages.site_routed_view` (*request*, *default_view*,
site_mappings, **args*, ***kwargs*)

Allows a view to be overridden based on the Site (eg domain) for the current request. Takes a default fallback view (*default_view*) and a dictionary mapping Django Sites (domain name or int `SITE_ID`) to views. If the current request matches a Site in the dictionary, that view is used instead of the default.

The intention is to define {site: view} mappings in settings.py, and use this wrapper view in urls.py to allow a single URL to be routed to different views depending on the Site in the request.

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP request object
- **default_view** (`types.FunctionType | str`) – The default view if no Site in `site_mappings` matches the current Site.
- **site_mappings** (`dict`) – A dictionary mapping Django sites to views (sites are specified as either a domain name str or int `SITE_ID`).
- **args** –
- **kwargs** –

Returns A view function

Return type `types.FunctionType`

`tardis.tardis_portal.views.pages.stats` (*request*)

`tardis.tardis_portal.views.pages.use_rapid_connect` (*fn*)
A decorator that adds AAF Rapid Connect settings to a `get_context_data` method.

Parameters *fn* (`types.FunctionType`) – A `get_context_data` function/method.

Returns A `get_context_data` function that adds `RAPID_CONNECT_*` keys to its output context.

Return type `types.FunctionType`

`tardis.tardis_portal.views.pages.user_guide` (*request*)

tardis.tardis_portal.views.parameters module

views to do with metadata, parameters etc. Mostly ajax page inclusions

`tardis.tardis_portal.views.parameters.add_datafile_par` (*request*, *datafile_id*)

`tardis.tardis_portal.views.parameters.add_dataset_par` (*request*, *dataset_id*)

`tardis.tardis_portal.views.parameters.add_experiment_par` (*request*, *experiment_id*)

`tardis.tardis_portal.views.parameters.add_par` (*request*, *parentObject*, *otype*, *stype*)

`tardis.tardis_portal.views.parameters.edit_datafile_par` (*request*, *parameterset_id*)

```
tardis.tardis_portal.views.parameters.edit_dataset_par(request, parameterset_id)
tardis.tardis_portal.views.parameters.edit_experiment_par(request, parameterset_id)
tardis.tardis_portal.views.parameters.edit_parameters(request, parameterset, otype)
```

tardis.tardis_portal.views.upload module

views for uploading files via HTTP

```
tardis.tardis_portal.views.upload.upload_complete(request, template_name='tardis_portal/upload_complete.html')
```

The ajax-loaded result of a file being uploaded

Parameters

- **request** (`django.http.HttpRequest`) – a HTTP Request instance
- **template_name** (`string`) – the path of the template to render

Returns an `HttpResponse`

Return type `django.http.HttpResponse`

tardis.tardis_portal.views.utils module

helper functions used by other views

```
class tardis.tardis_portal.views.utils.HttpResponseMethodNotAllowed(*args, **kwargs)
```

Bases: `django.http.response.HttpResponse`

status_code = 303

```
class tardis.tardis_portal.views.utils.HttpResponseSeeAlso(redirect_to, *args, **kwargs)
```

Bases: `django.http.response.HttpResponseRedirect`

status_code = 303

```
tardis.tardis_portal.views.utils.feedback(request)
```

```
tardis.tardis_portal.views.utils.get_dataset_info(dataset, include_thumbnail=False, exclude=None)
```

```
tardis.tardis_portal.views.utils.remove_csrf_token(request)
```

rather than fixing the form code that loops over all POST entries indiscriminately, I am removing the csrf token with this hack. This is only required in certain form code and can be removed should this ever be fixed

Module contents

importing all views files here, so that any old code will work as expected, when importing from `tardis.tardis_portal.views`

Submodules

tardis.tardis_portal.ParameterSetManager module

```

class tardis.tardis_portal.ParameterSetManager.ParameterSetManager (parameterset=None,
                                                                    parentOb-
                                                                    ject=None,
                                                                    schema=None)

Bases: object

blank_param = None

delete_all_params ()

delete_params (parname)

get_param (parname, value=False)

get_params (parname, value=False)

get_schema ()

new_param (parname, value, fullparname=None)

parameters = None

parameterset = None

set_param (parname, value, fullparname=None, example_value=None)

set_param_list (parname, value_list, fullparname=None)

set_params_from_dict (params_dict)

```

tardis.tardis_portal.admin module

```

class tardis.tardis_portal.admin.DataFileObjectInline (parent_model, admin_site)
Bases: django.contrib.admin.options.TabularInline

extra = 0

form
  alias of DataFileObjectInlineForm

media

model
  alias of tardis.tardis_portal.models.datafile.DataFileObject

class tardis.tardis_portal.admin.DataFileObjectInlineForm (data=None, files=None,
                                                            auto_id='id_%s', pre-
                                                            fix=None, initial=None,
                                                            error_class=<class
                                                            'django.forms.utils.ErrorList'>,
                                                            label_suffix=None,
                                                            empty_permitted=False,
                                                            instance=None,
                                                            use_required_attribute=None,
                                                            renderer=None)

Bases: django.forms.models.ModelForm

```

```
class Meta
    Bases: object
    fields = '__all__'
    model
        alias of tardis.tardis_portal.models.datafile.DataFileObject
    widgets = {'uri': <django.forms.widgets.TextInput object>}
    base_fields = {'datafile': <django.forms.models.ModelChoiceField object>, 'last_verif
    declared_fields = {}
    media

class tardis.tardis_portal.admin.DatafileAdmin(model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    form
        alias of DatafileAdminForm
    inlines = [<class 'tardis.tardis_portal.admin.DataFileObjectInline'>]
    media
    search_fields = ['filename', 'id']

class tardis.tardis_portal.admin.DatafileAdminForm(data=None, files=None,
auto_id='id_%s', prefix=None,
initial=None, error_class=<class
'django.forms.utils.ErrorList'>,
label_suffix=None,
empty_permitted=False,
instance=None,
use_required_attribute=None,
renderer=None)
    Bases: django.forms.models.ModelForm

class Meta
    Bases: object
    fields = '__all__'
    model
        alias of tardis.tardis_portal.models.datafile.DataFile
    widgets = {'directory': <django.forms.widgets.TextInput object>}
    base_fields = {'created_time': <django.forms.fields.DateTimeField object>, 'dataset':
    declared_fields = {}
    media

class tardis.tardis_portal.admin.DatasetAdmin(model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    media
    search_fields = ['description', 'id']

class tardis.tardis_portal.admin.ExperimentAdmin(model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    inlines = [<class 'tardis.tardis_portal.admin.ObjectACLInline'>]
```

```

media
search_fields = ['title', 'id']
class tardis.tardis_portal.admin.ExperimentParameterInline (parent_model, ad-
                                                    min_site)
    Bases: django.contrib.admin.options.TabularInline
extra = 0
formfield_overrides = {<class 'django.db.models.fields.TextField'>: {'widget': <clas
media
model
    alias of tardis.tardis_portal.models.parameters.ExperimentParameter
class tardis.tardis_portal.admin.ExperimentParameterSetAdmin (model, ad-
                                                    min_site)
    Bases: django.contrib.admin.options.ModelAdmin
inlines = [<class 'tardis.tardis_portal.admin.ExperimentParameterInline'>]
media
class tardis.tardis_portal.admin.FacilityAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
media
search_fields = ['name']
class tardis.tardis_portal.admin.FreeTextSearchFieldAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
media
class tardis.tardis_portal.admin.InstrumentAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
media
search_fields = ['name']
class tardis.tardis_portal.admin.InstrumentParameterInline (parent_model, ad-
                                                    min_site)
    Bases: django.contrib.admin.options.TabularInline
extra = 0
media
model
    alias of tardis.tardis_portal.models.parameters.InstrumentParameter
class tardis.tardis_portal.admin.InstrumentParameterSetAdmin (model, ad-
                                                    min_site)
    Bases: django.contrib.admin.options.ModelAdmin
inlines = [<class 'tardis.tardis_portal.admin.InstrumentParameterInline'>]
media
class tardis.tardis_portal.admin.ObjectACLAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
list_display = ['__str__', 'pluginId', 'entityId', 'canRead', 'canWrite', 'canDelete',

```

```
media
    search_fields = ['content_type', 'object_id']
class tardis.tardis_portal.admin.ObjectACLInline (parent_model, admin_site)
    Bases: django.contrib.contenttypes.admin.GenericTabularInline
    extra = 0
media
model
    alias of tardis.tardis_portal.models.access_control.ObjectACL
class tardis.tardis_portal.admin.ParameterNameAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
media
    search_fields = ['name', 'schema__id']
class tardis.tardis_portal.admin.ParameterNameInline (parent_model, admin_site)
    Bases: django.contrib.admin.options.TabularInline
    extra = 0
media
model
    alias of tardis.tardis_portal.models.parameters.ParameterName
class tardis.tardis_portal.admin.SchemaAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    inlines = [<class 'tardis.tardis_portal.admin.ParameterNameInline'>]
media
    search_fields = ['name', 'namespace']
class tardis.tardis_portal.admin.StorageBoxAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    form
        alias of StorageBoxForm
    inlines = [<class 'tardis.tardis_portal.admin.StorageBoxOptionInline'>, <class 'tardis
media
    search_fields = ['name']
class tardis.tardis_portal.admin.StorageBoxAttributeInline (parent_model, admin_site)
    Bases: django.contrib.admin.options.TabularInline
    extra = 0
    form
        alias of StorageBoxAttributeInlineForm
media
model
    alias of tardis.tardis_portal.models.storage.StorageBoxAttribute
```

```

class tardis.tardis_portal.admin.StorageBoxAttributeInlineForm(data=None,
                                                            files=None,
                                                            auto_id='id_%s',
                                                            pre-
                                                            fix=None, ini-
                                                            tial=None, er-
                                                            ror_class=<class
                                                            'django.forms.utils.ErrorList'>,
                                                            la-
                                                            bel_suffix=None,
                                                            empty_permitted=False,
                                                            instance=None,
                                                            use_required_attribute=None,
                                                            ren-
                                                            derer=None)

Bases: django.forms.models.ModelForm

class Meta
  Bases: object
  fields = '__all__'
  model
    alias of tardis.tardis_portal.models.storage.StorageBoxAttribute
  widgets = {'key': <django.forms.widgets.TextInput object>, 'value': <django.forms
base_fields = {'key': <django.forms.fields.CharField object>, 'storage_box': <django
declared_fields = {}
media

class tardis.tardis_portal.admin.StorageBoxForm(data=None,          files=None,
auto_id='id_%s',          prefix=None,
initial=None,          error_class=<class
'django.forms.utils.ErrorList'>,
label_suffix=None,
empty_permitted=False,
instance=None,
use_required_attribute=None,    ren-
derer=None)

Bases: django.forms.models.ModelForm

class Meta
  Bases: object
  fields = '__all__'
  model
    alias of tardis.tardis_portal.models.storage.StorageBox
  widgets = {'description': <django.forms.widgets.TextInput object>, 'django_storage
base_fields = {'description': <django.forms.fields.CharField object>, 'django_storage
declared_fields = {}
media

class tardis.tardis_portal.admin.StorageBoxOptionInline(parent_model,          ad-
min_site)
  Bases: django.contrib.admin.options.TabularInline

```

```
extra = 0

form
    alias of StorageBoxOptionInlineForm

media

model
    alias of tardis.tardis_portal.models.storage.StorageBoxOption

class tardis.tardis_portal.admin.StorageBoxOptionInlineForm (data=None,
                                                            files=None,
                                                            auto_id='id_%s',
                                                            prefix=None,    ini-
                                                            tial=None,        er-
                                                            ror_class=<class
                                                            'django.forms.utils.ErrorList'>,
                                                            label_suffix=None,
                                                            empty_permitted=False,
                                                            instance=None,
                                                            use_required_attribute=None,
                                                            renderer=None)

Bases: django.forms.models.ModelForm

class Meta
    Bases: object

    fields = '__all__'

    model
        alias of tardis.tardis_portal.models.storage.StorageBoxOption

    widgets = {'key': <django.forms.widgets.TextInput object>, 'value': <django.forms

base_fields = {'key': <django.forms.fields.CharField object>, 'storage_box': <django

declared_fields = {}

media

class tardis.tardis_portal.admin.UserAuthenticationAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin

    media

    search_fields = ['username', 'authenticationMethod', 'UserProfile__user__username']
```

tardis.tardis_portal.api module

RESTful API for MyTardis models and data. Implemented with Tastypie.

```
class tardis.tardis_portal.api.ACLAuthorization
    Bases: tastypie.authorization.Authorization

    Authorisation class for Tastypie.

    create_detail (object_list, bundle)
        Returns either True if the user is allowed to create the object in question or throw Unauthorized if
        they are not.

        Returns True by default.
```

create_list (*object_list, bundle*)

Unimplemented, as Tastypie never creates entire new lists, but present for consistency & possible extension.

delete_detail (*object_list, bundle*)

Returns either `True` if the user is allowed to delete the object in question or throw `Unauthorized` if they are not.

Returns `True` by default.

delete_list (*object_list, bundle*)

Returns a list of all the objects a user is allowed to delete.

Should return an empty list if none are allowed.

Returns the entire list by default.

read_detail (*object_list, bundle*)

Returns either `True` if the user is allowed to read the object in question or throw `Unauthorized` if they are not.

Returns `True` by default.

read_list (*object_list, bundle*)

Returns a list of all the objects a user is allowed to read.

Should return an empty list if none are allowed.

Returns the entire list by default.

update_detail (*object_list, bundle*)

Latest TastyPie requires `update_detail` permissions to be able to create objects. Rather than duplicating code here, we'll just use the same authorization rules we use for `create_detail`.

update_list (*object_list, bundle*)

Returns a list of all the objects a user is allowed to update.

Should return an empty list if none are allowed.

Returns the entire list by default.

class `tardis.tardis_portal.api.DataFileResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.MyTardisModelResource`

class `Meta`

Bases: `tardis.tardis_portal.api.Meta`

`filtering = {'dataset': 2, 'directory': ('exact', 'startswith'), 'filename': ('e`

`object_class`

alias of `tardis.tardis_portal.models.datafile.DataFile`

`ordering = ['id', 'filename', 'modification_time']`

`queryset`

`resource_name = 'dataset_file'`

`base_fields = {'created_time': <tastypie.fields.DateTimeField object>, 'datafile': <`

`declared_fields = {'datafile': <tastypie.fields.FileField object>, 'dataset': <tasty`

`deserialize` (*request, data, format=None*)

from <https://github.com/toastdriven/django-tastypie/issues/42> modified to deserialize json sent via POST.

Would fail if data is sent in a different format. uses a hack to get back pure json from request.POST

download_file (*request*, ***kwargs*)

curl needs the -J switch to get the filename right auth needs to be added manually here

hydrate (*bundle*)

A hook to allow an initial manipulation of data before all methods/fields have built out the hydrated data.

Useful if you need to access more than one hydrated field or want to annotate on additional data.

Must return the modified bundle.

obj_create (*bundle*, ***kwargs*)

Creates a new DataFile object from the provided bundle.data dict.

If a duplicate key error occurs, responds with HTTP Error 409: CONFLICT

post_list (*request*, ***kwargs*)

Creates a new resource/object with the provided data.

Calls `obj_create` with the provided data and returns a response with the new resource's location.

If a new resource is created, return `HttpCreated` (201 Created). If `Meta.always_return_data = True`, there will be a populated body of serialized data.

prepend_urls ()

A hook for adding your own URLs or matching before the default URLs.

put_detail (*request*, ***kwargs*)

from <https://github.com/toastdriven/django-tastypie/issues/42>

temp_url = None

verify_file (*request*, ***kwargs*)

triggers verification of file, e.g. after non-POST upload complete

class `tardis.tardis_portal.api.DatafileParameterResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.ParameterResource`

class `Meta`

Bases: `tardis.tardis_portal.api.Meta`

object_class

alias of `tardis.tardis_portal.models.parameters.DatafileParameter`

queryset

base_fields = {'datetime_value': <tastypie.fields.DateTimeField object>, 'id': <tastypie.fields.IntegerField object>}

declared_fields = {'parameterset': <tastypie.fields.ForeignKey object>}

class `tardis.tardis_portal.api.DatafileParameterSetResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.ParameterSetResource`

class `Meta`

Bases: `tardis.tardis_portal.api.Meta`

object_class

alias of `tardis.tardis_portal.models.parameters.DatafileParameterSet`

queryset

base_fields = {'datafile': <tastypie.fields.ForeignKey object>, 'id': <tastypie.fields.IntegerField object>}

declared_fields = {'datafile': <tastypie.fields.ForeignKey object>, 'parameters': <tastypie.fields.ForeignKey object>}

class `tardis.tardis_portal.api.DatasetParameterResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.ParameterResource`

```

class Meta
    Bases: tardis.tardis_portal.api.Meta

    object_class
        alias of tardis.tardis_portal.models.parameters.DatasetParameter

    queryset

base_fields = {'datetime_value': <tastypie.fields.DateTimeField object>, 'id': <tastypie.fields.IntegerField object>}
declared_fields = {'parameterset': <tastypie.fields.ForeignKey object>}
class tardis.tardis_portal.api.DatasetParameterSetResource (api_name=None)
    Bases: tardis.tardis_portal.api.ParameterSetResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        object_class
            alias of tardis.tardis_portal.models.parameters.DatasetParameterSet

        queryset

base_fields = {'dataset': <tastypie.fields.ForeignKey object>, 'id': <tastypie.fields.IntegerField object>}
declared_fields = {'dataset': <tastypie.fields.ForeignKey object>, 'parameters': <tastypie.fields.ManyToManyField object>}
class tardis.tardis_portal.api.DatasetResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        always_return_data = True

        filtering = {'description': ('exact',), 'directory': ('exact',), 'experiments': ('exact',)}

        object_class
            alias of tardis.tardis_portal.models.dataset.Dataset

        ordering = ['id', 'description']

        queryset

base_fields = {'created_time': <tastypie.fields.DateTimeField object>, 'description': <tastypie.fields.CharField object>}
declared_fields = {'experiments': <tastypie.fields.ToManyField object>, 'instrument': <tastypie.fields.CharField object>}

dehydrate (bundle)
    A hook to allow a final manipulation of data once all fields/methods have built out the dehydrated data.

    Useful if you need to access more than one dehydrated field or want to annotate on additional data.

    Must return the modified bundle.

get_child_dir_files (request, **kwargs)
    Return a list of datafile Ids within a child subdirectory :param request: a HTTP Request instance :type request: django.http.HttpRequest :param kwargs: :return: a list of datafile IDs :rtype: JsonResponse
    response: :class: django.http.JsonResponse

get_child_dir_nodes (request, **kwargs)
    Return JSON-serialized list of filenames/folders within a child subdirectory

get_datafiles (request, **kwargs)

get_root_dir_nodes (request, **kwargs)
    Return JSON-serialized list of filenames/folders in the dataset's root directory

```

hydrate_m2m (*bundle*)

Create experiment-dataset associations first, because they affect authorization for adding other related resources, e.g. metadata

prepend_urls ()

A hook for adding your own URLs or matching before the default URLs.

class `tardis.tardis_portal.api.ExperimentAuthorResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.MyTardisModelResource`

API for ExperimentAuthors

class `Meta`

Bases: `tardis.tardis_portal.api.Meta`

always_return_data = True

filtering = {'author': ('exact', 'iexact'), 'email': ('exact', 'iexact'), 'experiment': ('exact', 'iexact')}

object_class

alias of `tardis.tardis_portal.models.experiment.ExperimentAuthor`

ordering = ['id', 'author', 'email', 'order']

queryset

base_fields = {'author': <tastypie.fields.CharField object>, 'email': <tastypie.fields.CharField object>, 'experiment': <tastypie.fields.ForeignKey object>}

declared_fields = {'experiment': <tastypie.fields.ForeignKey object>}

class `tardis.tardis_portal.api.ExperimentParameterResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.ParameterResource`

class `Meta`

Bases: `tardis.tardis_portal.api.Meta`

object_class

alias of `tardis.tardis_portal.models.parameters.ExperimentParameter`

queryset

base_fields = {'datetime_value': <tastypie.fields.DateTimeField object>, 'id': <tastypie.fields.IntegerField object>, 'parameter_set': <tastypie.fields.ForeignKey object>}

declared_fields = {'parameter_set': <tastypie.fields.ForeignKey object>}

class `tardis.tardis_portal.api.ExperimentParameterSetResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.ParameterSetResource`

API for ExperimentParameterSets

class `Meta`

Bases: `tardis.tardis_portal.api.Meta`

object_class

alias of `tardis.tardis_portal.models.parameters.ExperimentParameterSet`

queryset

base_fields = {'experiment': <tastypie.fields.ForeignKey object>, 'id': <tastypie.fields.IntegerField object>, 'parameters': <tastypie.fields.ManyToManyField object>}

declared_fields = {'experiment': <tastypie.fields.ForeignKey object>, 'parameters': <tastypie.fields.ManyToManyField object>}

class `tardis.tardis_portal.api.ExperimentResource` (*api_name=None*)

Bases: `tardis.tardis_portal.api.MyTardisModelResource`

API for Experiments also creates a default ACL and allows ExperimentParameterSets to be read and written.

TODO: catch duplicate schema submissions for parameter sets

class Meta

Bases: `tardis.tardis_portal.api.Meta`

`always_return_data = True`

`filtering = {'id': ('exact',), 'title': ('exact',)}`

`object_class`

alias of `tardis.tardis_portal.models.experiment.Experiment`

`ordering = ['id', 'title', 'created_time', 'update_time']`

`queryset`

`base_fields = {'approved': <tastypie.fields.BooleanField object>, 'created_by': <tas`

`declared_fields = {'created_by': <tastypie.fields.ForeignKey object>, 'parameter_sets`

`dehydrate (bundle)`

A hook to allow a final manipulation of data once all fields/methods have built out the dehydrated data.

Useful if you need to access more than one dehydrated field or want to annotate on additional data.

Must return the modified bundle.

`hydrate_m2m (bundle)`

create ACL before any related objects are created in order to use ACL permissions for those objects.

`obj_create (bundle, **kwargs)`

experiments need at least one ACL to be available through the ExperimentManager (Experiment.safe)

Currently not tested for failed db transactions as sqlite does not enforce limits.

class `tardis.tardis_portal.api.FacilityResource (api_name=None)`

Bases: `tardis.tardis_portal.api.MyTardisModelResource`

class Meta

Bases: `tardis.tardis_portal.api.Meta`

`always_return_data = True`

`filtering = {'id': ('exact',), 'manager_group': 2, 'name': ('exact',)}`

`object_class`

alias of `tardis.tardis_portal.models.facility.Facility`

`ordering = ['id', 'name']`

`queryset`

`base_fields = {'created_time': <tastypie.fields.DateTimeField object>, 'id': <tastyp`

`declared_fields = {'manager_group': <tastypie.fields.ForeignKey object>}`

class `tardis.tardis_portal.api.GroupResource (api_name=None)`

Bases: `tastypie.resources.ModelResource`

class Meta

Bases: `object`

`authentication = <tardis.tardis_portal.api.MyTardisAuthentication object>`

`authorization`

Authorisation class for Tastypie.

`filtering = {'id': ('exact',), 'name': ('exact',)}`

```
    object_class
        alias of django.contrib.auth.models.Group

    queryset

    base_fields = {'id': <tastypie.fields.IntegerField object>, 'name': <tastypie.fields

    declared_fields = {}

class tardis.tardis_portal.api.InstrumentResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        always_return_data = True

        filtering = {'facility': 2, 'id': ('exact',), 'name': ('exact',)}

        object_class
            alias of tardis.tardis_portal.models.instrument.Instrument

        ordering = ['id', 'name']

        queryset

    base_fields = {'created_time': <tastypie.fields.DateTimeField object>, 'facility': <

    declared_fields = {'facility': <tastypie.fields.ForeignKey object>}

class tardis.tardis_portal.api.LocationResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        queryset

    base_fields = {'resource_uri': <tastypie.fields.CharField object>}

    declared_fields = {}

class tardis.tardis_portal.api.MyTardisAuthentication
    Bases: object

    custom tastypie authentication that works with both anonymous use and a number of available auth mechanisms.

    get_identifier (request)

    is_authenticated (request, **kwargs)
        handles backends explicitly so that it can return False when credentials are given but wrong and return
        Anonymous User when credentials are not given or the session has expired (web use).

class tardis.tardis_portal.api.MyTardisModelResource (api_name=None)
    Bases: tastypie.resources.ModelResource

    class Meta
        Bases: object

        authentication = <tardis.tardis_portal.api.MyTardisAuthentication object>

        authorization
            Authorisation class for Tastypie.

        object_class = None
```

```

    serializer = <tardis.tardis_portal.api.PrettyJSONSerializer object>
    base_fields = {'resource_uri': <tastypie.fields.CharField object>}
    declared_fields = {}
class tardis.tardis_portal.api.ObjectACLResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: object

        authentication = <tardis.tardis_portal.api.MyTardisAuthentication object>

        authorization
            Authorisation class for Tastypie.

        filtering = {'entityId': ('exact',), 'pluginId': ('exact',)}

        object_class
            alias of tardis.tardis_portal.models.access_control.ObjectACL

        ordering = ['id']

        queryset

    base_fields = {'aclOwnershipType': <tastypie.fields.IntegerField object>, 'canDelete'
    declared_fields = {'content_object': <tastypie.contrib.contenttypes.fields.GenericForm

hydrate (bundle)
    A hook to allow an initial manipulation of data before all methods/fields have built out the hydrated data.
    Useful if you need to access more than one hydrated field or want to annotate on additional data.
    Must return the modified bundle.

class tardis.tardis_portal.api.ParameterNameResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        filtering = {'schema': 2}

        object_class
            alias of tardis.tardis_portal.models.parameters.ParameterName

        queryset

    base_fields = {'choices': <tastypie.fields.CharField object>, 'comparison_type': <ta
    declared_fields = {'schema': <tastypie.fields.ForeignKey object>}

class tardis.tardis_portal.api.ParameterResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    base_fields = {'name': <tastypie.fields.ForeignKey object>, 'resource_uri': <tastypi
    declared_fields = {'name': <tastypie.fields.ForeignKey object>, 'value': <tastypie.f

hydrate (bundle)
    sets the parametername by uri or name if untyped value is given, set value via parameter method, otherwise
    use modelresource automatisms

class tardis.tardis_portal.api.ParameterSetResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

```

```
base_fields = {'resource_uri': <tastypie.fields.CharField object>, 'schema': <tastypie.fields.ForeignKey object>}
declared_fields = {'schema': <tastypie.fields.ForeignKey object>}
hydrate_schema (bundle)

class tardis.tardis_portal.api.PrettyJSONSerializer (formats=None, content_types=None, date-time_formatting=None)
Bases: tastypie.serializers.Serializer
json_indent = 2
to_json (data, options=None)
    Given some Python data, produces JSON output.

class tardis.tardis_portal.api.ReplicaResource (api_name=None)
Bases: tardis.tardis_portal.api.MyTardisModelResource

class Meta
    Bases: tardis.tardis_portal.api.Meta
    filtering = {'url': ('exact', 'startswith'), 'verified': ('exact',)}
    object_class
        alias of tardis.tardis_portal.models.datafile.DataFileObject
    ordering = ['id']
    queryset

base_fields = {'created_time': <tastypie.fields.DateTimeField object>, 'datafile': <tastypie.fields.ForeignKey object>}
declared_fields = {'datafile': <tastypie.fields.ForeignKey object>}
dehydrate (bundle)
    A hook to allow a final manipulation of data once all fields/methods have built out the dehydrated data.
    Useful if you need to access more than one dehydrated field or want to annotate on additional data.
    Must return the modified bundle.

hydrate (bundle)
    A hook to allow an initial manipulation of data before all methods/fields have built out the hydrated data.
    Useful if you need to access more than one hydrated field or want to annotate on additional data.
    Must return the modified bundle.

class tardis.tardis_portal.api.SchemaResource (api_name=None)
Bases: tardis.tardis_portal.api.MyTardisModelResource

class Meta
    Bases: tardis.tardis_portal.api.Meta
    filtering = {'id': ('exact',), 'namespace': ('exact',)}
    object_class
        alias of tardis.tardis_portal.models.parameters.Schema
    ordering = ['id']
    queryset

base_fields = {'hidden': <tastypie.fields.BooleanField object>, 'id': <tastypie.fields.IntegerField object>}
declared_fields = {}
```

```

class tardis.tardis_portal.api.StorageBoxAttributeResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        object_class
            alias of tardis.tardis_portal.models.storage.StorageBoxAttribute

        ordering = ['id']

        queryset

    base_fields = {'id': <tastypie.fields.IntegerField object>, 'key': <tastypie.fields.
    declared_fields = {'storage_box': <tastypie.fields.ForeignKey object>}

class tardis.tardis_portal.api.StorageBoxOptionResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        object_class
            alias of tardis.tardis_portal.models.storage.StorageBoxOption

        ordering = ['id']

        queryset

    accessible_keys = ['location']

    base_fields = {'id': <tastypie.fields.IntegerField object>, 'key': <tastypie.fields.
    declared_fields = {'storage_box': <tastypie.fields.ForeignKey object>}

class tardis.tardis_portal.api.StorageBoxResource (api_name=None)
    Bases: tardis.tardis_portal.api.MyTardisModelResource

    class Meta
        Bases: tardis.tardis_portal.api.Meta

        object_class
            alias of tardis.tardis_portal.models.storage.StorageBox

        ordering = ['id']

        queryset

    base_fields = {'attributes': <tastypie.fields.ToManyField object>, 'description': <t
    declared_fields = {'attributes': <tastypie.fields.ToManyField object>, 'options': <t

class tardis.tardis_portal.api.UserResource (api_name=None)
    Bases: tastypie.resources.ModelResource

    class Meta
        Bases: object

        allowed_methods = ['get']

        authentication = <tardis.tardis_portal.api.MyTardisAuthentication object>

        authorization
            Authorisation class for Tastypie.

        fields = ['username', 'first_name', 'last_name', 'email']

```

```
filtering = {'email': ('iexact',), 'username': ('exact',)}
object_class
    alias of django.contrib.auth.models.User
queryset
serializer = <tardis.tardis_portal.api.PrettyJSONSerializer object>
base_fields = {'email': <tastypie.fields.CharField object>, 'first_name': <tastypie.
declared_fields = {'groups': <tastypie.fields.ManyToManyField object>}
dehydrate (bundle)
    use cases:
```

```
public user:
    anonymous:
        name, uri, email, id
    authenticated:
        other user:
            name, uri, email, id [, username if facility manager]
        same user:
            name, uri, email, id, username
private user:
    anonymous:
        none
    authenticated:
        other user:
            name, uri, id [, username, email if facility manager]
        same user:
            name, uri, email, id, username
```

tardis.tardis_portal.context_processors module

```
tardis.tardis_portal.context_processors.global_contexts (request)
tardis.tardis_portal.context_processors.google_analytics (request)
    adds context for portal_template.html
tardis.tardis_portal.context_processors.registration_processor (request)
tardis.tardis_portal.context_processors.single_search_processor (request)
tardis.tardis_portal.context_processors.user_details_processor (request)
tardis.tardis_portal.context_processors.user_menu_processor (request)
```

tardis.tardis_portal.deprecations module

Deprecation warnings

exception tardis.tardis_portal.deprecations.RemovedInMyTardis42Warning

Bases: `DeprecationWarning`

Used to raise warnings about deprecated functionality.

Usage:

```
import warnings

warnings.warn(
    "This method will be removed in MyTardis 4.2. "
    "Please use method2 instead.",
    RemovedInMyTardis42Warning
)
```

exception `tardis.tardis_portal.deprecations.RemovedInMyTardis43Warning`
 Bases: `PendingDeprecationWarning`

Used to raise warnings about deprecated functionality.

Usage:

```
import warnings

warnings.warn(
    "This method will be removed in MyTardis 4.3. "
    "Please use method2 instead.",
    RemovedInMyTardis43Warning
)
```

`tardis.tardis_portal.download` module

`download.py`

class `tardis.tardis_portal.download.UncachedTarStream` (*mapped_file_objs, filename, do_gzip=False, buffer-size=131072, comp_level=6, http_buffersize=65535*)

Bases: `tarfile.TarFile`

Stream files into a compressed tar stream on the fly

close_gzip ()

compress (*buf*)

compute_size ()

get_response (*tracker_data=None*)

make_tar ()

main tar generator. until python 3 needs to be in one function because 'yield's don't bubble up.

prepare_output (*uc_buf, remainder*)

tarinfo_for_df (*df, name*)

`tardis.tardis_portal.download.classic_mapper` (*rootdir*)

`tardis.tardis_portal.download.download_api_key` (*request*)

`tardis.tardis_portal.download.download_datafile` (*request, datafile_id*)

`tardis.tardis_portal.download.get_download_organizations` ()

`tardis.tardis_portal.download.make_mapper` (*organization, rootdir*)

`tardis.tardis_portal.download.streaming_download_datafiles` (*request*)
takes string parameter “comptype” for compression method. Currently implemented: “tgz” and “tar” The datafiles to be downloaded are selected using “datafile”, “dataset” or “url” parameters. An “expid” parameter may be supplied for use in the download archive name. If “url” is used, the “expid” parameter is also used to limit the datafiles to be downloaded to a given experiment.

`tardis.tardis_portal.download.view_datafile` (*request, datafile_id*)

tardis.tardis_portal.email module

`tardis.tardis_portal.email.build_template_html` (*template_filename, context*)

`tardis.tardis_portal.email.build_template_text` (*template_filename, context*)

`tardis.tardis_portal.email.email_user` (*subject, template_filename, context, user*)

tardis.tardis_portal.fields module

```
class tardis.tardis_portal.fields.MultiValueCommaSeparatedField(fields, *, require_all_fields=True, **kwargs)
```

Bases: `django.forms.fields.MultiValueField`

compress (*data_list*)

Return a single value for the given list of values. The values can be assumed to be valid.

For example, if this MultiValueField was instantiated with `fields=(DateField(), TimeField())`, this might return a datetime object created by combining the date and time in `data_list`.

tardis.tardis_portal.forms module

forms module

```
class tardis.tardis_portal.forms.AddUserPermissionsForm(data=None, files=None, auto_id='id_%s', prefix=None, initial=None, error_class=<class 'django.forms.utils.ErrorList'>, label_suffix=None, empty_permitted=False, field_order=None, use_required_attribute=None, renderer=None)
```

Bases: `django.forms.forms.Form`

base_fields = {'authMethod': <django.forms.fields.CharField object>, 'autocomp_user':

declared_fields = {'authMethod': <django.forms.fields.CharField object>, 'autocomp_us

media

```

class tardis.tardis_portal.forms.CreateUserPermissionsForm (data=None,
                                                            files=None,
                                                            auto_id='id_%s',
                                                            prefix=None,    ini-
                                                            tial=None,        er-
                                                            ror_class=<class
                                                            'django.forms.utils.ErrorList'>,
                                                            label_suffix=None,
                                                            empty_permitted=False,
                                                            field_order=None,
                                                            use_required_attribute=None,
                                                            renderer=None)

```

Bases: *tardis.tardis_portal.forms.RegistrationForm*

```
base_fields = {'authMethod': <django.forms.fields.CharField object>, 'email': <django
```

```
declared_fields = {'authMethod': <django.forms.fields.CharField object>, 'email': <d
```

```
media
```

```

class tardis.tardis_portal.forms.DatasetForm (data=None,
                                                files=None,
                                                auto_id='id_%s',  prefix=None,  ini-
                                                tial=None,        error_class=<class
                                                'django.forms.utils.ErrorList'>,
                                                label_suffix=None,
                                                empty_permitted=False,  instance=None,
                                                use_required_attribute=None,      ren-
                                                derer=None)

```

Bases: *django.forms.models.ModelForm*

```
class Meta
```

```
    Bases: object
```

```
    fields = ['description', 'directory', 'instrument']
```

```
    model
```

```
        alias of tardis.tardis_portal.models.dataset.Dataset
```

```
base_fields = {'description': <django.forms.fields.CharField object>, 'directory': <
```

```
declared_fields = {'description': <django.forms.fields.CharField object>}
```

```
media
```

```

class tardis.tardis_portal.forms.ExperimentAuthor (data=None,
                                                    files=None,
                                                    auto_id='id_%s',  prefix=None,
                                                    initial=None,  error_class=<class
                                                    'django.forms.utils.ErrorList'>,
                                                    label_suffix=None,
                                                    empty_permitted=False,
                                                    instance=None,
                                                    use_required_attribute=None,
                                                    renderer=None)

```

Bases: *django.forms.models.ModelForm*

```
class Meta
```

```
    Bases: object
```

```
    fields = ['author', 'institution', 'email', 'order', 'url']
```

```
    model
```

```
        alias of tardis.tardis_portal.models.experiment.ExperimentAuthor
```

```
base_fields = {'author': <django.forms.fields.CharField object>, 'email': <django.fo
```

```
declared_fields = {}
```

media

```
class tardis.tardis_portal.forms.ExperimentForm (data=None, files=None,
auto_id='%s', prefix=None, initial=None, error_class=<class
'django.forms.utils.ErrorList'>,
label_suffix=':',
empty_permitted=False, instance=None, extra=0)
```

Bases: `django.forms.models.ModelForm`

This handles the complex experiment forms.

All internal datasets forms are prefixed with `dataset_`, and all internal dataset file fields are prefixed with `file_`. These are parsed out of the post data and added to the form as internal lists.

```
class FullExperiment (**kwargs)
```

Bases: `collections.UserDict`

This is a dict wrapper that store the values returned from the `tardis.tardis_portal.forms.ExperimentForm.save()` function. It provides a convenience method for saving the model objects.

```
save_m2m()
```

```
{'experiment': experiment, 'experiment_authors': experiment_authors, 'authors': authors, 'datasets':
datasets, 'datafiles': datafiles}
```

```
class Meta
```

Bases: `object`

```
fields = ('title', 'institution_name', 'description')
```

```
model
```

alias of `tardis.tardis_portal.models.experiment.Experiment`

```
base_fields = {'description': <django.forms.fields.CharField object>, 'institution_na
```

```
declared_fields = {'url': <django.forms.fields.CharField object>}
```

```
is_valid()
```

Test the validity of the form, the form may be invalid even if the error attribute has no contents. This is because the returned value is dependent on the validity of the nested forms.

This validity also takes into account foreign keys that might be dependent on an unsaved model.

