

Overview

Your task is to create a Web application using Django 3.x/4.x, Postgres and Bootstrap 4/5. The application will allow users to login and upload a large volume data csv (1GB) with a visual progress of the upload.

Once the file is uploaded, you must update the database with the contents of the file. Next, you must allow the user to filter the data using a form. Once the user submits the form, display the count of records based on the applied filters

Expected Approach

1. Create a new project using Django called catalyst-count
2. Set up the project with a Postgres database
3. Configure repo on Bitbucket or GitHub and maintain project on the repo using git
4. Configure and secure the environment variables using django-envIRON
5. Configure the authentication via django-all-auth
6. Download the test data set from <https://www.dropbox.com/s/at6f63rdznw4bqs/free-7-million-company-dataset.zip?dl=0>
7. Create UI using Bootstrap 4
8. Understand & program the features for the pages as requested below
9. Commit the code using git
10. Unit test on server
11. Submit project and repo for review, Readme file must be updated on repository.

Expected Pages

Expected Final Pages on the Application

1. Login
2. Upload Data
3. Query Builder
4. Users

Sample UIs

The following are the approximate reference UIs for the task.

Application Login

Login to Continue

Username

*

 Password

int

Login

Upload Data

Tip: Use chunk upload method of Django File Upload.

Upload Data

Query Builder

Users

Logout

Upload Data

Select File

Browse

Start Upload

Upload Progress

Query Builder

Result count should be returned by an API made using Django Rest Framework

✓ 342 records found for the query

✕

Query Builder

Keyword

Industry

Year Founded

City

State

Country

Employees (From)

Employees (To)

Query Date

Reset

Users

✓ New user added

✕

Users

Add User

John Doe	johndoe@gmail.com	Active	✕
Jane Doe	janedoe@gmail.com	Active	✕
Johnny Doe	Johnny.doe@gmail.com	Active	✕