ASSIGNMENT – 1

Name	M.MOHAMED NAWAS
Batch	B7-1A3E

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

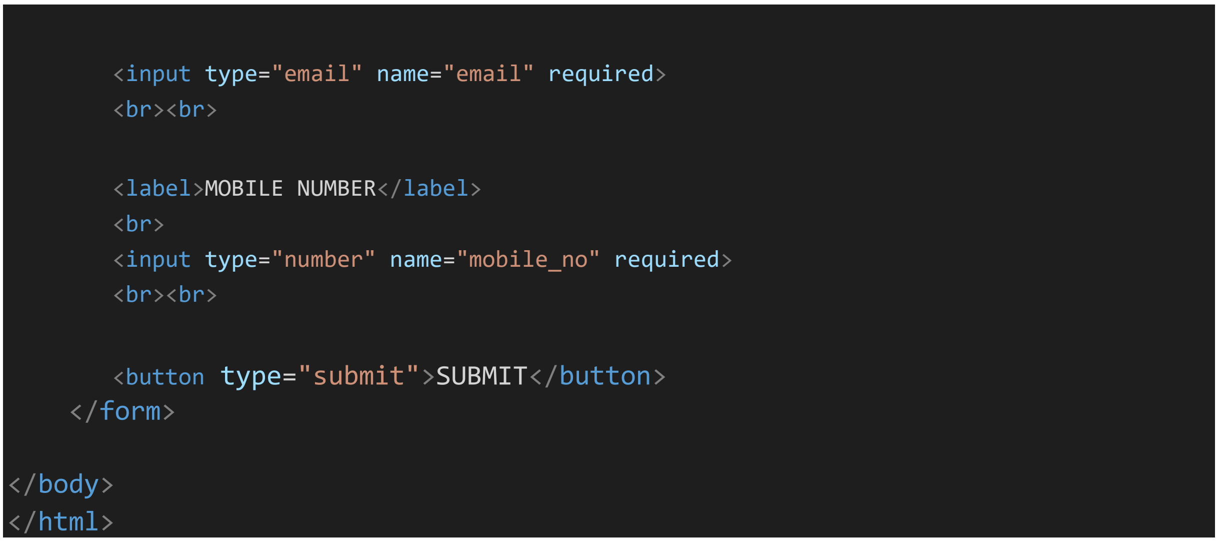
- static
    - graphs
    - styles

        response.css
- templates
    - form.html
    - response.html
    - graph.html
- app.py