Returns validity

Return type `bool`

media

```
save (commit=True)
```

Save this form's self.instance object if `commit=True`. Otherwise, add a `save_m2m()` method to the form which can be called after the instance is saved manually at a later time. Return the model instance.

```

class tardis.tardis_portal.forms.ImportParamsForm(data=None, files=None,
auto_id='id_%s', prefix=None,
initial=None, error_class=<class
'django.forms.utils.ErrorList'>,
label_suffix=None,
empty_permitted=False,
field_order=None,
use_required_attribute=None,
renderer=None)

Bases: django.forms.forms.Form

base_fields = {'params': <django.forms.fields.FileField object>, 'password': <django
declared_fields = {'params': <django.forms.fields.FileField object>, 'password': <dj
media

class tardis.tardis_portal.forms.LoginForm(*args, **kwargs)
Bases: django.contrib.auth.forms.AuthenticationForm

base_fields = {'password': <django.forms.fields.CharField object>, 'username': <djan
declared_fields = {'password': <django.forms.fields.CharField object>, 'username': <
media

class tardis.tardis_portal.forms.ManageAccountForm(data=None, files=None,
auto_id='id_%s', prefix=None,
initial=None, error_class=<class
'django.forms.utils.ErrorList'>,
label_suffix=None,
empty_permitted=False,
instance=None,
use_required_attribute=None,
renderer=None)

Bases: django.forms.models.ModelForm

Form for changing account details.

class Meta
Bases: object

fields = ('first_name', 'last_name', 'email')

model
alias of django.contrib.auth.models.User

base_fields = {'email': <django.forms.fields.EmailField object>, 'first_name': <djan
declared_fields = {}

media

```

```
class tardis.tardis_portal.forms.ManageGroupPermissionsForm (data=None,
                                                         files=None,
                                                         auto_id='id_%s',
                                                         prefix=None, initial=None,
                                                         error_class=<class
                                                         'django.forms.utils.ErrorList'>,
                                                         label_suffix=None,
                                                         empty_permitted=False,
                                                         field_order=None,
                                                         use_required_attribute=None,
                                                         renderer=None)

Bases: django.forms.forms.Form

base_fields = {'adduser': <django.forms.fields.CharField object>, 'admin': <django.f
declared_fields = {'adduser': <django.forms.fields.CharField object>, 'admin': <djan
media
```

```
class tardis.tardis_portal.forms.NoInput (attrs=None)
```

Bases: django.forms.widgets.Widget

media

render (name, value, attrs=None)

Render the widget as an HTML string.

```
class tardis.tardis_portal.forms.RegisterExperimentForm (data=None, files=None,
                                                         auto_id='id_%s', prefix=None,
                                                         initial=None,
                                                         error_class=<class
                                                         'django.forms.utils.ErrorList'>,
                                                         label_suffix=None,
                                                         empty_permitted=False,
                                                         field_order=None,
                                                         use_required_attribute=None,
                                                         renderer=None)

Bases: django.forms.forms.Form

base_fields = {'experiment_owner': <django.forms.fields.CharField object>, 'from_url'
declared_fields = {'experiment_owner': <django.forms.fields.CharField object>, 'from_
media
```

```
class tardis.tardis_portal.forms.RegistrationForm (data=None, files=None,
                                                         auto_id='id_%s', prefix=None,
                                                         initial=None, error_class=<class
                                                         'django.forms.utils.ErrorList'>,
                                                         label_suffix=None,
                                                         empty_permitted=False,
                                                         field_order=None,
                                                         use_required_attribute=None,
                                                         renderer=None)
```

Bases: django.forms.forms.Form

Form for registering a new user account.

Validates that the requested username is not already in use, and requires the password to be entered twice to catch typos.

Subclasses should feel free to add any additional validation they need, but should avoid defining a `save()` method – the actual saving of collected user data is delegated to the active registration backend.

```
base_fields = {'email': <django.forms.fields.EmailField object>, 'password1': <django
```

```
clean()
```

Verify that the values entered into the two password fields match. Note that an error here will end up in `non_field_errors()` because it doesn't apply to a single field.

```
clean_username()
```

Validate that the username is alphanumeric and is not already in use.

```
declared_fields = {'email': <django.forms.fields.EmailField object>, 'password1': <d
```

```
media
```

```
save(profile_callback=None)
```

```
class tardis.tardis_portal.forms.RightsForm(data=None, files=None,
                                           auto_id='id_%s', prefix=None, ini-
                                           tial=None, error_class=<class
                                           'django.forms.utils.ErrorList'>,
                                           label_suffix=None,
                                           empty_permitted=False, instance=None,
                                           use_required_attribute=None, ren-
                                           derer=None)
```

Bases: `django.forms.models.ModelForm`

Form for changing public access and licence.

```
class Meta
```

Bases: `object`

```
fields = ('public_access', 'license', 'legal_text')
```

```
model
```

alias of `tardis.tardis_portal.models.experiment.Experiment`

```
widgets = {'license': <django.forms.widgets.HiddenInput object>}
```

```
base_fields = {'legal_text': <django.forms.fields.CharField object>, 'license': <dja
```

```
clean()
```

Hook for doing any extra form-wide cleaning after `Field.clean()` has been called on every field. Any `ValidationError` raised by this method will not be associated with a particular field; it will have a special-case association with the field named `'__all__'`.

```
declared_fields = {'legal_text': <django.forms.fields.CharField object>}
```

```
media
```

```
class tardis.tardis_portal.forms.StaticField(*, required=True, widget=None,
                                             label=None, initial=None,
                                             help_text="", error_messages=None,
                                             show_hidden_initial=False, valida-
                                             tors=(), localize=False, disabled=False,
                                             label_suffix=None)
```

Bases: `django.forms.fields.Field`

```
clean(value)
```

Validate the given value and return its “cleaned” value as an appropriate Python object. Raise `ValidationError` for any errors.

widget

alias of *NoInput*

`tardis.tardis_portal.forms.createLinkedUserAuthenticationForm(authMethods)`
Create a `LinkedUserAuthenticationForm` and use the contents of `authMethods` to the list of options in the drop-down menu for `authenticationMethod`.

`tardis.tardis_portal.forms.create_parameter_add_form(schema, parentObject, request=None)`

`tardis.tardis_portal.forms.create_parameterset_edit_form(parameterset, request=None)`

`tardis.tardis_portal.forms.getAuthMethodChoices()`

`tardis.tardis_portal.forms.save_parameter_add_form(schema, parentObject, request)`

`tardis.tardis_portal.forms.save_parameter_edit_form(parameterset, request)`

tardis.tardis_portal.iiif module

`tardis.tardis_portal.iiif.compliance_header(f)`

`tardis.tardis_portal.iiif.compute_etag(request, datafile_id, *args, **kwargs)`

`tardis.tardis_portal.iiif.download_image(*args, **kwargs)`

`tardis.tardis_portal.iiif.download_info(*args, **kwargs)`

tardis.tardis_portal.logging_middleware module

class `tardis.tardis_portal.logging_middleware.LoggingMiddleware(get_response)`
Bases: `object`

process_exception (`request, exception`)

process_response (`request, response`)

`tardis.tardis_portal.logging_middleware.get_client_ip(request)`

tardis.tardis_portal.managers module

managers.py

class `tardis.tardis_portal.managers.ExperimentManager`
Bases: `tardis.tardis_portal.managers.OracleSafeManager`

Implements a custom manager for the `Experiment` model which checks the authorisation rules for the requesting user first

To make this work, the request must be passed to all class functions. The username and the group memberships are then resolved via the `user.userprofile.ext_groups` and `user` objects.

The `tardis.tardis_portal.auth.AuthService` is responsible for filling the `request.groups` object.

all (`user`)

Returns all experiments a user - either authenticated or anonymous - is allowed to see and search

Parameters `user` (`User`) – a `User` instance

Returns `QuerySet` of `Experiments`

Return type QuerySet

external_users (*experiment_id*)

returns a list of groups which have external ACL rules

Parameters **experiment_id** (*int*) – the ID of the experiment to be edited

Returns list of groups with external ACLs

Return type *list*

get (*user, experiment_id*)

Returns an experiment under the consideration of the ACL rules Raises PermissionDenied if the user does not have access.

Parameters

- **user** (*User*) – a User instance
- **experiment_id** (*int*) – the ID of the experiment to be edited

Returns Experiment

Return type *Experiment*

Raises **PermissionDenied** –

group_acls_system_owned (*experiment_id*)

Returns a list of ACL rules associated with this experiment.

Parameters **experiment_id** (*int*) – the ID of the experiment

Returns QuerySet of system-owned ACLs for experiment

Return type QuerySet

group_acls_user_owned (*experiment_id*)

Returns a list of ACL rules associated with this experiment.

Parameters **experiment_id** (*int*) – the ID of the experiment

Returns QuerySet of ACLs

Return type QuerySet

owned (*user*)

Return all experiments which are owned by a particular user, including those shared with a group of which the user is a member.

Parameters **user** (*User*) – a User instance

Returns QuerySet of Experiments owned by user

Return type QuerySet

owned_and_shared (*user*)

owned_by_group (*group*)

Return all experiments that are owned by a particular group

owned_by_user (*user*)

Return all experiments which are owned by a particular user id

Parameters **user** (*User*) – a User Object

Returns QuerySet of Experiments owned by user

Return type QuerySet

owned_by_user_id (*userId*)

Return all experiments which are owned by a particular user id

Parameters **userId** (*int*) – a User ID

Returns QuerySet of Experiments owned by user id

Return type QuerySet

public ()

shared (*user*)

system_owned_groups (*experiment_id*)

returns a list of sytem-owned groups which have ACL rules associated with this experiment

Parameters **experiment_id** (*string*) – the ID of the experiment to be edited

Returns system owned groups for experiment

Return type QuerySet

user_acls (*experiment_id*)

Returns a list of ACL rules associated with this experiment.

Parameters **experiment_id** (*string*) – the ID of the experiment

Returns QuerySet of ACLs

Return type QuerySet

user_owned_groups (*experiment_id*)

returns a list of user owned-groups which have ACL rules associated with this experiment

Parameters **experiment_id** (*int*) – the ID of the experiment to be edited

Returns QuerySet of non system Groups

Return type QuerySet

users (*experiment_id*)

Returns a list of users who have ACL rules associated with this experiment.

Parameters **experiment_id** (*int*) – the ID of the experiment

Returns QuerySet of Users with experiment access

Return type QuerySet

class tardis.tardis_portal.managers.**OracleSafeManager**

Bases: django.db.models.manager.Manager

Implements a custom manager which automatically defers the retrieval of any TextField fields on calls to get_queryset. This is to avoid the known issue that ‘distinct’ calls on query_sets containing TextFields fail when Oracle is being used as the backend.

get_queryset ()

Return a new QuerySet object. Subclasses can override this method to customize the behavior of the Manager.

class tardis.tardis_portal.managers.**ParameterNameManager**

Bases: django.db.models.manager.Manager

get_by_natural_key (*namespace, name*)

class tardis.tardis_portal.managers.**SchemaManager**

Bases: django.db.models.manager.Manager

`get_by_natural_key` (*namespace*)

tardis.tardis_portal.rfc3339 module

The function `rfc3339` formats dates according to the [RFC 3339](#). `rfc3339` tries to have as much as possible sensible defaults.

`tardis.tardis_portal.rfc3339.rfc3339` (*date, utc=False, use_system_timezone=True*)

Return a string formatted according to the [RFC 3339](#). If called with `utc=True`, it normalizes *date* to the UTC date. If *date* does not have any timezone information, uses the local timezone:

```
>>> date = datetime.datetime(2008, 4, 2, 20)
>>> rfc3339(date, utc=True, use_system_timezone=False)
'2008-04-02T20:00:00Z'
>>> rfc3339(date)
'2008-04-02T20:00:00...'
```

If called with `user_system_time=False` don't use the local timezone and consider the offset to UTC to be zero:

```
>>> rfc3339(date, use_system_timezone=False)
'2008-04-02T20:00:00+00:00'
```

date must be a `datetime.datetime`, `datetime.date` or a timestamp as returned by `time.time()`:

```
>>> rfc3339(0, utc=True, use_system_timezone=False)
'1970-01-01T00:00:00Z'
>>> rfc3339(datetime.date(2008, 9, 6), use_system_timezone=False)
'2008-09-06T00:00:00+00:00'
>>> rfc3339('foo bar')
Traceback (most recent call last):
...
TypeError: expected datetime, got str instead
```

tardis.tardis_portal.shortcuts module

`class` `tardis.tardis_portal.shortcuts.RestfulExperimentParameterSet` (*schema_func, form_cls*)

Bases: `object`

Helper class which enables a Backbone.sync-compatible interface to be created for a `ExperimentParameterSet` just by specifying a function which provides the schema and a form.

(A function for the schema is required rather than the actual schema, as to run unit tests effectively the object needs to be able to create the schema after instantiation.)

For UI consistency, it's best to make sure the schema has `hidden == true`.

schema

Use schema function to get the schema.

view_functions

`tardis.tardis_portal.shortcuts.get_experiment_referer` (*request, dataset_id*)

`tardis.tardis_portal.shortcuts.redirect_back_with_error` (*request, message*)

`tardis.tardis_portal.shortcuts.render_error_message` (*request, message, status=400*)

Render a simple text error message in a generic error page. Any newlines are turned into `
`.

`tardis.tardis_portal.shortcuts.render_response_index(request, *args, **kwargs)`

`tardis.tardis_portal.shortcuts.render_to_file(template, filename, context)`

Write the output of `render_to_string` to a file.

The `render_to_string()` method returns a unicode string, which can be written to a file with `locale.getpreferredencoding()`, usually UTF-8.

`tardis.tardis_portal.shortcuts.return_response_error(request)`

`tardis.tardis_portal.shortcuts.return_response_error_message(request, redirect_path, context)`

`tardis.tardis_portal.shortcuts.return_response_not_found(request)`

tardis.tardis_portal.tasks module

tardis.tardis_portal.util module

`tardis.tardis_portal.util.get_filesystem_safe_dataset_name(dataset)`

Given a Dataset, return a filesystem safe string representing the dataset. Useful for filenames for dataset downloads, maybe URLs.

Parameters `dataset` (`tardis.tardis_portal.models.dataset.Dataset`) – A Dataset object.

Returns A filesystem safe string as a Dataset name.

Return type basestring

`tardis.tardis_portal.util.get_filesystem_safe_experiment_name(experiment)`

Given an Experiment, return a filesystem safe string representing the experiment. Useful for filenames for experiment downloads, maybe URLs.

Parameters `experiment` (`tardis.tardis_portal.models.experiment.Experiment`) – A Experiment object.

Returns A filesystem safe string as a Experiment name.

Return type basestring

`tardis.tardis_portal.util.get_local_time(dt)`

Ensure datetime is timezone-aware and in local time.

If the `USE_TZ` setting in the current dev version of Django comes in, this *should* keep providing correct behaviour.

`tardis.tardis_portal.util.get_utc_time(dt)`

Ensure datetime is timezone-aware and in UTC time.

If the `USE_TZ` setting in the current dev version of Django comes in, this *should* keep providing correct behaviour.

`tardis.tardis_portal.util.split_path(p)`

tardis.tardis_portal.widgets module

class `tardis.tardis_portal.widgets.CommaSeparatedInput(attrs=None)`

Bases: `django.forms.widgets.TextInput`

media

render (*name, value, attrs=None, renderer=None*)

Render the widget as an HTML string.

value_from_datadict (*data, files, name*)

Given a dictionary of data and this widget's name, return the value of this widget or None if it's not provided.

class `tardis.tardis_portal.widgets.Label` (*attrs=None*)

Bases: `django.forms.widgets.Widget`

media

render (*name, value, attrs=None*)

Render the widget as an HTML string.

tag = 'label'

class `tardis.tardis_portal.widgets.Span` (*attrs=None*)

Bases: `tardis.tardis_portal.widgets.Label`

media

tag = 'span'

`tardis.tardis_portal.xmlwriter` module

class `tardis.tardis_portal.xmlwriter.XMLWriter`

Bases: `object`

static `write_template_to_dir` (*dest_dir, dest_filename, template_path, context*)

Parameters

- **dest_dir** (*string*) – The directory to store the resulting document in
- **dest_filename** (*string*) – The name of the file to be output
- **template_path** (*string*) – The relative path to the Django template to be rendered
- **context** (`django.template.context.Context`) – The Context object (dictionary of variables for template output)

Returns The full path to the created file

Return type string

static `write_template_to_file` (*prefix_dir, objectprefix, uniqueid, templatepath, context*)

Parameters

- **prefix_dir** (*string*) – The subdirectory off of the OAI_DOCS_PATH to store the resulting document in
- **objectprefix** (*string*) – The name prefix of the resulting file. Files are output in the format prefix-uniqueid.xml
- **uniqueid** (*string*) – The unique ID of the file to be output
- **templatepath** (*string*) – The relative path to the Django template to be rendered
- **context** (`django.template.context.Context`) – The Context object (dictionary of variables for template output)

Returns The full path to the created file

Return type string

static write_xml_to_file (*prefix_dir*, *objectprefix*, *uniqueid*, *xmlstring*)

Parameters

- **prefix_dir** (*string*) – The subdirectory off of the OAI_DOCS_PATH to store the resulting document in
- **objectprefix** (*string*) – The name prefix of the resulting file. Files are output in the format prefix-uniqueid.xml
- **uniqueid** (*string*) – The unique ID of the file to be output
- **xmlstring** (*string*) – The relative path to the Django template to be rendered

Returns The full path to the created file

Return type string

```
tardis.tardis_portal.xmlwriter.logger = <Logger tardis.tardis_portal.xmlwriter (WARNING)>  
XML Writer
```

A set of static methods for writing xml files.

Module contents

importing all views files here, so that any old code will work as expected, when importing from
tardis.tardis_portal.views

models/__init__.py

tardis.urls package

Submodules

tardis.urls.accounts module

Accounts URLs

tardis.urls.ajax module

AJAX URLs

tardis.urls.api module

URLs for MyTardis's RESTful API

tardis.urls.core module

Core URLs

tardis.urls.datafile module

DataFile URLs

tardis.urls.dataset module

Dataset URLs

tardis.urls.display module

Display URLs

tardis.urls.download module

Download URLs

tardis.urls.experiment module

URLs for experiments

tardis.urls.facility module

Facility URLs

tardis.urls.group module

Group URLs

tardis.urls.token module

Token URLs

Module contents**Submodules****tardis.app_config module**

class `tardis.app_config.AbstractTardisAppConfig` (*app_name*, *app_module*)

Bases: `django.apps.config.AppConfig`

All MyTardis app configuration classes should extend this abstract class to have their APIs and URLs automatically added to URL routing.

app_dependencies = []

`tardis.app_config.check_app_dependencies` (*app_configs*, ***kwargs*)

Checks currently installed apps for dependencies required by installed apps as defined by the `app_dependencies` attribute of the `AppConfig` object, if present.

Parameters

- **app_configs** (*AppConfig*) – a list of `app_configs` to check, or `None` for all apps to be checked
- **kwargs** (*list of args*) – unknown list of args

Returns a list of unsatisfied dependencies

Return type list of strings

`tardis.app_config.format_app_name_for_url` (*name*)

`tardis.app_config.get_tardis_apps` ()

Gets a list of tuples where the first element is the app name, and the second is the module path

Returns a list of `tardis` apps

Return type list of apps

`tardis.app_config.is_tardis_app` (*app_config*)

Determines whether the installed app is a MyTardis app

Parameters **app_config** (*AppConfig*) – the `AppConfig` object of an installed app

Returns `True` if the app is a MyTardis app, `False` otherwise

Return type `bool`

`tardis.celery` module

`tardis.test_on_mysql_settings` module

`tardis.test_on_postgresql_settings` module

`tardis.test_settings` module

`tardis.test_settings.get_all_tardis_apps` ()

`tardis.views` module

`tardis.views.error_handler` (*request*, ***kwargs*)

Module contents

importing all views files here, so that any old code will work as expected, when importing from `tardis.tardis_portal.views`

`models/__init__.py`

11.4 Documentation for included Apps

11.4.1 Apps and Contextual Views

Introduction

In order to better represent specific data types and facilities, MyTardis allows apps to override the default views for Experiments, Datasets, DataFile metadata, and the main index and login pages. The following sections detail settings and requirements of apps to make this happen.

Datafile Views

Rationale

By default there exists an option to show the metadata of individual `DataFile`s in the default `Dataset` view. Some kinds of files allow for rich and useful visualisation and/or processing. For this purpose there exist contextual views, views that are available depending on the type of file they refer to.

User Guide

A default installation has no contextual views. To enable them a few steps are needed:

- an app needs to be installed either in `tardis/apps/`, or the app's configuration must subclass `AbstractTardisAppConfig` thereby enabling autodetection. `AbstractTardisAppConfig` replaces `AppConfig` as described in these [django docs](#).
- `DataFile`s need to be manually or automatically tagged with a schema that identifies them as viewable with a particular view. Filters are a convenient way to do this. See below for an example.
- settings need to be added to `settings.py`. A list called `DATAFILE_VIEWS` holds a tuple for each available view. The first entry of the tuple is a schema namespace and is matched against all schemas attached to the `DataFile`. If a match occurs, a link to the url given as second entry of the tuple is added to the Datafile Detail section of the default `Dataset` view and loaded via AJAX on demand. Example:

```
DATAFILE_VIEWS = [ ("http://example.org/schemas/datafile/my_awesome_schema",  
                  "/apps/my-awesome-app/view"), ]
```

Currently, the default view is always `DataFile` metadata. This can be changed, for example, by developing a custom `Dataset` view, which is explained in the following section.

Dataset and Experiment Views

Rationale

For some specific uses the data available can be presented and/or processed in useful ways. MyTardis allows views for Experiments and Datasets to be overridden by apps on a per-schema basis, allowing custom views for specific data types. The example that this feature was built for are single-image and many-image datasets from the Australian Synchrotron. Single images can be displayed large and for a many-image dataset it is more useful to show a couple of example images taken at regular intervals not from the beginning of the set of files. These different datasets can be detected via their schema namespace and displayed differently.

User Guide

Akin to `DataFile` contextual views, `Dataset` and `Experiment` contextual views rely on matching a specific schema namespace in an attached `ParameterSet`.

Existing schemas can be used, or a special schema intended only for tagging an `Experiment` or `Dataset` for contextual view override can be attached (via an otherwise empty `ParameterSet`).

Dataset and Experiment contextual views are configured in settings by associating a schema namespace with a class-based view (or view function).

Unlike `DataFile` contextual views which inject content into the DOM via an AJAX call, these contextual views override the entire page.

Example:

```
DATASET_VIEWS = [
    ('http://example.org/schemas/dataset/my_awesome_schema',
     'tardis.apps.my_awesome_app.views.CustomDatasetViewSubclass'),
]

EXPERIMENT_VIEWS = [
    ('http://example.org/schemas/expt/my_awesome_schema',
     'tardis.apps.my_awesome_app.views.CustomExptViewSubclass'),
]
```

Custom Index View

Rationale

Specific sites or facilities often want to display a custom index page that presents recently ingested experiments in a way which is more meaningful for their particular domain or application. MyTardis support overriding the index page (/) on a per-domain or per-`Site` basis.

User Guide

Example:

```
INDEX_VIEWS = {
    1: 'tardis.apps.my_custom_app.views.MyCustomIndexSubclass',
    'facility.example.org': 'tardis.apps.myapp.AnotherCustomIndexSubclass'
}
```

A custom view override is defined in settings as dictionary mapping a class-based view (or view function) to a Django `Site`. A `Site` is specified by `SITE_ID` (an integer) or the domain name of the incoming request.

Developers creating custom contextual index views are encouraged to subclass `tardis.tardis_portal.views.pages.IndexView`.

Custom Login View

Rationale

Specific sites or facilities may want to display a custom login page that which is more meaningful to their particular domain or application. MyTardis supports overriding the login page (/login) on a per-domain or per-Site basis.

User Guide

Example:

```
LOGIN_VIEWS = {
    1: 'tardis.apps.my_custom_app.views.MyCustomLoginViewClass',
    'facility.example.org': 'tardis.apps.myapp.AnotherCustomLoginViewClass'
}
```

A custom view override is defined in settings as dictionary mapping a class-based view (or view function) to a Django Site. A Site is specified by SITE_ID (an integer) or the domain name of the incoming request.

For an example MyTardis app which provides a login view, see <https://github.com/mytardis/mytardis-aaf-google-login>

Good practice for app developers

In order to benefit from future bug and security fixes in core MyTardis, app developers are strongly encouraged to override `IndexView`, `DatasetView` and `ExperimentView` (from `tardis.tardis_portal.pages`) when creating custom contextual views.

The default and well-tested `index.html`, `login.html`, `view_dataset.html` and `view_experiment.html` templates can be used as a basis for these custom contextual views.

New versions may change the default templates and view functions. If you copy and paste parts for your application, please check with each upgrade that you are still using up to date code.

11.4.2 OAI-PMH Producer

Using to provide RIF-CS

Minimal providers for Dublin Core and RIF-CS are included in the app.

To enable the app, include `tardis.apps.oaipmh` in `settings.INSTALLED_APPS`.

Your OAI-PMH query endpoint will be on: <http://mytardis-example.com/apps/oaipmh/>

Implementing your own providers

To allow multiple metadata formats (and types within them) the `tardis.apps.oaipmh.server.ProxyingServer` handles all requests and proxies them to the providers specified in `settings.OAIPMH_PROVIDERS`.

You should extend `tardis.apps.oaipmh.provider.base.BaseProvider` or one of the existing providers if you wish to extend the functionality in a site-specific way.

```
class tardis.apps.oaipmh.provider.base.BaseProvider(site)
```

A base provider which roughly implements the PyOAI interface for OAI-PMH servers.

Extend this if you're writing your own provider for a new type or a different metadata format.

getRecord (*metadataPrefix, identifier*)

Get a record for a metadataPrefix and identifier.

Parameters

- **metadataPrefix** (*string*) – identifies metadata set to retrieve
- **identifier** (*string*) –
– repository-unique identifier of record

Raises

- **oaipmh.error.CannotDisseminateFormatError** – if metadataPrefix is unknown or not supported by identifier.
- **oaipmh.error.IdDoesNotExistError** – if identifier is unknown or illegal.

Returns a header, metadata, about tuple describing the record.

identify ()

Retrieve information about the repository.

Returns an Identify object describing the repository.

listIdentifiers (*metadataPrefix, set=None, from_=None, until=None*)

Get a list of header information on records.

Parameters

- **metadataPrefix** (*string*) – identifies metadata set to retrieve
- **set** (*string*) – set identifier; only return headers in set
- **from** (*datetime*) – only retrieve headers from **from_** date forward (in naive UTC)
- **until** (*datetime*) – only retrieve headers with dates up to and including until date (in naive UTC)

Raises

- **error.CannotDisseminateFormatError** – if metadataPrefix is not supported by the repository.
- **error.NoSetHierarchyError** – if the repository does not support sets.

Returns an iterable of headers.

listMetadataFormats (*identifier=None*)

List metadata formats supported by repository or record.

Parameters **identifier** (*string*) – identify record for which we want to know all supported metadata formats. If absent, list all metadata formats supported by repository.

Raises

- **error.IdDoesNotExistError** – if record with identifier does not exist.
- **error.NoMetadataFormatsError** – if no formats are available for the indicated record.

Returns an iterable of metadataPrefix, schema, metadataNamespace tuples (each entry in the tuple is a string).

listRecords (*metadataPrefix, set=None, from_=None, until=None*)

Get a list of header, metadata and about information on records.

Parameters

- **metadataPrefix** (*string*) – identifies metadata set to retrieve
- **set** (*string*) – set identifier; only return records in set
- **from** (*datetime*) – only retrieve records from *from_* date forward (in naive UTC)
- **until** (*datetime*) – only retrieve records with dates up to and including until date (in naive UTC)

Raises

- **oaipmh.error.CannotDisseminateFormatError** – if `metadataPrefix` is not supported by the repository.
- **oaipmh.error.NoSetHierarchyError** – if the repository does not support sets.

Returns an iterable of `header`, `metadata`, `about` tuples.

listSets ()

Get a list of sets in the repository.

Raises **error.NoSetHierarchyError** – if the repository does not support sets.

Returns an iterable of `setSpec`, `setName` tuples (strings).

writeMetadata (*element*, *metadata*)

Create XML elements under the given element, using the provided metadata.

Should avoid doing any model-lookups, as they should be done when creating the metadata.

Parameters

- **element** (*lxml.etree.Element*) – element to put all content under (as `SubElements`)
- **metadata** (*oaipmh.common.Metadata*) – metadata to turn into XML

Raises **NotImplementedError** – not implemented

class `tardis.apps.oaipmh.server.ProxyingServer` (*providers*)

getRecord (*metadataPrefix*, *identifier*)

Get a record for a `metadataPrefix` and `identifier`.

Raises

- **oaipmh.error.CannotDisseminateFormatError** – if no provider returns a result, but at least one provider responds with `oaipmh.error.CannotDisseminateFormatError` (meaning the identifier exists)
- **oaipmh.error.IdDoesNotExistError** – if all providers fail with `oaipmh.error.IdDoesNotExistError`

Returns first successful provider response

Return type `response`

identify ()

Retrieve information about the repository.

Returns an `oaipmh.common.Identify` object describing the repository.

Return type `oaipmh.common.Identify`

listIdentifiers (*metadataPrefix*, ***kwargs*)

Lists identifiers from all providers as a single set.

Raises

- **error.CannotDisseminateFormatError** – if `metadataPrefix` is not supported by the repository.
- **error.NoSetHierarchyError** – if a set is provided, as the repository does not support sets.

Returns a `set.Set` of headers.

Return type `set`

listMetadataFormats (***kwargs*)

List metadata formats from all providers in a single set.

Raises

- **error.IdDoesNotExistError** – if record with identifier does not exist.
- **error.NoMetadataFormatsError** – if no formats are available for the indicated record, but it does exist.

Returns a *frozenset* of `metadataPrefix`, `schema`, `metadataNamespace` tuples (each entry in the tuple is a string).

Return type `frozenset`

listRecords (*metadataPrefix*, ***kwargs*)

Lists records from all providers as a single set.

Raises

- **error.CannotDisseminateFormatError** – if `metadataPrefix` is not supported by the repository.
- **error.NoSetHierarchyError** – if a set is provided, as the repository does not support sets.

Returns a `set.Set` of `header`, `metadata`, `about` tuples.

Return type `set`

listSets ()

List sets.

Raises `oaipmh.error.NoSetHierarchyError` – because set hierarchies are currently not implemented

11.4.3 MyTardis Social Authentication

Overview

The MyTardis social auth app allows MyTardis deployments to accept logins using OAuth and OpenID Connect. It builds on the [Python social auth package](#), and uses the [Django social auth app](#).

Usage

To enable the app, include `social_django` and `tardis.apps.social_auth` in settings. `INSTALLED_APPS`:

```
INSTALLED_APPS += (
    'social_django',
    'tardis.apps.social_auth',
)
```

Adding backends

You will need to add authentication backends that you want to enable. To enable Google authentication add following AUTHENTICATION_BACKENDS to *settings.py*

```
AUTHENTICATION_BACKENDS += (
    'social_core.backends.open_id.OpenIdAuth',
    'social_core.backends.google.GoogleOpenId',
    'social_core.backends.google.GoogleOAuth2',
)
```

To enable Australian Access federation(AAF) OpenID connect Provider(OIDC) authentication add following AUTHENTICATION_BACKENDS to *settings.py*

```
AUTHENTICATION_BACKENDS += (
    'tardis.apps.social_auth.auth.authorisation.AAFOpenId',
)
```

Adding authentication providers

You will need add authentication providers that you want to enable.

```
AUTH_PROVIDERS += (
    ('Google', 'Google',
     'social_core.backends.google.GoogleOAuth2'),
    ('AAF', 'AAF',
     'tardis.apps.social_auth.auth.authorisation.AAFOpenId'),
)
```

Adding Exception Middleware

You may want to add exception middleware provided by *python-social-auth*. To do this add following to *settings.py*

```
MIDDLEWARE += (
    'social_django.middleware.SocialAuthExceptionMiddleware',
)
```

Adding Context Processor

You will need to add following context processor to *settings.py*

```
TEMPLATES[0]['OPTIONS']['context_processors'].extend([
    'social_django.context_processors.backends',
    'social_django.context_processors.login_redirect'])
```

Application setup

Once the application is enabled and installed define the following settings to enable authentication behaviour.

```
SOCIAL_AUTH_AAF_PIPELINE = (  
'social_core.pipeline.social_auth.social_details',  
'social_core.pipeline.social_auth.social_uid',  
'social_core.pipeline.social_auth.social_user',  
'social_core.pipeline.user.get_username',  
'social_core.pipeline.user.create_user',  
'tardis.apps.social_auth.auth.social_auth.configure_social_auth_user',  
'tardis.apps.social_auth.auth.social_auth.add_authentication_method',  
'tardis.apps.social_auth.auth.social_auth.approve_user_auth',  
'tardis.apps.social_auth.auth.social_auth.add_user_permissions',  
'social_core.pipeline.social_auth.associate_user',  
'social_core.pipeline.social_auth.load_extra_data',  
'social_core.pipeline.user.user_details',  
)
```

```
SOCIAL_AUTH_GOOGLE_OAUTH2_PIPELINE = (  
'social_core.pipeline.social_auth.social_details',  
'social_core.pipeline.social_auth.social_uid',  
'social_core.pipeline.social_auth.social_user',  
'social_core.pipeline.user.get_username',  
'social_core.pipeline.user.create_user',  
'tardis.apps.social_auth.auth.social_auth.configure_social_auth_user',  
'tardis.apps.social_auth.auth.social_auth.add_authentication_method',  
'social_core.pipeline.social_auth.associate_user',  
'social_core.pipeline.social_auth.load_extra_data',  
'social_core.pipeline.user.user_details',  
'tardis.apps.social_auth.auth.social_auth.send_admin_email',  
)
```

Get key and secrets from the OIDC provider that you want to enable and add following settings.

```
SOCIAL_AUTH_URL_NAMESPACE_BEGIN = 'social:begin',  
SOCIAL_AUTH_GOOGLE_OAUTH2_KEY = 'Get this from Google'  
SOCIAL_AUTH_GOOGLE_OAUTH2_SECRET = 'Get this from Google'  
SOCIAL_AUTH_AAF_KEY = 'Get this from AAF'  
SOCIAL_AUTH_AAF_SECRET = 'Get this from AAF'  
SOCIAL_AUTH_AAF_AUTH_URL = 'Get this from AAF'  
SOCIAL_AUTH_AAF_TOKEN_URL = 'Get this from AAF'  
SOCIAL_AUTH_AAF_USER_INFO_URL = 'Get this from AAF'
```

To override MyTardis's default login page (Username / Password) with a more appropriate page for AAF and Google authentication, you can use <https://github.com/mytardis/mytardis-aaf-google-login>

11.5 Releases

11.5.1 4.4.0

- User activity logging app
- Updated various Python and JS libraries
- Fix to Google Chrome installation

- Bugfixes - add SSH key

11.5.2 4.3.0

- Updated various Python and JS libraries
- Removed Mustache and Backbone JS libraries (replaced with React)
- No new session will be created on API call or health check
- Check DataFile permissions in API differently (performance gain)
- Check for dataset permissions during API calls (security bug)
- New uploader registration email to be send to managers group not admins

11.5.3 4.2.0

- Upgraded Django from 1.11.26 to 2.2.6
- Upgraded Bootstrap from 3.4.1 to 4.1.3
- Continuous Integration testing implemented for Python 3.5, 3.6, 3.7 and 3.8
- Dropped support for Python 2
- Dataset view now has a tree-based file browser
- Added a task which can be scheduled to clean up unverified files
- Added a task which can be scheduled to clean up DataFiles without DataFileObjects
- Bug fixes - Ensured thumbnail image files are opened in binary format, required for Python 3 - Fixed bug with downloads on Python 3 by removing use of `._next__()` - Fixed bugs in Push To's encoding/decoding of SSH certificates in Python 3 - Fixed bug in MyTardis SFTP service relating to use of gevent with Django 2.2
- Dependency updates - Python and JS dependencies have been updated to address vulnerabilities.

11.5.4 4.1.5

- Update AngularJS to address the SNYK-JS-ANGULAR-534884 vulnerability.
- Update the handlebars version in package-lock.json to avoid having “npm install” report high severity vulnerabilities.
- Fix the dataset metadata API test which was failing on Python 3.5.

11.5.5 4.1.4

- Fixed duplicate form submission bugs for create experiment/dataset
- Fixed search bug which restricted instrument drop-down to 20 records
- Fixed some byte string encoding issues with LDAP auth in Python 3
- Fixed Python 3.5 unit tests
- Fixed pickled StorageBoxOption values for Python 3

11.5.6 4.1.3

- Update the https-proxy-agent version in package-lock.json to avoid having “npm install” display “found 1 high severity vulnerability”.

11.5.7 4.1.2

- Allow .jsx files to be included in assets/js/tardis_portal/ and ensure that they won't be linted using the jQuery ESLint configuration
- Switch back to the official version of the pyoai dependency

11.5.8 4.1.1

- Fix Python 3 bug with string encoding in deep download mapper which affected directory names in SFTP interface.

11.5.9 4.1

- Added React search components and django-elasticsearch-dsl backend
- Removed post-save filters middleware, replaced with microservice architecture
- Added RabbitMQ task priorities support, dropped support for Redis as a broker
- Upgraded Bootstrap CSS framework from v2.3.2 to v3.4.1
- Added Python 3 support
- Added webpack to collect static assets (JS / CSS), supporting ES6, JSX etc.
- Annotated storage box related tasks with their storage box name, visible in “celery inspect active”
- Added task for clearing Django sessions
- Added timestamps (created and modified) in facility and instrument models
- Updated built-in Creative Commons licenses to v4
- Added django-storages and boto3 to requirements to support S3 storage boxes and storing static assets in S3
- Improved efficiency of checksums and downloads for files in S3 storage
- COMPUTE_SHA512 now defaults to False. COMPUTE_MD5 still defaults to True.
- Legal text for publishing can now be specified in settings
- Now using Dataset created_time in facility overview instead of experiment created time
- Added a new setting to prevent large datasets (many files) from being scanned for image files at page load time
- API v1's instrument resource now allows any authenticated user to list the instrument names, which is used in the new search interface
- The ExperimentAuthor model now exposed in API v1
- MyTardis no longer tries to guess an appropriate storage box for new DataFileObjects unless REUSE_DATASET_STORAGE_BOX is True
- Improved BDD test coverage, now measuring template coverage with django-coverage-plugin

- Bug fixes (GitHub Issue numbers below) - Fixed #1503 - Fixed #1568 - Removed `bob@bobmail.com` from default ADMINS, fixing #1613 - Fixed #1664 - Fixed #1708 - Fixed #1857 - Fixed #1853 - Fixed concatenated messages issue in user sharing and group sharing dialogs - Fixed #1790 - Fixed truncated TAR download issue with unverified files - Fixed sharing with AAF/Google issue - Fixed some broken Font Awesome icons

11.5.10 4.0.2

- Upgraded Django to 1.11.23
- Upgraded vulnerable dependencies of JS dev dependencies
- Fixed #1844 (remove a hard-coded LDAP attribute)

11.5.11 4.0.1

- Removed `anzsrc_codes` tardis app which contained a potentially insecure dependency (`rdflib`)
- Added `created_time` and `modified_time` fields in the Instrument and Facility models
- Updated Python and Javascript dependencies which had vulnerabilities reported since the v4.0 release.
- Fixed token authentication (#1531, 615d9df)
- Fixed some Font Awesome icons (1ac549d)
- Fixed an incomplete database migration for the Dataset `created_time` field. This fix is included in the `tardis/tardis_portal/migrations/0016_add_timestamps.py` migration which also adds the `created_time` and `modified_time` fields to the Instrument and Facility models (ec238b4)
- Removed hard-coded LDAP attributes (#1664, 96a0fbf)
- Fixed issue with `get_accessible_datafiles_for_user` potentially returning an empty list instead of an empty QuerySet (a13cefc)
- Fixed issue with Add/Save Experiment Metadata - added a form attribute to the Save button. (fd2393a)
- In S3 storage documentation, removed reference to old fork of `django-storages`. (f0c62d5)
- Fixed issue where MyTardis could try to verify SHA512 sums even when `COMPUTE_SHA512` was set to `False` (#1419, 1da1b3b)
- In S3 storage documentation, removed reference to old fork of `django-storages`. (f0c62d5)
- Fixed issue where MyTardis could try to verify SHA512 sums even when `COMPUTE_SHA512` was set to `False` (#1419, 1da1b3b)
- Fixed issue where downloading a TAR of a dataset including unverified files could result in a “Truncated tar archive” error (#1425, b4fa17c)
- Fixed issue where MyTardis tried to retrieve thumbnail images for non-image files, resulting in 404 errors (e261065)
- Fixed issue where failing to set ADMINS in `tardis/settings.py` could cause MyTardis to attempt to send emails to `bob@bobmail.com` (#1613, f8ed6dd)
- Fixed issue where Facility Overview’s “Load more” button was enabled while content was still loading. (a28a253)

11.5.12 4.0

- Django 1.11
- jQuery 3.3.1
- Improved test coverage
- Continuous Integration tests run against Ubuntu 18.04 (MyTardis v3.x used 14.04)
- ChromeDriver is used for BDD (Behaviour Driven Development) tests
- Social Auth, including AAF and Google Auth via OpenID Connect
- Migrating user accounts from LDAP or localdb to OpenID Connect
- Customizable user menu
- Using `message.level_tag` instead of `message.tags` in `portal_template`, so that extra tags can be added to Django messages without interfering with the Bootstrap alert class.
- My Data page (which previously contained Owned and Shared experiments) has been split into two pages - “My Data” and “Shared” - Each page loads thumbnails asynchronously for faster initial page load time - An improved pagination widget allows for a very large number of pages.
- Index page’s thumbnails are loaded asynchronously for faster initial page load time.
- Login page can be replaced with a site-specific page
- SFTP can now be used with keys instead of passwords
- Upgraded Bootstrap from 2.0.4 to 2.3.2 (further upgrades coming soon)
- Fixed some bugs in single search
- jQuery code is being moved out of HTML templates and into JS files which can be linted (with ESLint) and tested (with QUnit).
- **Removed old broken code and unnecessary code which is duplicated in other repositories.**
 - Import via staging with jsTree
 - Uploadify
- **Updated or removed (as appropriate) some out-of-date JS dependencies bundled within the MyTardis repository**
 - Most JS dependences are installed by npm now, so we can run security checks with npm audit
- `manage.py` can now be used instead of `mytardis.py` and `mytardis.py` will soon be deprecated
- New support email setting can be used in email templates or HTML templates.
- Updating loadschemas management command for Django 1.11 and adding test for it
- Updated the dumpschemas management command for Django 1.11 and added a test for it
- **Bug fixes (GitHub Issue numbers below)** Fixed #243. Bug in `tardis_acls.change_experiment` permissions check Fixed #516 - only show “Add files” button if user has permission to upload files Fixed #636 Fixed #637 - “()” is added to “Author” line every time an experiment is edited Fixed #779 Fixed #868 Fixed #893 Fixed #988 Fixed #1083 Fixed #1185
- Added docs on X-Forwarded-Proto HTTP header for HTTPS deployments
- Added docs on configuring services in systemd or supervisor
- Removed password length restriction in linked user authentication form

- Removed settings_changeme - use default_settings instead
- Removed backslash from set of characters used to generate secret key.
- Removed django-celery - it is no longer necessary to run Celery via Django
- Improved forwards compatibility with Python 3, but we're not fully Python 3 compatible yet.
- Switched to PEP 328 relative imports
- Tests no longer require the unmaintained "compare" module
- Added a default value for DATA_UPLOAD_MAX_MEMORY_SIZE (required by Django 1.10+) to default settings
- Removed some unused dependencies, e.g. PyYAML
- Removed the createmysuperuser which is no longer needed
- Removed the checkhashes management command
- Removed the diffraction image filter
- Removed the backupdb management command
- Removed the old publication form - a new publication workflow is coming soon.

