
Idcoolp-figshare

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OVERVIEW

`ldcoolp-figshare` is a command-line API used in `LD-Cool-P` to interact with the `Figshare API`. It is used by `ReDATA` data curators for the curation of submitted research data products. This codebase is generalized such that other curators with a `Figshare for Institution` instance can use.

1.1 Getting Started

You will need Python. We recommend v3.9. This code will be tested with v3.7, v3.8, and v3.9.

This code is published as `ldcoolp-figshare` on `PyPI`. Thus, the simplest installation is:

```
pip install ldcoolp-figshare
```

1.1.1 Requirements

All requirements will be given in the `requirements.txt`

1.2 Use Examples

The primary class/object that is used for all interactions with the `Figshare API` is `FigshareInstituteAdmin`. Below are for how to use this API:

```
from ldcoolp_figshare import FigshareInstituteAdmin

token = """ENTER YOUR API KEY """
stage = False # Set to False (True) for production (stage) instance

fs_admin = FigshareInstituteAdmin(token=token, stage=stage)
```

There are several methods available with `FigshareInstituteAdmin`. We refer users to the full API documentation for more details. Below we provide some examples to get users started.

1.2.1 Get a list of accounts

To retrieve a list of accounts for an institution:

```
fs_admin.get_account_list()
```

Note that this provides you with the `account_id` of a user

1.2.2 Obtain curation records

To retrieve a full list of curation records (of any state) for an institution:

```
curation_df = fs_admin.get_curation_list()
```

If you wish to retrieve all curation records for a specific item/deposit, then provide the `article_id`:

```
article_id = 12345678
article_curation_df = fs_admin.get_curation_list(article_id)
```

To obtain more information about a specific curation record:

```
curation_id = 1234567
details_dict = fs_admin.get_curation_details(curation_id)
```

1.2.3 DOI status and reservation

To check if a DOI is reserved for an item/deposit:

```
article_id = 12345678
check, DOI_string = fs_admin.doi_check(article_id)
```

Here, `check` will either be `False` (no DOI) or `True`.

Alternatively, you can reserve a DOI if it hasn't been done so. This will provide an prompt before performing the task.

Note: This step is irreversible!

```
article_id = 12345678
check, DOI_string = fs_admin.reserve_doi(article_id)
```

1.2.4 Retrieve list of institution groups

```
group_df = fs_admin.get_groups()
```

1.2.5 Retrieve list of articles for a user

```
account_id = 98765432
article_df = fs_admin.get_user_articles(account_id)
```

1.3 Continuous Integration

Under construction.

1.4 Versioning

We use [SemVer](#) for versioning. For the versions available, see the [tags](#).

Releases will be auto-generated using this [GitHub Actions script](#) following a `git tag vX.Y.Z`.

1.5 Authors

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See also the list of [contributors](#) who participated in this project.

1.6 License

This project is licensed under the [MIT License](#) - see the [LICENSE](#) file for details.

1.7 API Documentation

1.7.1 Idcoolp-figshare package

The FigshareInstituteAdmin Class

```
class FigshareInstituteAdmin(token, stage=False, admin_filter=None, log=<Logger stdout_logger (INFO)>)
```

Bases: object

A Python interface for administration and data curation with institutional Figshare instances

Most methods take an `article_id` or `curation_id` input

Parameters

- **token** (str) – Figshare OAuth2 authentication token
- **stage** (bool) – Flag to either use Figshare stage or production API. Default: production
- **admin_filter** (Optional[list]) – List of filters to remove admin accounts from user list
- **log** (Logger) – Logger object for stdout and file logging. Default: stdout

Variables

- **token** – Figshare OAuth2 authentication token
- **stage** – Flag to either use Figshare stage or prod API
- **baseurl** – Base URL of Figshare API
- **baseurl_institute** – Base URL of Figshare API for institutions
- **headers** – HTTP header information
- **admin_filter** – List of filters to remove admin accounts from user list
- **ignore_admin** – Flags whether to remove admin accounts from user list

doi_check(*article_id*, *process=True*)

Check if DOI is present/reserved for *article_id*.

