Sprint-4-USER AUTHENTICATION

Code:

Database.py

import os

import database as db

from deta import Deta # pip install deta

from dotenv import load_dotenv # pip install python-dotenv

Load the environment variables

load_dotenv(".env")

DETA_KEY = os.getenv("DETA_KEY")

Initialize with a project key

deta = Deta(DETA_KEY)

This is how to create/connect a database

db = deta.Base("crop")

def insert_user(username, name, password):

 """Returns the user on a successful user creation, otherwise raises and error"""

 return db.put({"key": username, "name": name, "password": password})

insert_user("pparker","Peter Parker", "abc123")

def fetch_all_users():

 """Returns a dict of all users"""

 res = db.fetch()

 return res.items

upload.py

import streamlit_authenticator as stauth

```
import database as db

usernames = ["pparker", "rmiller"]

names = ["Peter Parker", "Rebecca Miller"]

passwords = ["abc123", "def456"]

hashed_passwords = stauth.Hasher(passwords).generate()

for (username, name, hash_password) in zip(usernames, names,
hashed_passwords):

    db.insert_user(username, name, hash_password)
```

generate_keys.py

```
import pickle

from pathlib import Path

import streamlit_authenticator as stauth

names = ["Peter Parker", "Rebecca Miller"]

usernames = ["pparker", "rmiller"]

passwords = ["abc123", "def456"]

hashed_passwords = stauth.Hasher(passwords).generate()

file_path = Path(__file__).parent / "hashed_pw.pkl"

with file_path.open("wb") as file:

    pickle.dump(hashed_passwords, file)
```
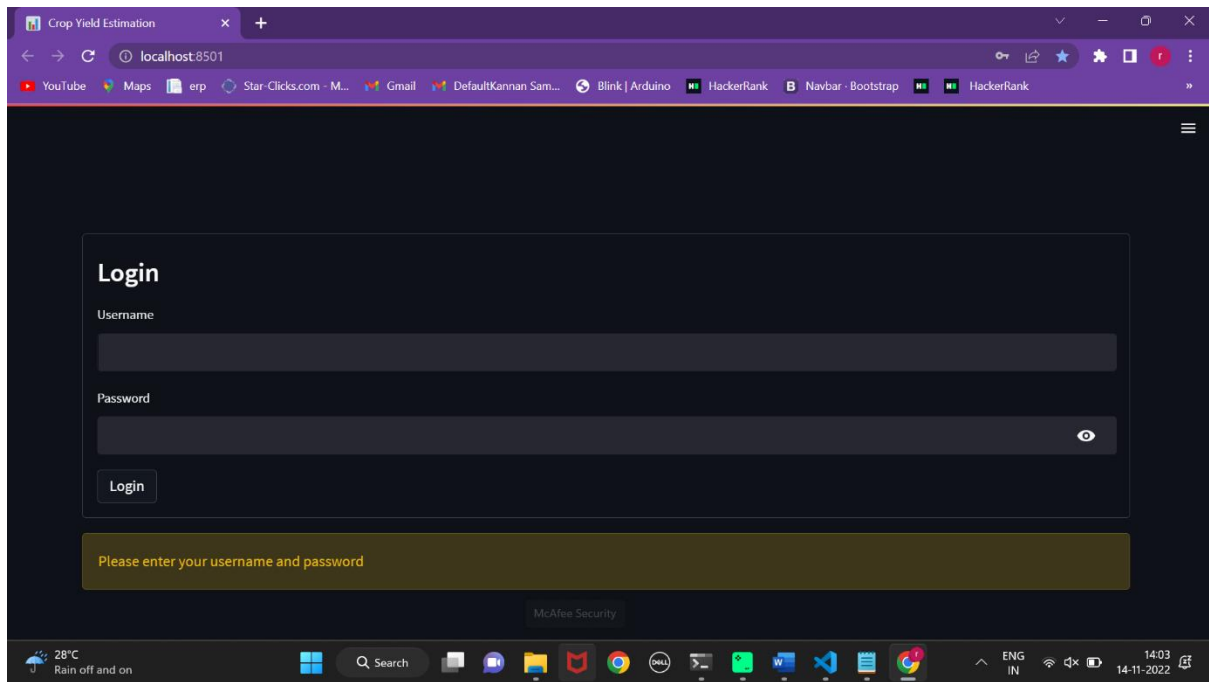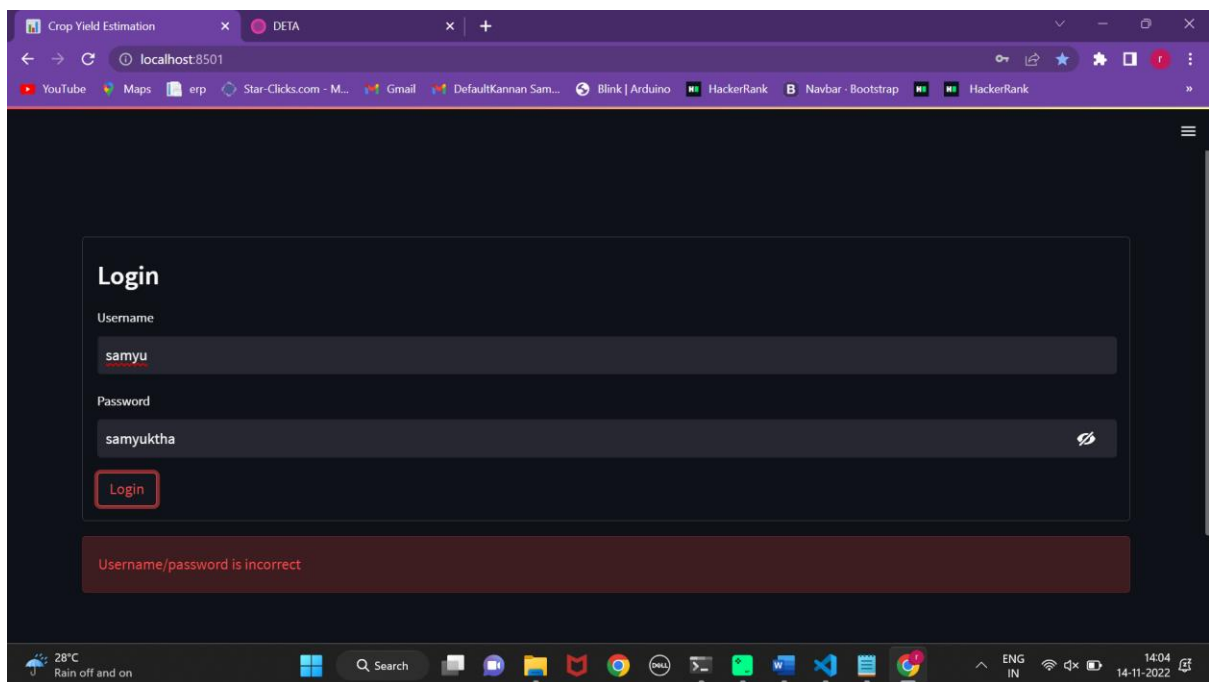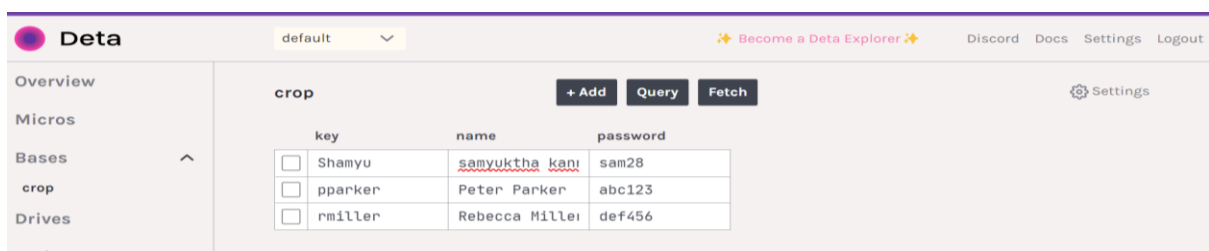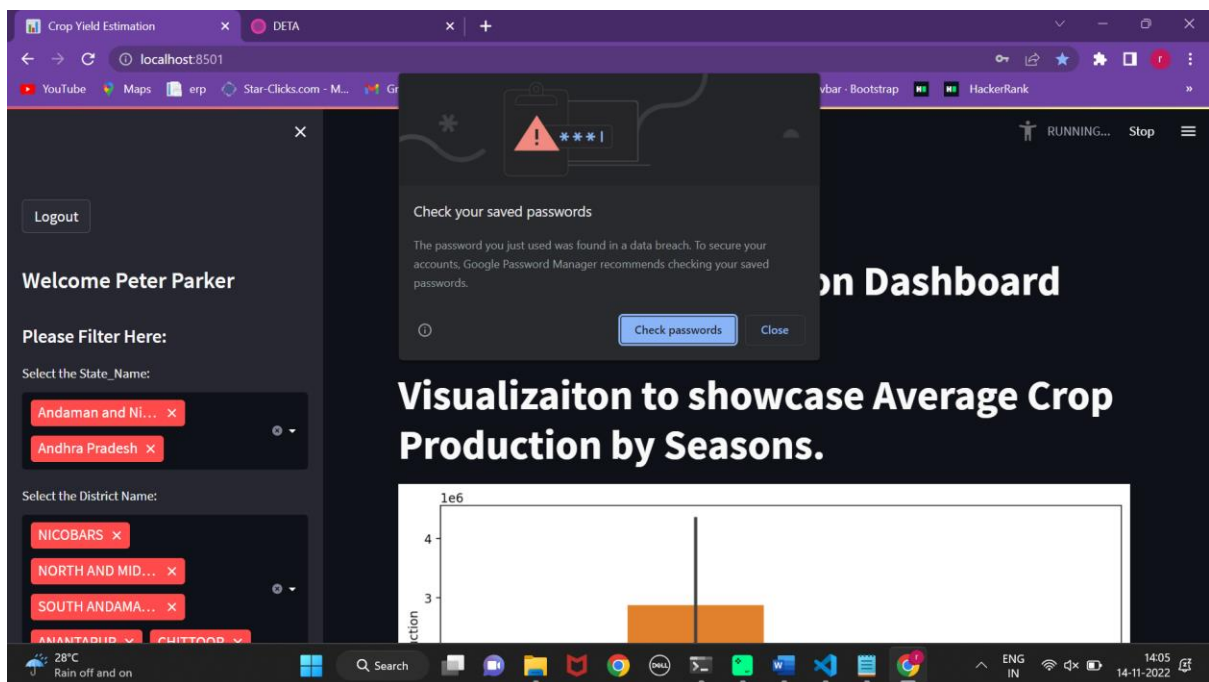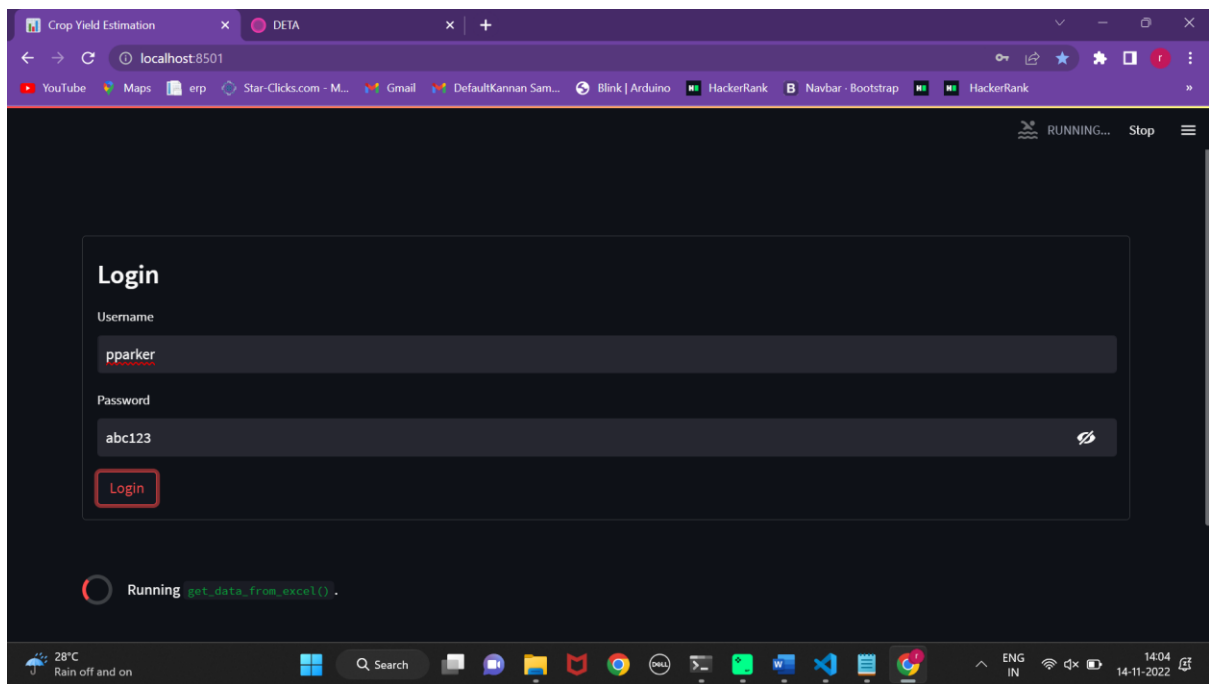
Step1-Enter Login Page

Step2-Enter Details(Wrong User)

Step3-Enter User Credentials stored in Deta DB

Step4-LOGOUT

Login

Username

Password

Login

Please enter your username and password