**Prerequisites**

1. Python: Ensure you have Python 3.6 or higher installed. You can download it from python.org.
2. Git: Make sure Git is installed on your system. You can download it from git-scm.com.

**Installation and Configuration Steps**

1. Clone the Repository Open your terminal and clone the repository using Git:

* git clone https://github.com/RockefellerArchiveCenter/fluxx\_exporter.git

1. Navigate into the cloned directory:

* cd fluxx\_exporter

1. (Optional) Create a Virtual Environment

It’s a good practice to create a virtual environment to manage dependencies. Run the following commands:

* python -m venv venv
* source venv/bin/activate
  + On Windows, use `venv\Scripts\activate`

1. Install Dependencies Install the required Python packages using pip:

* pip install -r requirements.txt

1. Configuration

* Using your favorite browser, configure exportScript.py (Fluxx class) with your
  + Api\_url
  + Client\_id
  + Client\_secret
    - Or configure script to use environment variables, a YAML, or similar

1. Apply Migrations

* Apply the database migrations to set up the database schema:
  + python manage.py migrate

1. Create a Superuser

* Create a superuser to access the Django admin interface:
  + python manage.py createsuperuser

1. Run the Development

* Server Start the Django development server:
  + python manage.py runserver
* Open your web browser and navigate to http://127.0.0.1:8000/ to access the application.

1. Configure the environment

* Navigate to <http://127.0.0.1:8000/admin>
* Login with the created superuser
* Here, you can configure your Fluxx instance, SFTP instance, and Amazon S3 instance
* You can also add your Fluxx entities, as well as associate Columns to their respected entities
  + Any changes to Entities or Columns will show up immediately upon refreshing of the Fluxx Exporter Tool
  + To configure related entities, while setting up entities via the Administration Console, there will be an option to relate the current entity to previous ones. **Please note:** the entity in which you will be relating the current entity to must already be initialized.
  + As it is currently developed, related entities will not appear on the UI, so be aware during configuration that any columns/fields that you enter in the configuration page will be fed into the API via the relation parameter.
  + There is currently no way, as per the Fluxx API, to validate entered entities or fields. The proper name for these can be obtained from either the API documentation (to be included in the Documentation folder) or via exporting an entity and checking the CSV output header.

**Filters**

Filters via the Fluxx Labs API are interesting. Much of this documentation will be taken directly from the documentation provided from Fluxx Labs themselves. In-fact, the documentation will be linked directly here: 

Filters in general are not very dynamics and can vary from entity to entity. It is best to consult your environment’s api pages to see which filters will work per entity. The api documentation can be found at: http://{tenant}.fluxx.io/api/rest/v2/doc

Here are a few filter examples:

* "grant\_id eq R-2024-00003"
* "project\_title eq Test Project"
* "created\_at last-n-months 5"
* "created\_at this-year -"

**Please note:** the last filter 'created\_at this-year -', the last input of the hyphen is not a typo. This is how the Fluxx API handles less than 3 raw inputs into the filter.