11.5.13 3.9

- Added deprecation warnings for functionality which will be removed in 4.0
- Added INTERNAL_IPS to default settings for template debugging on localhost
- Disabled the old publication forms app in default settings, and ensured that MyTardis didn't attempt to access its static content when disabled
- Removed apps code from ExperimentView's get_context_data which assumed that each app would provide a views module with an index
- Fixed a bug where creating a group which already existed gave a 500 error
- Fixed a bug where non-ASCII characters in experiment names could break SFTP
- Made dataset thumbnails optional - disabling them can improve page load times
- Fixed a bug which had made it difficult to delete a DataFileObject without a URI from the Django shell
- Fixed a bug which made search indexing fail when there were users with non-ASCII characters in their first or last name

11.5.14 3.8.1

- Fix regression in Push To app

11.5.15 3.8

- Refactored settings
- Added pagination to My Data view
- BDD tests using behave and phantomjs
- Added download MD5 checksum buttons to Dataset View

- Add *autocaching* task that allows data from a StorageBox to be cached to another StorageBox
- Re-wrote user documentation and switched to hosting docs on RTD
- Switched to using NPM to manage JS deps.
- Facility and instrument are now visible on Experiment and dataset views - thanks @avrjlk
- Added setting that allows datasets ordered by id on the Experiment page.
- Added setting to make sha512 checksums optional.

11.5.16 3.7 - 17 March 2016

- DataFile size is now a BigInteger field
- New settings for customisations, contextual view overrides (eg INDEX_VIEWS).
- A new AbstractTardisAppConfig class that all new tardis apps should subclass
- Third-party tardis app dependency checking
- Removed database index from Parameter.string_value to allow longer strings in Postgres. Migrations add a Postgres partial index for string_values shorter than 256 characters.
- Changed constraints on the instrument model; facility and instrument name are now unique together
- changed method tasks to task functions, pre-empting the removal of methods tasks in new celery versions
- RESTful API now supports ordering, e.g. &order_by=-title, for Experiments, Datasets and DataFiles.
- Allowed groups to be 'owners' of an Experiment. Enforce rule in views for web UI requiring every Experiment to have at least one user owner.
- Registration support updated for latest django-registration-redux package
- Speed-ups for dataset view page loading for datasets with large numbers of images. The carousel is now limited to a maximum of 100 preview images.
- Reorganised and updated documentation

11.5.17 3.6 - 16 March 2015

- removed legacy operations files (foreman, apache, uwsgi, etc)
- moved CI from Travis CI to Semaphore app
- removed buildout build system and setup.py dependency management
- build instructions in build.sh, using requirements.txt for dependencies now
- gunicorn instead of uwsgi
- updated Django to version 1.6.10
- removed migrations app
- renamed Dataset_File to DataFile
- DataFile have a `deleted` and a `version` flag, for upcoming support of these features.
- verifying files does not have side-effects anymore
- renamed Author_Experiment to ExperimentAuthor
- an ExperimentAuthor can now have an email and or a URL

- recoded `Replica` and `Location` as `DataFileObject` with associated `StorageBox`, based on the Django File API
- API v1 got some additions, largely or fully backwards-compatible
- a publication workflow app, guided publication of data
- download data via SFTP using a built-in SFTP server
- removed most traces of METS
- AAF authentication support
- parameters that can store a generic foreign key (link to any database object)
- new models `Instrument` and `Facility`
- basic support for SquashFS archives as `StorageBox`. Probably requires installation-specific code such as what is used at the [Australian Synchrotron](#).
- error pages are no normal-sized
- new view “Facility Overview”, for facility administrators to have overview over data.
- “MyData” includes owned and shared data
- safely allowing HTML in descriptions now. Achieved by “bleaching” of tags
- stats page faster through DB-server-side aggregation
- layout improvements
- pep8 and pylint improvements
- bug fixes

11.5.18 3.5 - 26 August 2013

- REST API
- REST API keys
- Authorisation now supports object-level permissions
- Front page overview
- Contextual views for Datafiles, Datasets and Experiments
- Backwards incompatible database changes
- Replica multi file location support
- Migration of replicas
- Streaming downloads
- Django 1.5
- REDIS option for celery queue
- auto-verify files
- provisional directory support
- Pylint testing on Travis CI
- Some error pages are now functional
- optionally upload comfortably with Filepicker.io

- Experiment view page load speedup
- Removed ancient XML ingest format.

11.5.19 3.0 - unreleased

- Twitter Bootstrap
- javascript templates
- backbone.js rendering of datasets
- UI for transferring datasets
- bpython shell
- celery queue

11.5.20 2.0 - Unreleased

- Auth/Auth redesign [Gerson, Uli, Russel]
 - Authorisation. Support for several pluggable authorisation plugins (Django internal, LDAP, VBL). The added AuthService middleware provides a mechanism to query all available auth modules to determine what group memberships a users has.
 - Alternative authorisation. Rule based experiment access control engine was implemented with the following access attributes for individual users and groups: canRead, canWrite, canDelete, isOwner. Additionally, a time stamp can be specified for each access rule.

Further information can be found at the wiki: [Authorisation Engine design](#)

- Metadata Editing [Steve, Grischa]
- New METS parser & METS exporter [Gerson]
- Dist/Buildout infrastructure [Russell]
- Through the web creation and editing of experiments [Steve, Russell]
- Through the web upload of files [Steve]
- Download protocol handler [Russel, Uli]
- Logging framework [Uli]
- Django 1.3

11.5.21 1.07 - 01/06/2010

- Publish to tardis.edu.au interface created, though not implemented, pending legal text

11.5.22 1.06 - 15/03/2010

- Parameter import interface for creation of new parameter/schema definitions
- iPhone Interface

11.5.23 1.05 - 01/03/2010

- Images as parameters supported
- Data / metadata transfer from synchrotron is now 'threaded' using asynchronous web service transfers.

11.5.24 1.0 - 01/02/2010

- MyTardis created from existin MyTardis python / django codebase
- Allows private data to be stored
- Open key/value parameter model, replacing current crystallography one
- Internal data store for data
- LDAP Login
- Pagination of files
- Creation of synchrotron-tardis from MyTardis codebase including specific code for the VBL login service and data transfer to MyTardis deployments.
- Web server changed to apache and mod_wsgi

11.5.25 0.5 - 2009

- Re-wrote federated index (python / django)
- Federated stores are now simple web server based with optional FTP access
- Runs on Jython / Tomcat

11.5.26 0.1 - 2007

- Federated index (php) running on Apache HTTP Server
- Crystallography data deposition and packaging tools for Fedora Commons (java swing desktop)
- Search Interface via web

CHAPTER 12

Indices and tables

- `genindex`
- `modindex`
- `search`

t

tardis, 248

tardis.analytics, 76

tardis.analytics.apps, 75

tardis.analytics.ga, 75

tardis.analytics.tracker, 75

tardis.app_config, 247

tardis.apps, 122

tardis.apps.deep_storage_download_mapper, 76

tardis.apps.deep_storage_download_mapper.mapper, 76

tardis.apps.deep_storage_download_mapper.urls, 76

tardis.apps.dl_mapper_df_dir_only, 77

tardis.apps.dl_mapper_df_dir_only.mapper, 76

tardis.apps.dl_mapper_df_dir_only.urls, 77

tardis.apps.eventlog, 80

tardis.apps.eventlog.admin, 77

tardis.apps.eventlog.default_settings, 77

tardis.apps.eventlog.fields, 78

tardis.apps.eventlog.migrations, 77

tardis.apps.eventlog.migrations.0001_initial, 77

tardis.apps.eventlog.models, 78

tardis.apps.eventlog.signals, 80

tardis.apps.eventlog.urls, 80

tardis.apps.eventlog.utils, 80

tardis.apps.filepicker, 81

tardis.apps.filepicker.filepicker_settings, 80

tardis.apps.filepicker.urls, 80

tardis.apps.filepicker.utils, 80

tardis.apps.filepicker.views, 81

tardis.apps.oaipmh, 87

tardis.apps.oaipmh.models, 85

tardis.apps.oaipmh.provider, 84

tardis.apps.oaipmh.provider.base, 81

tardis.apps.oaipmh.provider.experiment, 83

tardis.apps.oaipmh.server, 86

tardis.apps.oaipmh.tests, 85

tardis.apps.oaipmh.tests.provider, 85

tardis.apps.oaipmh.tests.provider.test_base, 84

tardis.apps.oaipmh.tests.provider.test_experiment, 84

tardis.apps.oaipmh.tests.test_oai, 85

tardis.apps.oaipmh.urls, 87

tardis.apps.oaipmh.views, 87

tardis.apps.openid_migration, 93

tardis.apps.openid_migration.apps, 89

tardis.apps.openid_migration.context_processors, 89

tardis.apps.openid_migration.default_settings, 89

tardis.apps.openid_migration.email_text, 89

tardis.apps.openid_migration.forms, 89

tardis.apps.openid_migration.migration, 89

tardis.apps.openid_migration.migrations, 88

tardis.apps.openid_migration.migrations.0001_initial, 88

tardis.apps.openid_migration.models, 90

tardis.apps.openid_migration.tasks, 92

tardis.apps.openid_migration.tests, 89

tardis.apps.openid_migration.tests.test_forms, 88

tardis.apps.openid_migration.tests.test_migration, 88

tardis.apps.openid_migration.tests.test_models, 88

tardis.apps.openid_migration.tests.test_views, 89

tardis.apps.openid_migration.urls, 92
 tardis.apps.openid_migration.user_menu_modifiers, 93
 tardis.apps.openid_migration.utils, 93
 tardis.apps.openid_migration.views, 93
 tardis.apps.push_to, 102
 tardis.apps.push_to.apps, 94
 tardis.apps.push_to.exceptions, 94
 tardis.apps.push_to.migrations, 94
 tardis.apps.push_to.migrations.0001_initial, 93
 tardis.apps.push_to.migrations.0002_auto_2016_05_18_19_58, 93
 tardis.apps.push_to.models, 94
 tardis.apps.push_to.oauth_tokens, 100
 tardis.apps.push_to.ssh_authz, 100
 tardis.apps.push_to.tasks, 100
 tardis.apps.push_to.tests, 94
 tardis.apps.push_to.tests.test_models, 94
 tardis.apps.push_to.urls, 101
 tardis.apps.push_to.utils, 101
 tardis.apps.push_to.views, 101
 tardis.apps.related_info, 104
 tardis.apps.related_info.forms, 104
 tardis.apps.related_info.models, 104
 tardis.apps.related_info.settings, 104
 tardis.apps.related_info.tests, 103
 tardis.apps.related_info.tests.test_oaipmh, 102
 tardis.apps.related_info.tests.tests, 102
 tardis.apps.related_info.urls, 104
 tardis.apps.related_info.views, 104
 tardis.apps.s3utils, 107
 tardis.apps.s3utils.api, 105
 tardis.apps.s3utils.apps, 106
 tardis.apps.s3utils.default_settings, 106
 tardis.apps.s3utils.tests, 105
 tardis.apps.s3utils.tests.test_api, 104
 tardis.apps.s3utils.tests.test_app_config, 105
 tardis.apps.s3utils.tests.test_checksums, 105
 tardis.apps.s3utils.urls, 106
 tardis.apps.s3utils.utils, 106
 tardis.apps.search, 111
 tardis.apps.search.api, 107
 tardis.apps.search.apps, 109
 tardis.apps.search.documents, 109
 tardis.apps.search.tests, 107
 tardis.apps.search.tests.test_api, 107
 tardis.apps.search.tests.test_index, 107
 tardis.apps.search.urls, 110
 tardis.apps.search.views, 111
 tardis.apps.sftp, 121
 tardis.apps.sftp.admin, 112
 tardis.apps.sftp.api, 112
 tardis.apps.sftp.apps, 113
 tardis.apps.sftp.default_settings, 114
 tardis.apps.sftp.forms, 114
 tardis.apps.sftp.management, 111
 tardis.apps.sftp.management.commands, 111
 tardis.apps.sftp.management.commands.sftpd, 111
 tardis.apps.sftp.migrations, 112
 tardis.apps.sftp.migrations.0001_initial, 111
 tardis.apps.sftp.models, 114
 tardis.apps.sftp.sftp, 115
 tardis.apps.sftp.tests, 112
 tardis.apps.sftp.tests.test_sftp, 112
 tardis.apps.sftp.urls, 120
 tardis.apps.sftp.user_menu_modifiers, 120
 tardis.apps.sftp.views, 121
 tardis.apps.social_auth, 122
 tardis.apps.social_auth.apps, 122
 tardis.apps.social_auth.auth, 122
 tardis.apps.social_auth.auth.social_auth, 121
 tardis.apps.social_auth.default_settings, 122
 tardis.celery, 248
 tardis.default_settings, 128
 tardis.default_settings.admins, 122
 tardis.default_settings.analytics, 123
 tardis.default_settings.apps, 123
 tardis.default_settings.apps_default_settings, 123
 tardis.default_settings.auth, 123
 tardis.default_settings.caches, 123
 tardis.default_settings.celery_settings, 123
 tardis.default_settings.custom_views, 123
 tardis.default_settings.database, 124
 tardis.default_settings.debug, 124
 tardis.default_settings.downloads, 124
 tardis.default_settings.email, 125
 tardis.default_settings.filters, 125
 tardis.default_settings.frontend, 126
 tardis.default_settings.i18n, 126
 tardis.default_settings.localisation, 126
 tardis.default_settings.logging, 126

tardis.tardis_portal.models.license, 163

tardis.tardis_portal.models.parameters, 164

tardis.tardis_portal.models.storage, 180

tardis.tardis_portal.models.token, 185

tardis.tardis_portal.ParameterSetManager, 217

tardis.tardis_portal.publish, 187

tardis.tardis_portal.publish.provider, 187

tardis.tardis_portal.publish.provider.rifcsprovider, 187

tardis.tardis_portal.publish.publishservice, 187

tardis.tardis_portal.rfc3339, 243

tardis.tardis_portal.shortcuts, 243

tardis.tardis_portal.storage, 188

tardis.tardis_portal.storage.file_system, 187

tardis.tardis_portal.tasks, 244

tardis.tardis_portal.templatetags, 190

tardis.tardis_portal.templatetags.approveduser, 188

tardis.tardis_portal.templatetags.basiccompdirstafffilters, 188

tardis.tardis_portal.templatetags.bleachtags, 188

tardis.tardis_portal.templatetags.capture, 189

tardis.tardis_portal.templatetags.dynurl, 189

tardis.tardis_portal.templatetags.experiment_tags, 189

tardis.tardis_portal.templatetags.experimentstatus, 189

tardis.tardis_portal.templatetags.facility_tags, 189

tardis.tardis_portal.templatetags.feed, 189

tardis.tardis_portal.templatetags.formfieldfilters, 189

tardis.tardis_portal.templatetags.lookupfilters, 190

tardis.tardis_portal.templatetags.pagination, 190

tardis.tardis_portal.templatetags.xmldate, 190

tardis.tardis_portal.tests, 210

tardis.tardis_portal.tests.api, 195

tardis.tardis_portal.tests.api.test_auth, 190

tardis.tardis_portal.tests.api.test_datafile, 191

tardis.tardis_portal.tests.api.test_datafile_metadata, 191

tardis.tardis_portal.tests.api.test_datafile_resources, 191

tardis.tardis_portal.tests.api.test_dataset_metadata, 191

tardis.tardis_portal.tests.api.test_dataset_resource, 192

tardis.tardis_portal.tests.api.test_experiment_metadata, 192

tardis.tardis_portal.tests.api.test_experiment_resource, 192

tardis.tardis_portal.tests.api.test_facility_resource, 192

tardis.tardis_portal.tests.api.test_group_resource, 193

tardis.tardis_portal.tests.api.test_instrument_resource, 193

tardis.tardis_portal.tests.api.test_list_api_endpoint, 193

tardis.tardis_portal.tests.api.test_replica_resource, 193

tardis.tardis_portal.tests.api.test_schema_resource, 194

tardis.tardis_portal.tests.api.test_serializer, 194

tardis.tardis_portal.tests.api.test_storagebox_resource, 194

tardis.tardis_portal.tests.api.test_user_resource, 194

tardis.tardis_portal.tests.auth, 195

tardis.tardis_portal.tests.ldap_ldif, 200

tardis.tardis_portal.tests.management, 196

tardis.tardis_portal.tests.management.test_collectors, 195

tardis.tardis_portal.tests.management.test_createus, 195

tardis.tardis_portal.tests.management.test_dumpsche, 196

tardis.tardis_portal.tests.management.test_loadsche, 196

tardis.tardis_portal.tests.management.test_rmexper, 196

tardis.tardis_portal.tests.models, 198

tardis.tardis_portal.tests.models.test_authors, 196

tardis.tardis_portal.tests.models.test_datafile, 197

tardis.tardis_portal.tests.models.test_dataset, 197

tardis.tardis_portal.tests.models.test_dfo, 197

tardis.tardis_portal.tests.models.test_experiment, 197

tardis.tardis_portal.tests.models.test_generate_ap, 197

197
 tardis.tardis_portal.tests.models.test_instantiate, 200
 198
 tardis.tardis_portal.tests.models.test_parameters, 200
 198
 tardis.tardis_portal.tests.slapped, 200
 tardis.tardis_portal.tests.test_authentication, 210
 202
 tardis.tardis_portal.tests.test_authorisation, 211
 202
 tardis.tardis_portal.tests.test_authservice, 211
 203
 tardis.tardis_portal.tests.test_copy_move, 211
 203
 tardis.tardis_portal.tests.test_df_save_metadata, 212
 204
 tardis.tardis_portal.tests.test_download, 212
 204
 tardis.tardis_portal.tests.test_download_app_key, 215
 204
 tardis.tardis_portal.tests.test_facility_overview, 216
 205
 tardis.tardis_portal.tests.test_forms, 244
 205
 tardis.tardis_portal.tests.test_iiif, 248
 205
 tardis.tardis_portal.tests.test_ldap, 248
 206
 tardis.tardis_portal.tests.test_parameter, 248
 206
 tardis.tardis_portal.tests.test_parameter_sets, 248
 207
 tardis.tardis_portal.tests.test_publish_service, 248
 208
 tardis.tardis_portal.tests.test_storage, 247
 208
 tardis.tardis_portal.tests.test_tar_download, 247
 209
 tardis.tardis_portal.tests.test_tasks, 247
 209
 tardis.tardis_portal.tests.test_tokens, 248
 209
 tardis.tardis_portal.tests.tests, 210
 tardis.tardis_portal.tests.urls, 210
 tardis.tardis_portal.tests.views, 200
 tardis.tardis_portal.tests.views.test_auth_views, 198
 tardis.tardis_portal.tests.views.test_contextual_views, 199
 tardis.tardis_portal.tests.views.test_experiment_views, 199
 tardis.tardis_portal.tests.views.test_template_contexts, 199
 tardis.tardis_portal.tests.views.test_upload_views,

A

- about () (in module *tardis.tardis_portal.views.pages*), 214
- abstract (*tardis.apps.push_to.models.KeyPair.Meta* attribute), 96
- abstract (*tardis.tardis_portal.models.parameters.Parameter.Meta* attribute), 173
- abstract (*tardis.tardis_portal.models.parameters.ParameterSer.Meta* attribute), 177
- AbstractExperimentProvider (class in *tardis.apps.oaipmh.provider.experiment*), 83
- AbstractExperimentProviderTC (class in *tardis.apps.oaipmh.tests.provider.test_experiment*), 84
- AbstractTardisAppConfig (class in *tardis.app_config*), 247
- accessible_keys (*tardis.tardis_portal.api.StorageBoxOptionResource* attribute), 231
- acl_id (*tardis.apps.openid_migration.models.OpenidACLMigration* attribute), 90
- acl_id_id (*tardis.apps.openid_migration.models.OpenidACLMigration* attribute), 90
- acl_migration () (in module *tardis.apps.openid_migration.migration*), 89
- ACLAuthorization (class in *tardis.tardis_portal.api*), 222
- ACLAuthorizationTest (class in *tardis.tardis_portal.tests.api.test_auth*), 190
- ACLAwareBackend (class in *tardis.tardis_portal.auth.authorisation*), 129
- aclOwnershipType (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 141
- Action (class in *tardis.apps.eventlog.models*), 78
- action (*tardis.apps.eventlog.models.Log* attribute), 79
- Action.DoesNotExist, 78
- Action.MultipleObjectsReturned, 78
- action_id (*tardis.apps.eventlog.models.Log* attribute), 79
- add_arguments () (*tardis.apps.sftp.management.commands.sftpd.Command* method), 111
- add_arguments () (*tardis.tardis_portal.management.commands.create_experiment* method), 135
- add_arguments () (*tardis.tardis_portal.management.commands.dumps* method), 135
- add_arguments () (*tardis.tardis_portal.management.commands.loads* method), 135
- add_arguments () (*tardis.tardis_portal.management.commands.rmexpe* method), 136
- add_auth_method () (in module *tardis.tardis_portal.auth.authentication*), 128
- add_authentication_method () (in module *tardis.apps.social_auth.auth.social_auth*), 121
- add_child () (*tardis.apps.sftp.sftp.DynamicTree* method), 115
- add_datafile_par () (in module *tardis.tardis_portal.views.parameters*), 215
- add_dataset () (in module *tardis.tardis_portal.views.pages*), 214
- add_dataset_par () (in module *tardis.tardis_portal.views.parameters*), 215
- add_experiment_par () (in module *tardis.tardis_portal.views.parameters*), 215
- add_migrate_account_menu_item () (in module *tardis.apps.openid_migration.user_menu_modifiers*), 93
- add_migration_permission () (in module *tardis.apps.social_auth.auth.social_auth*), 121
- add_par () (in module *tardis.tardis_portal.views.parameters*), 215
- add_path () (*tardis.apps.sftp.sftp.DynamicTree* method), 115
- add_path_elems () (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- add_ssh_keys_menu_item () (in module *tardis.apps.sftp.user_menu_modifiers*), 120
- add_user_permissions () (in module

`tardis.apps.social_auth.auth.social_auth`), 121

added (`tardis.apps.sftp.models.SFTPPublicKeyAttribute`), 115

AddUserPermissionsForm (class in `tardis.tardis_portal.forms`), 234

administrator (`tardis.apps.push_to.models.RemoteHostAttribute`), 98

administrator_id (`tardis.apps.push_to.models.RemoteHostAttribute`), 99

ADMINS (in module `tardis.default_settings.admins`), 122

AdvanceSearchAppResource (class in `tardis.apps.search.api`), 107

AdvanceSearchAppResource.Meta (class in `tardis.apps.search.api`), 107

all() (`tardis.tardis_portal.managers.ExperimentManager` method), 240

allow_for_all (`tardis.apps.push_to.models.OAuthSSHCertSigningServiceAttribute`), 97

allow_reuse_address (`tardis.apps.sftp.sftp.MyTSFTPTCPServerAttribute`), 118

allowed_groups (`tardis.apps.push_to.models.OAuthSSHCertSigningServiceAttribute`), 97

ALLOWED_HOSTS, 45

ALLOWED_HOSTS (in module `tardis.default_settings.debug`), 124

allowed_methods (`tardis.tardis_portal.api.UserResource.MetaAttribute`), 231

allowed_remote_hosts (`tardis.apps.push_to.models.OAuthSSHCertSigningServiceAttribute`), 97

allowed_users (`tardis.apps.push_to.models.OAuthSSHCertSigningServiceAttribute`), 97

allows_distribution (`tardis.tardis_portal.models.license.LicenseAttribute`), 163

always_return_data (`tardis.apps.search.api.AdvanceSearchAppResource.MetaAttribute`), 107

always_return_data (`tardis.apps.search.api.SearchAppResource.MetaAttribute`), 108

always_return_data (`tardis.tardis_portal.api.DatasetResource.MetaAttribute`), 225

always_return_data (`tardis.tardis_portal.api.ExperimentAuthorResource.MetaAttribute`), 226

always_return_data (`tardis.tardis_portal.api.ExperimentResource.MetaAttribute`), 227

always_return_data (`tardis.tardis_portal.api.FacilityResource.MetaAttribute`), 227

always_return_data (`tardis.tardis_portal.api.InstrumentResource.MetaAttribute`), 228

AnalyticsConfig (class in `tardis.analytics.apps`), 75

ApiKeyDownloadTestCase (class in `tardis.tardis_portal.tests.test_download_apikey`), 204

ApiKeyTestCase (class in `tardis.tardis_portal.tests.models.test_generate_api_key`), 197

app_dependencies (`tardis.app_config.AbstractTardisAppConfigAttribute`), 247

app_label (`tardis.tardis_portal.auth.authorisation.ACLAwareBackendAttribute`), 129

app_label (`tardis.tardis_portal.models.parameters.Parameter.MetaAttribute`), 173

app_label (`tardis.tardis_portal.models.parameters.ParameterSet.MetaAttribute`), 177

apply_filters() (`tardis.tardis_portal.models.datafile.DataFileObject` method), 149

approve_user_auth() (in module `tardis.apps.social_auth.auth.social_auth`), 121

approved (`tardis.tardis_portal.models.access_control.UserAuthenticationAttribute`), 143

approved (`tardis.tardis_portal.models.experiment.ExperimentAttribute`), 155

args (`tardis.tardis_portal.management.commands.dumpschemas.CommandAttribute`), 135

args (`tardis.tardis_portal.management.commands.loadschemas.CommandAttribute`), 135

args (`tardis.tardis_portal.management.commands.rmexperiment.CommandAttribute`), 136

attributes (`tardis.tardis_portal.models.storage.StorageBoxAttribute`), 181

auth_timeout (`tardis.apps.sftp.sftp.MyTSFTPRequestHandlerAttribute`), 116

authenticate() (`tardis.tardis_portal.auth.authorisation.ACLAwareBackend` method), 129

authenticate() (`tardis.tardis_portal.auth.authservice.AuthService` method), 129

authenticate() (`tardis.tardis_portal.auth.interfaces.AuthProvider` method), 132

authenticate() (`tardis.tardis_portal.auth.localdb_auth.DjangoAuthBackend` method), 133

authenticate() (`tardis.tardis_portal.tests.test_authservice.MockAuthService` method), 203

authentication (`tardis.apps.search.api.AdvanceSearchAppResource.MetaAttribute`), 107

authentication (`tardis.apps.search.api.SearchAppResource.MetaAttribute`), 108

authentication (`tardis.apps.sftp.api.SFTPPublicKeyAppResource.MetaAttribute`), 113

- authentication (*tardis.tardis_portal.api.GroupResourceMeta* attribute), 227
- authentication (*tardis.tardis_portal.api.MyTardisModelResourceMeta* attribute), 228
- authentication (*tardis.tardis_portal.api.ObjectACLResourceMeta* attribute), 229
- authentication (*tardis.tardis_portal.api.UserResourceMeta* attribute), 231
- authenticationMethod base_fields (*tardis.apps.sftp.forms.KeyGenerateForm* attribute), 114
- AuthenticationTestCase (class in *tardis.tardis_portal.admin.DatafileAdminForm* attribute), 218
- author (*tardis.tardis_portal.models.experiment.ExperimentAuthor* attribute), 158
- authorization (*tardis.apps.s3utils.api.ReplicaAppResourceMeta* attribute), 105
- authorization (*tardis.apps.sftp.api.SFTPPublicKeyAppResourceMeta* attribute), 113
- authorization (*tardis.tardis_portal.api.GroupResourceMeta* attribute), 227
- authorization (*tardis.tardis_portal.api.MyTardisModelResourceMeta* attribute), 228
- authorization (*tardis.tardis_portal.api.ObjectACLResourceMeta* attribute), 229
- authorization (*tardis.tardis_portal.api.UserResourceMeta* attribute), 231
- authorize_remote_access() (in module *tardis.apps.push_to.views*), 101
- AuthorTestCase (class in *tardis.tardis_portal.tests.models.test_authors*), 196
- AuthProvider (class in *tardis.tardis_portal.auth.interfaces*), 132
- AuthService (class in *tardis.tardis_portal.auth.authservice*), 129
- AuthServiceTestCase (class in *tardis.tardis_portal.tests.test_authservice*), 203
- autocache (*tardis.tardis_portal.models.storage.StorageBox* attribute), 181
- AUTOGENERATE_API_KEY (in module *tardis.default_settings.auth*), 123
- ## B
- BackgroundTaskTestCase (class in *tardis.tardis_portal.tests.test_tasks*), 209
- base_fields (*tardis.apps.push_to.models.CredentialForm* attribute), 96
- base_fields (*tardis.apps.related_info.forms.RelatedInfoForm* attribute), 104
- base_fields (*tardis.apps.s3utils.api.ReplicaAppResource* attribute), 105
- base_fields (*tardis.apps.search.api.AdvanceSearchAppResource* attribute), 108
- base_fields (*tardis.apps.search.api.SearchAppResource* attribute), 109
- base_fields (*tardis.apps.sftp.api.SFTPPublicKeyAppResource* attribute), 113
- base_fields (*tardis.apps.sftp.forms.KeyAddForm* attribute), 114
- base_fields (*tardis.tardis_portal.admin.DatafileAdminForm* attribute), 218
- base_fields (*tardis.tardis_portal.admin.DataFileObjectInlineForm* attribute), 218
- base_fields (*tardis.tardis_portal.admin.StorageBoxAttributeInlineForm* attribute), 221
- base_fields (*tardis.tardis_portal.admin.StorageBoxForm* attribute), 221
- base_fields (*tardis.tardis_portal.admin.StorageBoxOptionInlineForm* attribute), 222
- base_fields (*tardis.tardis_portal.api.DatafileParameterResource* attribute), 224
- base_fields (*tardis.tardis_portal.api.DatafileParameterSetResource* attribute), 224
- base_fields (*tardis.tardis_portal.api.DataFileResource* attribute), 223
- base_fields (*tardis.tardis_portal.api.DatasetParameterResource* attribute), 225
- base_fields (*tardis.tardis_portal.api.DatasetParameterSetResource* attribute), 225
- base_fields (*tardis.tardis_portal.api.DatasetResource* attribute), 225
- base_fields (*tardis.tardis_portal.api.ExperimentAuthorResource* attribute), 226
- base_fields (*tardis.tardis_portal.api.ExperimentParameterResource* attribute), 226
- base_fields (*tardis.tardis_portal.api.ExperimentParameterSetResource* attribute), 226
- base_fields (*tardis.tardis_portal.api.ExperimentResource* attribute), 227
- base_fields (*tardis.tardis_portal.api.FacilityResource* attribute), 227
- base_fields (*tardis.tardis_portal.api.GroupResource* attribute), 228
- base_fields (*tardis.tardis_portal.api.InstrumentResource* attribute), 228
- base_fields (*tardis.tardis_portal.api.LocationResource* attribute), 228
- base_fields (*tardis.tardis_portal.api.MyTardisModelResource* attribute), 229
- base_fields (*tardis.tardis_portal.api.ObjectACLResource* attribute), 229
- base_fields (*tardis.tardis_portal.api.ParameterNameResource* attribute), 229

base_fields (*tardis.tardis_portal.api.ParameterResource* attribute), 229

base_fields (*tardis.tardis_portal.api.ParameterSetResource* attribute), 229

base_fields (*tardis.tardis_portal.api.ReplicaResource* attribute), 230

base_fields (*tardis.tardis_portal.api.SchemaResource* attribute), 230

base_fields (*tardis.tardis_portal.api.StorageBoxAttributeResource* attribute), 231

base_fields (*tardis.tardis_portal.api.StorageBoxOptionResource* attribute), 231

base_fields (*tardis.tardis_portal.api.StorageBoxResource* attribute), 231

base_fields (*tardis.tardis_portal.api.UserResource* attribute), 232

base_fields (*tardis.tardis_portal.forms.AddUserPermissionsForm* attribute), 234

base_fields (*tardis.tardis_portal.forms.CreateUserPermissionsForm* attribute), 235

base_fields (*tardis.tardis_portal.forms.DatasetForm* attribute), 235

base_fields (*tardis.tardis_portal.forms.ExperimentAuthor* attribute), 235

base_fields (*tardis.tardis_portal.forms.ExperimentForm* attribute), 236

base_fields (*tardis.tardis_portal.forms.ImportParamsForm* attribute), 237

base_fields (*tardis.tardis_portal.forms.LoginForm* attribute), 237

base_fields (*tardis.tardis_portal.forms.ManageAccountForm* attribute), 237

base_fields (*tardis.tardis_portal.forms.ManageGroupPermissionsForm* attribute), 238

base_fields (*tardis.tardis_portal.forms.RegisterExperimentForm* attribute), 238

base_fields (*tardis.tardis_portal.forms.RegistrationForm* attribute), 239

base_fields (*tardis.tardis_portal.forms.RightsForm* attribute), 239

BaseProvider (class in *tardis.apps.oaipmh.provider.base*), 81, 251

BaseProviderTestCase (class in *tardis.apps.oaipmh.tests.provider.test_base*), 84

blank_param (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager* attribute), 217

BLEACH_ALLOWED_ATTRIBUTES (in module *tardis.default_settings.frontend*), 126

BLEACH_ALLOWED_TAGS (in module *tardis.default_settings.frontend*), 126

bleach_value () (in module *tardis.tardis_portal.templatetags.bleach_tag*), 188

build_template_html () (in module *tardis.tardis_portal.email*), 234

build_template_text () (in module *tardis.tardis_portal.email*), 234

BUNDLE (*tardis.tardis_portal.models.storage.StorageBox* attribute), 180

bytes_available () (in module *tardis.apps.push_to.utils*), 101

C

cache (*tardis.tardis_portal.models.storage.StorageBox* attribute), 180

cache_box (*tardis.tardis_portal.models.storage.StorageBox* attribute), 181

cache_file () (*tardis.tardis_portal.models.datafile.DataFile* method), 146

cache_file () (*tardis.tardis_portal.models.datafile.DataFileObject* method), 149

CACHES (in module *tardis.default_settings.caches*), 123

calculate_checksums () (in module *tardis.apps.s3utils.utils*), 106

calculate_checksums () (*tardis.tardis_portal.models.datafile.DataFileObject* method), 149

