ASSIGNMENT – 1

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AIM

1. Create registration page in html with username, email and phone number and by using POST method display it in next html page.
2. Develop a flask program which should contain at least 5 packages used from pypi.org

DIRECTORY STRUCTURE

➢ static
  • graphs
  • styles
    ✓ response.css
➢ templates
  • form.html
  • response.html
  • graph.html
➢ app.py

CODE

1. **HTML FILES**

    a) **form.html**

```html
<!DOCTYPE html>

<html>

<body>

    <h1>REGISTRATION FORM</h1>

    <form action="/" method="POST">
        <label>USERNAME</label>
        <br>
        <input type="text" name="username" required>
        <br><br>

        <label>EMAIL</label>
        <br>
```

```html
        <input type="email" name="email" required>
        <br><br>

        <label>MOBILE NUMBER</label>
        <br>
        <input type="number" name="mobile_no" required>
        <br><br>

        <button type="submit">SUBMIT</button>
    </form>

</body>

</html>
```

b)   response.html

```html
<!DOCTYPE html>

<html>

<link rel="stylesheet" href="{{url_for('static', filename='styles/response.css')}}">

<body>

    <h1>RESPONSE COPY</h1>

    <table>
        <tr>
            <th>USERNAME</th>
            <td>{{username}}</td>
        </tr>

        <tr>
            <th>EMAIL</th>
            <td>{{email}}</td>
        </tr>

        <tr>
            <th>MOBILE NUMBER</th>
            <td>{{mobile_no}}</td>
        </tr>
    </table>

</body>

</html>
```

c) graph.html

```html
<!DOCTYPE html>

<html>

<body>

    <h2>GRAPH DATA</h2>

    <p>USER COUNT - {{user_count}}</p>

    <img src="{{ url_for('static', filename = filename) }}"/>

</body>

</html>
```

2. CSS FILES

a) response.css

```css
table {
    border: 1px solid black;
    text-align: center;
}


th, td {
    border: 1px solid black;
    text-align: center;
}
```

3. app.py

```python
from flask import Flask
from flask import render_template
from flask import request

import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np
```

```python
import matplotlib
matplotlib.use('Agg')


app = Flask(__name__)


user_count = 0


@app.route("/",methods=["GET","POST"])
def Form():
    if(request.method=="GET"):
        return render_template("form.html")
    elif(request.method=="POST"):
        username=request.form["username"]
        email=request.form["email"]
        mobile_no=request.form["mobile_no"]


        return
render_template("response.html",username=username,email=email,mobile_no=mobile_no)


@app.route("/graph",methods=["GET","POST"])
def Graph():
    global user_count

    if(request.method=="GET"):

        user_count = user_count+1

        print(user_count)

        df = sns.load_dataset('flights')

        data = dict()

        for i in range(0,len(df)):
            temp = df.loc[i]

            if(temp.year not in data):
                data[temp.year] = 0

            data[temp.year] = data[temp.year] + temp.passengers

        year = np.array(list(data.keys()))
        passengers = np.array(list(data.values()))
```

```
        plt.clf()

        plt.bar(year, passengers, color ='green')
        plt.xlabel('Year')
        plt.ylabel('Passengers')
        plt.savefig('static/graphs/img'+str(user_count)+'.png')


        return render_template("graph.html", user_count = user_count, filename =
'graphs/img'+str(user_count)+'.png')



if __name__=="__main__":
    app.run()
```

OUTPUT

1. **REGISTRATION PAGE**

RESPONSE COPY

USERNAME	steverogers
EMAIL	user1@gmail.com
MOBILE NUMBER	7894561230

2. PACKAGES (NUMPY, MATPLOTLIB, SEABORN)

GRAPH DATA

USER COUNT - 1