CODE 1. HTML FILES

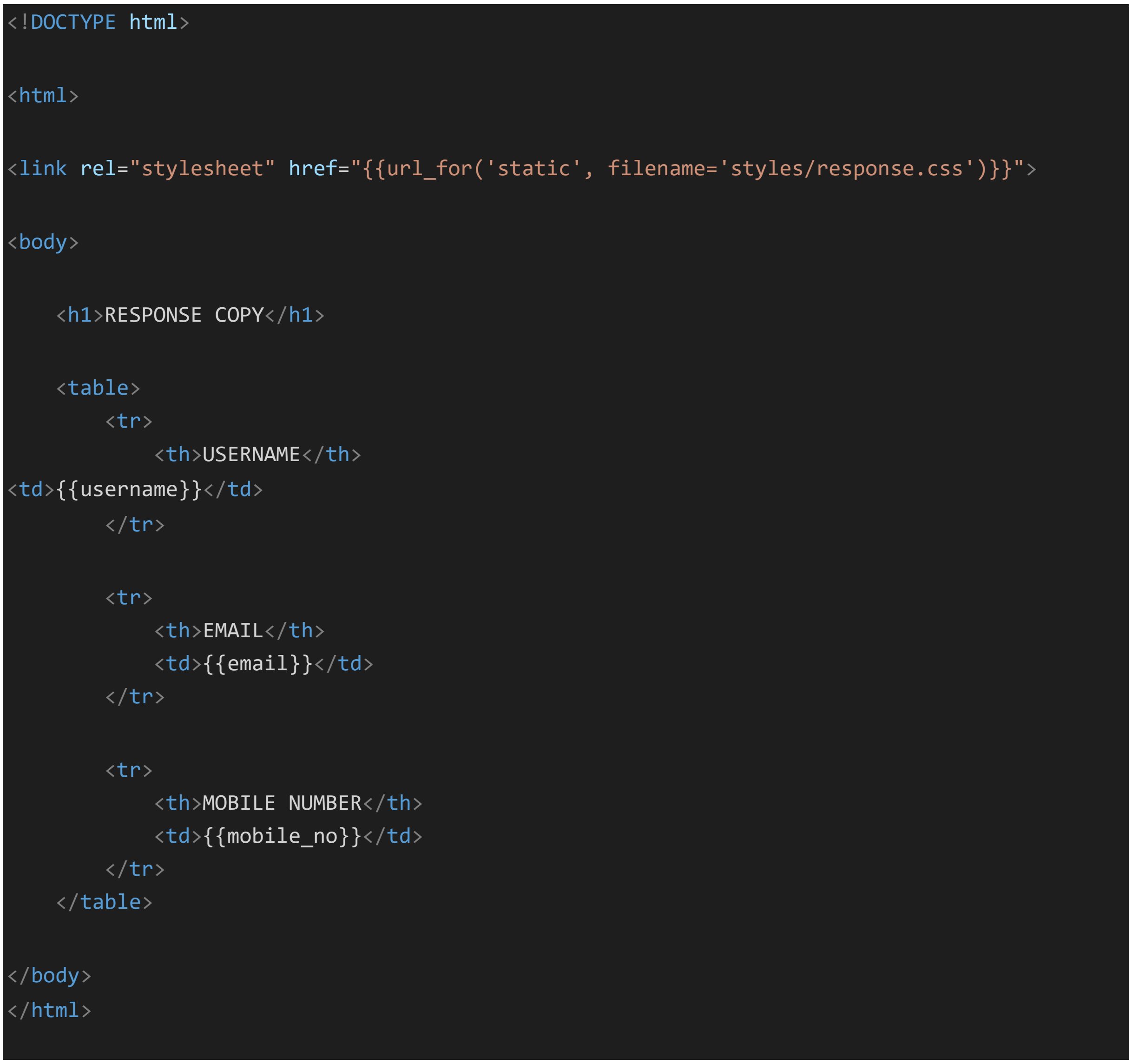
a) form.html

```
<!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>
```



```
        <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



```
<!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

```
<!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

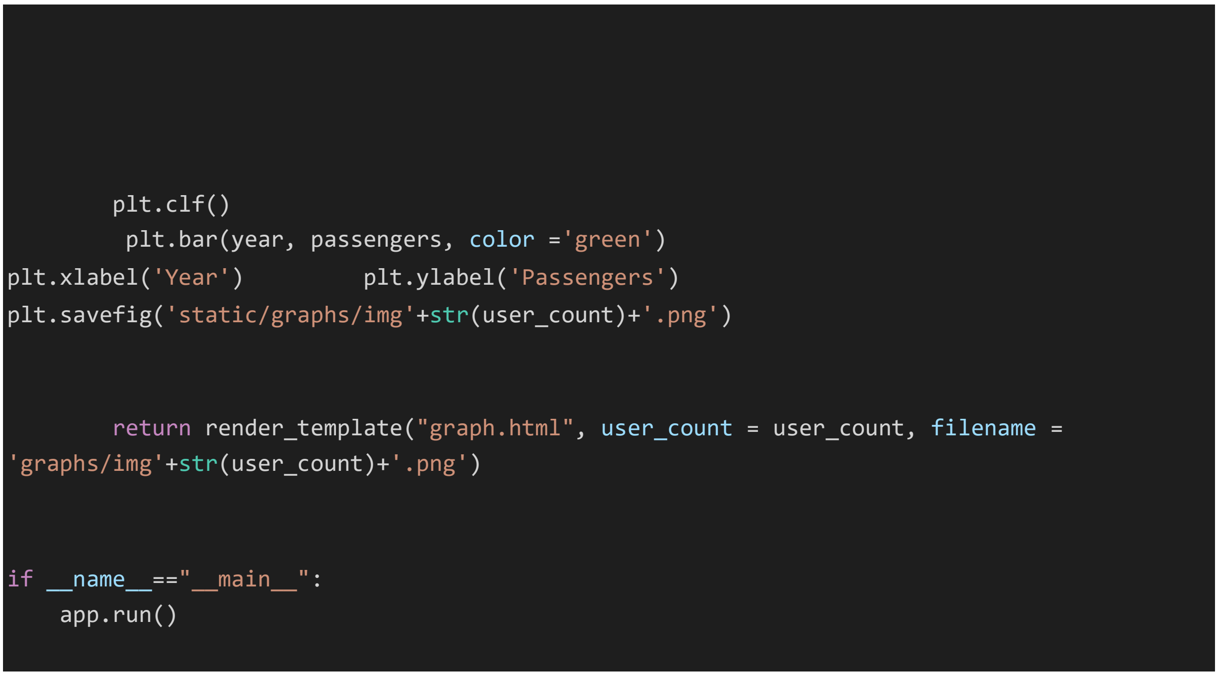
a) response.css

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

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