CALCULATE_CHECKSUMS_METHODS (in module *tardis.default_settings.storage*), 127

can_copy () (in module *tardis.apps.push_to.utils*), 101

can_publish () (*tardis.tardis_portal.publish.provider.rifcsprovider.RifC* method), 187

canDelete (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 141

canonicalize () (*tardis.apps.sftp.sftp.MyTSFTPServerInterface* method), 116

canRead (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 142

canWrite (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 142

capture () (in module *tardis.tardis_portal.templatetags.capture*), 189

CaptureNode (class in *tardis.tardis_portal.templatetags.capture*), 189

cast_string_to_integer () (in module *tardis.tardis_portal.migrations.0001_squashed_0011_auto_2016*), 136

cast_string_to_integer () (in module *tardis.tardis_portal.migrations.0005_datafile_add_size_int_column*), 137

cert_signing_url (*tardis.apps.push_to.models.OAuthSSHCertSigning* attribute), 98

check_app_dependencies () (in module *tardis.app_config*), 247

- `check_auth_interactive()` (*tardis.apps.sftp.sftp.MyTServerInterface* method), 118
- `check_auth_interactive_response()` (*tardis.apps.sftp.sftp.MyTServerInterface* method), 118
- `check_auth_password()` (*tardis.apps.sftp.sftp.MyTServerInterface* method), 118
- `check_auth_publickey()` (*tardis.apps.sftp.sftp.MyTServerInterface* method), 119
- `check_channel_request()` (*tardis.apps.sftp.sftp.MyTServerInterface* method), 119
- `check_if_facility_manager()` (in module *tardis.tardis_portal.templatetags.facility_tags*), 189
- `check_if_user_not_approved()` (in module *tardis.tardis_portal.templatetags.approved_user_tags*), 188
- `check_paths()` (*tardis.tardis_portal.tests.slapd.Slapd* class method), 201
- `child_boxes` (*tardis.tardis_portal.models.storage.StorageBox* attribute), 181
- `CHOICES` (*tardis.tardis_portal.models.access_control.UserAuthentication* attribute), 143
- `choices` (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175
- `classic_mapper()` (in module *tardis.tardis_portal.download*), 233
- `clean()` (*tardis.apps.sftp.forms.KeyAddForm* method), 114
- `clean()` (*tardis.tardis_portal.forms.RegistrationForm* method), 239
- `clean()` (*tardis.tardis_portal.forms.RightsForm* method), 239
- `clean()` (*tardis.tardis_portal.forms.StaticField* method), 239
- `clean_username()` (*tardis.tardis_portal.forms.RegistrationForm* attribute), 142
- `cleanup()` (*tardis.apps.filepicker.utils.FilepickerFile* method), 81
- `clear_children()` (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- `close()` (*tardis.analytics.tracker.IteratorTracker* method), 75
- `close_gzip()` (*tardis.tardis_portal.download.UncachedTarStream* attribute), 142
- `close_request()` (*tardis.apps.sftp.sftp.MyTSFTPTCP*Server method), 118
- `CollectstaticTest` (class in *tardis.tardis_portal.tests.management.test_collectstatic*), 195
- `Command` (class in *tardis.apps.sftp.management.commands.sftpd*), 111
- `Command` (class in *tardis.tardis_portal.management.commands.createuser*), 135
- `Command` (class in *tardis.tardis_portal.management.commands.dumpschem*), 135
- `Command` (class in *tardis.tardis_portal.management.commands.loadschem*), 135
- `Command` (class in *tardis.tardis_portal.management.commands.rmexperim*), 136
- `CommaSeparatedInput` (class in *tardis.tardis_portal.widgets*), 244
- `comparison_type` (*tardis.tardis_portal.models.parameters.ParameterN* attribute), 175
- `compliance_header()` (in module *tardis.tardis_portal.iiif*), 240
- `compress()` (*tardis.tardis_portal.download.UncachedTarStream* method), 233
- `compress()` (*tardis.tardis_portal.fields.MultiValueCommaSeparatedFiel*d method), 234
- `compute_checksums()` (in module *tardis.tardis_portal.models.datafile*), 150
- `compute_etag()` (in module *tardis.tardis_portal.iiif*), 240
- `compute_size()` (*tardis.tardis_portal.download.UncachedTarStream* method), 233
- `configure()` (*tardis.tardis_portal.tests.slapd.Slapd* method), 201
- `configure_social_auth_user()` (in module *tardis.apps.social_auth.auth.social_auth*), 121
- `configure_user()` (in module *tardis.tardis_portal.auth.utils*), 134
- `confirm_migration()` (in module *tardis.apps.openid_migration.migration*), 90
- `CONTAINS_COMPARISON` (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 174
- `content_object` (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 142
- `content_type` (*tardis.apps.eventlog.models.Log* attribute), 79
- `content_type` (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 142
- `content_type_id` (*tardis.apps.eventlog.models.Log* attribute), 79
- `content_type_id` (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 142
- `ContextualViewTest` (class in *tardis.tardis_portal.tests.views.test_contextual_views*), 199
- `copy_file()` (*tardis.tardis_portal.models.datafile.DataFileObject* method), 149
- `copy_files()` (*tardis.tardis_portal.models.storage.StorageBox* method), 195

method), 181
 copy_to_master() (*tardis.tardis_portal.models.storage.StorageBox* attribute), 161
method), 181
 CopyMoveTestCase (class in *tardis.tardis_portal.tests.test_copy_move*), 203
 create_detail() (*tardis.apps.sftp.api.SFTPAuthorisation* attribute *method*), 112
 create_detail() (*tardis.tardis_portal.api.ACLAuthorisation* attribute *method*), 222
 create_experiment() (in module *tardis.tardis_portal.views.pages*), 214
 create_group() (in module *tardis.tardis_portal.views.authorisation*), 211
 create_list() (*tardis.tardis_portal.api.ACLAuthorisation* attribute *method*), 222
 create_local_box() (*tardis.tardis_portal.models.storage.StorageBox* class *method*), 181
 create_OpenidUserMigration() (*tardis.apps.openid_migration.tests.test_models.ModelTestCases* attribute *method*), 88
 create_parameter_add_form() (in module *tardis.tardis_portal.forms*), 240
 create_parameterset_edit_form() (in module *tardis.tardis_portal.forms*), 240
 create_set_uri() (*tardis.tardis_portal.models.datafile.DataFileObject* attribute *method*), 149
 create_user() (in module *tardis.tardis_portal.auth.utils*), 134
 create_user() (in module *tardis.tardis_portal.views.authentication*), 211
 create_user_api_key() (in module *tardis.tardis_portal.models.access_control*), 145
 create_user_profile() (in module *tardis.tardis_portal.models.access_control*), 145
 created_by (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155
 created_by_id (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155
 created_time (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 146
 created_time (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 149
 created_time (*tardis.tardis_portal.models.dataset.Dataset* attribute), 151
 created_time (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155
 created_time (*tardis.tardis_portal.models.facility.Facility* attribute), 160
 created_time (*tardis.tardis_portal.models.instrument.Instrument* attribute), 161
 created_time (*tardis.tardis_portal.models.jti.JTI* attribute), 162
 createLinkedUserAuthenticationForm() (in module *tardis.tardis_portal.forms*), 240
 createLinkedUserTestCases (class in *tardis.apps.related_info.tests.tests*), 102
 createLinkedUserPermissionsForm (class in *tardis.tardis_portal.forms*), 234
 CreateUserTestCase (class in *tardis.tardis_portal.tests.management.test_createuser*), 195
 Credential (class in *tardis.apps.push_to.models*), 94
 Credential.DoesNotExist, 94
 Credential.MultipleObjectsReturned, 94
 credential_set (*tardis.apps.push_to.models.RemoteHost* attribute), 99
 CredentialAdmin (class in *tardis.apps.push_to.models*), 95
 CredentialForm (class in *tardis.apps.push_to.models*), 96
 CredentialForm.Meta (class in *tardis.apps.push_to.models*), 96
 cyberduck_connection_window() (in module *tardis.apps.sftp.views*), 121

D

DataFileObject
 data_type (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175
 DATABASE_ENGINE (*tardis.default_settings* attribute), 45
 DATABASE_HOST (*tardis.default_settings* attribute), 45
 DATABASE_NAME (*tardis.default_settings* attribute), 45
 DATABASE_PASSWORD (*tardis.default_settings* attribute), 45
 DATABASE_PORT (*tardis.default_settings* attribute), 45
 DATABASE_USER (*tardis.default_settings* attribute), 45
 DataFile (class in *tardis.tardis_portal.models.datafile*), 145
 DataFileObject (class in *tardis.tardis_portal.models.datafile*), 149
 DatafileParameterSet (class in *tardis.tardis_portal.models.parameters*), 165
 DATAFILE (*tardis.tardis_portal.models.parameters.Schema* attribute), 178
 DataFile.DoesNotExist, 146
 DataFile.MultipleObjectsReturned, 146
 datafile_access_required() (in module *tardis.tardis_portal.auth.decorators*), 130
 datafile_id (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 149
 datafile_id (*tardis.tardis_portal.models.parameters.DatafileParameterSet* attribute), 165

datafile_set (*tardis.tardis_portal.models.dataset.Dataset* attribute), 151
DatafileAdmin (class in *tardis.tardis_portal.admin*), 218
DatafileAdminForm (class in *tardis.tardis_portal.admin*), 218
DatafileAdminForm.Meta (class in *tardis.tardis_portal.admin*), 218
DataFileDocument (class in *tardis.apps.search.documents*), 109
DataFileDocument.Django (class in *tardis.apps.search.documents*), 109
DataFileDocument.Index (class in *tardis.apps.search.documents*), 109
DataFileObject (class in *tardis.tardis_portal.models.datafile*), 148
DataFileObject.DoesNotExist, 148
DataFileObject.MultipleObjectsReturned, 149
DataFileObjectInline (class in *tardis.tardis_portal.admin*), 217
DataFileObjectInlineForm (class in *tardis.tardis_portal.admin*), 217
DataFileObjectInlineForm.Meta (class in *tardis.tardis_portal.admin*), 217
DataFileObjectTestCase (class in *tardis.tardis_portal.tests.models.test_dfo*), 197
DatafileParameter (class in *tardis.tardis_portal.models.parameters*), 164
DatafileParameter.DoesNotExist, 164
DatafileParameter.MultipleObjectsReturned, 164
datafileparameter_set (*tardis.tardis_portal.models.parameters.DatafileParameterSet* attribute), 165
datafileparameter_set (*tardis.tardis_portal.models.parameters.ParameterSet* attribute), 175
DatafileParameterResource (class in *tardis.tardis_portal.api*), 224
DatafileParameterResource.Meta (class in *tardis.tardis_portal.api*), 224
DatafileParameterResourceTest (class in *tardis.tardis_portal.tests.api.test_datafile_metadata_resources*), 191
DatafileParameterSet (class in *tardis.tardis_portal.models.parameters*), 165
DatafileParameterSet.DoesNotExist, 165
DatafileParameterSet.MultipleObjectsReturned, 165
datafileparameterset_set (*tardis.tardis_portal.models.datafile.DataFile* attribute), 146
datafileparameterset_set (*tardis.tardis_portal.models.parameters.Schema* attribute), 179
DatafileParameterSetResource (class in *tardis.tardis_portal.api*), 224
DatafileParameterSetResource.Meta (class in *tardis.tardis_portal.api*), 224
DatafileParameterSetResourceTest (class in *tardis.tardis_portal.tests.api.test_datafile_metadata_resources*), 191
datafileparametersets (*tardis.tardis_portal.models.storage.StorageBox* attribute), 181
DataFileResource (class in *tardis.tardis_portal.api*), 223
DataFileResource.Meta (class in *tardis.tardis_portal.api*), 223
DataFileResourceTest (class in *tardis.tardis_portal.tests.api.test_datafile_resource*), 191
DatafileSaveMetadataTestCase (class in *tardis.tardis_portal.tests.test_df_save_metadata*), 204
DataFileTestCase (class in *tardis.tardis_portal.tests.models.test_datafile*), 197
Dataset (class in *tardis.tardis_portal.models.dataset*), 151
dataset (*tardis.tardis_portal.models.datafile.DataFile* attribute), 146
dataset (*tardis.tardis_portal.models.parameters.DatasetParameterSet* attribute), 167
DATASET (*tardis.tardis_portal.models.parameters.Schema* attribute), 178
Dataset.DoesNotExist, 151
Dataset.MultipleObjectsReturned, 151
dataset_name_access_required() (in module *tardis.tardis_portal.auth.decorators*), 130
dataset_aggregate_info() (in module *tardis.tardis_portal.views.facilities*), 212
dataset_download_required() (in module *tardis.tardis_portal.auth.decorators*), 130
dataset_id (*tardis.tardis_portal.models.datafile.DataFile* attribute), 146
dataset_id (*tardis.tardis_portal.models.parameters.DatasetParameterSet* attribute), 167
dataset_set (*tardis.tardis_portal.models.instrument.Instrument* attribute), 161
DATASET_VIEWS (in module *tardis.default_settings.custom_views*), 123
dataset_write_permissions_required() (in module *tardis.tardis_portal.auth.decorators*),

130
DatasetAdmin (class in *tardis.tardis_portal.admin*), 218
DatasetDocument (class in *tardis.apps.search.documents*), 110
DatasetDocument.Django (class in *tardis.apps.search.documents*), 110
DatasetDocument.Index (class in *tardis.apps.search.documents*), 110
DatasetForm (class in *tardis.tardis_portal.forms*), 235
DatasetForm.Meta (class in *tardis.tardis_portal.forms*), 235
DatasetParameter (class in *tardis.tardis_portal.models.parameters*), 166
DatasetParameter.DoesNotExist, 166
DatasetParameter.MultipleObjectsReturned, 166
datasetparameter_set (class in *tardis.tardis_portal.models.parameters.DatasetParameterSet* (attribute), 167
datasetparameter_set (class in *tardis.tardis_portal.models.parameters.ParameterName* (attribute), 175
DatasetParameterResource (class in *tardis.tardis_portal.api*), 224
DatasetParameterResource.Meta (class in *tardis.tardis_portal.api*), 224
DatasetParameterResourceTest (class in *tardis.tardis_portal.tests.api.test_dataset_metadata_resources*), 191
DatasetParameterSet (class in *tardis.tardis_portal.models.parameters*), 167
DatasetParameterSet.DoesNotExist, 167
DatasetParameterSet.MultipleObjectsReturned, 167
datasetparameterset_set (class in *tardis.tardis_portal.models.dataset.DatasetParameterSet* (attribute), 152
datasetparameterset_set (class in *tardis.tardis_portal.models.parameters.Schema* (attribute), 179
DatasetParameterSetResource (class in *tardis.tardis_portal.api*), 225
DatasetParameterSetResource.Meta (class in *tardis.tardis_portal.api*), 225
DatasetParameterSetResourceTest (class in *tardis.tardis_portal.tests.api.test_dataset_metadata_resources*), 191
datasetparametersets (class in *tardis.tardis_portal.models.storage.StorageBox* (attribute), 181
DatasetResource (class in *tardis.tardis_portal.api*), 225
DatasetResource.Meta (class in *tardis.tardis_portal.api*), 225
DatasetResourceTest (class in *tardis.tardis_portal.tests.api.test_dataset_resource*), 192
datasets (class in *tardis.tardis_portal.models.experiment.Experiment* (attribute), 155
DatasetTestCase (class in *tardis.tardis_portal.tests.models.test_dataset*), 197
DatasetView (class in *tardis.tardis_portal.views.pages*), 212
DATETIME (class in *tardis.tardis_portal.models.parameters.ParameterName* (attribute), 174
datetime_to_us () (in module *tardis.tardis_portal.views.facilities*), 212
datetime_value (class in *tardis.tardis_portal.models.parameters.ParameterName* (attribute), 173
datetime_value (class in *tardis.apps.eventlog.fields.JSONField* (method), 78
DBHostKeyPolicy (class in *tardis.apps.push_to.models*), 96
DcExperimentProvider (class in *tardis.apps.oaipmh.provider.experiment*), 83
DcExperimentProviderTestCase (class in *tardis.apps.oaipmh.tests.provider.test_experiment*), 85
DcExperimentProviderTestCase (class in *tardis.default_settings.debug*), 124
declared_fields (class in *tardis.apps.push_to.models.CredentialForm* (attribute), 96
declared_fields (class in *tardis.apps.related_info.forms.RelatedInfoForm* (attribute), 104
declared_fields (class in *tardis.apps.s3utils.api.ReplicaAppResource* (attribute), 105
declared_fields (class in *tardis.apps.search.api.AdvanceSearchAppResource* (attribute), 108
declared_fields (class in *tardis.apps.search.api.SearchAppResource* (attribute), 109
declared_fields (class in *tardis.apps.sftp.api.SFTPPublicKeyAppResource* (attribute), 113
declared_fields (class in *tardis.apps.sftp.forms.KeyAddForm* (attribute), 114
declared_fields (class in *tardis.apps.sftp.forms.KeyGenerateForm* (attribute), 114
declared_fields (class in *tardis.tardis_portal.admin.DatafileAdminForm* (attribute), 218
declared_fields (class in *tardis.tardis_portal.admin.DataFileObjectInlineForm* (attribute), 218
declared_fields (class in *tardis.tardis_portal.admin.StorageBoxAttributeInlineForm* (attribute), 221
declared_fields (class in *tardis.tardis_portal.admin.StorageBoxForm* (attribute), 221

declared_fields (*tardis.tardis_portal.admin.StorageBoxOptionInlineForm* (attribute), 222 *tardis.tardis_portal.forms.CreateUserPermissionsForm* (attribute), 235

declared_fields (*tardis.tardis_portal.api.DatafileParameterResource* (attribute), 224 *tardis.tardis_portal.forms.DatasetForm* (attribute), 235

declared_fields (*tardis.tardis_portal.api.DatafileParameterSetResource* (attribute), 224 *tardis.tardis_portal.forms.ExperimentAuthor* (attribute), 236

declared_fields (*tardis.tardis_portal.api.DataFileResource* (attribute), 223 *tardis.tardis_portal.forms.ExperimentForm* (attribute), 236

declared_fields (*tardis.tardis_portal.api.DatasetParameterResource* (attribute), 225 *tardis.tardis_portal.forms.ImportParamsForm* (attribute), 237

declared_fields (*tardis.tardis_portal.api.DatasetParameterSetResource* (attribute), 225 *tardis.tardis_portal.forms.LoginForm* (attribute), 237

declared_fields (*tardis.tardis_portal.api.DatasetResource* (attribute), 225 *tardis.tardis_portal.forms.ManageAccountForm* (attribute), 237

declared_fields (*tardis.tardis_portal.api.ExperimentAuthorResource* (attribute), 226 *tardis.tardis_portal.forms.ManageGroupPermission* (attribute), 238

declared_fields (*tardis.tardis_portal.api.ExperimentParameterResource* (attribute), 226 *tardis.tardis_portal.forms.RegisterExperimentForm* (attribute), 238

declared_fields (*tardis.tardis_portal.api.ExperimentParameterSetResource* (attribute), 226 *tardis.tardis_portal.forms.RegistrationForm* (attribute), 239

declared_fields (*tardis.tardis_portal.api.ExperimentResource* (attribute), 227 *tardis.tardis_portal.forms.RightsForm* (attribute), 239

declared_fields (*tardis.tardis_portal.api.FacilityResource* (attribute), 227 *deep_storage_mapper ()* (in module *tardis.apps.deep_storage_download_mapper.mapper*), 76

declared_fields (*tardis.tardis_portal.api.GroupResource* (attribute), 228 *DEFAULT_ARCHIVE_FORMATS* (in module *tardis.default_settings.downloads*), 124

declared_fields (*tardis.tardis_portal.api.InstrumentResource* (attribute), 228 *DEFAULT_FROM_EMAIL* (in module *tardis.default_settings.email*), 125

declared_fields (*tardis.tardis_portal.api.LocationResource* (attribute), 228 *DEFAULT_STORAGE_BASE_DIR* (*tardis.default_settings* attribute), 45

declared_fields (*tardis.tardis_portal.api.MyTardisModelResource* (attribute), 229 *dehydrate ()* (*tardis.apps.sftp.api.SFTPPublicKeyAppResource* method), 113

declared_fields (*tardis.tardis_portal.api.ObjectACLResource* (attribute), 229 *dehydrate ()* (*tardis.tardis_portal.api.DatasetResource* method), 225

declared_fields (*tardis.tardis_portal.api.ParameterNameResource* (attribute), 229 *dehydrate ()* (*tardis.tardis_portal.api.ExperimentResource* method), 227

declared_fields (*tardis.tardis_portal.api.ParameterResource* (attribute), 229 *dehydrate ()* (*tardis.tardis_portal.api.ReplicaResource* method), 230

declared_fields (*tardis.tardis_portal.api.ParameterSetResource* (attribute), 230 *dehydrate ()* (*tardis.tardis_portal.api.UserResource* method), 232

declared_fields (*tardis.tardis_portal.api.ReplicaResource* (attribute), 230 *delete_all_params ()* (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager* method), 217

declared_fields (*tardis.tardis_portal.api.SchemaResource* (attribute), 230 *delete_dfo ()* (in module *tardis.tardis_portal.models.datafile.DataFileObject* method), 149

declared_fields (*tardis.tardis_portal.api.StorageBoxAttributeResource* (attribute), 231 *detail ()* (*tardis.apps.sftp.api.SFTPACLAuthorization* method), 112

declared_fields (*tardis.tardis_portal.api.StorageBoxOptionResource* (attribute), 231 *resource_detail ()* (*tardis.tardis_portal.api.ACLAuthorization* method), 223

declared_fields (*tardis.tardis_portal.api.StorageBoxResource* (attribute), 231 *delete_dfo ()* (in module *tardis.tardis_portal.models.datafile*), 151

declared_fields (*tardis.tardis_portal.api.UserResource* (attribute), 232 *factory_content ()* (in module *tardis.tardis_portal.tests.slapped*), 202

declared_fields (*tardis.tardis_portal.forms.AddUserPermissionsForm* (attribute), 234

delete_list() (*tardis.tardis_portal.api.ACLAuthorization* dependencies (*tardis.tardis_portal.migrations.0016_add_timestamps.M*
method), 223 *attribute*), 139

delete_params() (*tardis.tardis_portal.ParameterSetManager.ParametersSetManager* dependencies (*tardis.tardis_portal.migrations.0017_add_cc_licenses.M*
method), 217 *attribute*), 139

delete_permissions_required() (*in module dependencies (tardis.tardis_portal.migrations.0018_make_default_stor*
tardis.tardis_portal.auth.decorators), 130 *attribute*), 140

deleted (*tardis.tardis_portal.models.datafile.DataFile* description (*tardis.tardis_portal.models.dataset.Dataset*
attribute), 146 *attribute*), 152

deleted_time (*tardis.tardis_portal.models.datafile.DataFile* description (*tardis.tardis_portal.models.experiment.Experiment*
attribute), 146 *attribute*), 156

DeleteTestCase (class *in description (tardis.tardis_portal.models.storage.StorageBox*
tardis.apps.related_info.tests.tests), 102 *attribute*), 182

dependencies (*tardis.apps.eventlog.migrations.0001_initial.Migration* delete () (*tardis.tardis_portal.api.DataFileResource*
attribute), 77 *method*), 223

dependencies (*tardis.apps.openid_migration.migrations.0001_initial.Migration* dependencies methods
attribute), 88 *(tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta*
attribute), 113

dependencies (*tardis.apps.push_to.migrations.0001_initial.Migration* detail_uri_kwargs ()
attribute), 93 *(tardis.tardis_portal.api.AdvanceSearchAppResource*
method), 108

dependencies (*tardis.apps.push_to.migrations.0002_auto_20160518_1953.Migration* detail_uri_kwargs ()
attribute), 93 *(tardis.apps.search.api.SearchAppResource*
method), 109

dependencies (*tardis.apps.sftp.migrations.0001_initial.Migration* df_dir_only () (*in module*
attribute), 111 *tardis.tardis_portal.migrations.0001_initial.Migration*), 76

dependencies (*tardis.tardis_portal.migrations.0001_initial.Migration* df_dir_only () (*in module*
attribute), 136 *tardis.tardis_portal.migrations.0001_squashed_0016_20160505_1643.Migration*), 76

dependencies (*tardis.tardis_portal.migrations.0001_squashed_0016_20160505_1643.Migration* *tardis.tardis_portal.models.datafile.DataFile*
attribute), 136 *attribute*), 146

dependencies (*tardis.tardis_portal.migrations.0002_auto_20150528_1128.Migration* *tardis.tardis_portal.models.datafile.DataFile*
attribute), 137 *attribute*), 146

dependencies (*tardis.tardis_portal.migrations.0003_auto_20150907_1313.Migration* *tardis.tardis_portal.models.dataset.Dataset*
attribute), 137 *attribute*), 152

dependencies (*tardis.tardis_portal.migrations.0004_storage_boxox (tardis.tardis_portal.models.storage.StorageBox*
attribute), 137 *attribute*), 180

dependencies (*tardis.tardis_portal.migrations.0005_datafile_add (tardis.tardis_portal.models.storage.StorageBox*
attribute), 137 *attribute*), 109

dependencies (*tardis.tardis_portal.migrations.0006_datafile_remove (tardis.tardis_portal.models.storage.StorageBox*
attribute), 137 *attribute*), 110

dependencies (*tardis.tardis_portal.migrations.0007_remove_appraisal (tardis.tardis_portal.models.storage.StorageBox*
attribute), 138 *attribute*), 110

dependencies (*tardis.tardis_portal.migrations.0008_string_value_partial_index postgres.Migration*
attribute), 138 *(tardis.tardis_portal.models.storage.StorageBox*
attribute), 138

dependencies (*tardis.tardis_portal.migrations.0009_auto_20160128_1119.Migration* DjangoAuthBackend (class *in*
attribute), 138 *tardis.tardis_portal.migrations.0010_auto_20160503_1443.Migration* *auth.localdb_auth*), 133

dependencies (*tardis.tardis_portal.migrations.0010_auto_20160503_1443.Migration* DjangoGroupProvider (class *in*
attribute), 138 *tardis.tardis_portal.migrations.0011_auto_20160505_1643.Migration* *auth.localdb_auth*), 133

dependencies (*tardis.tardis_portal.migrations.0011_auto_20160505_1643.Migration* DjangoUserProvider (class *in*
attribute), 138 *tardis.tardis_portal.migrations.0012_userauthentication (tardis.tardis_portal.migrations.0012_userauthentication*
attribute), 138 *attribute*), 133

dependencies (*tardis.tardis_portal.migrations.0012_userauthentication (tardis.tardis_portal.migrations.0012_userauthentication*
attribute), 138 *do_file_copy () (in module*
attribute), 139 *tardis.tardis_portal.migrations.0013_auto_20181002_1336.Migration* *tasks*), 100

dependencies (*tardis.tardis_portal.migrations.0013_auto_20181002_1336.Migration* do_migration () (*in module*
attribute), 139 *tardis.tardis_portal.migrations.0014_auto_20181002_1336.Migration* *migration.migration*), 90

dependencies (*tardis.tardis_portal.migrations.0014_auto_20181002_1336.Migration* do_migration () (*in module*
attribute), 139 *tardis.tardis_portal.migrations.0015_data_created_time.Migration (in module*
attribute), 139 *tardis.tardis_portal.download*), 233

- download_datafile() (in module `tardis.tardis_portal.download`), 233
- download_dfo() (`tardis.apps.s3utils.api.ReplicaAppResource` method), 105
- download_file() (`tardis.tardis_portal.api.DataFileResource` method), 223
- download_image() (in module `tardis.tardis_portal.iiif`), 240
- download_info() (in module `tardis.tardis_portal.iiif`), 240
- DOWNLOAD_URI_TEMPLATES (in module `tardis.default_settings.downloads`), 124
- DownloadTestCase (class in `tardis.tardis_portal.tests.test_download`), 204
- DummyStorage (class in `tardis.tardis_portal.storage`), 188
- DumpSchemasTestCase (class in `tardis.tardis_portal.tests.management.test_dumpschemas`), 196
- DynamicTree (class in `tardis.apps.sftp.sftp`), 115
- dynurl() (in module `tardis.tardis_portal.templatetags.dynurl`), 189
- DynUrlNode (class in `tardis.tardis_portal.templatetags.dynurl`), 189
- E**
- edit_auth_method() (in module `tardis.tardis_portal.auth.authentication`), 128
- edit_datafile_par() (in module `tardis.tardis_portal.views.parameters`), 215
- edit_dataset() (in module `tardis.tardis_portal.views.pages`), 214
- edit_dataset_par() (in module `tardis.tardis_portal.views.parameters`), 215
- edit_experiment_par() (in module `tardis.tardis_portal.views.parameters`), 216
- edit_parameters() (in module `tardis.tardis_portal.views.parameters`), 216
- EditParameterSetTestCase (class in `tardis.tardis_portal.tests.test_parametersets`), 207
- effectiveDate (`tardis.tardis_portal.models.access_control.ObjectACL` attribute), 142
- ELASTICSEARCH_PARALLEL_INDEX_SETTINGS (in module `tardis.default_settings.search`), 126
- email (`tardis.tardis_portal.models.experiment.ExperimentAuthor` attribute), 159
- EMAIL_HOST (in module `tardis.default_settings.email`), 125
- EMAIL_HOST_PASSWORD (in module `tardis.default_settings.email`), 125
- EMAIL_HOST_USER (in module `tardis.default_settings.email`), 125
- email_migration_success() (in module `tardis.apps.openid_migration.email_text`), 89
- EMAIL_PORT (in module `tardis.default_settings.email`), 125
- EMAIL_USE_TLS (in module `tardis.default_settings.email`), 125
- email_user() (in module `tardis.tardis_portal.email`), 234
- end_time (`tardis.tardis_portal.models.experiment.Experiment` attribute), 156
- endpoint() (in module `tardis.apps.oaipmh.views`), 87
- EndpointTestCase (class in `tardis.apps.oaipmh.tests.test_oai`), 85
- entityId (`tardis.tardis_portal.models.access_control.ObjectACL` attribute), 142
- error_handler() (in module `tardis.views`), 248
- EXACT_VALUE_COMPARISON (`tardis.tardis_portal.models.parameters.ParameterName` attribute), 175
- Experiment (class in `tardis.tardis_portal.models.experiment`), 154
- experiment (`tardis.tardis_portal.models.experiment.ExperimentAuthor` attribute), 159
- experiment (`tardis.tardis_portal.models.parameters.ExperimentParameter` attribute), 169
- EXPERIMENT (`tardis.tardis_portal.models.parameters.Schema` attribute), 178
- experiment (`tardis.tardis_portal.models.token.Token` attribute), 185
- Experiment.DoesNotExist, 155
- Experiment.MultipleObjectsReturned, 155
- experiment_access_required() (in module `tardis.tardis_portal.auth.decorators`), 130
- experiment_authors() (in module `tardis.tardis_portal.templatetags.experiment_tags`), 189
- experiment_download_link() (in module `tardis.tardis_portal.templatetags.experiment_tags`), 189
- experiment_download_required() (in module `tardis.tardis_portal.auth.decorators`), 130
- experiment_file_count() (in module `tardis.tardis_portal.templatetags.experimentstats`), 189
- experiment_id (`tardis.tardis_portal.models.experiment.ExperimentAuthor` attribute), 159
- experiment_id (`tardis.tardis_portal.models.parameters.ExperimentParameter` attribute), 169

experiment_id (*tardis.tardis_portal.models.token.Token* attribute), 186
 experiment_ownership_required() (in module *tardis.tardis_portal.auth.decorators*), 130
 experiment_set (*tardis.tardis_portal.models.license.License* attribute), 163
 EXPERIMENT_VIEWS (in module *tardis.default_settings.custom_views*), 123
 ExperimentAdmin (class in *tardis.tardis_portal.admin*), 218
 ExperimentAuthor (class in *tardis.tardis_portal.forms*), 235
 ExperimentAuthor (class in *tardis.tardis_portal.models.experiment*), 158
 ExperimentAuthor.DoesNotExist, 158
 ExperimentAuthor.Meta (class in *tardis.tardis_portal.forms*), 235
 ExperimentAuthor.MultipleObjectsReturned, 158
 experimentauthor_set (*tardis.tardis_portal.models.experiment.Experiment* attribute), 156
 ExperimentAuthorResource (class in *tardis.tardis_portal.api*), 226
 ExperimentAuthorResource.Meta (class in *tardis.tardis_portal.api*), 226
 ExperimentDocument (class in *tardis.apps.search.documents*), 110
 ExperimentDocument.Django (class in *tardis.apps.search.documents*), 110
 ExperimentDocument.Index (class in *tardis.apps.search.documents*), 110
 ExperimentForm (class in *tardis.tardis_portal.forms*), 236
 ExperimentForm.FullExperiment (class in *tardis.tardis_portal.forms*), 236
 ExperimentForm.Meta (class in *tardis.tardis_portal.forms*), 236
 ExperimentListsTest (class in *tardis.tardis_portal.tests.views.test_template_contexts*), 199
 ExperimentManager (class in *tardis.tardis_portal.managers*), 240
 ExperimentParameter (class in *tardis.tardis_portal.models.parameters*), 168
 ExperimentParameter.DoesNotExist, 168
 ExperimentParameter.MultipleObjectsReturned, 168
 experimentparameter_set (*tardis.tardis_portal.models.parameters.ExperimentParameterSet* attribute), 170
 experimentparameter_set (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 176
 ExperimentParameterInline (class in *tardis.tardis_portal.admin*), 219
 ExperimentParameterResource (class in *tardis.tardis_portal.api*), 226
 ExperimentParameterResource.Meta (class in *tardis.tardis_portal.api*), 226
 ExperimentParameterResourceTest (class in *tardis.tardis_portal.tests.api.test_experiment_metadata_resource*), 192
 ExperimentParameterSet (class in *tardis.tardis_portal.models.parameters*), 169
 ExperimentParameterSet.DoesNotExist, 169
 ExperimentParameterSet.MultipleObjectsReturned, 169
 experimentparameterset_set (*tardis.tardis_portal.models.experiment.Experiment* attribute), 156
 experimentparameterset_set (*tardis.tardis_portal.models.parameters.Schema* attribute), 179
 ExperimentParameterSetAdmin (class in *tardis.tardis_portal.admin*), 219
 ExperimentParameterSetResource (class in *tardis.tardis_portal.api*), 226
 ExperimentParameterSetResource.Meta (class in *tardis.tardis_portal.api*), 226
 ExperimentParameterSetResourceTest (class in *tardis.tardis_portal.tests.api.test_experiment_metadata_resource*), 192
 experimentparametersets (*tardis.tardis_portal.models.storage.StorageBox* attribute), 182
 ExperimentResource (class in *tardis.tardis_portal.api*), 226
 ExperimentResource.Meta (class in *tardis.tardis_portal.api*), 227
 ExperimentResourceTest (class in *tardis.tardis_portal.tests.api.test_experiment_resource*), 192
 experiments (*tardis.apps.sftp.sftp.MyTSFTPServerInterface* attribute), 116
 experiments (*tardis.tardis_portal.models.dataset.Dataset* attribute), 152
 ExperimentTestCase (class in *tardis.tardis_portal.tests.models.test_experiment*), 197
 ExperimentTestCase (class in *tardis.tardis_portal.tests.views.test_experiment_views*), 197
 ExperimentView (class in *tardis.tardis_portal.views.pages*), 213

- expiry_date (*tardis.tardis_portal.models.token.Token* attribute), 186
- expiryDate (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 142
- ext_groups (*tardis.tardis_portal.models.access_control.UserProfile* attribute), 144
- external_users () (*tardis.tardis_portal.managers.ExperimentManager* method), 241
- extra (*tardis.apps.eventlog.models.Log* attribute), 79
- extra (*tardis.tardis_portal.admin.DataFileObjectInline* attribute), 217
- extra (*tardis.tardis_portal.admin.ExperimentParameterInline* attribute), 219
- extra (*tardis.tardis_portal.admin.InstrumentParameterInline* attribute), 219
- extra (*tardis.tardis_portal.admin.ObjectACLInline* attribute), 220
- extra (*tardis.tardis_portal.admin.ParameterNameInline* attribute), 220
- extra (*tardis.tardis_portal.admin.StorageBoxAttributeInline* attribute), 220
- extra (*tardis.tardis_portal.admin.StorageBoxOptionInline* attribute), 221
- ExtraTestCases (class in *tardis.tardis_portal.tests.test_iiif*), 205
- F**
- facilities_managed_by () (in module *tardis.tardis_portal.models.facility*), 160
- Facility (class in *tardis.tardis_portal.models.facility*), 159
- facility (*tardis.tardis_portal.models.instrument.Instrument* attribute), 161
- Facility.DoesNotExist, 159
- Facility.MultipleObjectsReturned, 160
- facility_id (*tardis.tardis_portal.models.instrument.Instrument* attribute), 161
- facility_overview () (in module *tardis.tardis_portal.views.pages*), 214
- facility_overview_data_count () (in module *tardis.tardis_portal.views.facilities*), 212
- facility_overview_datafile_list () (in module *tardis.tardis_portal.views.facilities*), 212
- facility_overview_dataset_detail () (in module *tardis.tardis_portal.views.facilities*), 212
- facility_overview_experiments () (in module *tardis.tardis_portal.views.facilities*), 212
- facility_overview_facilities_list () (in module *tardis.tardis_portal.views.facilities*), 212
- FacilityAdmin (class in *tardis.tardis_portal.admin*), 219
- FacilityOverviewTestCase (class in *tardis.tardis_portal.tests.test_facility_overview*), 205
- FacilityResource (class in *tardis.tardis_portal.api*), 227
- FacilityResource.Meta (class in *tardis.tardis_portal.api*), 227
- FacilityResourceTest (class in *tardis.tardis_portal.tests.api.test_facility_resource*), 192
- feedback () (in module *tardis.tardis_portal.views.utils*), 216
- fields (*tardis.apps.push_to.models.CredentialForm.Meta* attribute), 96
- fields (*tardis.apps.push_to.models.RemoteHostAdmin* attribute), 99
- fields (*tardis.tardis_portal.admin.DatafileAdminForm.Meta* attribute), 218
- fields (*tardis.tardis_portal.admin.DataFileObjectInlineForm.Meta* attribute), 218
- fields (*tardis.tardis_portal.admin.StorageBoxAttributeInlineForm.Meta* attribute), 221
- fields (*tardis.tardis_portal.admin.StorageBoxForm.Meta* attribute), 221
- fields (*tardis.tardis_portal.admin.StorageBoxOptionInlineForm.Meta* attribute), 222
- fields (*tardis.tardis_portal.api.UserResource.Meta* attribute), 231
- fields (*tardis.tardis_portal.forms.DatasetForm.Meta* attribute), 235
- fields (*tardis.tardis_portal.forms.ExperimentAuthor.Meta* attribute), 235
- fields (*tardis.tardis_portal.forms.ExperimentForm.Meta* attribute), 236
- fields (*tardis.tardis_portal.forms.ManageAccountForm.Meta* attribute), 237
- fields (*tardis.tardis_portal.forms.RightsForm.Meta* attribute), 239
- file_object (*tardis.tardis_portal.models.datafile.DataFile* attribute), 146
- file_object (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 149
- file_objects (*tardis.tardis_portal.models.datafile.DataFile* attribute), 146
- file_objects (*tardis.tardis_portal.models.storage.StorageBox* attribute), 182
- filename (*tardis.tardis_portal.models.datafile.DataFile* attribute), 147
- FILENAME (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175
- filepicker_url_regex (*tardis.apps.filepicker.utils.FilepickerFile* attribute), 81
- FilepickerFile (class in *tardis.apps.filepicker.utils*), 81

80

filtering (*tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta* attribute), 113

filtering (*tardis.tardis_portal.api.DataFileResource.Meta* attribute), 223

filtering (*tardis.tardis_portal.api.DatasetResource.Meta* attribute), 225

filtering (*tardis.tardis_portal.api.ExperimentAuthorResource.Meta* attribute), 226

filtering (*tardis.tardis_portal.api.ExperimentResource.Meta* attribute), 227

filtering (*tardis.tardis_portal.api.FacilityResource.Meta* attribute), 227

filtering (*tardis.tardis_portal.api.GroupResource.Meta* attribute), 227

filtering (*tardis.tardis_portal.api.InstrumentResource.Meta* attribute), 228

filtering (*tardis.tardis_portal.api.ObjectACLResource.Meta* attribute), 229

filtering (*tardis.tardis_portal.api.ParameterNameResource.Meta* attribute), 229

filtering (*tardis.tardis_portal.api.ReplicaResource.Meta* attribute), 230

filtering (*tardis.tardis_portal.api.SchemaResource.Meta* attribute), 230

filtering (*tardis.tardis_portal.api.UserResource.Meta* attribute), 231

FILTERS_TASK_PRIORITY (in module *tardis.default_settings.filters*), 125

find_available_tcp_port () (in module *tardis.tardis_portal.tests.slapped*), 202

find_custom_view_override () (*tardis.tardis_portal.views.pages.DatasetView* method), 212

find_custom_view_override () (*tardis.tardis_portal.views.pages.ExperimentView* method), 213

form (*tardis.apps.push_to.models.CredentialAdmin* attribute), 96

form (*tardis.tardis_portal.admin.DatafileAdmin* attribute), 218

form (*tardis.tardis_portal.admin.DataFileObjectInline* attribute), 217

form (*tardis.tardis_portal.admin.StorageBoxAdmin* attribute), 220

form (*tardis.tardis_portal.admin.StorageBoxAttributeInline* attribute), 220

form (*tardis.tardis_portal.admin.StorageBoxOptionInline* attribute), 222

format_app_name_for_url () (in module *tardis.app_config*), 248

formfield_overrides (*tardis.tardis_portal.admin.ExperimentParameterInline* attribute), 219

forwards_func () (in module *tardis.tardis_portal.migrations.0017_add_cc_licenses*), 139

FreeTextSearchField (class in *tardis.tardis_portal.models.parameters*), 170

FreeTextSearchField.DoesNotExist, 170

FreeTextSearchField.MultipleObjectsReturned, 170

FreeTextSearchField.set (in *tardis.tardis_portal.models.parameters.ParameterName* attribute), 176

FreeTextSearchFieldAdmin (class in *tardis.tardis_portal.admin*), 219

freeze_time () (*tardis.tardis_portal.tests.test_tokens.FrozenTime* class method), 209

from_db_value () (*tardis.apps.eventlog.fields.JSONField* method), 78

FrozenTime (class in *tardis.tardis_portal.tests.test_tokens*), 209

full_name (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 176

G

generate_keypair_credential () (*tardis.apps.push_to.models.Credential* static method), 95

generate_presigned_url () (in module *tardis.apps.s3utils.utils*), 106

get () (*tardis.tardis_portal.managers.ExperimentManager* method), 241

get () (*tardis.tardis_portal.models.parameters.Parameter* method), 173

get () (*tardis.tardis_portal.views.pages.DatasetView* method), 213

get () (*tardis.tardis_portal.views.pages.ExperimentView* method), 213

get () (*tardis.tardis_portal.views.pages.IndexView* method), 214

get_absolute_filepath () (*tardis.tardis_portal.models.datafile.DataFile* method), 147

get_absolute_url () (*tardis.tardis_portal.models.dataset.Dataset* method), 152

get_absolute_url () (*tardis.tardis_portal.models.experiment.Experiment* method), 156

get_accessible_datafiles_for_user () (in module *tardis.tardis_portal.auth.decorators*), 131

get_accessible_experiments () (in module *tardis.tardis_portal.auth.decorators*), 131

get_accessible_experiments_for_dataset ()