Uses: https://docs.figshare.com/#private_article_details

Parameters

- **article_id** (int) – Figshare article ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[Tuple[bool, str], Response]

Returns Flag to indicate whether DOI is reserved and DOI (empty string if not). Returns the full requests.Response if `process=False`

endpoint(*link*, *institute=True*)

Concatenate the endpoint to the baseurl for requests

Parameters

- **link** (str) – API endpoint to append to baseurl
- **institute** (bool) – Flag to use regular of institute baseurl

Return type str

Returns URL for HTTPS API

get_account_details(*flag=True*)

Retrieve account details. This includes group association, number of articles, projects, and collections, and administrative and reviewer role flags

Parameters **flag** (bool) – Populate administrative and reviewer roles to database

Return type DataFrame

Returns Relational database of details of all accounts for an institution

get_account_group_roles(*account_id*, *process=True*)

Retrieve group roles for a given account, *account_id*.

See: https://docs.figshare.com/#private_institution_account_group_roles

Parameters

- **account_id** (int) – Figshare account ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[dict, Response]

Returns Python dictionary of all group roles for a user or the full requests.Response

get_account_list(*process=True*)

Return pandas DataFrame of user accounts.

See: https://docs.figshare.com/#private_institution_accounts_list

Parameters **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all user accounts for an institution or the full requests. Response

get_articles(*process=True*)

Retrieve information about all articles within institutional instance

See: https://docs.figshare.com/#private_institution_articles

Parameters **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all articles for an institution or the full requests. Response

get_curation_comments(*curation_id, process=True*)

Retrieve comments about specified curation, `curation_id`.

See: https://docs.figshare.com/#account_institution_curation_comments

Parameters

- **curation_id** (int) – Figshare curation ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[dict, Response]

Returns Python dictionary with curation comments or the full requests. Response

get_curation_details(*curation_id, process=True*)

Retrieve details about a specified curation, `curation_id`.

See: https://docs.figshare.com/#account_institution_curation

Parameters

- **curation_id** (int) – Figshare curation ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[dict, Response]

Returns Python dictionary with curation metadata or the full requests. Response

get_curation_list(*article_id=None, status="", process=True*)

Retrieve list of curation records for `article_id`. If not specified, all curation records are retrieved.

See: https://docs.figshare.com/#account_institution_curations

Parameters

- **article_id** (Optional[int]) – Figshare article ID
- **status** (Optional[str]) – Filter by status of review. Options are: ['', 'pending', 'approved', 'rejected', 'closed']

- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all curation records or the full requests. Response

get_groups(*process=True*)

Retrieve information about groups within institutional instance.

See: https://docs.figshare.com/#private_institution_groups_list

- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all Figshare groups for an institution or the full requests. Response

get_user_articles(*account_id, process=True*)

Impersonate a user, `account_id`, to retrieve articles associated with the user.

See: https://docs.figshare.com/#private_articles_list

Parameters

- **account_id** (int) – Figshare account ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all articles owned by user or the full requests. Response

get_user_collections(*account_id, process=True*)

Impersonate a user, `account_id`, to retrieve collections associated with the user.

See: https://docs.figshare.com/#private_collections_list

Parameters

- **account_id** (int) – Figshare account ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all collections owned by user or the full requests. Response

get_user_projects(*account_id, process=True*)

Impersonate a user, `account_id`, to retrieve projects associated with the user.

See: https://docs.figshare.com/#private_projects_list

Parameters

- **account_id** (int) – Figshare account ID
- **process** (bool) – Returns JSON content from `redata_request`, otherwise the full request is provided. Default: True

Return type Union[DataFrame, Response]

Returns Relational database of all projects owned by user or the full requests. Response

reserve_doi(*article_id*)

Reserve DOI if one has not been reserved for `article_id`.

See: https://docs.figshare.com/#private_article_reserve_doi

Parameters `article_id` (int) – Figshare article ID

Return type str

Returns DOI string

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