Installation Instructions

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# Web-based Social Networking Platform Installation Instructions:

To run the program on the local host server:

1. Clone the repository from git or unzip the folder ‘SEG-major-project'
2. To view the project on the local host you will need to create a .env file. To do this open a new file and copy the text below into the file, naming it **.env:**

*# S3 upload settings*

*DEFAULT\_FILE\_STORAGE = storages.backends.s3boto3.S3Boto3Storage*

*AWS\_S3\_ACCESS\_KEY\_ID = AKIA4AMLNUUEYG65NFC7*

*AWS\_S3\_SECRET\_ACCESS\_KEY = 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*

*AWS\_STORAGE\_BUCKET\_NAME = bookclubimages*

*os.environ.setdefault('S3\_USE\_SIGV4', 'True')*

1. From within the ‘SEG-major-project' you will need to run the following commands:
   1. **virtualenv venv**
   2. **source venv/bin/activate**
   3. **pip3 install –r requirements.txt**
   4. **python3 manage.py migrate**
   5. **python3 manage.py seed**
   6. **python3 manage.py runserver**
2. You will now need to open your browser and visit the following site: <http://localhost:8000/> and you should now be able to see the book club landing page.

**Recommended Browsers:** Firefox & Chrome

**Avoid:** Safari

**[Please have JavaScript enabled]**

1. To create a super user, you can enter the following commands:
   1. A super user is used to view and manage the site, if the admin would like to use the site as a book club member, they would need to make their own ‘normal’ account.
   2. **python3 manage.py createsuperuser**
   3. Enter a username, email and password when prompted

# Recommender System Evaluator Installation and Result Replication Instructions:

## Content Based Recommender System:

**NOTE:** The evaluator will use a much smaller test set consisting of 31,000 ratings and 500 books which can be found in the csv files named ‘BX\_Book\_test\_set.csv’ and ‘BX-Book-Ratings\_test\_set.csv’.

To Replicate the results found in the Recommender Systems report you will need to run the ‘content\_based\_evaluator.py’ file from within the ‘content\_based\_recommend’ folder.

1. Before doing this, you will need to enter the following commands from within the SEG-major-project' folder. (This assumes that you have a fresh folder which you have not run any commands on. If you have already run the following commands, skip to step 2).
   1. **virtualenv venv**
   2. **source venv/bin/activate**
   3. **pip3 install –r requirements.txt**
   4. **python3 manage.py migrate**
   5. **python3 manage.py seed**
2. You can now enter the following commands to run the evaluator
   1. **cd clubs/content\_based\_recommender/**
   2. **python3 content\_based\_evaluator.py**



1. To evaluate the performance of the combined property, the summary and the algorithm using both you will need to comment out the following lines in the content\_based\_KNN file and run the ‘content\_based\_evaluator.py’ file each time. **python3 content\_based\_evaluator.py**

* To evaluate the algorithm using the combined property:
* To evaluate the algorithm using the Summary:
* To evaluate the algorithm using both the previously mentioned properties:

## Neighborhood Based Recommender System:

**NOTE:** The evaluator will use a much smaller dataset consisting of 30,000 ratings which can be found in the csv files named ‘BX-Book-Ratings\_formatted\_evaluation.csv’ and ‘BX\_Books\_formatted\_evaluation.csv’.

To Replicate the results found in the Recommender Systems report you will need to run the ‘N\_based\_KNN\_bakeoff.py’ file from within the ‘N\_based\_RecSys\_evaluation’ folder.

(In the Recommender Systems report, we are using 40,000 ratings, however it would give “Killed: 9” error sometimes. In order to show the stable output and results, we are using 30,000 instead, so the result will have a slight difference.)

1. Before doing this, you will need to enter the following commands from within the SEG-major-project' folder. (This assumes that you have a fresh folder which you have not run any commands on. If you have already run the following commands, skip to step 2).
   1. **virtualenv venv**
   2. **source venv/bin/activate**
   3. **pip3 install –r requirements.txt**
   4. **python3 manage.py migrate**
   5. **python3 manage.py seed**
2. You can now enter the following commands to run the evaluator (It might take more than 10 minutes to get the results. As we are using a smaller book dataset, if the evaluator cannot find the title of book, it will print the isbn instead.)
   1. **cd clubs/N\_based\_RecSys\_evaluation**
   2. **python3 N\_based\_KNN\_bakeoff.py**