(in module *tardis.tardis_portal.auth.decorators*), 131

get_accessible_hosts() (in module *tardis.apps.push_to.views*), 101

get_aclOwnershipType_display() (*tardis.tardis_portal.models.access_control.ObjectACL* method), 142

get_address() (*tardis.tardis_portal.tests.slapd.Slapd* method), 201

get_admin_credentials() (*tardis.tardis_portal.tests.api.MyTardisResourceTestCase* method), 195

get_all_storage_boxes_used() (*tardis.tardis_portal.models.dataset.Dataset* method), 152

get_all_tardis_apps() (in module *tardis.test_settings*), 248

get_allowed_auths() (*tardis.apps.sftp.sftp.MyTServerInterface* method), 120

get_api_key() (in module *tardis.apps.openid_migration.migration*), 90

get_apikey_credentials() (*tardis.tardis_portal.tests.api.MyTardisResourceTestCase* method), 195

get_as_temporary_file() (*tardis.tardis_portal.models.datafile.DataFile* method), 147

get_auth_method() (in module *tardis.apps.social_auth.auth.social_auth*), 122

get_available_signing_services() (*tardis.apps.push_to.models.OAuthSSHCertSigningService* static method), 98

get_beamline() (*tardis.tardis_portal.tests.test_publishservice.MatchResourceFilter* method), 208

get_by_natural_key() (*tardis.tardis_portal.managers.ParameterNameManager* method), 242

get_by_natural_key() (*tardis.tardis_portal.managers.SchemaManager* method), 242

get_child_dir_files() (*tardis.tardis_portal.api.DatasetResource* method), 225

get_child_dir_nodes() (*tardis.tardis_portal.api.DatasetResource* method), 225

get_client_for_host() (*tardis.apps.push_to.models.Credential* method), 95

get_client_ip() (in module *tardis.tardis_portal.logging_middleware*), 240

get_comparison_type_display() (*tardis.tardis_portal.models.parameters.ParameterName* method), 176

get_context() (*tardis.tardis_portal.publish.publishservice.PublishService* method), 187

get_context_data() (*tardis.tardis_portal.views.pages.DatasetView* method), 213

get_context_data() (*tardis.tardis_portal.views.pages.ExperimentView* method), 214

get_context_data() (*tardis.tardis_portal.views.pages.IndexView* method), 214

get_create_token_url() (*tardis.tardis_portal.models.experiment.Experiment* method), 156

get_credential() (in module *tardis.apps.push_to.views*), 101

get_credentials() (*tardis.tardis_portal.tests.api.MyTardisResourceTestCase* method), 195

get_ct() (*tardis.tardis_portal.models.experiment.Experiment* method), 156

get_data_type_display() (*tardis.tardis_portal.models.parameters.ParameterName* method), 176

get_datafiles() (*tardis.tardis_portal.api.DatasetResource* method), 225

get_datafiles() (*tardis.tardis_portal.models.dataset.Dataset* method), 152

get_datafiles() (*tardis.tardis_portal.models.experiment.Experiment* method), 156

get_dataset_info() (in module *tardis.tardis_portal.views.utils*), 216

get_default_push_location() (in module *tardis.apps.push_to.utils*), 101

get_default_storage() (*tardis.tardis_portal.models.storage.StorageBox* class method), 182

get_default_storage_box() (*tardis.tardis_portal.models.datafile.DataFile* method), 147

get_dir_nodes() (*tardis.tardis_portal.models.dataset.Dataset* method), 152

get_dir_tuples() (*tardis.tardis_portal.models.dataset.Dataset* method), 153

get_dn_suffix() (*tardis.tardis_portal.tests.slapd.Slapd* method), 201

get_download_organizations() (in module *tardis.tardis_portal.download*), 233

get_download_url() (*tardis.tardis_portal.models.datafile.DataFile* method), 147

method), 147
get_download_urls() (*tardis.tardis_portal.models.dataset.Dataset method*), 153
get_download_urls() (*tardis.tardis_portal.models.experiment.Experiment method*), 156
get_edit_url() (*tardis.tardis_portal.models.dataset.Dataset method*), 153
get_edit_url() (*tardis.tardis_portal.models.experiment.Experiment method*), 156
get_effective_query() (*tardis.tardis_portal.models.access_control.ObjectACL class method*), 142
get_experiment_list() (*in module tardis.tardis_portal.views.ajax_json*), 210
get_experiment_referer() (*in module tardis.tardis_portal.shortcuts*), 243
get_file() (*tardis.apps.filepicker.utils.FilepickerFile method*), 81
get_file() (*tardis.tardis_portal.models.datafile.DataFile method*), 147
get_filesystem_safe_dataset_name() (*in module tardis.tardis_portal.util*), 244
get_filesystem_safe_experiment_name() (*in module tardis.tardis_portal.util*), 244
get_first_experiment() (*tardis.tardis_portal.models.dataset.Dataset method*), 153
get_full_path() (*tardis.tardis_portal.models.datafile.DataFileObject method*), 149
get_git_version() (*in module tardis.default_settings*), 128
get_groups() (*tardis.tardis_portal.models.experiment.Experiment method*), 156
get_id() (*tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider static method*), 83
get_identifier() (*tardis.tardis_portal.api.MyTardisAuthentication method*), 228
get_image_data() (*tardis.tardis_portal.models.datafile.DataFile method*), 147
get_images() (*tardis.tardis_portal.models.dataset.Dataset method*), 153
get_images() (*tardis.tardis_portal.models.experiment.Experiment method*), 156
get_initialised_storage_instance() (*tardis.tardis_portal.models.storage.StorageBox method*), 182
get_instances_from_related() (*tardis.apps.search.documents.DataFileDocument method*), 110
get_instances_from_related() (*tardis.apps.search.documents.DatasetDocument method*), 110
get_instances_from_related() (*tardis.apps.search.documents.ExperimentDocument method*), 110
get_item() (*in module tardis.tardis_portal.templatetags.lookupfilters*), 190
get_leaf() (*tardis.apps.sftp.sftp.DynamicTree method*), 116
get_license_uri() (*tardis.tardis_portal.tests.test_publishservice.MockRifCsProvider method*), 208
get_local_time() (*in module tardis.tardis_portal.util*), 244
get_matching_auth_provider() (*in module tardis.apps.openid_migration.migration*), 90
get_matching_authmethod() (*in module tardis.tardis_portal.templatetags.approved_user_tags*), 188
get_mimetype() (*tardis.tardis_portal.models.datafile.DataFile method*), 147
get_next_by_added() (*tardis.apps.sftp.models.SFTPPublicKey method*), 115
get_next_by_created_time() (*tardis.tardis_portal.models.datafile.DataFileObject method*), 149
get_next_by_created_time() (*tardis.tardis_portal.models.experiment.Experiment method*), 156
get_next_by_created_time() (*tardis.tardis_portal.models.jti.JTI method*), 162
get_next_by_expiry_date() (*tardis.tardis_portal.models.token.Token method*), 186
get_next_by_migration_timestamp() (*tardis.apps.openid_migration.models.OpenidUserMigration method*), 91
get_next_by_timestamp() (*tardis.apps.eventlog.models.Log method*), 79
get_next_by_update_time() (*tardis.tardis_portal.models.experiment.Experiment method*), 156
get_none_option_license() (*tardis.tardis_portal.models.license.License class method*), 163
get_oauth_service() (*tardis.apps.push_to.models.OAuthSSHCertSigningService static method*), 98
get_object_list() (*tardis.apps.search.api.AdvanceSearchAppResource method*), 108
get_object_list()

(*tardis.apps.search.api.SearchAppResource* method), 109

get_object_size() (in module *tardis.apps.push_to.utils*), 101

get_options_as_dict() (*tardis.tardis_portal.models.storage.StorageBox* method), 182

get_or_create_directory() (*tardis.tardis_portal.models.experiment.Experiment* method), 157

get_or_create_user() (in module *tardis.tardis_portal.auth.utils*), 134

get_or_create_user() (*tardis.tardis_portal.auth.authservice.AuthService* method), 130

get_owned_experiments() (in module *tardis.tardis_portal.auth.decorators*), 131

get_owners() (*tardis.tardis_portal.models.experiment.Experiment* method), 157

get_param() (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager* method), 217

get_params() (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager* method), 217

get_path() (*tardis.tardis_portal.models.dataset.Dataset* method), 153

get_perm_bool() (*tardis.tardis_portal.auth.authorisation.ACLAuthorisation* method), 129

get_preferred_dfo() (*tardis.tardis_portal.models.datafile.DataFile* method), 147

get_prep_value() (*tardis.apps.eventlog.fields.JSONField* method), 78

get_previous_by_added() (*tardis.apps.sftp.models.SFTPPublicKey* method), 115

get_previous_by_created_time() (*tardis.tardis_portal.models.datafile.DataFileObject* method), 149

get_previous_by_created_time() (*tardis.tardis_portal.models.experiment.Experiment* method), 157

get_previous_by_created_time() (*tardis.tardis_portal.models.jti.JTI* method), 162

get_previous_by_expiry_date() (*tardis.tardis_portal.models.token.Token* method), 186

get_previous_by_migration_timestamp() (*tardis.apps.openid_migration.models.OpenidUserMigration* method), 91

get_previous_by_timestamp() (*tardis.apps.eventlog.models.Log* method), 79

get_previous_by_update_time() (*tardis.tardis_portal.models.experiment.Experiment* method), 157

get_public_access_display() (*tardis.tardis_portal.models.experiment.Experiment* method), 157

get_push_url_for_host() (in module *tardis.apps.push_to.views*), 101

get_queryset() (*tardis.apps.search.documents.DataFileDocument* method), 110

get_queryset() (*tardis.tardis_portal.managers.OracleSafeManager* method), 242

get_receiving_storage_box() (*tardis.tardis_portal.models.datafile.DataFile* method), 147

get_related_object() (*tardis.tardis_portal.models.access_control.ObjectACL* method), 142

get_related_object_group() (*tardis.tardis_portal.models.access_control.ObjectACL* method), 142

get_request_data() (in module *tardis.tardis_portal.publish.provider.log.utils*), 80

get_response() (*tardis.tardis_portal.download.UncachedTarStream* method), 233

get_rifcs_context() (*tardis.tardis_portal.publish.provider.rifcsprovider.RifCsProvider* method), 187

get_rifcs_context() (*tardis.tardis_portal.tests.test_publishservice.MockRifCsProvider* method), 208

get_rifcs_id() (*tardis.apps.oaipmh.provider.experiment.RifCsExperiment* static method), 83

get_root_dir_nodes() (*tardis.tardis_portal.api.DatasetResource* method), 225

get_root_dn() (*tardis.tardis_portal.tests.slapped.Slapped* method), 201

get_root_password() (*tardis.tardis_portal.tests.slapped.Slapped* method), 201

get_schema() (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager* method), 217

get_server() (in module *tardis.apps.oaipmh.server*), 87

get_session_expiry() (*tardis.tardis_portal.models.token.Token* method), 186

get_shared_experiments() (in module *tardis.tardis_portal.auth.decorators*), 131

get_signing_services() (in module *tardis.apps.push_to.views*), 101

get_size() (*tardis.tardis_portal.models.datafile.DataFile* method), 147

get_size() (*tardis.tardis_portal.models.dataset.Dataset* method), 153

method), 154

get_size() (tardis.tardis_portal.models.experiment.Experiment method), 203

method), 157

get_size_and_sha512sum() (in module tardis.tardis_portal.tests.test_download), 204

get_suitable_credential() (tardis.apps.push_to.models.Credential static method), 95

get_suitable_licenses() (tardis.tardis_portal.models.license.License class method), 163

get_tardis_apps() (in module tardis.app_config), 248

get_template() (tardis.tardis_portal.publish.provider.rif.provider.RifCsProvider method), 187

get_template() (tardis.tardis_portal.publish.publishservice.PublishService method), 187

get_template() (tardis.tardis_portal.tests.test_publishservice.MockRifCsProvider method), 208

get_thumbnail_url() (tardis.tardis_portal.models.dataset.Dataset method), 154

get_tmpdir() (tardis.tardis_portal.tests.slapd.Slapd method), 201

get_token() (in module tardis.apps.push_to.oauth_tokens), 100

get_token_data() (in module tardis.apps.push_to.oauth_tokens), 100

get_type_display() (tardis.tardis_portal.models.parameters.Schema method), 179

get_url() (tardis.tardis_portal.tests.slapd.Slapd method), 201

get_user() (tardis.tardis_portal.auth.interfaces.AuthProvider method), 132

get_user() (tardis.tardis_portal.auth.localdb_auth.DjangoAuthBackend method), 133

get_utc_time() (in module tardis.tardis_portal.util), 244

get_value_type_display() (tardis.tardis_portal.models.storage.StorageBoxOptions method), 185

get_view_url() (tardis.tardis_portal.models.datafile.DataFile method), 147

getAuthMethodChoices() (in module tardis.tardis_portal.forms), 240

getAuthMethodDescription() (tardis.tardis_portal.models.access_control.UserAuthentication method), 143

getGroupById() (tardis.tardis_portal.auth.interfaces.GroupProvider method), 132

getGroupById() (tardis.tardis_portal.auth.localdb_auth.DjangoAuthBackend method), 133

getGroupById() (tardis.tardis_portal.tests.test_authservice.MockGroupProvider method), 203

getGroups() (in module tardis.tardis_portal.auth.fix_circular), 132

getGroups() (tardis.tardis_portal.auth.authservice.AuthService method), 129

getGroups() (tardis.tardis_portal.auth.interfaces.GroupProvider method), 132

getGroups() (tardis.tardis_portal.auth.localdb_auth.DjangoGroupProvider method), 133

getGroups() (tardis.tardis_portal.auth.token_auth.TokenGroupProvider method), 134

getGroups() (tardis.tardis_portal.tests.test_authservice.MockGroupProvider method), 203

getGroupsForEntity() (tardis.tardis_portal.auth.authservice.AuthService method), 130

getGroupsForEntity() (tardis.tardis_portal.auth.interfaces.GroupProvider method), 132

getGroupsForEntity() (tardis.tardis_portal.tests.test_authservice.MockGroupProvider method), 203

getParameterSets() (tardis.tardis_portal.models.datafile.DataFile method), 147

getParameterSets() (tardis.tardis_portal.models.dataset.Dataset method), 152

getParameterSets() (tardis.tardis_portal.models.experiment.Experiment method), 156

getParameterSets() (tardis.tardis_portal.models.instrument.Instrument method), 161

getRecord() (tardis.apps.oaipmh.provider.base.BaseProvider method), 81, 251

getRecord() (tardis.apps.oaipmh.provider.experiment.AbstractExperiment method), 83

getRecord() (tardis.apps.oaipmh.server.ProxyingServer method), 86, 253

getSupportedAuthMethods() (in module tardis.apps.openid_migration.migration), 90

GetTestCase (class in tardis.apps.related_info.tests.tests), 103

getUniqueShortName() (tardis.tardis_portal.models.parameters.ParameterName method), 176

getUser() (tardis.tardis_portal.auth.authservice.AuthService method), 130

getUserAuthentications() (tardis.tardis_portal.models.access_control.UserProfile method), 144

[hasWriter\(\) \(tardis.apps.oaipmh.server.ProxyingMetadataRepository method\), 86](#)
[healthz\(\) \(in module id \(tardis.tardis_portal.models.access_control.UserAuthentication tardis.tardis_portal.views.pages\), 215 attribute\), 143](#)
[help \(tardis.tardis_portal.management.commands.createuser \(tardis.tardis_portal.models.access_control.UserProfile attribute\), 135 attribute\), 144](#)
[help \(tardis.tardis_portal.management.commands.dumpschemas \(tardis.tardis_portal.models.datafile.DataFile attribute\), 135 attribute\), 147](#)
[help \(tardis.tardis_portal.management.commands.loadschemas \(tardis.tardis_portal.models.datafile.DataFileObject attribute\), 135 attribute\), 150](#)
[help \(tardis.tardis_portal.management.commands.rmexperiment \(tardis.tardis_portal.models.dataset.Dataset attribute\), 136 attribute\), 154](#)
[hidden \(tardis.tardis_portal.models.parameters.Schema id \(tardis.tardis_portal.models.experiment.Experiment attribute\), 179 attribute\), 157](#)
[host_name \(tardis.apps.push_to.models.RemoteHost id \(tardis.tardis_portal.models.experiment.ExperimentAuthor attribute\), 99 attribute\), 159](#)
[HttpResponseMethodNotAllowed \(class in id \(tardis.tardis_portal.models.facility.Facility attribute\), 216 attribute\), 160](#)
[HttpResponseSeeAlso \(class in id \(tardis.tardis_portal.models.instrument.Instrument attribute\), 216 attribute\), 161](#)
[hydrate\(\) \(tardis.apps.sftp.api.SFTPPublicKeyAppResource \(tardis.tardis_portal.models.jti.JTI attribute\), 162 id \(tardis.tardis_portal.models.license.License attribute\), 163](#)
[hydrate\(\) \(tardis.tardis_portal.api.DataFileResource id \(tardis.tardis_portal.models.parameters.DatafileParameter attribute\), 224 attribute\), 164](#)
[hydrate\(\) \(tardis.tardis_portal.api.ObjectACLResource id \(tardis.tardis_portal.models.parameters.DatafileParameterSet attribute\), 229 attribute\), 165](#)
[hydrate\(\) \(tardis.tardis_portal.api.ParameterResource id \(tardis.tardis_portal.models.parameters.DatasetParameter attribute\), 229 attribute\), 166](#)
[hydrate\(\) \(tardis.tardis_portal.api.ReplicaResource id \(tardis.tardis_portal.models.parameters.DatasetParameterSet attribute\), 230 attribute\), 167](#)
[hydrate_m2m\(\) \(tardis.tardis_portal.api.DatasetResource id \(tardis.tardis_portal.models.parameters.ExperimentParameter attribute\), 225 attribute\), 168](#)
[hydrate_m2m\(\) \(tardis.tardis_portal.api.ExperimentResource id \(tardis.tardis_portal.models.parameters.ExperimentParameterSet attribute\), 227 attribute\), 170](#)
[hydrate_schema\(\) \(tardis.tardis_portal.api.ParameterSetResource id \(tardis.tardis_portal.models.parameters.FreeTextSearchField attribute\), 230 attribute\), 170](#)
[id \(tardis.tardis_portal.models.parameters.InstrumentParameter attribute\), 171](#)
[id \(tardis.tardis_portal.models.parameters.InstrumentParameterSet attribute\), 172](#)
[id \(tardis.apps.eventlog.models.Action attribute\), 78 id \(tardis.tardis_portal.models.parameters.ParameterName attribute\), 176](#)
[id \(tardis.apps.eventlog.models.Log attribute\), 79 id \(tardis.tardis_portal.models.parameters.Schema attribute\), 179](#)
[id \(tardis.apps.openid_migration.models.OpenidACLMigration attribute\), 90 id \(tardis.tardis_portal.models.storage.StorageBox attribute\), 182](#)
[id \(tardis.apps.openid_migration.models.OpenidUserMigration attribute\), 91 id \(tardis.tardis_portal.models.storage.StorageBoxAttribute attribute\), 184](#)
[id \(tardis.apps.push_to.models.Credential attribute\), 95 id \(tardis.tardis_portal.models.storage.StorageBoxOption attribute\), 185](#)
[id \(tardis.apps.push_to.models.OAuthSSHCertSigningService attribute\), 98 id \(tardis.tardis_portal.models.token.Token attribute\), 186](#)
[id \(tardis.apps.push_to.models.RemoteHost attribute\), 99 id \(tardis.tardis_portal.models.token.Token attribute\), 186](#)
[id \(tardis.apps.sftp.models.SFTPPublicKey attribute\), 115 identify\(\) \(tardis.apps.oaipmh.provider.base.BaseProvider attribute\), 140](#)

method), 81, 252
identify() (*tardis.apps.oaipmh.server.ProxyingServer*
method), 86, 253
image (*tardis.tardis_portal.models.dataset.Dataset* *at-*
tribute), 154
image_url (*tardis.tardis_portal.models.license.License*
attribute), 163
immutable (*tardis.tardis_portal.models.dataset.Dataset*
attribute), 154
immutable (*tardis.tardis_portal.models.parameters.ParameterName*
attribute), 176
immutable (*tardis.tardis_portal.models.parameters.Schema*
attribute), 179
ImportParamsForm (class in *tardis.tardis_portal.forms*), 236
INDEX_VIEWS (in *tardis.default_settings.custom_views*), 124
IndexExperimentTestCase (class in *tardis.apps.search.tests.test_index*), 107
IndexView (class in *tardis.tardis_portal.views.pages*), 214
initial (*tardis.apps.eventlog.migrations.0001_initial.Migration*
attribute), 77
initial (*tardis.apps.openid_migration.migrations.0001_initial.Migration*
attribute), 88
initial (*tardis.apps.sftp.migrations.0001_initial.Migration*
attribute), 112
inlines (*tardis.tardis_portal.admin.DatafileAdmin* *at-*
tribute), 218
inlines (*tardis.tardis_portal.admin.ExperimentAdmin*
attribute), 218
inlines (*tardis.tardis_portal.admin.ExperimentParameterSetAdmin*
attribute), 219
inlines (*tardis.tardis_portal.admin.InstrumentParameterSetAdmin*
attribute), 219
inlines (*tardis.tardis_portal.admin.SchemaAdmin* *at-*
tribute), 220
inlines (*tardis.tardis_portal.admin.StorageBoxAdmin*
attribute), 220
institution (*tardis.tardis_portal.models.experiment.ExperimentAdmin*
attribute), 159
institution_name (*tardis.tardis_portal.models.experiment.ExperimentAdmin*
attribute), 157
Instrument (class in *tardis.tardis_portal.models.instrument*), 161
instrument (*tardis.tardis_portal.models.dataset.Dataset* *at-*
tribute), 154
instrument (*tardis.tardis_portal.models.parameters.InstrumentParameterSet*
attribute), 172
INSTRUMENT (*tardis.tardis_portal.models.parameters.Schema*
attribute), 178
Instrument.DoesNotExist, 161
Instrument.MultipleObjectsReturned, 161
instrument_id (*tardis.tardis_portal.models.dataset.Dataset* *at-*
tribute), 154
instrument_id (*tardis.tardis_portal.models.parameters.InstrumentParameterSet*
attribute), 172
instrument_set (*tardis.tardis_portal.models.facility.Facility*
attribute), 160
InstrumentAdmin (class in *tardis.tardis_portal.admin*), 219
InstrumentParameter (class in *tardis.tardis_portal.models.parameters*), 171
InstrumentParameter.DoesNotExist, 171
InstrumentParameter.MultipleObjectsReturned, 171
instrumentparameter_set (*tardis.tardis_portal.models.parameters.InstrumentParameterSet*
attribute), 172
instrumentparameter_set (*tardis.tardis_portal.models.parameters.ParameterName*
attribute), 176
InstrumentParameterInline (class in *tardis.tardis_portal.admin*), 219
InstrumentParameterSet (class in *tardis.tardis_portal.models.parameters*), 172
InstrumentParameterSet.DoesNotExist, 172
InstrumentParameterSet.MultipleObjectsReturned, 172
instrumentparameterset_set (*tardis.tardis_portal.models.instrument.Instrument*
attribute), 162
instrumentparameterset_set (*tardis.tardis_portal.models.parameters.Schema*
attribute), 179
InstrumentParameterSetAdmin (class in *tardis.tardis_portal.admin*), 219
instrumentparametersets (*tardis.tardis_portal.models.storage.StorageBox*
attribute), 182
InstrumentResource (class in *tardis.tardis_portal.api*), 228
InstrumentResource.Meta (class in *tardis.tardis_portal.api*), 228
InstrumentResourceTest (class in *tardis.tardis_portal.tests.api.test_instrument_resource*), 193
InstrumentTestCase (class in *tardis.tardis_portal.tests.models.test_instrument*), 193
internal_description (*tardis.tardis_portal.models.license.License*
attribute), 163
INTERNAL_IPS (in *tardis.default_settings.debug*), 124
interpolate_template() (in *tardis.default_settings.debug*), 124

`tardis.apps.openid_migration.email_text`, 89

`is_active` (`tardis.tardis_portal.models.license.License` attribute), 163

`is_authenticated` (`tardis.tardis_portal.api.MyTardisAuthentication` method), 228

`is_directory` (in module `tardis.apps.push_to.utils`), 101

`is_expired` (`tardis.tardis_portal.models.token.Token` method), 186

`is_facility_manager` (in module `tardis.tardis_portal.models.facility`), 160

`is_group_admin` (in module `tardis.tardis_portal.auth.decorators`), 132

`is_image` (`tardis.tardis_portal.models.datafile.DataFile` method), 147

`is_json` (`tardis.tardis_portal.models.parameters.ParameterName` method), 177

`is_local` (`tardis.tardis_portal.models.datafile.DataFile` method), 147

`is_online` (`tardis.tardis_portal.models.datafile.DataFile` attribute), 147

`is_online` (`tardis.tardis_portal.models.dataset.Dataset` attribute), 154

`is_openid_migration_enabled` (in module `tardis.apps.social_auth.auth.social_auth`), 122

`is_public` (`tardis.tardis_portal.models.datafile.DataFile` method), 148

`is_publication` (`tardis.tardis_portal.models.experiment.Experiment` method), 157

`is_publication_draft` (`tardis.tardis_portal.models.experiment.Experiment` method), 157

`is_schema_valid` (`tardis.tardis_portal.publish.provider.rifcsprovider.RifCsProvider` method), 187

`is_schema_valid` (`tardis.tardis_portal.tests.test_publishservice.MockRifCsProvider` method), 208

`is_searchable` (`tardis.tardis_portal.models.parameters.ParameterName` attribute), 177

`is_tardis_app` (in module `tardis.app_config`), 248

`is_valid` (`tardis.tardis_portal.forms.ExperimentForm` method), 236

`is_valid_email` (in module `tardis.tardis_portal.management.commands.createuser`), 135

`isDateTime` (`tardis.tardis_portal.models.parameters.ParameterName` method), 176

`isDjangoAccount` (`tardis.tardis_portal.models.access_control.UserProfile` attribute), 144

`isFilename` (`tardis.tardis_portal.models.parameters.ParameterName` method), 176

`isLink` (`tardis.tardis_portal.models.parameters.ParameterName` method), 177

`isLongString` (`tardis.tardis_portal.models.parameters.ParameterName` method), 177

`isNumeric` (`tardis.tardis_portal.models.parameters.ParameterName` method), 177

`isOwner` (`tardis.tardis_portal.models.access_control.ObjectACL` attribute), 142

`isString` (`tardis.tardis_portal.models.parameters.ParameterName` method), 177

`isURL` (`tardis.tardis_portal.models.parameters.ParameterName` method), 177

`isValidPublicContact` (`tardis.tardis_portal.models.access_control.UserProfile` method), 144

`IteratorTracker` (class in `tardis.analytics.tracker`), 75

`JSON` (`tardis.tardis_portal.models.parameters.ParameterName` attribute), 175

`json_indent` (`tardis.apps.search.api.PrettyJSONSerializer` attribute), 108

`json_indent` (`tardis.tardis_portal.api.PrettyJSONSerializer` attribute), 230

`JSONField` (class in `tardis.apps.eventlog.fields`), 78

`JTI` (class in `tardis.tardis_portal.models.jti`), 162

`JTI` (`tardis.tardis_portal.models.jti.JTI` attribute), 162

`JTI.DoesNotExist`, 162

`numObjectsReturned`, 162

K

`key` (`tardis.apps.push_to.models.KeyPair` attribute), 96

`key` (`tardis.tardis_portal.models.storage.StorageBoxAttribute` attribute), 184

`key` (`tardis.tardis_portal.models.storage.StorageBoxOption` attribute), 185

`key_type` (`tardis.apps.push_to.models.KeyPair` attribute), 96

`key_type` (`tardis.apps.sftp.models.SFTPPublicKey` attribute), 115

`KeyAddForm` (class in `tardis.apps.sftp.forms`), 114

`KeyGenerateForm` (class in `tardis.apps.sftp.forms`), 114

`KeyPair` (class in `tardis.apps.push_to.models`), 96

`KeyPair.Meta` (class in `tardis.apps.push_to.models`), 96

`Label` (class in `tardis.tardis_portal.widgets`), 245

`last_verified_time` (`tardis.tardis_portal.models.datafile.DataFileObject` attribute), 150

`LDAP_BASE` (`tardis.default_settings` attribute), 54

LDAP_GROUP_ATTR_MAP (*tardis.default_settings* attribute), 53

LDAP_GROUP_BASE (*tardis.default_settings* attribute), 54

LDAP_GROUP_ID_ATTR (*tardis.default_settings* attribute), 53

LDAP_TLS (*tardis.default_settings* attribute), 53

LDAP_URL (*tardis.default_settings* attribute), 53

LDAP_USER_ATTR_MAP (*tardis.default_settings* attribute), 53

LDAP_USER_BASE (*tardis.default_settings* attribute), 54

LDAP_USER_LOGIN_ATTR (*tardis.default_settings* attribute), 53

ldapadd() (*tardis.tardis_portal.tests.slapped.Slapped* method), 201

LDAPErrorTest (class in *tardis.tardis_portal.tests.test_ldap*), 206

ldapsearch() (*tardis.tardis_portal.tests.slapped.Slapped* method), 201

LDAPTest (class in *tardis.tardis_portal.tests.test_ldap*), 206

length_gt() (in module *tardis.tardis_portal.templatetags.basiccomparisonfilters*), 188

length_gte() (in module *tardis.tardis_portal.templatetags.basiccomparisonfilters*), 188

length_lt() (in module *tardis.tardis_portal.templatetags.basiccomparisonfilters*), 188

length_lte() (in module *tardis.tardis_portal.templatetags.basiccomparisonfilters*), 188

LESS_THAN_COMPARISON (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175

LESS_THAN_EQUAL_COMPARISON (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175

Level0TestCase (class in *tardis.tardis_portal.tests.test_iiif*), 205

Level1TestCase (class in *tardis.tardis_portal.tests.test_iiif*), 205

Level2TestCase (class in *tardis.tardis_portal.tests.test_iiif*), 206

License (class in *tardis.tardis_portal.models.license*), 163

license (*tardis.tardis_portal.models.experiment.Experiment* attribute), 157

License.DoesNotExist, 163

License.MultipleObjectsReturned, 163

license_id (*tardis.tardis_portal.models.experiment.Experiment* attribute), 157

LINK (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175

link_ct (*tardis.tardis_portal.models.parameters.DatafileParameter* attribute), 164

link_ct (*tardis.tardis_portal.models.parameters.DatasetParameter* attribute), 166

link_ct (*tardis.tardis_portal.models.parameters.ExperimentParameter* attribute), 168

link_ct (*tardis.tardis_portal.models.parameters.InstrumentParameter* attribute), 171

link_ct (*tardis.tardis_portal.models.parameters.Parameter* attribute), 173

link_ct_id (*tardis.tardis_portal.models.parameters.Parameter* attribute), 173

link_gfk (*tardis.tardis_portal.models.parameters.DatafileParameter* attribute), 164

link_gfk (*tardis.tardis_portal.models.parameters.DatasetParameter* attribute), 166

link_gfk (*tardis.tardis_portal.models.parameters.ExperimentParameter* attribute), 168

link_gfk (*tardis.tardis_portal.models.parameters.InstrumentParameter* attribute), 171

link_gfk (*tardis.tardis_portal.models.parameters.Parameter* attribute), 174

link_id (*tardis.tardis_portal.models.parameters.Parameter* attribute), 174

link_url (*tardis.tardis_portal.models.parameters.Parameter* attribute), 174

list_allowed_methods (*tardis.apps.search.api.AdvanceSearchAppResource.Meta* attribute), 107

list_allowed_methods (*tardis.apps.search.api.SearchAppResource.Meta* attribute), 108

list_allowed_methods (*tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta* attribute), 113

list_auth_methods() (in module *tardis.tardis_portal.auth.authentication*), 128

list_display (*tardis.apps.eventlog.admin.LogAdmin* attribute), 77

list_display (*tardis.apps.openid_migration.models.OpenidACLMigration* attribute), 91

list_display (*tardis.apps.openid_migration.models.OpenidUserMigration* attribute), 92

list_display (*tardis.tardis_portal.admin.ObjectACLAdmin* attribute), 219

list_filter (*tardis.apps.eventlog.admin.LogAdmin* attribute), 77

list_folder() (*tardis.apps.sftp.sftp.MyTSFTPServerInterface* method), 116

list_subdirectories() (in module *tardis.apps.push_to.utils*), 101

ListEndpointsTest (class in LocationResource.Meta (class in tardis.tardis_portal.tests.api.test_list_api_endpoints), 193
 listIdentifiers() (tardis.apps.oaipmh.provider.base.BaseProvider method), 81, 252
 listIdentifiers() (tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider method), 83
 listIdentifiers() (tardis.apps.oaipmh.server.ProxyingServer method), 86, 253
 listMetadataFormats() (tardis.apps.oaipmh.provider.base.BaseProvider method), 82, 252
 listMetadataFormats() (tardis.apps.oaipmh.provider.experiment.DcExperimentProvider method), 83
 listMetadataFormats() (tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider method), 83
 listMetadataFormats() (tardis.apps.oaipmh.server.ProxyingServer method), 87, 254
 listRecords() (tardis.apps.oaipmh.provider.base.BaseProvider method), 82, 252
 listRecords() (tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider method), 83
 listRecords() (tardis.apps.oaipmh.server.ProxyingServer method), 87, 254
 listSets() (tardis.apps.oaipmh.provider.base.BaseProvider method), 82, 253
 listSets() (tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider method), 83
 listSets() (tardis.apps.oaipmh.server.ProxyingServer method), 87, 254
 ListTestCase (class in tardis.apps.related_info.tests.tests), 103
 load_datafile_image() (in module tardis.tardis_portal.views.images), 212
 load_dataset_image() (in module tardis.tardis_portal.views.images), 212
 load_experiment_image() (in module tardis.tardis_portal.views.images), 212
 load_image() (in module tardis.tardis_portal.views.images), 212
 load_licenses() (in module tardis.tardis_portal.migrations.0017_add_cc_licenses), 139
 LoadSchemasTestCase (class in tardis.tardis_portal.tests.management.test_loadschemas), 196
 LocationResource (class in tardis.tardis_portal.api), 228
 LocationResource.Meta (class in tardis.tardis_portal.api), 228
 locked (tardis.tardis_portal.models.experiment.Experiment attribute), 157
 Log (class in tardis.apps.eventlog.models), 79
 log() (in module tardis.apps.eventlog.utils), 80
 Log.DoesNotExist, 79
 LogExperimentProvider (class in tardis.apps.eventlog.models), 79
 log_search_event() (tardis.apps.search.api.SearchAppResource method), 109
 log_set (tardis.apps.eventlog.models.Action attribute), 78
 LogAdmin (class in tardis.apps.eventlog.admin), 77
 logger (in module tardis.tardis_portal.xmlwriter), 246
 LoggingMiddleware (class in tardis.tardis_portal.logging_middleware), 240
 login() (in module tardis.tardis_portal.views.authentication), 211
 LOGIN_VIEWS (in module tardis.default_settings.custom_views), 124
 LoginForm (class in tardis.tardis_portal.forms), 237
 LoginImg (tardis.apps.push_to.models.RemoteHost attribute), 99
 Longstring (class in tardis.tardis_portal.views.authentication), 211
 LONGSTRING (tardis.tardis_portal.models.parameters.ParameterName attribute), 175
 lstat() (tardis.apps.sftp.sftp.MyTSFTPServerInterface method), 188
 lt() (in module tardis.tardis_portal.templatetags.basiccomparisonfilters), 188
 lte() (in module tardis.tardis_portal.templatetags.basiccomparisonfilters), 188

M

make_dirs() (in module tardis.apps.push_to.tasks), 100
 make_mapper() (in module tardis.tardis_portal.download), 233
 make_tar() (tardis.tardis_portal.download.UncachedTarStream method), 233
 manage_auth_methods() (in module tardis.tardis_portal.views.authentication), 211
 manage_groups() (in module tardis.tardis_portal.views.authorisation), 211
 manage_rifcs() (tardis.tardis_portal.publish.publishservice.PublishService method), 187
 manage_user_account() (in module

<code>tardis.tardis_portal.views.authentication)</code> , 211			<code>attribute)</code> , 218
<code>ManageAccountForm</code> (class in <code>tardis.tardis_portal.forms</code>), 237			media (<code>tardis.tardis_portal.admin.ExperimentAdmin attribute</code>), 218
<code>ManageAccountForm.Meta</code> (class in <code>tardis.tardis_portal.forms</code>), 237			media (<code>tardis.tardis_portal.admin.ExperimentParameterInline attribute</code>), 219
<code>ManageAccountTestCase</code> (class in <code>tardis.tardis_portal.tests.views.test_auth_views</code>), 198			media (<code>tardis.tardis_portal.admin.ExperimentParameterSetAdmin attribute</code>), 219
<code>ManageGroupPermissionsForm</code> (class in <code>tardis.tardis_portal.forms</code>), 237			media (<code>tardis.tardis_portal.admin.FacilityAdmin attribute</code>), 219
<code>manager_group</code> (<code>tardis.tardis_portal.models.facility.Facility</code> attribute), 160			media (<code>tardis.tardis_portal.admin.FreeTextSearchFieldAdmin attribute</code>), 219
<code>manager_group_id</code> (<code>tardis.tardis_portal.models.facility.Facility</code> attribute), 160			media (<code>tardis.tardis_portal.admin.InstrumentAdmin attribute</code>), 219
<code>master_box</code> (<code>tardis.tardis_portal.models.storage.StorageBox</code> attribute), 183			media (<code>tardis.tardis_portal.admin.InstrumentParameterInline attribute</code>), 219
<code>master_box_id</code> (<code>tardis.tardis_portal.models.storage.StorageBox</code> attribute), 183			media (<code>tardis.tardis_portal.admin.InstrumentParameterSetAdmin attribute</code>), 219
<code>MAX_IMAGES_IN_CAROUSEL</code> (in <code>tardis.default_settings.frontend</code>), 126			media (<code>tardis.tardis_portal.admin.ObjectACLAdmin attribute</code>), 219
<code>MAX_SEARCH_RESULTS</code> (in <code>tardis.default_settings.search</code>), 126			media (<code>tardis.tardis_portal.admin.ObjectACLInline attribute</code>), 220
<code>max_size</code> (<code>tardis.tardis_portal.models.storage.StorageBox</code> attribute), 183			media (<code>tardis.tardis_portal.admin.ParameterNameAdmin attribute</code>), 220
<code>md5sum</code> (<code>tardis.tardis_portal.models.datafile.DataFile</code> attribute), 148			media (<code>tardis.tardis_portal.admin.ParameterNameInline attribute</code>), 220
media (<code>tardis.apps.eventlog.admin.LogAdmin</code> attribute), 77			media (<code>tardis.tardis_portal.admin.SchemaAdmin attribute</code>), 220
media (<code>tardis.apps.openid_migration.models.OpenidACLMigration</code> attribute), 91			media (<code>tardis.tardis_portal.admin.StorageBoxAdmin attribute</code>), 220
media (<code>tardis.apps.openid_migration.models.OpenidUserMigration</code> attribute), 92			media (<code>tardis.tardis_portal.admin.StorageBoxAttributeInline attribute</code>), 220
media (<code>tardis.apps.push_to.models.CredentialAdmin</code> attribute), 96			media (<code>tardis.tardis_portal.admin.StorageBoxAttributeInlineForm attribute</code>), 221
media (<code>tardis.apps.push_to.models.CredentialForm</code> attribute), 96			media (<code>tardis.tardis_portal.admin.StorageBoxForm attribute</code>), 221
media (<code>tardis.apps.push_to.models.RemoteHostAdmin</code> attribute), 100			media (<code>tardis.tardis_portal.admin.StorageBoxOptionInline attribute</code>), 222
media (<code>tardis.apps.related_info.forms.RelatedInfoForm</code> attribute), 104			media (<code>tardis.tardis_portal.admin.StorageBoxOptionInlineForm attribute</code>), 222
media (<code>tardis.apps.sftp.forms.KeyAddForm</code> attribute), 114			media (<code>tardis.tardis_portal.admin.UserAuthenticationAdmin attribute</code>), 222
media (<code>tardis.apps.sftp.forms.KeyGenerateForm</code> attribute), 114			media (<code>tardis.tardis_portal.forms.AddUserPermissionsForm attribute</code>), 234
media (<code>tardis.tardis_portal.admin.DatafileAdmin</code> attribute), 218			media (<code>tardis.tardis_portal.forms.CreateUserPermissionsForm attribute</code>), 235
media (<code>tardis.tardis_portal.admin.DatafileAdminForm</code> attribute), 218			media (<code>tardis.tardis_portal.forms.DatasetForm attribute</code>), 235
media (<code>tardis.tardis_portal.admin.DataFileObjectInline</code> attribute), 217			media (<code>tardis.tardis_portal.forms.ExperimentAuthor attribute</code>), 236
media (<code>tardis.tardis_portal.admin.DataFileObjectInlineForm</code> attribute), 218			media (<code>tardis.tardis_portal.forms.ExperimentForm attribute</code>), 236
media (<code>tardis.tardis_portal.admin.DatasetAdmin</code> attribute), 218			media (<code>tardis.tardis_portal.forms.ImportParamsForm attribute</code>), 237
			media (<code>tardis.tardis_portal.forms.LoginForm</code> attribute), 237