```

3. app.py

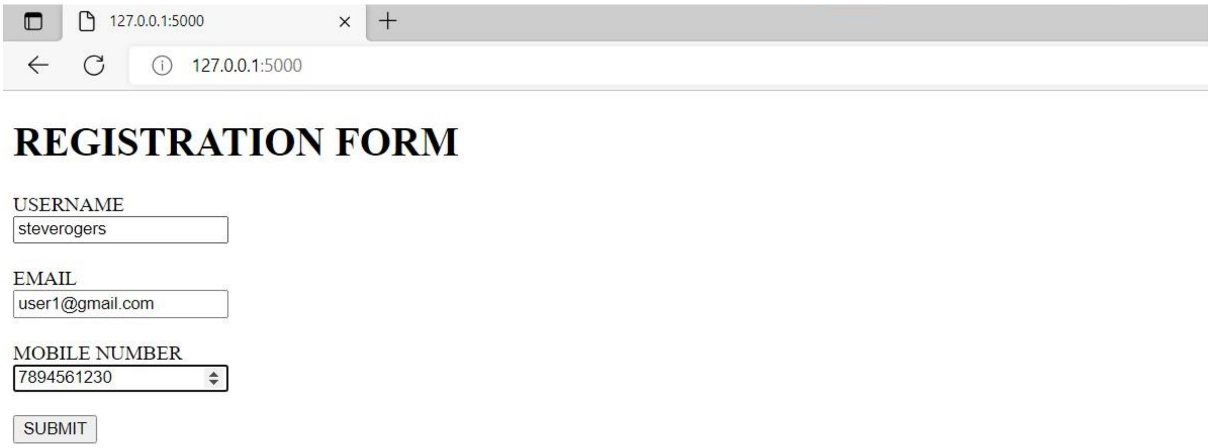
```
from flask import Flask from
flask import render_template
from flask import request
 import seaborn as sns import
matplotlib.pyplot as plt import
numpy as np

