Project 1

As a user, I want to have a file uploader service. The service should support,

1. Upload a CSV file.
2. Save the content of the file inside a database table.
3. Support searches on the text of the file.

The constrains around the service are:

1. **Upload file:**
   1. CSV file will contain 3 columns, *sku_code*, *product_name*, *product_description*.
   2. In case of any other file format, system should throw an error.
   3. In case of extra columns in the csv, system should throw an error.
   4. Max File size will be 100 KB.
   5. File Content can be UTF-8
   6. Upload system should extract the rows and save them in the database. For this project purpose, use the sqlite database or any document storage which requires minimal setup.
   7. *sku_code* will be unique. Product Name and Description can be same for different skus. Your code should handle this scenario.
   8. Successful upload should give a success message. Error should give error message.

2. **Full text search**
   1. The API/UI should accept search key.
   2. A search should be performed against all the columns in database.
   3. All rows which contain the text should be returned as response.

You can use any technology to implement the solution to above business use case. We prefer Django or Flask or Golang.

You can expose the APIs to handle the scenarios or you can create a basic UI with fields to perform the operation. Chose whichever thing you are comfortable with.

You will have to create a GitHub profile and upload your solution there. Create a readme file for us to understand the solution. It should also contain step around how to test the solution.

We will run your code inside our environment, so please make sure your readme has all the steps for running the system.

Share the public link to the GitHub profile.

You will be judged on:

1. Understanding the problem statement and developing solution as per spec.
2. Code quality
3. Content of Readme file
4. Validations and edge case handling.