237 Migration (class in
media (*tardis.tardis_portal.forms.ManageAccountForm* *tardis.tardis_portal.migrations.0002_auto_20150528_1128*),
attribute), 237 137
media (*tardis.tardis_portal.forms.ManageGroupPermissionsForm* Migration (class in
attribute), 238 *tardis.tardis_portal.migrations.0003_auto_20150907_1315*),
137
media (*tardis.tardis_portal.forms.NoInput* attribute), Migration (class in
238 *tardis.tardis_portal.migrations.0004_storageboxoption_value_typ*
137
media (*tardis.tardis_portal.forms.RegisterExperimentForm* *tardis.tardis_portal.migrations.0005_datafile_add_size_int_colum*
attribute), 238 Migration (class in
137
media (*tardis.tardis_portal.forms.RegistrationForm* at- Migration (class in
tribute), 239 *tardis.tardis_portal.migrations.0006_datafile_remove_size_string*
137
media (*tardis.tardis_portal.forms.RightsForm* attribute), Migration (class in
239 *tardis.tardis_portal.migrations.0007_remove_parameter_string_v*
138
media (*tardis.tardis_portal.widgets.CommaSeparatedInput* Migration (class in
attribute), 244 *tardis.tardis_portal.migrations.0008_string_value_partial_index*
138
media (*tardis.tardis_portal.widgets.Label* attribute), Migration (class in
245 *tardis.tardis_portal.migrations.0009_auto_20160128_1119*),
138
media (*tardis.tardis_portal.widgets.Span* attribute), 245
merge_auth_method() (in module Migration (class in
tardis.tardis_portal.auth.authentication), *tardis.tardis_portal.migrations.0010_auto_20160503_1443*),
128 138
METADATA_STORE_PATH (in module Migration (class in
tardis.default_settings.storage), 127 *tardis.tardis_portal.migrations.0011_auto_20160505_1643*),
138
migrate_accounts() (in module Migration (class in
tardis.apps.openid_migration.views), 93 *tardis.tardis_portal.migrations.0012_userauthentication_approve*
138
migrate_api_key() (in module Migration (class in
tardis.apps.openid_migration.migration), *tardis.tardis_portal.migrations.0013_auto_20181002_1136*),
90 139
migrate_user_message() (in module Migration (class in
tardis.apps.social_auth.auth.social_auth), *tardis.tardis_portal.migrations.0014_auto_20181002_1154*),
122 139
migrate_user_permissions() (in module Migration (class in
tardis.apps.openid_migration.migration), 90 *tardis.tardis_portal.migrations.0015_dataset_created_time*),
139
Migration (class in Migration (class in
tardis.apps.eventlog.migrations.0001_initial), *tardis.tardis_portal.migrations.0016_add_timestamps*),
77 139
Migration (class in Migration (class in
tardis.apps.openid_migration.migrations.0001_initial), *tardis.tardis_portal.migrations.0017_add_cc_licenses*),
88 139
Migration (class in Migration (class in
tardis.apps.push_to.migrations.0001_initial), *tardis.tardis_portal.migrations.0018_make_default_storage_box*
93 140
Migration (class in Migration (class in
tardis.apps.push_to.migrations.0002_auto_20160518_1953), *tardis.tardis_portal.migrations.0019_squashed_0011_auto_20160505_1643*),
93 136
Migration (class in Migration (class in
tardis.apps.sftp.migrations.0001_initial), *tardis.tardis_portal.migrations.0020_migration_timestamp*
111 136
Migration (class in migration_status (*tardis.apps.openid_migration.models.OpenidUser*
tardis.tardis_portal.migrations.0001_initial), *tardis.tardis_portal.migrations.0001_squashed_0011_auto_20160505_1643*),
136 136
Migration (class in migration_timestamp

(*tardis.apps.openid_migration.models.OpenidUserMigration* attribute), 91

mimetype (*tardis.tardis_portal.models.datafile.DataFile* model attribute), 148

MIN_CUTOFF_SCORE (in module *tardis.default_settings.search*), 126

missing_host_key() (*tardis.apps.push_to.models.DBHostKeyPolicy* method), 96

makedirs() (in module *tardis.tardis_portal.tests.slapped*), 202

MockAuthProvider (class in *tardis.tardis_portal.tests.test_authservice*), 203

MockGroupProvider (class in *tardis.tardis_portal.tests.test_authservice*), 203

MockRequest (class in *tardis.tardis_portal.tests.test_authservice*), 203

MockRifCsProvider (class in *tardis.tardis_portal.tests.test_publishservice*), 208

MockSettings (class in *tardis.tardis_portal.tests.test_authservice*), 203

model (*tardis.apps.push_to.models.CredentialForm.Meta* attribute), 96

model (*tardis.apps.search.documents.DataFileDocument.Django* attribute), 109

model (*tardis.apps.search.documents.DatasetDocument.Django* attribute), 110

model (*tardis.apps.search.documents.ExperimentDocument.Django* attribute), 110

model (*tardis.tardis_portal.admin.DatafileAdminForm.Meta* attribute), 218

model (*tardis.tardis_portal.admin.DataFileObjectInline* attribute), 217

model (*tardis.tardis_portal.admin.DataFileObjectInlineForm.Meta* attribute), 218

model (*tardis.tardis_portal.admin.ExperimentParameterInline* attribute), 219

model (*tardis.tardis_portal.admin.InstrumentParameterInline* attribute), 219

model (*tardis.tardis_portal.admin.ObjectACLInline* attribute), 220

model (*tardis.tardis_portal.admin.ParameterNameInline* attribute), 220

model (*tardis.tardis_portal.admin.StorageBoxAttributeInline* attribute), 220

model (*tardis.tardis_portal.admin.StorageBoxAttributeInlineForm.Meta* attribute), 221

model (*tardis.tardis_portal.admin.StorageBoxForm.Meta* attribute), 221

model (*tardis.tardis_portal.admin.StorageBoxOptionInline* attribute), 222

model (*tardis.tardis_portal.admin.StorageBoxOptionInlineForm.Meta* attribute), 222

model (*tardis.tardis_portal.forms.DatasetForm.Meta* attribute), 235

model (*tardis.tardis_portal.forms.ExperimentAuthor.Meta* attribute), 235

model (*tardis.tardis_portal.forms.ExperimentForm.Meta* attribute), 236

model (*tardis.tardis_portal.forms.ManageAccountForm.Meta* attribute), 237

model (*tardis.tardis_portal.forms.RightsForm.Meta* attribute), 239

ModelsTestCase (class in *tardis.apps.push_to.tests.test_models*), 94

ModelTestCase (class in *tardis.apps.openid_migration.tests.test_models*), 88

ModelTestCase (class in *tardis.tardis_portal.tests.models*), 198

ModelTestCase (class in *tardis.tardis_portal.tests.test_storage*), 208

modification_time (*tardis.tardis_portal.models.datafile.DataFile* attribute), 148

modified_time (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 150

modified_time (*tardis.tardis_portal.models.dataset.Dataset* attribute), 154

modified_time (*tardis.tardis_portal.models.facility.Facility* attribute), 160

modified_time (*tardis.tardis_portal.models.instrument.Instrument* attribute), 162

move_file() (*tardis.tardis_portal.models.datafile.DataFileObject* method), 150

move_files() (*tardis.tardis_portal.models.storage.StorageBox* method), 183

move_to_master() (*tardis.tardis_portal.models.storage.StorageBox* method), 183

MultiValueCommaSeparatedField (class in *tardis.tardis_portal.fields*), 234

my_data() (in module *tardis.tardis_portal.views.pages*), 215

myt_auth() (*tardis.apps.sftp.sftp.MyTServerInterface* method), 120

MyTardisAuthentication (class in *tardis.tardis_portal.api*), 228

MyTardisAuthenticationTest (class in *tardis.tardis_portal.tests.api.test_auth*), 190

LocalFileSystemStorage (class in *tardis.tardis_portal.storage.file_system*), 187

MyTardisModelResource (class in *tardis.tardis_portal.api*), 228

MyTardisModelResource.Meta (class in <i>tardis.tardis_portal.api</i>), 228	name (tardis.tardis_portal.models.parameters.ExperimentParameter attribute), 169
MyTardisResourceTestCase (class in <i>tardis.tardis_portal.tests.api</i>), 195	name (tardis.tardis_portal.models.parameters.InstrumentParameter attribute), 171
MyTServerInterface (class in <i>tardis.apps.sftp.sftp</i>), 118	name (tardis.tardis_portal.models.parameters.Parameter attribute), 174
MyTSFTPHandle (class in <i>tardis.apps.sftp.sftp</i>), 116	name (tardis.tardis_portal.models.parameters.ParameterName attribute), 177
MyTSFTPRequestHandler (class in <i>tardis.apps.sftp.sftp</i>), 116	name (tardis.tardis_portal.models.parameters.Schema attribute), 180
MyTSFTPServer (class in <i>tardis.apps.sftp.sftp</i>), 116	name (tardis.tardis_portal.models.storage.StorageBox attribute), 183
MyTSFTPServerInterface (class in <i>tardis.apps.sftp.sftp</i>), 116	name_id (tardis.tardis_portal.models.parameters.Parameter attribute), 174
MyTSFTPTCPServer (class in <i>tardis.apps.sftp.sftp</i>), 118	namespace (tardis.tardis_portal.models.parameters.Schema attribute), 180
N	natural_key () (tardis.tardis_portal.models.parameters.ParameterName method), 177
name (tardis.analytics.apps.AnalyticsConfig attribute), 75	natural_key () (tardis.tardis_portal.models.parameters.Schema method), 180
name (tardis.apps.eventlog.models.Action attribute), 79	new_param () (tardis.tardis_portal.ParameterSetManager.ParameterSet method), 217
name (tardis.apps.openid_migration.apps.OpenidMigrationConfig attribute), 89	new_user (tardis.apps.openid_migration.models.OpenidUserMigration attribute), 91
name (tardis.apps.push_to.apps.PushToConfig attribute), 94	new_user_auth_method (tardis.apps.openid_migration.models.OpenidUserMigration attribute), 92
name (tardis.apps.s3utils.apps.S3UtilsConfig attribute), 106	new_user_id (tardis.apps.openid_migration.models.OpenidUserMigration attribute), 92
name (tardis.apps.search.apps.SearchConfig attribute), 109	next () (tardis.analytics.tracker.IteratorTracker method), 75
name (tardis.apps.search.documents.DataFileDocument.Index attribute), 109	nickname (tardis.apps.push_to.models.OAuthSSHCertSigningService attribute), 98
name (tardis.apps.search.documents.DatasetDocument.Index attribute), 110	nickname (tardis.apps.push_to.models.RemoteHost attribute), 99
name (tardis.apps.search.documents.ExperimentDocument.Index attribute), 110	NoInput (class in <i>tardis.tardis_portal.forms</i>), 238
name (tardis.apps.sftp.apps.SFTPConfig attribute), 113	NONE (tardis.tardis_portal.models.parameters.Schema attribute), 178
name (tardis.apps.sftp.models.SFTPPublicKey attribute), 115	NotAvailableCredential, 94
name (tardis.apps.social_auth.apps.SocialAuthConfig attribute), 122	NOT_EQUAL_COMPARISON (tardis.tardis_portal.models.parameters.ParameterName attribute), 175
name (tardis.tardis_portal.auth.localdb_auth.DjangoGroupProvider attribute), 133	normalize_user () (in module <i>tardis.apps.push_to.tasks</i>), 100
name (tardis.tardis_portal.auth.localdb_auth.DjangoUserProvider attribute), 133	now () (tardis.tardis_portal.tests.test_tokens.FrozenTime class method), 209
name (tardis.tardis_portal.auth.token_auth.TokenGroupProvider attribute), 134	NS_CC (tardis.apps.oaipmh.provider.experiment.AbstractExperimentProvider attribute), 83
name (tardis.tardis_portal.models.facility.Facility attribute), 160	NUMERIC (tardis.tardis_portal.models.parameters.ParameterName attribute), 175
name (tardis.tardis_portal.models.instrument.Instrument attribute), 162	numerical_value (tardis.tardis_portal.models.parameters.Parameter attribute), 174
name (tardis.tardis_portal.models.license.License attribute), 163	
name (tardis.tardis_portal.models.parameters.DatafileParameter attribute), 164	
name (tardis.tardis_portal.models.parameters.DatasetParameter attribute), 166	

O

- object_class (*tardis.tardis_portal.api.DatasetResource.Meta attribute*), 225
- oauth_authorize_url (*tardis.apps.push_to.models.OAuthSSHCertSigningService attribute*), 98
- oauth_callback () (in *module tardis.apps.push_to.views*), 102
- oauth_callback_url () (in *module tardis.apps.push_to.views*), 102
- oauth_check_token_url (*tardis.apps.push_to.models.OAuthSSHCertSigningService attribute*), 98
- oauth_client_id (*tardis.apps.push_to.models.OAuthSSHCertSigningService attribute*), 98
- oauth_client_secret (*tardis.apps.push_to.models.OAuthSSHCertSigningService attribute*), 98
- oauth_token_url (*tardis.apps.push_to.models.OAuthSSHCertSigningService attribute*), 98
- OAuthSSHCertSigningService (class in *tardis.apps.push_to.models*), 97
- OAuthSSHCertSigningService.DoesNotExist, 97
- OAuthSSHCertSigningService.MultipleObjectsReturned, 97
- oauthsshcertsigningservice_set (*tardis.apps.push_to.models.RemoteHost attribute*), 99
- obj (*tardis.apps.eventlog.models.Log attribute*), 79
- obj_create () (*tardis.apps.search.api.AdvanceSearchAppResource method*), 108
- obj_create () (*tardis.tardis_portal.api.DataFileResource method*), 224
- obj_create () (*tardis.tardis_portal.api.ExperimentResource method*), 227
- obj_get_list () (*tardis.apps.search.api.AdvanceSearchAppResource method*), 108
- obj_get_list () (*tardis.apps.search.api.SearchAppResource method*), 109
- object_class (*tardis.apps.search.api.AdvanceSearchAppResource.Meta attribute*), 107
- object_class (*tardis.apps.search.api.SearchAppResource.Meta attribute*), 108
- object_class (*tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta attribute*), 113
- object_class (*tardis.tardis_portal.api.DatafileParameterResource.Meta attribute*), 224
- object_class (*tardis.tardis_portal.api.DatafileParameterSetResource.Meta attribute*), 224
- object_class (*tardis.tardis_portal.api.DataFileResource.Meta attribute*), 223
- object_class (*tardis.tardis_portal.api.DatasetParameterResource.Meta attribute*), 225
- object_class (*tardis.tardis_portal.api.DatasetParameterSetResource.Meta attribute*), 225
- object_class (*tardis.tardis_portal.api.DatasetResource.Meta attribute*), 225
- object_class (*tardis.tardis_portal.api.ExperimentAuthorResource.Meta attribute*), 226
- object_class (*tardis.tardis_portal.api.ExperimentParameterResource.Meta attribute*), 226
- object_class (*tardis.tardis_portal.api.ExperimentParameterSetResource.Meta attribute*), 226
- object_class (*tardis.tardis_portal.api.ExperimentResource.Meta attribute*), 227
- object_class (*tardis.tardis_portal.api.FacilityResource.Meta attribute*), 227
- object_class (*tardis.tardis_portal.api.GroupResource.Meta attribute*), 227
- object_class (*tardis.tardis_portal.api.InstrumentResource.Meta attribute*), 228
- object_class (*tardis.tardis_portal.api.MyTardisModelResource.Meta attribute*), 228
- object_class (*tardis.tardis_portal.api.ObjectACLResource.Meta attribute*), 229
- object_class (*tardis.tardis_portal.api.ParameterNameResource.Meta attribute*), 229
- object_class (*tardis.tardis_portal.api.ReplicaResource.Meta attribute*), 230
- object_class (*tardis.tardis_portal.api.SchemaResource.Meta attribute*), 230
- object_class (*tardis.tardis_portal.api.StorageBoxAttributeResource.Meta attribute*), 231
- object_class (*tardis.tardis_portal.api.StorageBoxOptionResource.Meta attribute*), 231
- object_class (*tardis.tardis_portal.api.StorageBoxResource.Meta attribute*), 231
- object_class (*tardis.tardis_portal.api.UserResource.Meta attribute*), 232
- obj_id (*tardis.apps.eventlog.models.Log attribute*), 80
- obj_id (*tardis.tardis_portal.models.access_control.ObjectACL attribute*), 143
- ObjectACL (class in *tardis.tardis_portal.models.access_control*), 141
- ObjectACL.DoesNotExist, 141
- ObjectACL.MultipleObjectsReturned, 141
- ObjectACLAdmin (class in *tardis.tardis_portal.admin*), 219
- ObjectACLInline (class in *tardis.tardis_portal.admin*), 220
- ObjectACLResource (class in *tardis.tardis_portal.api*), 229
- ObjectACLResource.Meta (class in *tardis.tardis_portal.api*), 229
- objectacls (*tardis.tardis_portal.models.experiment.Experiment attribute*), 157
- ObjectACLTestCase (class in *test*), 157

`tardis.tardis_portal.tests.test_authorisation`, 202

objects (`tardis.apps.eventlog.models.Action` attribute), 79

objects (`tardis.apps.eventlog.models.Log` attribute), 80

objects (`tardis.apps.openid_migration.models.OpenidACLMigration` attribute), 90

objects (`tardis.apps.openid_migration.models.OpenidUserMigration` attribute), 92

objects (`tardis.apps.push_to.models.Credential` attribute), 95

objects (`tardis.apps.push_to.models.OAuthSSHCertSigningService` attribute), 98

objects (`tardis.apps.push_to.models.RemoteHost` attribute), 99

objects (`tardis.apps.sftp.models.SFTPPublicKey` attribute), 115

objects (`tardis.tardis_portal.models.access_control.GroupAdmin` attribute), 141

objects (`tardis.tardis_portal.models.access_control.ObjectACL` attribute), 143

objects (`tardis.tardis_portal.models.access_control.UserAuthentication` attribute), 143

objects (`tardis.tardis_portal.models.access_control.UserProfile` attribute), 144

objects (`tardis.tardis_portal.models.datafile.DataFile` attribute), 148

objects (`tardis.tardis_portal.models.datafile.DataFileObject` attribute), 150

objects (`tardis.tardis_portal.models.dataset.Dataset` attribute), 154

objects (`tardis.tardis_portal.models.experiment.Experiment` attribute), 157

objects (`tardis.tardis_portal.models.experiment.ExperimentAuthor` attribute), 159

objects (`tardis.tardis_portal.models.facility.Facility` attribute), 160

objects (`tardis.tardis_portal.models.instrument.Instrument` attribute), 162

objects (`tardis.tardis_portal.models.jti.JTI` attribute), 162

objects (`tardis.tardis_portal.models.license.License` attribute), 163

objects (`tardis.tardis_portal.models.parameters.DatafileParameterSet` attribute), 165

objects (`tardis.tardis_portal.models.parameters.DatasetParameterSet` attribute), 167

objects (`tardis.tardis_portal.models.parameters.ExperimentParameterSet` attribute), 170

objects (`tardis.tardis_portal.models.parameters.FreeTextSearchField` attribute), 170

objects (`tardis.tardis_portal.models.parameters.InstrumentParameterSet` attribute), 173

objects (`tardis.tardis_portal.models.parameters.Parameter` attribute), 174

objects (`tardis.tardis_portal.models.parameters.ParameterName` attribute), 177

objects (`tardis.tardis_portal.models.parameters.Schema` attribute), 180

objects (`tardis.tardis_portal.models.storage.StorageBox` attribute), 183

objects (`tardis.tardis_portal.models.storage.StorageBoxAttribute` attribute), 184

objects (`tardis.tardis_portal.models.storage.StorageBoxOption` attribute), 185

objects (`tardis.tardis_portal.models.token.Token` attribute), 186

offline_types (`tardis.tardis_portal.models.storage.StorageBox` attribute), 183

old_user (`tardis.apps.openid_migration.models.OpenidUserMigration` attribute), 92

old_user_auth_method (`tardis.apps.openid_migration.models.OpenidUserMigration` attribute), 92

old_user_id (`tardis.apps.openid_migration.models.OpenidUserMigration` attribute), 92

online_types (`tardis.tardis_portal.models.storage.StorageBox` attribute), 183

open() (`tardis.apps.sftp.sftp.MyTSFTPServerInterface` method), 117

openid_migration_method() (in module `tardis.apps.openid_migration.migration`), 90

openid_migration_processor() (in module `tardis.apps.openid_migration.context_processors`), 89

openid_user_migration_form() (in module `tardis.apps.openid_migration.forms`), 89

OpenidACLMigration (class in `tardis.apps.openid_migration.models`), 90

OpenidACLMigration.DoesNotExist, 90

OpenidACLMigration.MultipleObjectsReturned, 90

openidaclmigration_set (`tardis.apps.openid_migration.models.OpenidUserMigration` attribute), 92

openidaclmigration_set (`tardis.tardis_portal.models.access_control.ObjectACL` attribute), 143

OpenidACLMigrationAdmin (class in `tardis.apps.openid_migration.models`), 91

OpenidACLMigrationSectionConfig (class in `tardis.apps.openid_migration.apps`), 89

OpenidACLMigrationFormTestCase (class in `tardis.apps.openid_migration.tests.test_forms`), 88

OpenIDMigrationTestCase (class in

`tardis.apps.openid_migration.tests.test_migration)`, 88

`OpenIDMigrationViewTestCase` (class in `tardis.apps.openid_migration.tests.test_views`), 89

`OpenidUserMigration` (class in `tardis.apps.openid_migration.models`), 91

`OpenidUserMigration.DoesNotExist`, 91

`OpenidUserMigration.MultipleObjectsReturned`, 91

`OpenidUserMigrationAdmin` (class in `tardis.apps.openid_migration.models`), 92

`operations (tardis.apps.eventlog.migrations.0001_initial_migration)` (attribute), 77

`operations (tardis.apps.openid_migration.migrations.0001_initial_migration)` (attribute), 88

`operations (tardis.apps.push_to.migrations.0001_initial_migration)` (attribute), 93

`operations (tardis.apps.push_to.migrations.0002_auto_20160518_0953_migration)` (attribute), 93

`operations (tardis.apps.sftp.migrations.0001_initial_migration)` (attribute), 112

`operations (tardis.tardis_portal.migrations.0001_initial_migration)` (attribute), 136

`operations (tardis.tardis_portal.migrations.0001_squashed_initial_migration)` (attribute), 136

`operations (tardis.tardis_portal.migrations.0002_auto_20150528_1228_migration)` (attribute), 137

`operations (tardis.tardis_portal.migrations.0003_auto_20150907_0115_migration)` (attribute), 137

`operations (tardis.tardis_portal.migrations.0004_storage_box_option_tardis_tardis_portal_migration)` (attribute), 137

`operations (tardis.tardis_portal.migrations.0005_datafiler_remove_old_links_tardis_tardis_portal_migration)` (attribute), 137

`operations (tardis.tardis_portal.migrations.0006_datafiler_remove_old_links_tardis_tardis_portal_migration)` (attribute), 137

`operations (tardis.tardis_portal.migrations.0007_remove_parameters_tardis_tardis_portal_migration)` (attribute), 138

`operations (tardis.tardis_portal.migrations.0008_string_value_particularly_tardis_tardis_portal_migration)` (attribute), 138

`operations (tardis.tardis_portal.migrations.0009_auto_20160128_1119_migration)` (attribute), 138

`operations (tardis.tardis_portal.migrations.0010_auto_20160503_1443_migration)` (attribute), 138

`operations (tardis.tardis_portal.migrations.0011_auto_20160505_1643_migration)` (attribute), 138

`operations (tardis.tardis_portal.migrations.0012_user_authentication_override)` (attribute), 139

`operations (tardis.tardis_portal.migrations.0013_auto_20181002_1136_migration)` (attribute), 139

`operations (tardis.tardis_portal.migrations.0014_auto_20181002_1154_migration)` (attribute), 139

`operations (tardis.tardis_portal.migrations.0015_dataset_created_tardis_tardis_portal_migration)` (attribute), 139

`operations (tardis.tardis_portal.migrations.0016_add_timestamps_migration)` (attribute), 139

`operations (tardis.tardis_portal.migrations.0017_add_cc_licenses_migration)` (attribute), 139

`operations (tardis.tardis_portal.migrations.0018_make_default_storage_attribute)`, 140

`options (tardis.tardis_portal.models.storage.StorageBox)` (attribute), 183

`OrderSafeManager` (class in `tardis.tardis_portal.managers`), 242

`order (tardis.tardis_portal.models.experiment.ExperimentAuthor)` (attribute), 159

`order (tardis.tardis_portal.models.parameters.ParameterName)` (attribute), 177

`order (tardis.tardis_portal.api.DataFileResource.Meta)` (attribute), 223

`order (tardis.tardis_portal.api.DatasetResource.Meta)` (attribute), 225

`order (tardis.tardis_portal.api.ExperimentAuthorResource.Meta)` (attribute), 226

`ordering (tardis.tardis_portal.api.ExperimentResource.Meta)` (attribute), 227

`ordering (tardis.tardis_portal.api.FacilityResource.Meta)` (attribute), 227

`ordering (tardis.tardis_portal.api.InstrumentResource.Meta)` (attribute), 228

`ordering (tardis.tardis_portal.api.ObjectACLResource.Meta)` (attribute), 229

`ordering (tardis.tardis_portal.api.ReplicaResource.Meta)` (attribute), 230

`ordering (tardis.tardis_portal.api.SchemaResource.Meta)` (attribute), 230

`ordering (tardis.tardis_portal.api.StorageBoxAttributeResource.Meta)` (attribute), 231

`ordering (tardis.tardis_portal.api.StorageBoxOptionResource.Meta)` (attribute), 231

`ordering (tardis.tardis_portal.api.StorageBoxResource.Meta)` (attribute), 231

`ordering (tardis.tardis_portal.models.parameters.Parameter.Meta)` (attribute), 173

`ordering (tardis.tardis_portal.models.parameters.ParameterSet.Meta)` (attribute), 177

`ordering (tardis.tardis_portal.managers.ExperimentManager)` (method), 241

`owned_by_group () (tardis.tardis_portal.managers.ExperimentManager)`

`owned_by_user () (tardis.tardis_portal.managers.ExperimentManager)`

`owned_by_user_id () (tardis.tardis_portal.managers.ExperimentManager)` (method), 241

OWNER_OWNED (*tardis.tardis_portal.models.access_control.ObjectAccessControl*), 141

P

pagination() (in module *tardis.tardis_portal.templatetags.pagination*), 190
 paginator_number() (in module *tardis.tardis_portal.templatetags.pagination*), 190
 parallel_bulk() (*tardis.apps.search.documents.DatafileDocument* method), 110
 parallel_bulk() (*tardis.apps.search.documents.DatasetDocument* method), 110
 parallel_bulk() (*tardis.apps.search.documents.ExperimentDocument* method), 110
 Parameter (class in *tardis.tardis_portal.models.parameters*), 173
 Parameter.Meta (class in *tardis.tardis_portal.models.parameters*), 173
 parameter_class (*tardis.tardis_portal.models.parameters.DatafileParameterSet* attribute), 165
 parameter_class (*tardis.tardis_portal.models.parameters.DatasetParameterSet* attribute), 167
 parameter_class (*tardis.tardis_portal.models.parameters.ExperimentParameterSet* attribute), 170
 parameter_class (*tardis.tardis_portal.models.parameters.InstrumentParameterSet* attribute), 173
 parameter_class (*tardis.tardis_portal.models.parameters.ParameterSet* attribute), 177
 parameter_name (*tardis.tardis_portal.models.parameters.FreeTextSearchField* attribute), 171
 parameter_name_id (in *tardis.tardis_portal.models.parameters.FreeTextSearchField* attribute), 171
 parameter_type (*tardis.tardis_portal.models.parameters.DatafileParameterSet* attribute), 164
 parameter_type (*tardis.tardis_portal.models.parameters.DatasetParameterSet* attribute), 167
 parameter_type (*tardis.tardis_portal.models.parameters.ExperimentParameterSet* attribute), 169
 parameter_type (*tardis.tardis_portal.models.parameters.InstrumentParameterSet* attribute), 172
 parameter_type (*tardis.tardis_portal.models.parameters.ParameterSetManager* attribute), 172
 parameter_type (*tardis.tardis_portal.models.parameters.ParameterSet* attribute), 174
 ParameterName (class in *tardis.tardis_portal.models.parameters*), 174
 ParameterName.DoesNotExist, 174
 ParameterName.MultipleObjectsReturned, 175
 parametername_form() (in module *tardis.tardis_portal.api*), 229
 parametername_set (in *tardis.tardis_portal.models.parameters.Schema* attribute), 180
 ParameterNameAdmin (class in *tardis.tardis_portal.admin*), 220
 ParameterNameInline (class in *tardis.tardis_portal.admin*), 220
 ParameterNameManager (class in *tardis.tardis_portal.managers*), 242
 ParameterNameResource (class in *tardis.tardis_portal.api*), 229
 ParameterNameResource.Meta (class in *tardis.tardis_portal.api*), 229
 ParameterResource (class in *tardis.tardis_portal.api*), 229
 parameters (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager* attribute), 217
 ParameterSet (class in *tardis.tardis_portal.models.parameters*), 177
 ParameterSet.Meta (class in *tardis.tardis_portal.models.parameters*), 177
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.DatafileParameterSet* attribute), 164
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.DatasetParameterSet* attribute), 167
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.ExperimentParameterSet* attribute), 169
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.InstrumentParameterSet* attribute), 172
 ParameterSet.PI (in *tardis.tardis_portal.ParameterSetManager.ParameterSetManager* attribute), 217
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.FreeTextSearchField* attribute), 171
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.DatafileParameterSet* attribute), 165
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.DatasetParameterSet* attribute), 167
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.ExperimentParameterSet* attribute), 169
 ParameterSet.PI (in *tardis.tardis_portal.models.parameters.InstrumentParameterSet* attribute), 172
 ParameterSetManager (class in *tardis.tardis_portal.ParameterSetManager*), 217
 ParameterSetManagerMixin (class in *tardis.tardis_portal.models.parameters*), 178
 ParameterSetManagerTestCase (class in *tardis.tardis_portal.tests.test_parametersets*), 207
 ParameterSetResource (class in *tardis.tardis_portal.api*), 229

ParametersTestCase (class in attribute), 183
tardis.tardis_portal.tests.test_parameters), 206
 private_key (*tardis.apps.push_to.models.KeyPair* attribute), 96

ParameterTestCase (class in process_exception() (*tardis.tardis_portal.logging_middleware.LoggingMiddleware* method), 240
 198

password (*tardis.apps.push_to.models.Credential* attribute), 95
 process_request() (*tardis.tardis_portal.auth.token_auth.TokenAuthMiddleware* method), 134

PATH_LDAPADD (*tardis.tardis_portal.tests.slapped.Slapped* attribute), 201
 process_response() (*tardis.tardis_portal.logging_middleware.LoggingMiddleware* method), 240

PATH_LDAPSEARCH (*tardis.tardis_portal.tests.slapped.Slapped* attribute), 201
 ProxyingMetadataRegistry (class in *tardis.apps.oaipmh.server*), 86

PATH_SCHEMA_DIR (*tardis.tardis_portal.tests.slapped.Slapped* attribute), 201
 ProxyingServer (class in *tardis.apps.oaipmh.server*), 86, 253

PATH_SLAPD (*tardis.tardis_portal.tests.slapped.Slapped* attribute), 201
 public() (*tardis.tardis_portal.managers.ExperimentManager* method), 242

PATH_SLAPTEST (*tardis.tardis_portal.tests.slapped.Slapped* attribute), 201
 public_access (*tardis.tardis_portal.models.experiment.Experiment* attribute), 157

PATH_TMPDIR (*tardis.tardis_portal.tests.slapped.Slapped* attribute), 201
 PUBLIC_ACCESS_CHOICES
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

PICKLE (*tardis.tardis_portal.models.storage.StorageBoxOption* attribute), 185
 PUBLIC_ACCESS_EMBARGO
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

pluginId (*tardis.tardis_portal.models.access_control.ObjectACL* attribute), 143
 PUBLIC_ACCESS_FULL
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

port (*tardis.apps.push_to.models.RemoteHost* attribute), 99
 PUBLIC_ACCESS_NONE
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

post_list() (*tardis.tardis_portal.api.DataFileResource* method), 224
 public_access_implies_distribution() (*tardis.tardis_portal.models.experiment.Experiment* class method), 158

post_save_experiment() (in module *tardis.tardis_portal.models.hooks*), 161
 public_access_metadata
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

post_save_experiment_parameter() (in module *tardis.tardis_portal.models.hooks*), 161
 PUBLIC_ACCESS_NONE
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

post_save_experimentauthor() (in module *tardis.tardis_portal.models.hooks*), 161
 public_data() (in module *tardis.tardis_portal.views.pages*), 215

POST_SAVE_FILTERS (*tardis.default_settings* attribute), 46
 public_download_allowed() (*tardis.tardis_portal.models.experiment.Experiment* method), 158

prepare_experiments() (*tardis.apps.search.documents.DataFileDocument* method), 110
 public_key (*tardis.apps.push_to.models.KeyPair* attribute), 97

prepare_output() (*tardis.tardis_portal.download.UncachedTarStream* method), 233
 public_key (*tardis.apps.sftp.models.SFTPPublicKey* attribute), 115

prepend_urls() (*tardis.apps.s3utils.api.ReplicaAppResource* method), 105
 PUBLICATION_DETAILS_SCHEMA
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

prepend_urls() (*tardis.tardis_portal.api.DataFileResource* method), 224
 PUBLICATION_DRAFT_SCHEMA
 (*tardis.tardis_portal.models.experiment.Experiment* attribute), 155

prepend_urls() (*tardis.tardis_portal.api.DatasetResource* method), 226
 PUBLICATION_SCHEMA_ROOT

PrettyJSONSerializer (class in *tardis.apps.search.api*), 108
 PUBLICATION_SCHEMA_ROOT

PrettyJSONSerializer (class in *tardis.tardis_portal.api*), 230
 PUBLICATION_SCHEMA_ROOT

priority (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 150
 PUBLICATION_SCHEMA_ROOT

priority (*tardis.tardis_portal.models.storage.StorageBoxOption* attribute), 185
 PUBLICATION_SCHEMA_ROOT

(tardis.tardis_portal.models.experiment.Experiment
attribute), 155

publish_public_expt_rifcs() (in module
tardis.tardis_portal.models.hooks), 161

PublishService (class in
tardis.tardis_portal.publish.publishservice),
187

PublishServiceTestCase (class in
tardis.tardis_portal.tests.test_publishservice),
208

PushToConfig (class in tardis.apps.push_to.apps), 94

put_detail() (tardis.tardis_portal.api.DataFileResource
method), 224

queryset (tardis.tardis_portal.api.SchemaResource.Meta
attribute), 230

queryset (tardis.tardis_portal.api.StorageBoxAttributeResource.Meta
attribute), 231

queryset (tardis.tardis_portal.api.StorageBoxOptionResource.Meta
attribute), 231

queryset (tardis.tardis_portal.api.StorageBoxResource.Meta
attribute), 231

queryset (tardis.tardis_portal.api.UserResource.Meta
attribute), 232

queryset_pagination
(tardis.apps.search.documents.DataFileDocument.Django
attribute), 109

quote() (in module tardis.tardis_portal.tests.slapped),
202

Q

queryset (tardis.apps.s3utils.api.ReplicaAppResource.Meta
attribute), 105

R

queryset (tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta
attribute), 113

queryset (tardis.tardis_portal.api.DatafileParameterResource.Meta
attribute), 224

queryset (tardis.tardis_portal.api.DatafileParameterSetResource.Meta
attribute), 224

queryset (tardis.tardis_portal.api.DataFileResource.Meta
attribute), 223

queryset (tardis.tardis_portal.api.DatasetParameterResource.Meta
attribute), 225

queryset (tardis.tardis_portal.api.DatasetParameterSetResource.Meta
attribute), 225

queryset (tardis.tardis_portal.api.DatasetResource.Meta
attribute), 225

queryset (tardis.tardis_portal.api.ExperimentAuthorResource.Meta
attribute), 226

queryset (tardis.tardis_portal.api.ExperimentParameterResource.Meta
attribute), 226

queryset (tardis.tardis_portal.api.ExperimentParameterSetResource.Meta
attribute), 226

queryset (tardis.tardis_portal.api.ExperimentResource.Meta
attribute), 227

queryset (tardis.tardis_portal.api.FacilityResource.Meta
attribute), 227

queryset (tardis.tardis_portal.api.GroupResource.Meta
attribute), 228

queryset (tardis.tardis_portal.api.InstrumentResource.Meta
attribute), 228

queryset (tardis.tardis_portal.api.LocationResource.Meta
attribute), 228

queryset (tardis.tardis_portal.api.ObjectACLResource.Meta
attribute), 229

queryset (tardis.tardis_portal.api.ParameterNameResource.Meta
attribute), 229

queryset (tardis.tardis_portal.api.ReplicaResource.Meta
attribute), 230

RANGE_COMPARISON (tardis.tardis_portal.models.parameters.Parameter
attribute), 175

read_connectEduPersonTargetedID
(tardis.tardis_portal.models.access_control.UserProfile
attribute), 144

raw_id_fields (tardis.apps.eventlog.admin.LogAdmin
attribute), 77

rcauth() (in module
tardis.tardis_portal.views.authentication),
211

read_detail() (tardis.apps.sftp.api.SFTPACLAuthorization
method), 112

read_detail() (tardis.tardis_portal.api.ACLAuthorization
method), 223

read_list() (tardis.apps.sftp.api.SFTPACLAuthorization
method), 113

read_list() (tardis.tardis_portal.api.ACLAuthorization
method), 223

read_metadata() (tardis.apps.oaipmh.server.ProxyingMetadataRegistry
method), 86

redirect_back_with_error() (in module
tardis.tardis_portal.shortcuts), 243

RegisterExperimentForm (class in
tardis.tardis_portal.forms), 238

registerReader() (tardis.apps.oaipmh.server.ProxyingMetadataRegis
trationRegistry
method), 86

registerWriter() (tardis.apps.oaipmh.server.ProxyingMetadataRegis
trationRegistry
method), 86

