Imaging System App

How to install

Download the project and Python

Download the source code as a zip file and unzip it, by default it should be csp5-main-master.zip. You should now have a folder called imaging_system_app_project inside the unzipped folder, this is the project folder.

Install Python.

- https://www.python.org/downloads/release/python-3910/

When running the Python installer, remember to check the boxes next to "Install launcher for all users (recommended)".

For any errors with Python, check out the official documentation to set up Python on Windows.

- https://docs.python.org/3/using/windows.html

Adding your website as an allowed host

Open allowed_hosts.txt in the project folder and type in your hosting website on a new line.

- E.g. https://www.imagingsystemapp.gla.ac.uk

Changing the secret key

For security purposes, change the secret key in secret_key.txt in the project folder.

The secret key should preferably be at least 50 characters.

Create a virtual environment

Open command prompt and type the following command, replacing project_name with your desired name:

- `py -m venv project-name`

Activate the virtual environment

Type the following command in the command prompt, replacing project_name with your desired name:

- `project-name\Scripts\activate.bat`

Note that this command has to be run every time you start a new command prompt.

Navigate to the project directory

Navigate to the project directory in the command prompt.

For example if the csp5-main-master folder is in the Desktop:

- `cd Desktop`
- `cd csp5-main-master`
- `cd imaging_system_app_project`

Note that the instructions below require you to be in the project directory in the command prompt.

Install required packages

Type the following command in the command prompt:

- `py -m pip install -r requirements.txt`

Set up the database of the project

Type the following commands in the command prompt:

- `py manage.py makemigrations imaging_system_app`
- `py manage.py migrate`

Set up static files of the project

Type the following command in the command prompt:

- `py manage.py collectstatic`

Answer yes when prompted.

Create an admin account

Type the following command in the command prompt:

- `py manage.py createsuperuser`

Enter your desired username and password, email can be omitted by pressing Enter when prompted.

Load in sample data

Type the following command in the command prompt:

- `py population_script.py`

Testing the project for any issues

Type the following command in the command prompt:

- `py manage.py test`

It should take a moment to run and the final output in the command prompt should be:

```
OK

Destroying test database for alias 'default'...
```

Running the project on a local server

Type the following command in the command prompt:

- `py manage.py runserver`

The project can now be accessed by going to http://127.0.0.1:8000/

The admin page can now be accessed by going to http://127.0.0.1:8000/admin

To stop the local server, type Ctrl+C in the command prompt.

Prepare the app for deployment

- Open imaging_system_app_project/settings.py
- Change `Debug = True` to `Debug = False`.
- Advanced deployment settings are below the debug setting.
  - These settings relate to forcing a secure https connection. For more information, refer to the official Django documentation on deployment.
    - https://docs.djangoproject.com/en/3.2/ref/settings/

The project should now be ready to be hosted on your website.