```

```
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

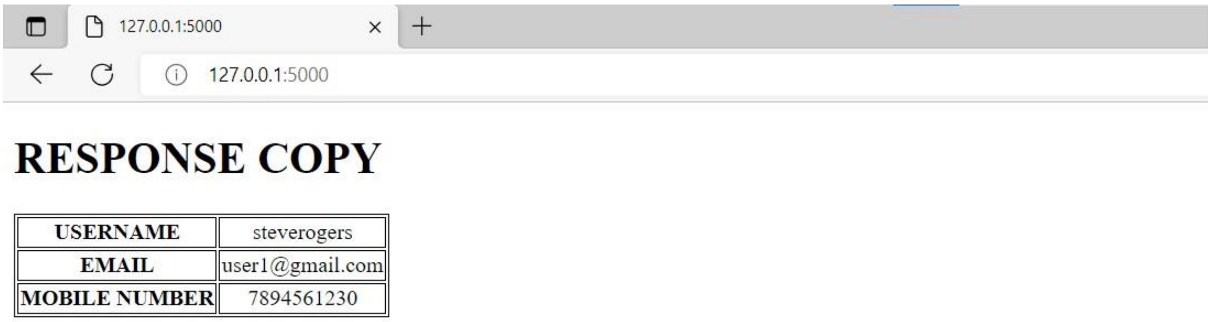


REGISTRATION FORM

USERNAME
steverogers

EMAIL
user1@gmail.com

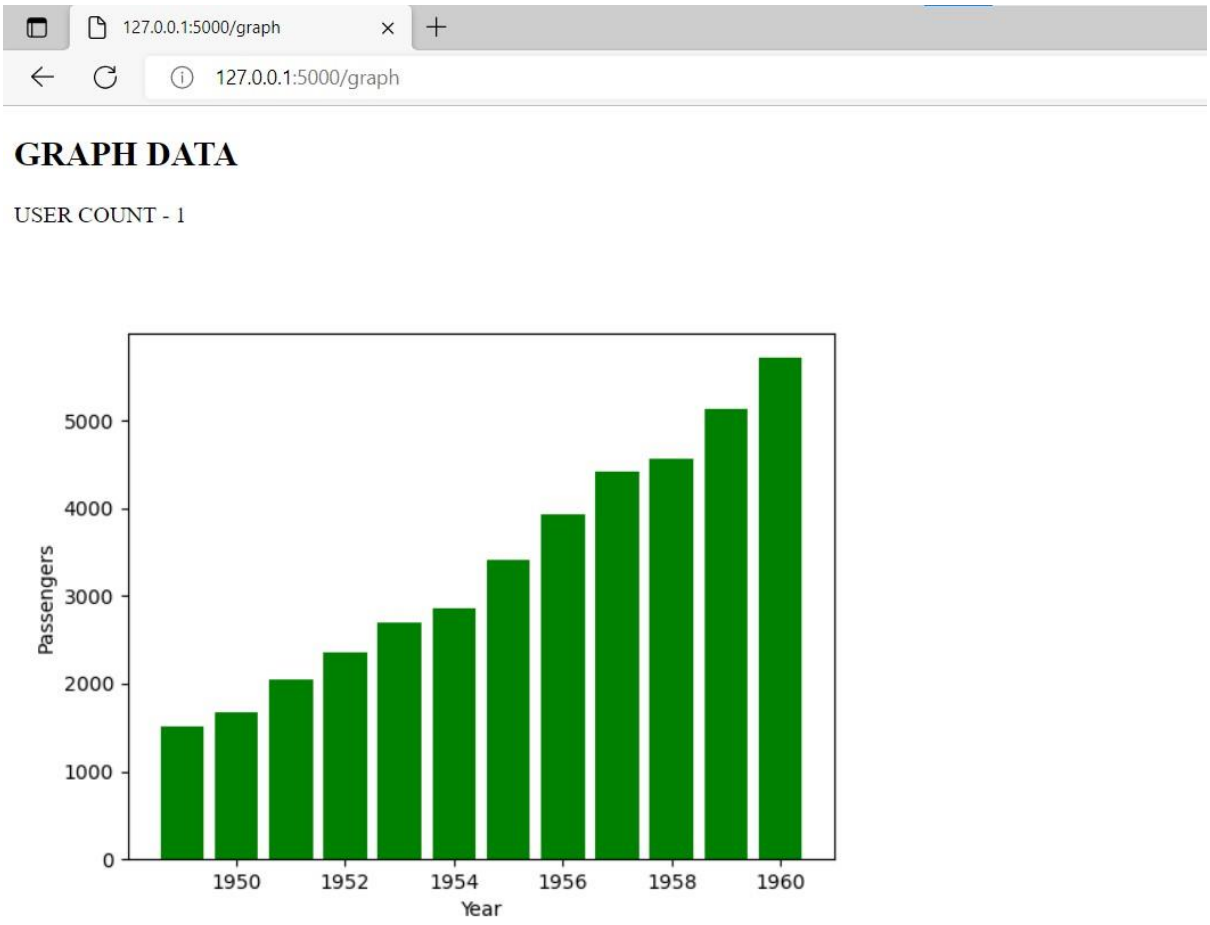
MOBILE NUMBER
7894561230



RESPONSE COPY

USERNAME	steverogers
EMAIL	user1@gmail.com
MOBILE NUMBER	7894561230

2. PACKAGES (NUMPY, MATPLOTLIB, SEABORN)



GRAPH DATA

USER COUNT - 1