REGISTRATION_OPEN (in module
tardis.default_settings.auth), 123

registration_processor() (in module
tardis.tardis_portal.context_processors),
232

RegistrationForm (class in
tardis.tardis_portal.forms), 238

related_models (tardis.apps.search.documents.DataFileDocument.Django
attribute), 109

- related_models (*tardis.apps.search.documents.DatasetDocument* *Django attribute*), 110
- related_models (*tardis.apps.search.documents.ExperimentDocument* *Django attribute*), 110
- RelatedInfoForm (class in *tardis.apps.related_info.forms*), 104
- remote_hosts (*tardis.apps.push_to.models.Credential* *attribute*), 95
- remote_user (*tardis.apps.push_to.models.Credential* *attribute*), 95
- RemoteHost (class in *tardis.apps.push_to.models*), 98
- RemoteHost.DoesNotExist, 98
- RemoteHost.MultipleObjectsReturned, 98
- RemoteHostAdmin (class in *tardis.apps.push_to.models*), 99
- remove_auth_method() (in module *tardis.tardis_portal.auth.authentication*), 128
- remove_csrf_token() (in module *tardis.tardis_portal.views.utils*), 216
- remove_licenses() (in module *tardis.tardis_portal.migrations.0017_add_cc_licenses*), 140
- RemovedInMyTardis42Warning, 232
- RemovedInMyTardis43Warning, 233
- render() (*tardis.tardis_portal.forms.NoInput* *method*), 238
- render() (*tardis.tardis_portal.templatetags.capture.CaptureNode* *method*), 189
- render() (*tardis.tardis_portal.templatetags.dynurl.DynURLNode* *method*), 189
- render() (*tardis.tardis_portal.widgets.CommaSeparatedInput* *method*), 244
- render() (*tardis.tardis_portal.widgets.Label* *method*), 245
- render_error_message() (in module *tardis.apps.push_to.views*), 102
- render_error_message() (in module *tardis.tardis_portal.shortcuts*), 243
- RENDER_IMAGE_DATASET_SIZE_LIMIT (in module *tardis.default_settings.frontend*), 126
- RENDER_IMAGE_SIZE_LIMIT (in module *tardis.default_settings.frontend*), 126
- render_response_index() (in module *tardis.tardis_portal.shortcuts*), 243
- render_success_message() (in module *tardis.apps.push_to.views*), 102
- render_to_file() (in module *tardis.tardis_portal.shortcuts*), 244
- replaces (*tardis.tardis_portal.migrations.0001_squashed_0016* *attribute*), 136
- ReplicaAppResource (class in *tardis.apps.s3utils.api*), 105
- ReplicaAppResource.Meta (class in *tardis.tardis_portal.api*), 230
- ReplicaResource (class in *tardis.tardis_portal.api*), 230
- ReplicaResource.Meta (class in *tardis.tardis_portal.api*), 230
- ReplicaResourceTest (class in *tardis.tardis_portal.tests.api.test_replica_resource*), 193
- REQUIRE_DATAFILE_CHECKSUMS (*tardis.default_settings* *attribute*), 45
- REQUIRE_DATAFILE_SIZES (*tardis.default_settings* *attribute*), 45
- REQUIRE_SSL_TO_GENERATE_KEY (in module *tardis.apps.sftp.default_settings*), 114
- REQUIRE_VALIDATION_ON_INGESTION (*tardis.default_settings* *attribute*), 45
- requires_admin_approval() (in module *tardis.apps.social_auth.auth.social_auth*), 122
- resource_name (*tardis.apps.s3utils.api.ReplicaAppResource.Meta* *attribute*), 105
- resource_name (*tardis.apps.search.api.AdvanceSearchAppResource.Meta* *attribute*), 108
- resource_name (*tardis.apps.search.api.SearchAppResource.Meta* *attribute*), 108
- resource_name (*tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta* *attribute*), 113
- resource_name (*tardis.tardis_portal.api.DataFileResource.Meta* *attribute*), 223
- restart() (*tardis.tardis_portal.tests.slapd.Slapd* *method*), 201
- InputfulExperimentParameterSet (class in *tardis.tardis_portal.shortcuts*), 243
- retrieve_access_list_group_readonly() (in module *tardis.tardis_portal.views.authorisation*), 211
- retrieve_access_list_user_readonly() (in module *tardis.tardis_portal.views.authorisation*), 211
- retrieve_group_list() (in module *tardis.tardis_portal.views.authorisation*), 211
- retrieve_group_list_by_user() (in module *tardis.tardis_portal.views.authorisation*), 211
- retrieve_group_userlist_readonly() (in module *tardis.tardis_portal.views.authorisation*), 211
- retrieve_licenses() (in module *tardis.tardis_portal.views.ajax_json*), 210
- retrieve_shared_exps_list() (in module *tardis.tardis_portal.views.ajax_pages*), 211
- retrieve_user_list() (in module *tardis.tardis_portal.views.ajax_pages*), 211

tardis.tardis_portal.views.authorisation),
 211
return_response_error() (in module
tardis.tardis_portal.shortcuts), 244
return_response_error_message() (in mod-
 ule *tardis.tardis_portal.shortcuts*), 244
return_response_not_found() (in module
tardis.tardis_portal.shortcuts), 244
 REUSE_DATASET_STORAGE_BOX (in module
tardis.default_settings.storage), 127
reverse_func() (in module
tardis.tardis_portal.migrations.0017_add_cc_licenses),
 140
 RFC
 RFC 3339, 243
rfc3339() (in module *tardis.tardis_portal.rfc3339*),
 243
RifCsExperimentProvider (class in
tardis.apps.oaipmh.provider.experiment),
 83
RifCsExperimentProvider.ExperimentWritersave()
 (class in *tardis.apps.oaipmh.provider.experiment*),
 83
RifCsExperimentProviderTestCase (class in
tardis.apps.oaipmh.tests.provider.test_experiment),
 85
RifCsProvider (class in
tardis.tardis_portal.publish.provider.rifcsprovider),
 187
RifCSTestCase (class in
tardis.apps.related_info.tests.test_oaipmh),
 102
RightsForm (class in *tardis.tardis_portal.forms*), 239
RightsForm.Meta (class in
tardis.tardis_portal.forms), 239
RightsFormTestCase (class in
tardis.tardis_portal.tests.test_forms), 205
RightsTestCase (class in
tardis.tardis_portal.tests.views.test_auth_views),
 198
RmExperimentTestCase (class in
tardis.tardis_portal.tests.management.test_rmexperiment),
 196
rollback_migration() (in module
tardis.apps.openid_migration.utils), 93
S
S3_SIGNED_URL_EXPIRY (in module
tardis.apps.s3utils.default_settings), 106
S3UtilsAppApiTestCase (class in
tardis.apps.s3utils.tests.test_api), 104
S3UtilsAppChecksumsTestCase (class in
tardis.apps.s3utils.tests.test_checksums), 105
S3UtilsConfig (class in *tardis.apps.s3utils.apps*),
 106
S3UtilsConfigTestCase (class in
tardis.apps.s3utils.tests.test_app_config),
 105
safe (*tardis.tardis_portal.models.experiment.Experiment*
 attribute), 158
sanitize_html() (in module
tardis.tardis_portal.templatetags.formfieldfilters),
 190
save() (*tardis.apps.push_to.models.KeyPair* method),
 97
save() (*tardis.tardis_portal.forms.ExperimentForm*
 method), 236
save() (*tardis.tardis_portal.forms.RegistrationForm*
 method), 239
save() (*tardis.tardis_portal.models.access_control.UserAuthentication*
 method), 143
save() (*tardis.tardis_portal.models.datafile.DataFile*
 method), 148
save() (*tardis.tardis_portal.models.datafile.DataFileObject*
 method), 150
save() (*tardis.tardis_portal.models.dataset.Dataset*
 method), 154
save() (*tardis.tardis_portal.models.experiment.Experiment*
 method), 158
save() (*tardis.tardis_portal.models.experiment.ExperimentAuthor*
 method), 159
save() (*tardis.tardis_portal.models.facility.Facility*
 method), 160
save() (*tardis.tardis_portal.models.instrument.Instrument*
 method), 162
save() (*tardis.tardis_portal.models.parameters.ExperimentParameter*
 method), 169
save() (*tardis.tardis_portal.models.parameters.ParameterSet*
 method), 177
save_m2m() (*tardis.tardis_portal.forms.ExperimentForm.FullExperimentForm*
 method), 236
save_parameter_add_form() (in module
tardis.tardis_portal.forms), 240
save_parameter_edit_form() (in module
tardis.tardis_portal.forms), 240
save_with_random_token()
 (*tardis.tardis_portal.models.token.Token*
 method), 186
Schema (class in *tardis.tardis_portal.models.parameters*),
 178
schema (*tardis.tardis_portal.models.parameters.DatafileParameterSet*
 attribute), 165
schema (*tardis.tardis_portal.models.parameters.DatasetParameterSet*
 attribute), 168
schema (*tardis.tardis_portal.models.parameters.ExperimentParameterSet*
 attribute), 170
schema (*tardis.tardis_portal.models.parameters.InstrumentParameterSet*

- attribute*), 173
- schema (*tardis.tardis_portal.models.parameters.ParameterName attribute*), 177
- schema (*tardis.tardis_portal.models.parameters.ParameterSet attribute*), 178
- schema (*tardis.tardis_portal.shortcuts.RestfulExperimentParameterSet attribute*), 243
- Schema.DoesNotExist, 178
- Schema.MultipleObjectsReturned, 178
- Schema.UnsupportedType, 178
- schema_id (*tardis.tardis_portal.models.parameters.ParameterName attribute*), 177
- schema_id (*tardis.tardis_portal.models.parameters.ParameterSet attribute*), 178
- SchemaAdmin (class in *tardis.tardis_portal.admin*), 220
- SchemaManager (class in *tardis.tardis_portal.managers*), 242
- SchemaResource (class in *tardis.tardis_portal.api*), 230
- SchemaResource.Meta (class in *tardis.tardis_portal.api*), 230
- SchemaResourceTest (class in *tardis.tardis_portal.tests.api.test_schema_resource*), 194
- search_fields (*tardis.apps.eventlog.admin.LogAdmin attribute*), 77
- search_fields (*tardis.tardis_portal.admin.DatafileAdmin attribute*), 218
- search_fields (*tardis.tardis_portal.admin.DatasetAdmin attribute*), 218
- search_fields (*tardis.tardis_portal.admin.ExperimentAdmin attribute*), 219
- search_fields (*tardis.tardis_portal.admin.FacilityAdmin attribute*), 219
- search_fields (*tardis.tardis_portal.admin.InstrumentAdmin attribute*), 219
- search_fields (*tardis.tardis_portal.admin.ObjectACLAdmin attribute*), 220
- search_fields (*tardis.tardis_portal.admin.ParameterNameAdmin attribute*), 220
- search_fields (*tardis.tardis_portal.admin.SchemaAdmin attribute*), 220
- search_fields (*tardis.tardis_portal.admin.StorageBoxAdmin attribute*), 220
- search_fields (*tardis.tardis_portal.admin.UserAuthenticationAdmin attribute*), 222
- SearchAppResource (class in *tardis.apps.search.api*), 108
- SearchAppResource.Meta (class in *tardis.apps.search.api*), 108
- SearchConfig (class in *tardis.apps.search.apps*), 109
- searchEntities () (*tardis.tardis_portal.auth.authservice.AuthService method*), 130
- searchGroups () (*tardis.tardis_portal.auth.authservice.AuthService method*), 130
- searchGroups () (*tardis.tardis_portal.auth.interfaces.GroupProvider method*), 132
- searchGroups () (*tardis.tardis_portal.auth.localdb_auth.DjangoGroupProvider method*), 132
- searchGroups () (*tardis.tardis_portal.auth.token_auth.TokenGroupProvider method*), 134
- searchGroups () (*tardis.tardis_portal.tests.test_authservice.MockGroupProvider method*), 203
- SearchObject (class in *tardis.apps.search.api*), 109
- searchUsers () (*tardis.tardis_portal.auth.authservice.AuthService method*), 132
- searchUsers () (*tardis.tardis_portal.auth.interfaces.UserProvider method*), 132
- SearchView (class in *tardis.apps.search.views*), 111
- SECRET_KEY, 44
- send_admin_email () (in module *tardis.apps.social_auth.auth.social_auth*), 122
- serializer (*tardis.apps.search.api.AdvanceSearchAppResource.Meta attribute*), 108
- serializer (*tardis.apps.search.api.SearchAppResource.Meta attribute*), 108
- serializer (*tardis.tardis_portal.api.MyTardisModelResource.Meta attribute*), 228
- serializer (*tardis.tardis_portal.api.UserResource.Meta attribute*), 232
- SerializerTest (class in *tardis.tardis_portal.tests.api.test_serializer*), 194
- Admin debug () (*tardis.tardis_portal.tests.slapped.SlappedAdmin method*), 201
- Admin suffix () (*tardis.tardis_portal.tests.slapped.SlappedAdmin method*), 201
- Admin set_param () (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager method*), 217
- Admin set_param_list () (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager method*), 217
- Admin session_from_dict () (*tardis.tardis_portal.ParameterSetManager.ParameterSetManager method*), 217
- set_port () (*tardis.tardis_portal.tests.slapped.SlappedAdmin method*), 201
- set_root_cn () (*tardis.tardis_portal.tests.slapped.SlappedAdmin method*), 201
- session_password () (*tardis.tardis_portal.tests.slapped.SlappedAdmin method*), 201

201	setUp () (<i>tardis.apps.search.tests.test_index.IndexExperimentTestCase</i>
setUp_slapd_debug_level ()	method), 107
(<i>tardis.tardis_portal.tests.slapd.Slapd</i> method),	setUp () (<i>tardis.apps.sftp.sftp.MyTSFTPRequestHandler</i>
201	method), 116
setUp_tmpdir () (<i>tardis.tardis_portal.tests.slapd.Slapd</i>	setUp () (<i>tardis.apps.sftp.tests.test_sftp.SFTPTest</i>
method), 201	method), 112
setUp_token () (in module	setUp () (<i>tardis.tardis_portal.tests.api.MyTardisResourceTestCase</i>
<i>tardis.apps.push_to.oauth_tokens</i>), 100	method), 195
setUp_value () (<i>tardis.tardis_portal.models.parameters.Parameters</i>	setUp () (<i>tardis.tardis_portal.tests.api.test_datafile_resource.DataFileRes</i>
method), 174	method), 191
setUpPost () (<i>tardis.tardis_portal.tests.test_authservice.MockRequest</i>	setUp () (<i>tardis.tardis_portal.tests.api.test_dataset_metadata_resources.L</i>
method), 203	method), 191
settings (<i>tardis.apps.search.documents.DataFileDocumentIndex</i>	setUp () (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetReso</i>
attribute), 109	method), 192
settings (<i>tardis.apps.search.documents.DatasetDocumentIndex</i>	setUp () (<i>tardis.tardis_portal.tests.api.test_experiment_resource.Experim</i>
attribute), 110	method), 192
settings (<i>tardis.apps.search.documents.ExperimentDocumentIndex</i>	setUp () (<i>tardis.tardis_portal.tests.api.test_schema_resource.SchemaReso</i>
attribute), 110	method), 194
setUp () (<i>tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTest</i>	setUp () (<i>tardis.tardis_portal.tests.management.test_collectstatic.Collects</i>
method), 84	method), 195
setUp () (<i>tardis.apps.oaipmh.tests.provider.test_experiments.AbstractExperimentProvider</i>	setUp () (<i>tardis.tardis_portal.tests.management.test_dumpschemas.Dump</i>
method), 84	method), 196
setUp () (<i>tardis.apps.oaipmh.tests.test_oai.EndpointTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.models.ModelTestCase</i>
method), 85	method), 198
setUp () (<i>tardis.apps.openid_migration.tests.test_forms.OpenIDMigrationFormTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_authentication.AuthenticationTest</i>
method), 88	method), 202
setUp () (<i>tardis.apps.openid_migration.tests.test_migrations.OpenIDMigrationTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase</i>
method), 88	method), 202
setUp () (<i>tardis.apps.openid_migration.tests.test_models.ModelTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase</i>
method), 88	method), 203
setUp () (<i>tardis.apps.openid_migration.tests.test_views.OpenIDMigrationViewTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_copy_move.CopyMoveTestCase</i>
method), 89	method), 203
setUp () (<i>tardis.apps.push_to.tests.test_models.ModelsTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_df_save_metadata.DatafileSaveM</i>
method), 94	method), 204
setUp () (<i>tardis.apps.related_info.tests.test_oaipmh.RifCSSTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_download.DownloadTestCase</i>
method), 102	method), 204
setUp () (<i>tardis.apps.related_info.tests.tests.CreateTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_download_apikey.ApiKeyDownloa</i>
method), 102	method), 204
setUp () (<i>tardis.apps.related_info.tests.tests.DeleteTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_facility_overview.FacilityOverview</i>
method), 102	method), 205
setUp () (<i>tardis.apps.related_info.tests.tests.GetTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_forms.RightsFormTestCase</i>
method), 103	method), 205
setUp () (<i>tardis.apps.related_info.tests.tests.ListTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_iiif.ExtraTestCases</i>
method), 103	method), 205
setUp () (<i>tardis.apps.related_info.tests.tests.TabTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_iiif.Level0TestCase</i>
method), 103	method), 205
setUp () (<i>tardis.apps.related_info.tests.tests.UpdateTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_iiif.Level1TestCase</i>
method), 103	method), 205
setUp () (<i>tardis.apps.s3utils.tests.test_api.S3UtilsAppApiTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_iiif.Level2TestCase</i>
method), 104	method), 206
setUp () (<i>tardis.apps.s3utils.tests.test_checksums.S3UtilsAppChecksumTestCase</i>	setUp () (<i>tardis.tardis_portal.tests.test_ldap.LDAPTest</i>
method), 105	method), 206
setUp () (<i>tardis.apps.search.tests.test_api.SimpleSearchTest</i>	setUp () (<i>tardis.tardis_portal.tests.test_parameters.ParametersTestCase</i>
method), 107	method), 207

215
 status (*tardis.tardis_portal.models.datafile.DataFile*
 attribute), 148
 status (*tardis.tardis_portal.models.storage.StorageBox*
 attribute), 183
 status_code (*tardis.tardis_portal.views.utils.HttpResponseMethodNotAllowed*
 attribute), 216
 status_code (*tardis.tardis_portal.views.utils.HttpResponseServerError*
 attribute), 216
 stop () (*tardis.tardis_portal.tests.slapi.Slapi method*),
 202
 storage_box (*tardis.tardis_portal.models.datafile.DataFileObject*
 attribute), 150
 storage_box (*tardis.tardis_portal.models.parameters.DatafileParameterSet*
 attribute), 166
 storage_box (*tardis.tardis_portal.models.parameters.DatasetParameterSet*
 attribute), 168
 storage_box (*tardis.tardis_portal.models.parameters.ExperimentParameterSet*
 attribute), 170
 storage_box (*tardis.tardis_portal.models.parameters.InstrumentParameterSet*
 attribute), 173
 storage_box (*tardis.tardis_portal.models.parameters.ParameterSet*
 attribute), 178
 storage_box (*tardis.tardis_portal.models.storage.StorageBoxAttribute*
 attribute), 184
 storage_box (*tardis.tardis_portal.models.storage.StorageBoxOption*
 attribute), 185
 storage_box_id (*tardis.tardis_portal.models.datafile.DataFileObject*
 attribute), 150
 storage_box_id (*tardis.tardis_portal.models.storage.StorageBoxAttribute*
 attribute), 184
 storage_box_id (*tardis.tardis_portal.models.storage.StorageBoxOption*
 attribute), 185
 storage_type (*tardis.tardis_portal.models.datafile.DataFileObject*
 attribute), 150
 storage_type (*tardis.tardis_portal.models.storage.StorageBox*
 attribute), 183
 StorageBox (class in
 tardis.tardis_portal.models.storage), 180
 StorageBox.DoesNotExist, 180
 StorageBox.MultipleObjectsReturned, 180
 StorageBoxAdmin (class in
 tardis.tardis_portal.admin), 220
 StorageBoxAttribute (class in
 tardis.tardis_portal.models.storage), 184
 StorageBoxAttribute.DoesNotExist, 184
 StorageBoxAttribute.MultipleObjectsReturned, 184
 StorageBoxAttributeInline (class in
 tardis.tardis_portal.admin), 220
 StorageBoxAttributeInlineForm (class in
 tardis.tardis_portal.admin), 220
 StorageBoxAttributeInlineForm.Meta (class
 in *tardis.tardis_portal.admin*), 221
 StorageBoxAttributeResource (class in
 tardis.tardis_portal.api), 230
 StorageBoxAttributeResource.Meta (class in
 tardis.tardis_portal.api), 231
 StorageBoxAttributeResourceTest (class in
 tardis.tardis_portal.tests.api.test_storagebox_resources),
 194
 StorageBoxForm (class in
 tardis.tardis_portal.admin), 221
 StorageBoxForm.Meta (class in
 tardis.tardis_portal.admin), 221
 StorageBoxOption (class in
 tardis.tardis_portal.models.storage), 184
 StorageBoxOption.DoesNotExist, 184
 StorageBoxOption.MultipleObjectsReturned,
 184
 StorageBoxOptionInline (class in
 tardis.tardis_portal.admin), 221
 StorageBoxOptionInlineForm (class in
 tardis.tardis_portal.admin), 222
 StorageBoxOptionInlineForm.Meta (class in
 tardis.tardis_portal.admin), 222
 StorageBoxOptionResource (class in
 tardis.tardis_portal.api), 231
 StorageBoxOptionResource.Meta (class in
 tardis.tardis_portal.api), 231
 StorageBoxOptionResourceTest (class in
 tardis.tardis_portal.tests.api.test_storagebox_resources),
 194
 StorageBoxResource (class in
 tardis.tardis_portal.api), 231
 StorageBoxResource.Meta (class in
 tardis.tardis_portal.api), 231
 StorageBoxResourceTest (class in
 tardis.tardis_portal.tests.api.test_storagebox_resources),
 194
 streaming_download_datafiles () (in module
 tardis.tardis_portal.download), 233
 STRING (*tardis.tardis_portal.models.parameters.ParameterName*
 attribute), 175
 STRING (*tardis.tardis_portal.models.storage.StorageBoxOption*
 attribute), 185
 string_value (*tardis.tardis_portal.models.parameters.Parameter*
 attribute), 174
 subtype (*tardis.tardis_portal.models.parameters.Schema*
 attribute), 180
 suite () (in module *tardis.tardis_portal.tests.tests*), 210
 sum_sizes () (*tardis.tardis_portal.models.datafile.DataFile*
 class method), 148
 supports_anonymous_user
 (*tardis.tardis_portal.auth.authorisation.ACLAwareBackend*
 attribute), 129
 supports_object_permissions
 (*tardis.tardis_portal.auth.authorisation.ACLAwareBackend*

- attribute*), 129
- SYSTEM_OWNED (*tardis.tardis_portal.models.access_control_objects.AccessControlObject* *attribute*), 141
- system_owned_groups () (*tardis.tardis_portal.managers.ExperimentManager* *method*), 242
- ## T
- TabTestCase (*class* in *tardis.apps.related_info.tests.tests*), 103
- tag (*tardis.tardis_portal.widgets.Label* *attribute*), 245
- tag (*tardis.tardis_portal.widgets.Span* *attribute*), 245
- TAPE (*tardis.tardis_portal.models.storage.StorageBox* *attribute*), 180
- tardis (*module*), 248
- tardis.analytics (*module*), 76
- tardis.analytics.apps (*module*), 75
- tardis.analytics.ga (*module*), 75
- tardis.analytics.tracker (*module*), 75
- tardis.app_config (*module*), 247
- tardis.apps (*module*), 122
- tardis.apps.deep_storage_download_mapper (*module*), 76
- tardis.apps.deep_storage_download_mapper.mapper (*module*), 76
- tardis.apps.deep_storage_download_mapper.urls (*module*), 76
- tardis.apps.dl_mapper_df_dir_only (*module*), 77
- tardis.apps.dl_mapper_df_dir_only.mapper (*module*), 76
- tardis.apps.dl_mapper_df_dir_only.urls (*module*), 77
- tardis.apps.eventlog (*module*), 80
- tardis.apps.eventlog.admin (*module*), 77
- tardis.apps.eventlog.default_settings (*module*), 77
- tardis.apps.eventlog.fields (*module*), 78
- tardis.apps.eventlog.migrations (*module*), 77
- tardis.apps.eventlog.migrations.0001_initial (*module*), 77
- tardis.apps.eventlog.models (*module*), 78
- tardis.apps.eventlog.signals (*module*), 80
- tardis.apps.eventlog.urls (*module*), 80
- tardis.apps.eventlog.utils (*module*), 80
- tardis.apps.filepicker (*module*), 81
- tardis.apps.filepicker.filepicker_settings (*module*), 80
- tardis.apps.filepicker.urls (*module*), 80
- tardis.apps.filepicker.utils (*module*), 80
- tardis.apps.filepicker.views (*module*), 81
- tardis.apps.oaipmh (*module*), 87
- tardis.apps.oaipmh.models (*module*), 85
- tardis.apps.oaipmh.provider (*module*), 84
- tardis.apps.oaipmh.provider.base (*module*), 81
- tardis.apps.oaipmh.provider.experiment (*module*), 83
- tardis.apps.oaipmh.server (*module*), 86
- tardis.apps.oaipmh.tests (*module*), 85
- tardis.apps.oaipmh.tests.provider (*module*), 85
- tardis.apps.oaipmh.tests.provider.test_base (*module*), 84
- tardis.apps.oaipmh.tests.provider.test_experiment (*module*), 84
- tardis.apps.oaipmh.tests.test_oai (*module*), 85
- tardis.apps.oaipmh.urls (*module*), 87
- tardis.apps.oaipmh.views (*module*), 87
- tardis.apps.openid_migration (*module*), 93
- tardis.apps.openid_migration.apps (*module*), 89
- tardis.apps.openid_migration.context_processors (*module*), 89
- tardis.apps.openid_migration.default_settings (*module*), 89
- tardis.apps.openid_migration.email_text (*module*), 89
- tardis.apps.openid_migration.forms (*module*), 89
- tardis.apps.openid_migration.migration (*module*), 89
- tardis.apps.openid_migration.migrations (*module*), 88
- tardis.apps.openid_migration.migrations.0001_initial (*module*), 88
- tardis.apps.openid_migration.models (*module*), 90
- tardis.apps.openid_migration.tasks (*module*), 92
- tardis.apps.openid_migration.tests (*module*), 89
- tardis.apps.openid_migration.tests.test_forms (*module*), 88
- tardis.apps.openid_migration.tests.test_migration (*module*), 88
- tardis.apps.openid_migration.tests.test_models (*module*), 88
- tardis.apps.openid_migration.tests.test_views (*module*), 89
- tardis.apps.openid_migration.urls (*module*), 92
- tardis.apps.openid_migration.user_menu_modifiers (*module*), 93
- tardis.apps.openid_migration.utils (*module*), 93

tardis.apps.openid_migration.views (*module*), 93
 tardis.apps.push_to (*module*), 102
 tardis.apps.push_to.apps (*module*), 94
 tardis.apps.push_to.exceptions (*module*), 94
 tardis.apps.push_to.migrations (*module*), 94
 tardis.apps.push_to.migrations.0001_init (#111) (*module*), 93
 tardis.apps.push_to.migrations.0002_auto_20160518_1953 (#195) (*module*), 93
 tardis.apps.push_to.models (*module*), 94
 tardis.apps.push_to.oauth_tokens (*module*), 100
 tardis.apps.push_to.ssh_authz (*module*), 100
 tardis.apps.push_to.tasks (*module*), 100
 tardis.apps.push_to.tests (*module*), 94
 tardis.apps.push_to.tests.test_models (*module*), 94
 tardis.apps.push_to.urls (*module*), 101
 tardis.apps.push_to.utils (*module*), 101
 tardis.apps.push_to.views (*module*), 101
 tardis.apps.related_info (*module*), 104
 tardis.apps.related_info.forms (*module*), 104
 tardis.apps.related_info.models (*module*), 104
 tardis.apps.related_info.settings (*module*), 104
 tardis.apps.related_info.tests (*module*), 103
 tardis.apps.related_info.tests.test_oaipmh (*module*), 102
 tardis.apps.related_info.tests.tests (*module*), 102
 tardis.apps.related_info.urls (*module*), 104
 tardis.apps.related_info.views (*module*), 104
 tardis.apps.s3utils (*module*), 107
 tardis.apps.s3utils.api (*module*), 105
 tardis.apps.s3utils.apps (*module*), 106
 tardis.apps.s3utils.default_settings (*module*), 106
 tardis.apps.s3utils.tests (*module*), 105
 tardis.apps.s3utils.tests.test_api (*module*), 104
 tardis.apps.s3utils.tests.test_app_config (*module*), 105
 tardis.apps.s3utils.tests.test_checksums (*module*), 105
 tardis.apps.s3utils.urls (*module*), 106
 tardis.apps.s3utils.utils (*module*), 106
 tardis.apps.search (*module*), 111
 tardis.apps.search.api (*module*), 107
 tardis.apps.search.apps (*module*), 109
 tardis.apps.search.documents (*module*), 109
 tardis.apps.search.tests (*module*), 107
 tardis.apps.search.tests.test_api (*module*), 107
 tardis.apps.search.tests.test_index (*module*), 107
 tardis.apps.search.urls (*module*), 110
 tardis.apps.search.views (*module*), 111
 tardis.apps.sftp (*module*), 121
 tardis.apps.sftp.admin (*module*), 112
 tardis.apps.sftp.api (*module*), 112
 tardis.apps.sftp.apps (*module*), 113
 tardis.apps.sftp.default_settings (*module*), 114
 tardis.apps.sftp.forms (*module*), 114
 tardis.apps.sftp.management (*module*), 111
 tardis.apps.sftp.management.commands (*module*), 111
 tardis.apps.sftp.management.commands.sftpd (*module*), 111
 tardis.apps.sftp.migrations (*module*), 112
 tardis.apps.sftp.migrations.0001_initial (*module*), 111
 tardis.apps.sftp.models (*module*), 114
 tardis.apps.sftp.sftp (*module*), 115
 tardis.apps.sftp.tests (*module*), 112
 tardis.apps.sftp.tests.test_sftp (*module*), 112
 tardis.apps.sftp.urls (*module*), 120
 tardis.apps.sftp.user_menu_modifiers (*module*), 120
 tardis.apps.sftp.views (*module*), 121
 tardis.apps.social_auth (*module*), 122
 tardis.apps.social_auth.apps (*module*), 122
 tardis.apps.social_auth.auth (*module*), 122
 tardis.apps.social_auth.auth.social_auth (*module*), 121
 tardis.apps.social_auth.default_settings (*module*), 122
 tardis.celery (*module*), 248
 tardis.default_settings (*module*), 128
 tardis.default_settings.admins (*module*), 122
 tardis.default_settings.analytics (*module*), 123
 tardis.default_settings.apps (*module*), 123
 tardis.default_settings.apps_default_settings (*module*), 123
 tardis.default_settings.auth (*module*), 123

tardis.default_settings.caches (*module*), 123
 tardis.default_settings.celery_settings (*module*), 123
 tardis.default_settings.custom_views (*module*), 123
 tardis.default_settings.database (*module*), 124
 tardis.default_settings.debug (*module*), 124
 tardis.default_settings.downloads (*module*), 124
 tardis.default_settings.email (*module*), 125
 tardis.default_settings.filters (*module*), 125
 tardis.default_settings.frontend (*module*), 126
 tardis.default_settings.i18n (*module*), 126
 tardis.default_settings.localisation (*module*), 126
 tardis.default_settings.logging (*module*), 126
 tardis.default_settings.middlewares (*module*), 126
 tardis.default_settings.publication (*module*), 126
 tardis.default_settings.search (*module*), 126
 tardis.default_settings.sharing (*module*), 127
 tardis.default_settings.site_customisations (*module*), 127
 tardis.default_settings.static_files (*module*), 127
 tardis.default_settings.storage (*module*), 127
 tardis.default_settings.templates (*module*), 127
 tardis.default_settings.uploads (*module*), 127
 tardis.default_settings.urls (*module*), 128
 tardis.tardis_portal (*module*), 246, 248
 tardis.tardis_portal.admin (*module*), 217
 tardis.tardis_portal.api (*module*), 222
 tardis.tardis_portal.auth (*module*), 134
 tardis.tardis_portal.auth.authentication (*module*), 128
 tardis.tardis_portal.auth.authorisation (*module*), 129
 tardis.tardis_portal.auth.authservice (*module*), 129
 tardis.tardis_portal.auth.decorators (*module*), 130
 tardis.tardis_portal.auth.fix_circular (*module*), 132
 tardis.tardis_portal.auth.interfaces (*module*), 132
 tardis.tardis_portal.auth.localdb_auth (*module*), 133
 tardis.tardis_portal.auth.token_auth (*module*), 134
 tardis.tardis_portal.auth.utils (*module*), 134
 tardis.tardis_portal.context_processors (*module*), 232
 tardis.tardis_portal.deprecations (*module*), 232
 tardis.tardis_portal.download (*module*), 233
 tardis.tardis_portal.email (*module*), 234
 tardis.tardis_portal.fields (*module*), 234
 tardis.tardis_portal.forms (*module*), 234
 tardis.tardis_portal.iiif (*module*), 240
 tardis.tardis_portal.logging_middleware (*module*), 240
 tardis.tardis_portal.management (*module*), 136
 tardis.tardis_portal.management.commands (*module*), 136
 tardis.tardis_portal.management.commands.createuser (*module*), 135
 tardis.tardis_portal.management.commands.dumpschema (*module*), 135
 tardis.tardis_portal.management.commands.loadschema (*module*), 135
 tardis.tardis_portal.management.commands.rmexperiment (*module*), 136
 tardis.tardis_portal.managers (*module*), 240
 tardis.tardis_portal.migrations (*module*), 140
 tardis.tardis_portal.migrations.0001_initial (*module*), 136
 tardis.tardis_portal.migrations.0001_squashed_0011 (*module*), 136
 tardis.tardis_portal.migrations.0002_auto_20150528 (*module*), 137
 tardis.tardis_portal.migrations.0003_auto_20150907 (*module*), 137
 tardis.tardis_portal.migrations.0004_storageboxopt (*module*), 137
 tardis.tardis_portal.migrations.0005_datafile_add (*module*), 137
 tardis.tardis_portal.migrations.0006_datafile_remove (*module*), 137
 tardis.tardis_portal.migrations.0007_remove_paramet (*module*), 138

tardis.tardis_portal.migrations.0008_string_val(module), 187
 (module), 138 tardis.tardis_portal.publish.publishservice
 tardis.tardis_portal.migrations.0009_auto_20160503_1157(module), 187
 (module), 138 tardis.tardis_portal.rfc3339 (module), 243
 tardis.tardis_portal.migrations.0010_auto_20160503_1443(module), 138
 (module), 138 tardis.tardis_portal.shortcuts (module),
 243
 tardis.tardis_portal.migrations.0011_auto_20160505_1643(module), 138
 (module), 138 tardis.tardis_portal.storage (module), 188
 tardis.tardis_portal.migrations.0012_userauthn(module), 187
 (module), 138 tardis.tardis_portal.storage.file_system
 tardis.tardis_portal.migrations.0013_auto_20181002_1136(module), 139
 (module), 139 tardis.tardis_portal.tasks (module), 244
 tardis.tardis_portal.migrations.0014_auto_20181002_1154(module), 139
 (module), 139 tardis.tardis_portal.templatetags (mod-
 (module), 190
 tardis.tardis_portal.migrations.0015_datastore_createdistinct(module), 139
 (module), 139 tardis.tardis_portal.templatetags.approved_user_ta
 (module), 188
 tardis.tardis_portal.migrations.0016_add_timestamptardis_portal.templatetags.basiccomparisonf
 (module), 139 (module), 188
 tardis.tardis_portal.migrations.0017_add_tardisdiscards_tardis_portal.templatetags.bleach_tag
 (module), 139 (module), 188
 tardis.tardis_portal.migrations.0018_makedefaultstoragepagestemplatebasedyndynurl
 (module), 140 (module), 189
 tardis.tardis_portal.models (module), 186, tardis.tardis_portal.templatetags.capture
 246, 248 (module), 189
 tardis.tardis_portal.models.access_contrbtardis.tardis_portal.templatetags.experiment_tags
 (module), 140 (module), 189
 tardis.tardis_portal.models.datafile tardis.tardis_portal.templatetags.experimentstats
 (module), 145 (module), 189
 tardis.tardis_portal.models.dataset tardis.tardis_portal.templatetags.facility_tags
 (module), 151 (module), 189
 tardis.tardis_portal.models.experiment tardis.tardis_portal.templatetags.feed
 (module), 154 (module), 189
 tardis.tardis_portal.models.facility tardis.tardis_portal.templatetags.formfieldfilters
 (module), 159 (module), 190
 tardis.tardis_portal.models.hooks (mod- tardis.tardis_portal.templatetags.lookupfilters
 (module), 161 (module), 190
 tardis.tardis_portal.models.instrument tardis.tardis_portal.templatetags.pagination
 (module), 161 (module), 190
 tardis.tardis_portal.models.jti (module), tardis.tardis_portal.templatetags.xmldate
 162 (module), 210
 tardis.tardis_portal.models.license tardis.tardis_portal.tests (module), 195
 (module), 163 (module), 195
 tardis.tardis_portal.models.parameters tardis.tardis_portal.tests.api (module),
 (module), 164 (module), 190
 tardis.tardis_portal.models.storage tardis.tardis_portal.tests.api.test_auth
 (module), 180 (module), 191
 tardis.tardis_portal.models.token (mod- tardis.tardis_portal.tests.api.test_datafile_metada
 (module), 185 (module), 191
 tardis.tardis_portal.ParameterSetManager (module), 191
 (module), 217 (module), 191
 tardis.tardis_portal.publish (module), 187 tardis.tardis_portal.tests.api.test_datafile_resour
 tardis.tardis_portal.publish.provider (module), 187 (module), 192
 tardis.tardis_portal.publish.provider.rifasprovider tardis.tardis_portal.tests.api.test_dataset_metadat
 (module), 187 (module), 192
 tardis.tardis_portal.tests.api.test_dataset_resourc
 (module), 192
 tardis.tardis_portal.tests.api.test_experiment_meta
 (module), 192
 tardis.tardis_portal.tests.api.test_experiment_resou
 (module), 192

(*module*), 192

tardis.tardis_portal.tests.api.test_facilities (*module*), 192

tardis.tardis_portal.tests.api.test_group_permissions (*module*), 193

tardis.tardis_portal.tests.api.test_instruments (*module*), 193

tardis.tardis_portal.tests.api.test_list_clients (*module*), 193

tardis.tardis_portal.tests.api.test_replicas (*module*), 193

tardis.tardis_portal.tests.api.test_schemas (*module*), 194

tardis.tardis_portal.tests.api.test_serializers (*module*), 194

tardis.tardis_portal.tests.api.test_storage (*module*), 194

tardis.tardis_portal.tests.api.test_user_permissions (*module*), 194

tardis.tardis_portal.tests.auth (*module*), 195

tardis.tardis_portal.tests.ldap_ldif (*module*), 200

tardis.tardis_portal.tests.management (*module*), 196

tardis.tardis_portal.tests.management.test_delete (*module*), 195

tardis.tardis_portal.tests.management.test_create (*module*), 195

tardis.tardis_portal.tests.management.test_display (*module*), 196

tardis.tardis_portal.tests.management.test_load (*module*), 196

tardis.tardis_portal.tests.management.test_experiment (*module*), 196

tardis.tardis_portal.tests.models (*module*), 198

tardis.tardis_portal.tests.models.test_auth (*module*), 196

tardis.tardis_portal.tests.models.test_data (*module*), 197

tardis.tardis_portal.tests.models.test_data (*module*), 197

tardis.tardis_portal.tests.models.test_df (*module*), 197

tardis.tardis_portal.tests.models.test_experiment (*module*), 197

tardis.tardis_portal.tests.models.test_generate_api_key (*module*), 197

tardis.tardis_portal.tests.models.test_instrument (*module*), 198

tardis.tardis_portal.tests.models.test_parameters (*module*), 198

tardis.tardis_portal.tests.slapd (*module*), 192

tardis.tardis_portal.tests.test_authentication (*module*), 202

tardis.tardis_portal.tests.test_authorisation (*module*), 202

tardis.tardis_portal.tests.test_authservice (*module*), 203

tardis.tardis_portal.tests.test_copy_move (*module*), 203

tardis.tardis_portal.tests.test_df_save_metadata (*module*), 204

tardis.tardis_portal.tests.test_download (*module*), 204

tardis.tardis_portal.tests.test_download_apikey (*module*), 204

tardis.tardis_portal.tests.test_facility_overview (*module*), 205

tardis.tardis_portal.tests.test_forms (*module*), 205

tardis.tardis_portal.tests.test_iiif (*module*), 205

tardis.tardis_portal.tests.test_ldap (*module*), 206

tardis.tardis_portal.tests.test_parameters (*module*), 206

tardis.tardis_portal.tests.test_parametersets (*module*), 207

tardis.tardis_portal.tests.test_publishservice (*module*), 208

tardis.tardis_portal.tests.test_storage (*module*), 208

tardis.tardis_portal.tests.test_tar_download (*module*), 209

tardis.tardis_portal.tests.test_tasks (*module*), 209

tardis.tardis_portal.tests.test_tokens (*module*), 209

tardis.tardis_portal.tests.tests (*module*), 210

tardis.tardis_portal.tests.urls (*module*), 210

tardis.tardis_portal.tests.views (*module*), 200

tardis.tardis_portal.tests.views.test_auth_views (*module*), 198

tardis.tardis_portal.tests.views.test_contextual_views (*module*), 199

tardis.tardis_portal.tests.views.test_experiment_views (*module*), 199

tardis.tardis_portal.tests.views.test_template_content (*module*), 199

tardis.tardis_portal.tests.views.test_upload_views (*module*), 200

tardis.tardis_portal.util (*module*), 244

tardis.tardis_portal.views (module), 216, 246, 248

tardis.tardis_portal.views.ajax_actions (module), 210

tardis.tardis_portal.views.ajax_json (module), 210

tardis.tardis_portal.views.ajax_pages (module), 211

tardis.tardis_portal.views.authentication (module), 211

tardis.tardis_portal.views.authorisation (module), 211

tardis.tardis_portal.views.facilities (module), 212

tardis.tardis_portal.views.images (module), 212

tardis.tardis_portal.views.machine (module), 212

tardis.tardis_portal.views.pages (module), 212

tardis.tardis_portal.views.parameters (module), 215

tardis.tardis_portal.views.upload (module), 216

tardis.tardis_portal.views.utils (module), 216

tardis.tardis_portal.widgets (module), 244

tardis.tardis_portal.xmlwriter (module), 245

tardis.test_on_mysql_settings (module), 248

tardis.test_on_postgresql_settings (module), 248

tardis.test_settings (module), 248

tardis.urls (module), 247

tardis.urls.accounts (module), 246

tardis.urls.ajax (module), 246

tardis.urls.api (module), 246

tardis.urls.core (module), 246

tardis.urls.datafile (module), 247

tardis.urls.dataset (module), 247

tardis.urls.display (module), 247

tardis.urls.download (module), 247

tardis.urls.experiment (module), 247

tardis.urls.facility (module), 247

tardis.urls.group (module), 247

tardis.urls.token (module), 247

tardis.views (module), 248

TarDownTestCase (class in *tardis.tardis_portal.tests.test_tar_download*), 209

tarinfo_for_df () (*tardis.tardis_portal.download.UncachedTarStream* method), 233

tearDown () (*tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase* method), 84

tearDown () (*tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentTestCase* method), 84

tearDown () (*tardis.apps.oaipmh.tests.provider.test_experiment.RifCsExperimentTestCase* method), 85

tearDown () (*tardis.apps.oaipmh.tests.test_oai.EndpointTestCase* method), 85

tearDown () (*tardis.apps.s3utils.tests.test_api.S3UtilsAppApiTestCase* method), 104

tearDown () (*tardis.apps.s3utils.tests.test_checksums.S3UtilsAppChecksumsTestCase* method), 105

tearDown () (*tardis.tardis_portal.tests.api.test_dataset_metadata_resource.DatasetMetadataResourceTestCase* method), 191

tearDown () (*tardis.tardis_portal.tests.api.test_schema_resource.SchemaResourceTestCase* method), 194

tearDown () (*tardis.tardis_portal.tests.management.test_collectstatic.CollectStaticTestCase* method), 195

tearDown () (*tardis.tardis_portal.tests.management.test_dumpschemas.DumpSchemasTestCase* method), 196

tearDown () (*tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase* method), 202

tearDown () (*tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase* method), 203

tearDown () (*tardis.tardis_portal.tests.test_copy_move.CopyMoveTestCase* method), 203

tearDown () (*tardis.tardis_portal.tests.test_df_save_metadata.DatafileSaveMetadataTestCase* method), 204

tearDown () (*tardis.tardis_portal.tests.test_download.DownloadTestCase* method), 204

tearDown () (*tardis.tardis_portal.tests.test_download_apikey.ApiKeyDownloadTestCase* method), 204

tearDown () (*tardis.tardis_portal.tests.test_ldap.LDAPTestCase* method), 206

tearDown () (*tardis.tardis_portal.tests.test_parameters.ParametersTestCase* method), 207

tearDown () (*tardis.tardis_portal.tests.test_parametersets.EditParameterSetsTestCase* method), 207

tearDown () (*tardis.tardis_portal.tests.test_parametersets.ParameterSetsTestCase* method), 207

tearDown () (*tardis.tardis_portal.tests.test_storage.ModelTestCase* method), 208

tearDown () (*tardis.tardis_portal.tests.test_tar_download.TarDownDownloadTestCase* method), 209

tearDown () (*tardis.tardis_portal.tests.test_tokens.TokenTestCase* method), 209

tearDown () (*tardis.tardis_portal.tests.views.test_auth_views.UserGroupTestCase* method), 198

tearDown () (*tardis.tardis_portal.tests.views.test_auth_views.UserListTestCase* method), 199

tearDown () (*tardis.tardis_portal.tests.views.test_contextual_views.ContextualViewsTestCase* method), 199

tearDown () (*tardis.tardis_portal.tests.views.test_template_contexts.ExperimentTemplateContextsTestCase* method), 200

tearDown () (*tardis.tardis_portal.tests.views.test_template_contexts.ViewTemplateContextsTestCase* method), 200

method), 200
 tearDown() (*tardis.tardis_portal.tests.views.test_upload_views.UploadViewTestCase*)
method), 200
 temp_url (*tardis.tardis_portal.api.DataFileResource* attribute), 224
 template_name (*tardis.apps.search.views.SearchView* attribute), 111
 template_name (*tardis.tardis_portal.views.pages.DatasetView* attribute), 213
 template_name (*tardis.tardis_portal.views.pages.ExperimentView* attribute), 214
 template_name (*tardis.tardis_portal.views.pages.IndexView* attribute), 214
 TEMPORARY (*tardis.tardis_portal.models.storage.StorageBox* attribute), 180
 test_add_datafile_params() (*tardis.tardis_portal.tests.test_parametersets.EditParametersetTestCase*)
method), 207
 test_add_dataset_params() (*tardis.tardis_portal.tests.test_parametersets.EditParametersetTestCase*)
method), 207
 test_add_experiment_params() (*tardis.tardis_portal.tests.test_parametersets.EditParametersetTestCase*)
method), 207
 test_advance_search_authenticated_user() (*tardis.apps.search.tests.test_api.SimpleSearchTest*)
method), 107
 test_advance_search_unauthenticated_user() (*tardis.apps.search.tests.test_api.SimpleSearchTest*)
method), 107
 test_apikey_authentication() (*tardis.tardis_portal.tests.api.test_auth.MyTardisAuthenticationTest*)
method), 190
 test_app_config() (*tardis.apps.s3utils.tests.test_app_config.S3UtilsConfigTestCase*)
method), 105
 test_authenticate() (*tardis.tardis_portal.tests.test_ldap.LDAPTest*)
method), 206
 test_authors() (*tardis.tardis_portal.tests.models.test_authors.AuthorTestCase*)
method), 197
 test_bad_credentials() (*tardis.tardis_portal.tests.api.test_auth.MyTardisAuthenticationTest*)
method), 190
 test_cache() (*tardis.tardis_portal.tests.test_copy_move.CopyMoveTestCase*)
method), 204
 test_checksums() (*tardis.apps.s3utils.tests.test_checksums.S3UtilsChecksumsTestCase*)
method), 105
 test_collectstatic() (*tardis.tardis_portal.tests.management.test_collectstatic.CollectStaticTest*)
method), 195
 test_copy() (*tardis.tardis_portal.tests.test_copy_move.CopyMoveTestCase*)
method), 204
 test_create_and_edit() (*tardis.tardis_portal.tests.views.test_experiment_views.ExperimentViewTestCase*)
method), 199
 test_create_dataset_pset() (*tardis.tardis_portal.tests.api.test_dataset_metadata_resources.DatasetMetadataResourceTestCase*)
method), 191
 test_create_dataset_pset_no_auth() (*tardis.tardis_portal.tests.api.test_dataset_metadata_resources.DatasetMetadataResourceTestCase*)
method), 191
 test_create_df_for_staging() (*tardis.tardis_portal.tests.api.test_datafile_resource.DataFileResourceTestCase*)
method), 191
 test_create_index() (*tardis.apps.search.tests.test_index.IndexExperimentTestCase*)
method), 107
 test_create_token() (*tardis.tardis_portal.tests.test_tokens.TokenTestCase*)
method), 209
 test_create_user_automatically_generate_api_key() (*tardis.tardis_portal.tests.models.test_generate_api_key.ApiKeyTestCase*)
method), 197
 test_credential_generation() (*tardis.apps.push_to.tests.test_models.ModelsTestCase*)
method), 104
 test_cyberduck_connection_window() (*tardis.apps.sftp.tests.test_sftp.SFTPTest*)
method), 112
 test_datafile() (*tardis.tardis_portal.tests.models.test_datafile.DataFileResourceTestCase*)
method), 197
 test_dataset() (*tardis.tardis_portal.tests.models.test_dataset.DatasetTestCase*)
method), 197
 test_dataset_json() (*tardis.tardis_portal.tests.views.test_experiment_views.ExperimentViewTestCase*)
method), 199
 test_dataset_view() (*tardis.tardis_portal.tests.views.test_template_contexts.ViewTemplateContextTestCase*)
method), 200
 test_debug_serializer() (*tardis.tardis_portal.tests.api.test_serializer.SerializerTestCase*)
method), 194
 test_dfo_without_uri() (*tardis.tardis_portal.tests.models.test_dfo.DataFileObjectTestCase*)
method), 197
 test_details_display() (*tardis.apps.s3utils.tests.test_details_display.DetailsDisplayTestCase*)
method), 199
 test_df_save_metadata() (*tardis.tardis_portal.tests.test_df_save_metadata.DatafileSaveMetadataTestCase*)
method), 204
 test_authentication() (*tardis.tardis_portal.tests.test_authentication.AuthenticationTestCase*)
method), 202

test_do_migration() (<i>tardis.apps.openid_migration.tests.test_migration.OpenIDMigrationTestCase</i> method), 88	test_get_dataset_files() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192
test_download_apikey() (<i>tardis.tardis_portal.tests.test_download_apikey.ApiKeyDownloadTestCase</i> method), 204	test_get_dataset_filter_instrument() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192
test_download_dfo() (<i>tardis.apps.s3utils.tests.test_api.S3UtilsAppApiTestCase</i> method), 104	test_get_dataset_no_instrument() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192
test_download_file() (<i>tardis.tardis_portal.tests.api.test_datafile_resource.DataFileResourceTestCase</i> method), 191	test_get_dataset_with_instrument() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192
test_edit_datafile_params() (<i>tardis.tardis_portal.tests.test_parametersets.EditParameterSetTestCase</i> method), 207	test_get_dir_tuples() (<i>tardis.tardis_portal.tests.models.test_dataset.DatasetTestCase</i> method), 197
test_edit_dataset_params() (<i>tardis.tardis_portal.tests.test_parametersets.EditParameterSetTestCase</i> method), 207	test_get_experiment() (<i>tardis.tardis_portal.tests.api.test_experiment_resource.ExperimentResource</i> method), 192
test_edit_experiment_params() (<i>tardis.tardis_portal.tests.test_parametersets.EditParameterSetTestCase</i> method), 207	test_get_experiment_author() (<i>tardis.tardis_portal.tests.api.test_experiment_resource.ExperimentResource</i> method), 192
test_ensures_suitable_license() (<i>tardis.tardis_portal.tests.test_forms.RightsFormTestCase</i> method), 205	test_get_facility_by_id() (<i>tardis.tardis_portal.tests.api.test_facility_resource.FacilityResource</i> method), 192
test_existing_parameterset() (<i>tardis.tardis_portal.tests.test_parametersets.ParameterSetTestCase</i> method), 207	test_get_facility_by_manager_group_id() (<i>tardis.tardis_portal.tests.api.test_facility_resource.FacilityResource</i> method), 192
test_experiment() (<i>tardis.tardis_portal.tests.models.test_experiment.ExperimentTestCase</i> method), 197	test_get_facility_by_name() (<i>tardis.tardis_portal.tests.api.test_facility_resource.FacilityResource</i> method), 193
test_experiment_parameter_get() (<i>tardis.tardis_portal.tests.test_parameters.ParametersTestCase</i> method), 207	test_get_group_by_id() (<i>tardis.tardis_portal.tests.api.test_group_resource.GroupResource</i> method), 193
test_experiment_view() (<i>tardis.tardis_portal.tests.views.test_template_contexts.ViewTemplateContextsTestCase</i> method), 200	test_get_group_by_name() (<i>tardis.tardis_portal.tests.api.test_group_resource.GroupResource</i> method), 193
test_facility_overview_datafile_list() (<i>tardis.tardis_portal.tests.test_facility_overview.FacilityOverviewTestCase</i> method), 205	test_get_group_list() (<i>tardis.tardis_portal.tests.views.test_auth_views.UserGroupListsTestCase</i> method), 198
test_facility_overview_experiments() (<i>tardis.tardis_portal.tests.test_facility_overview.FacilityOverviewTestCase</i> method), 205	test_get_instrument_by_id() (<i>tardis.tardis_portal.tests.api.test_instrument_resource.InstrumentResource</i> method), 193
test_file_upload() (<i>tardis.tardis_portal.tests.views.test_upload_views.UploadTestCase</i> method), 200	test_get_instrument_by_name() (<i>tardis.tardis_portal.tests.api.test_instrument_resource.InstrumentResource</i> method), 193
test_get_allowed_signing_services() (<i>tardis.apps.push_to.tests.test_models.ModelsTestCase</i> method), 94	test_get_receiving_box() (<i>tardis.tardis_portal.tests.test_storage.ModelTestCase</i> method), 209
test_get_child_dir_nodes() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192	test_get_root_dir_nodes() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192
test_get_child_dir_nodes_no_files_in_rooted_dir() (<i>tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResource</i> method), 192	test_get_schema_by_id() (<i>tardis.tardis_portal.tests.api.test_schema_resource.SchemaResource</i> method), 194

test_get_schema_by_namespace() (tardis.tardis_portal.tests.api.test_schema_resource.SchemaResourceTest method), 198
 test_get_session_expiry() (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210
 test_get_session_expiry_expired_token() (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 209
 test_get_session_expiry_near_expiry() (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210
 test_get_storage_box_attr_list_from_box_id() (tardis.tardis_portal.tests.api.test_storagebox_resource.StorageBoxAttrList method), 194
 test_get_storage_box_by_id() (tardis.tardis_portal.tests.api.test_storagebox_resource.StorageBoxResourceTest method), 194
 test_get_storage_box_option_by_id() (tardis.tardis_portal.tests.api.test_storagebox_resource.StorageBoxOptionResourceTest method), 194
 test_get_storage_box_option_list_from_box_id() (tardis.tardis_portal.tests.api.test_storagebox_resource.StorageBoxOptionResourceTest method), 194
 test_get_user_by_id() (tardis.tardis_portal.tests.api.test_user_resource.UserResourceTest method), 194
 test_get_user_by_username() (tardis.tardis_portal.tests.api.test_user_resource.UserResourceTest method), 194
 test_get_user_list() (tardis.tardis_portal.tests.views.test_auth_views.UserGroupListsTestCase method), 199
 test_get_user_list() (tardis.tardis_portal.tests.views.test_auth_views.UserListTestCase method), 199
 test_getgroupbyid() (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206
 test_getgroups() (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206
 test_getgroupsforentity() (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206
 test_getuserbyid() (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206
 test_image_filename_parameters() (tardis.tardis_portal.tests.test_parameters.ParametersTestCase method), 207
 test_init() (tardis.apps.openid_migration.tests.test_forms.OpenIDMigrationFormTestCase method), 88
 test_instrument() (tardis.tardis_portal.tests.models.test_instrument.InstrumentTest method), 191
 test_list_endpoints() (tardis.tardis_portal.tests.api.test_list_api_endpoints.ListEndpoints method), 193
 test_login() (tardis.tardis_portal.tests.tests.UserInterfaceTestCase method), 210
 test_manage_account() (tardis.tardis_portal.tests.views.test_auth_views.ManageAccount method), 210
 test_migrate_accounts() (tardis.apps.openid_migration.tests.test_views.OpenIDMigration method), 89
 test_move() (tardis.tardis_portal.tests.test_copy_move.CopyMoveTestCase method), 204
 test_view() (tardis.tardis_portal.tests.views.test_template_contexts.ExperimentView method), 200
 test_reset() (tardis.tardis_portal.tests.test_parameters.ParametersTestCase method), 208
 test_user_migration_creation() (tardis.apps.openid_migration.tests.test_models.ModelTestCase method), 88
 test_parameter() (tardis.tardis_portal.tests.models.test_parameter.ParametersTestCase method), 198
 test_parameterset_as_string() (tardis.tardis_portal.tests.test_parameters.ParametersTestCase method), 208
 test_permissions_checks() (tardis.tardis_portal.tests.test_parameters.ParametersTestCase method), 207
 test_pkey_to_credential() (tardis.apps.push_to.tests.test_models.ModelsTestCase method), 94
 test_dataset() (tardis.tardis_portal.tests.api.test_dataset_resource.DatasetResourceTest method), 191
 test_post_dataset_with_params() (tardis.tardis_portal.tests.api.test_dataset_metadata_resources.DatasetMetadataResourceTest method), 191

test_post_experiment () (tardis.tardis_portal.tests.api.test_datafile_resource.DataFileResourceTest method), 192

test_post_instrument () (tardis.tardis_portal.tests.api.test_instrument_resource.InstrumentResourceTest method), 193

test_post_single_file () (tardis.tardis_portal.tests.api.test_datafile_resource.DataFileResourceTest method), 191

test_pretty_serializer () (tardis.tardis_portal.tests.api.test_serializer.SerializerTest method), 194

test_rename_instrument () (tardis.tardis_portal.tests.api.test_instrument_resource.InstrumentResourceTest method), 193

test_retrieve_access_list_tokens () (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210

test_rights_require_valid_owner () (tardis.tardis_portal.tests.views.test_auth_views.RightsTestCases method), 198

test_root () (tardis.tardis_portal.tests.tests.UserInterfaceTestCase method), 210

test_save_with_random_token () (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210

test_save_with_random_token_failures () (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210

test_save_with_random_token_gives_up () (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210

test_search () (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206

test_search () (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206

test_searchgroups () (tardis.tardis_portal.tests.test_ldap.LDAPTest method), 206

test_sftp () (tardis.apps.sftp.tests.test_sftp.SFTPTest method), 112

test_sftp_dynamic_docs_dataset () (tardis.apps.sftp.tests.test_sftp.SFTPTest method), 112

test_sftp_dynamic_docs_experiment () (tardis.apps.sftp.tests.test_sftp.SFTPTest method), 112

test_sftp_key_connect () (tardis.apps.sftp.tests.test_sftp.SFTPTest method), 112

test_shared_fs_many_files () (tardis.tardis_portal.tests.api.test_datafile_resource.DataFileResourceTest method), 191

test_shared_fs_single_file () (tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase method), 203

test_shared_view () (tardis.tardis_portal.tests.views.test_template_contexts.ExperimentResourceTest method), 200

test_simple_search_authenticated_user () (tardis.apps.search.tests.test_api.SimpleSearchTest method), 107

test_simple_search_unauthenticated_user () (tardis.apps.search.tests.test_api.SimpleSearchTest method), 107

test_storageboxoption () (tardis.tardis_portal.tests.test_storage.ModelTestCase method), 200

test_tar_experiment_download () (tardis.tardis_portal.tests.test_tar_download.TarDownloadTestCase method), 209

test_token_delete () (tardis.tardis_portal.tests.test_tokens.TokenTestCase method), 210

test_tz_aware_date_handling () (tardis.tardis_portal.tests.test_parametersets.ParameterSetManagement method), 208

test_tz_naive_date_handling () (tardis.tardis_portal.tests.test_parametersets.ParameterSetManagement method), 208

test_unauthorized_instrument_access_attempt () (tardis.tardis_portal.tests.api.test_instrument_resource.InstrumentResourceTest method), 193

test_unresolvable_link_parameter () (tardis.tardis_portal.tests.test_parametersets.ParameterSetManagement method), 208

test_upload_complete () (tardis.tardis_portal.tests.views.test_upload_views.UploadTestCase method), 200

test_urls () (tardis.tardis_portal.tests.tests.UserInterfaceTestCase method), 210

test_urls_with_some_content () (tardis.tardis_portal.tests.tests.UserInterfaceTestCase method), 210

TEST_UTILS_DIR (tardis.tardis_portal.tests.slapd.Slapd attribute), 201

test_wrong_size_verification () (tardis.tardis_portal.tests.test_tasks.BackgroundTaskTestCase method), 209

testAccessWithoutReadPerms () (tardis.apps.related_info.tests.tests.TabTestCase method), 103

testAccessWithReadPerms () (tardis.apps.related_info.tests.tests.TabTestCase method), 103

testCanCreate () (*tardis.apps.related_info.tests.tests.CreateTestCase* method), 102

testCanDelete () (*tardis.apps.related_info.tests.tests.DeleteTestCase* method), 103

testCanGetInfoAsJSON () (*tardis.tardis_portal.tests.test_iiif.Level0TestCase* method), 205

testCanGetInfoAsXML () (*tardis.tardis_portal.tests.test_iiif.Level0TestCase* method), 205

testCanGetJpegFormat () (*tardis.tardis_portal.tests.test_iiif.Level1TestCase* method), 206

testCanGetOriginalImage () (*tardis.tardis_portal.tests.test_iiif.Level0TestCase* method), 205

testCanGetRequiredFormats () (*tardis.tardis_portal.tests.test_iiif.Level2TestCase* method), 206

testCantEditLockedExperiment () (*tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase* method), 202

testChangeUserPermissions () (*tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase* method), 202

testContext () (*tardis.tardis_portal.tests.test_publishservice.PublishServiceTestCase* method), 208

testDatasetFile () (*tardis.tardis_portal.tests.test_download.DownloadTestCase* method), 204

testDetectsBadInput () (*tardis.apps.related_info.tests.tests.CreateTestCase* method), 102

testDetectsBadInput () (*tardis.apps.related_info.tests.tests.UpdateTestCase* method), 103

testDownload () (*tardis.tardis_portal.tests.test_download.DownloadTestCase* method), 204

testDumpSchemas () (*tardis.tardis_portal.tests.management.test_dumpschemas.SchemaDumpSchemaTestCase* method), 196

testExistsInOaipmh () (*tardis.apps.related_info.tests.test_oaipmh.RifCSTestCase* method), 102

testGetGroupsForEntity () (*tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase* method), 203

testGetRecord () (*tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase* method), 84

testGetRecord () (*tardis.apps.oaipmh.tests.provider.test_experiment.ExperimentProviderTestCase* method), 85

testGetRecord () (*tardis.apps.oaipmh.tests.provider.test_experiment.RifCSTestCase* method), 85

testGetRecord () (*tardis.apps.oaipmh.tests.test_oai.EndpointTestCase* method), 85

testGetRecordHandlesInvalidIdentifiers () (*tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentProviderTestCase* method), 84

testGroupProvider () (*tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase* method), 203

testGroupSearch () (*tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase* method), 203

testHandleRegions () (*tardis.tardis_portal.tests.test_iiif.Level1TestCase* method), 206

testHandleRotation () (*tardis.tardis_portal.tests.test_iiif.Level1TestCase* method), 206

testHandlesEmptySet () (*tardis.apps.related_info.tests.tests.ListTestCase* method), 103

testHandlesFound () (*tardis.apps.related_info.tests.tests.GetTestCase* method), 103

testHandleSizing () (*tardis.tardis_portal.tests.test_iiif.Level1TestCase* method), 206

testHandlesMultipleEntries () (*tardis.apps.related_info.tests.tests.ListTestCase* method), 103

testHandlesNotFound () (*tardis.apps.related_info.tests.tests.GetTestCase* method), 103

testHandlesSingleEntry () (*tardis.apps.related_info.tests.tests.ListTestCase* method), 103

testIdentify () (*tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase* method), 84

testIdentify () (*tardis.apps.oaipmh.tests.test_oai.EndpointTestCase* method), 85

testImageCacheControl () (*tardis.tardis_portal.tests.test_iiif.ExtraTestCases* method), 205

testImageHasEtags () (*tardis.tardis_portal.tests.test_iiif.ExtraTestCases* method), 205

testInitialisation () (*tardis.tardis_portal.tests.test_authservice.AuthServiceTestCase* method), 85

method), 203
testInitialisation () (tardis.tardis_portal.tests.test_publishservice.PublishServiceTestCase method), 208
testInitialisationNoProvider () (tardis.tardis_portal.tests.test_publishservice.PublishServiceTestCase method), 208
testInteractive () (tardis.tardis_portal.tests.management.test_createuser.CreateUserTestCase method), 195
testList () (tardis.tardis_portal.tests.management.test_rmexperiment.RmExperimentTestCase method), 196
testListIdentifiers () (tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase method), 84
testListIdentifiers () (tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentProviderTC method), 84
testListIdentifiers () (tardis.apps.oaipmh.tests.test_oai.EndpointTestCase method), 85
testListIdentifiersDoesNotHandleSets () (tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentProviderTC method), 85
testListMetadataFormats () (tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase method), 84
testListMetadataFormats () (tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentProviderTC method), 85
testListMetadataFormats () (tardis.apps.oaipmh.tests.test_oai.EndpointTestCase method), 85
testListRecords () (tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase method), 84
testListRecords () (tardis.apps.oaipmh.tests.provider.test_experiment.DcExperimentProviderTestCase method), 85
testListRecords () (tardis.apps.oaipmh.tests.provider.test_experiment.RifCsExperimentProviderTestCase method), 85
testListRecords () (tardis.apps.oaipmh.tests.test_oai.EndpointTestCase method), 85
testListSets () (tardis.apps.oaipmh.tests.provider.test_base.BaseProviderTestCase method), 84
testListSets () (tardis.apps.oaipmh.tests.provider.test_experiment.AbstractExperimentProviderTC method), 85
testLoadSchemas () (tardis.tardis_portal.tests.management.test_loadschemas.LoadSchemasTestCase method), 196
testLocalFile () (tardis.tardis_portal.tests.test_tasks.BackendUploadTaskTestCase method), 209
testManageAuthMethods () (tardis.tardis_portal.tests.test_authentication.AuthenticationTestCase method), 202
testManageRifCsCheckContent () (tardis.tardis_portal.tests.test_publishservice.PublishServiceTestCase method), 208
testManageRifCsCreateAndRemove () (tardis.tardis_portal.tests.test_publishservice.PublishServiceTestCase method), 208
testMustHaveWrite () (tardis.tardis_portal.tests.management.test_rmexperiment.RmExperimentTestCase method), 102
testMustHaveWrite () (tardis.apps.related_info.tests.tests.DeleteTestCase method), 103
testMustHaveWrite () (tardis.apps.related_info.tests.tests.UpdateTestCase method), 103
testNoInput () (tardis.tardis_portal.tests.management.test_createuser.CreateUserTestCase method), 196
testOwnedExperiments () (tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase method), 202
testReadAccess () (tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase method), 202
testReadAccess () (tardis.tardis_portal.tests.management.test_rmexperiment.RmExperimentTestCase method), 196
testSFTPDWithoutHostKey () (tardis.apps.sftp.sftp.MyTSFTPRequestHandlerTestCase method), 112
testSimpleAuthenticate () (tardis.tardis_portal.tests.test_authentication.AuthenticationTestCase method), 202
testView () (tardis.tardis_portal.tests.test_download.DownloadTestCase method), 204
testWriteAccess () (tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase method), 202
timeout (tardis.apps.sftp.sftp.MyTSFTPRequestHandler attribute), 116
title (tardis.tardis_portal.models.experiment.Experiment attribute), 158
to_json () (tardis.apps.search.api.PrettyJSONSerializer method), 188
to_json () (tardis.tardis_portal.api.PrettyJSONSerializer method), 188
to_python () (tardis.apps.eventlog.fields.JSONField method), 78
token (tardis.tardis_portal.models.token.Token attribute), 185

- tribute), 186
- Token.DoesNotExist, 185
- Token.MultipleObjectsReturned, 185
- token_delete() (in module *tardis.tardis_portal.views.authorisation*), 211
- token_set (*tardis.tardis_portal.models.experiment.Experiment* attribute), 158
- TokenAuthMiddleware (class in *tardis.tardis_portal.auth.token_auth*), 134
- TokenGroupProvider (class in *tardis.tardis_portal.auth.token_auth*), 134
- TokenTestCase (class in *tardis.tardis_portal.tests.test_tokens*), 209
- toxmldatetime() (in module *tardis.tardis_portal.templatetags.xmldate*), 190
- track_download() (in module *tardis.analytics.ga*), 75
- track_login() (in module *tardis.analytics.ga*), 75
- track_logout() (in module *tardis.analytics.ga*), 75
- type (*tardis.tardis_portal.models.parameters.Schema* attribute), 180
- TYPE_CHOICES (*tardis.tardis_portal.models.storage.StorageBoxOptions* attribute), 185
- type_order (*tardis.tardis_portal.models.storage.StorageBoxOptions* attribute), 184
- TYPE_UNKNOWN (*tardis.tardis_portal.models.storage.StorageBoxOptions* attribute), 181
- TYPES (*tardis.tardis_portal.models.storage.StorageBoxOptions* attribute), 180
- ## U
- UncachedTarStream (class in *tardis.tardis_portal.download*), 233
- units (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 177
- unpickled_value (*tardis.tardis_portal.models.storage.StorageBoxOptions* attribute), 185
- update_all_files() (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- update_dataset_files() (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- update_datasets() (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- update_detail() (*tardis.tardis_portal.api.ACLAuthorization* method), 223
- update_experiments() (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- update_list() (*tardis.tardis_portal.api.ACLAuthorization* method), 223
- update_mimetype() (*tardis.tardis_portal.models.datafile.DataFile* method), 148
- update_nothing() (*tardis.apps.sftp.sftp.DynamicTree* method), 116
- update_time (*tardis.tardis_portal.models.experiment.Experiment* attribute), 158
- UpdateTestCase (class in *tardis.apps.related_info.tests.tests*), 103
- upload_auth() (in module *tardis.tardis_portal.auth.decorators*), 132
- upload_complete() (in module *tardis.tardis_portal.views.upload*), 216
- UPLOAD_METHOD (in module *tardis.default_settings.uploads*), 127
- UploadTestCase (class in *tardis.tardis_portal.tests.views.test_upload_views*), 200
- uri (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 150
- url (*tardis.tardis_portal.models.experiment.Experiment* attribute), 158
- url (*tardis.tardis_portal.models.experiment.ExperimentAuthor* attribute), 159
- url (*tardis.tardis_portal.models.license.License* attribute), 163
- URL (*tardis.tardis_portal.models.parameters.ParameterName* attribute), 175
- urls (*tardis.tardis_portal.tests.test_authorisation.ObjectACLTestCase* attribute), 202
- urls (*tardis.tardis_portal.tests.test_tokens.TokenTestCase* attribute), 210
- USE_FILTERS (in module *tardis.default_settings.filters*), 125
- use_rapid_connect() (in module *tardis.tardis_portal.views.pages*), 215
- user (*tardis.apps.eventlog.models.Log* attribute), 80
- user (*tardis.apps.push_to.models.Credential* attribute), 95
- user (*tardis.apps.sftp.models.SFTPPublicKey* attribute), 115
- user (*tardis.tardis_portal.models.access_control.GroupAdmin* attribute), 141
- user (*tardis.tardis_portal.models.access_control.UserProfile* attribute), 144
- user (*tardis.tardis_portal.models.token.Token* attribute), 186
- user_acls() (*tardis.tardis_portal.managers.ExperimentManager* method), 242
- user_details_processor() (in module *tardis.tardis_portal.context_processors*), 232

user_guide() (in module *tardis.tardis_portal.views.pages*), 215
 user_id (*tardis.apps.eventlog.models.Log* attribute), 80
 user_id (*tardis.apps.push_to.models.Credential* attribute), 95
 user_id (*tardis.apps.sftp.models.SFTPPublicKey* attribute), 115
 user_id (*tardis.tardis_portal.models.access_control.GroupAdmin* attribute), 141
 user_id (*tardis.tardis_portal.models.access_control.UserProfile* attribute), 145
 user_id (*tardis.tardis_portal.models.token.Token* attribute), 186
 USER_MENU_MODIFIERS (in module *tardis.default_settings.apps*), 123
 user_menu_processor() (in module *tardis.tardis_portal.context_processors*), 232
 user_migration (*tardis.apps.openid_migration.models.OpenidACLMigration* attribute), 90
 user_migration_id (*tardis.apps.openid_migration.models.OpenidACLMigration* attribute), 91
 user_migration_obj() (*tardis.apps.openid_migration.models.OpenidACLMigrationAdmin* method), 91
 user_owned_groups() (*tardis.tardis_portal.managers.ExperimentManager* method), 242
 UserAuthentication (class in *tardis.tardis_portal.models.access_control*), 143
 UserAuthentication.DoesNotExist, 143
 UserAuthentication.MultipleObjectsReturned, 143
 userauthentication_set (*tardis.tardis_portal.models.access_control.UserProfile* attribute), 145
 UserAuthenticationAdmin (class in *tardis.tardis_portal.admin*), 222
 UserGroupListsTestCase (class in *tardis.tardis_portal.tests.views.test_auth_views*), 198
 UserInterfaceTestCase (class in *tardis.tardis_portal.tests.tests*), 210
 UserListTestCase (class in *tardis.tardis_portal.tests.views.test_auth_views*), 199
 username (*tardis.tardis_portal.models.access_control.UserAuthentication* attribute), 144
 UserProfile (class in *tardis.tardis_portal.models.access_control*), 144
 userProfile (*tardis.tardis_portal.models.access_control.UserAuthentication* attribute), 144
 UserProfile.DoesNotExist, 144
 UserProfile.MultipleObjectsReturned, 144
 userProfile_id (*tardis.tardis_portal.models.access_control.UserAuthentication* attribute), 144
 UserProvider (class in *tardis.tardis_portal.auth.interfaces*), 132
 UserResource (class in *tardis.tardis_portal.api*), 231
 UserResource.Meta (class in *tardis.tardis_portal.api*), 231
 UserResourceTest (class in *tardis.tardis_portal.tests.api.test_user_resource*), 194
 users() (*tardis.tardis_portal.managers.ExperimentManager* method), 242

V

validate_remote_path() (in module *tardis.apps.push_to.views*), 102
 validation (*tardis.apps.sftp.api.SFTPPublicKeyAppResource.Meta* attribute), 113
 value (*tardis.tardis_portal.models.storage.StorageBoxAttribute* attribute), 184
 value (*tardis.tardis_portal.models.storage.StorageBoxOption* attribute), 185
 value_from_datadict() (*tardis.tardis_portal.widgets.CommaSeparatedInput* method), 245
 value_to_string() (*tardis.apps.eventlog.fields.JSONField* method), 78
 value_type (*tardis.tardis_portal.models.storage.StorageBoxOption* attribute), 185
 verbose_name (*tardis.analytics.apps.AnalyticsConfig* attribute), 75
 verbose_name (*tardis.apps.openid_migration.apps.OpenidMigrationConfig* attribute), 89
 verbose_name (*tardis.apps.push_to.apps.PushToConfig* attribute), 94
 verbose_name (*tardis.apps.search.apps.SearchConfig* attribute), 109
 verbose_name (*tardis.apps.sftp.apps.SFTPConfig* attribute), 113
 verbose_name (*tardis.apps.social_auth.apps.SocialAuthConfig* attribute), 122
 verified (*tardis.tardis_portal.models.datafile.DataFile* attribute), 148
 verified (*tardis.tardis_portal.models.datafile.DataFileObject* attribute), 150
 verify() (*tardis.tardis_portal.models.datafile.DataFile* method), 148
 verify() (*tardis.tardis_portal.models.datafile.DataFileObject* method), 150

verify_file() (*tardis.tardis_portal.api.DataFileResource* method), 224
verify_remote_access() (*tardis.apps.push_to.models.Credential* method), 95
version (*tardis.tardis_portal.models.datafile.DataFile* attribute), 148
view_datafile() (in module *tardis.tardis_portal.download*), 234
view_functions (*tardis.tardis_portal.shortcuts.RestfulExperimentProvider* attribute), 243
ViewTemplateContextsTest (class in *tardis.tardis_portal.tests.views.test_template_contexts*), 200
W
wait() (*tardis.tardis_portal.tests.slapd.Slapd* method), 202
which() (in module *tardis.tardis_portal.tests.slapd*), 202
widget (*tardis.tardis_portal.forms.StaticField* attribute), 239
widgets (*tardis.apps.push_to.models.CredentialForm.Meta* attribute), 96
widgets (*tardis.tardis_portal.admin.DatafileAdminForm.Meta* attribute), 218
widgets (*tardis.tardis_portal.admin.DataFileObjectInlineForm.Meta* attribute), 218
widgets (*tardis.tardis_portal.admin.StorageBoxAttributeInlineForm.Meta* attribute), 221
widgets (*tardis.tardis_portal.admin.StorageBoxForm.Meta* attribute), 221
widgets (*tardis.tardis_portal.admin.StorageBoxOptionInlineForm.Meta* attribute), 222
widgets (*tardis.tardis_portal.forms.RightsForm.Meta* attribute), 239
write() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider.ExperimentWriter* method), 83
write_permissions_required() (in module *tardis.tardis_portal.auth.decorators*), 132
write_template_to_dir() (*tardis.tardis_portal.xmlwriter.XMLWriter* static method), 245
write_template_to_file() (*tardis.tardis_portal.xmlwriter.XMLWriter* static method), 245
write_xml_to_file() (*tardis.tardis_portal.xmlwriter.XMLWriter* static method), 246
writeExperimentMetadata() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* static method), 83
writeMetadata() (*tardis.apps.oaipmh.provider.base.BaseProvider* method), 82, 253
writeMetadata() (*tardis.apps.oaipmh.server.ProxyingMetadataRegistry* method), 86
writeRegistryObjectsWrapper() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* method), 83
writeRelatedAuthor() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* method), 83
writeRelatedInfo() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* method), 83
writeRelatedUser() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* method), 83
writeSubject() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* method), 83
writeUserMetadata() (*tardis.apps.oaipmh.provider.experiment.RifCsExperimentProvider* static method), 84
X
XMLWriter (class in *tardis.tardis_portal.xmlwriter*), 245