Assignment -1

Assignment Date	19 September 2022
Student Name	Nanthakumaran S
Student Roll Number	737819ECR113
Maximum Marks	2 Marks

Question-1:

Create registration page in HTML with username, email and phone number and by using POST method display it on next HTML page.

app.py

```
from flask import Flask, request, render_template


app = Flask(__name__)

app.config['DEBUG'] = True


@app.route('/login', methods=("POST", "GET"))

def login():

   name = request.form['name']

   mobile = request.form['mobile']

   email = request.form['email']

   return f'{name} register mobile num as {mobile} and email as {email}'




@app.route('/')

def home():

   return render_template('index.html')



if __name__ == '__main__':
```

```
    app.run()
```

templates/index.html

```
<!DOCTYPE html>

<html lang="en">


<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>Simple Reistration Form</title>

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

</head>


<body>

    <form method="POST" action="http://127.0.0.1:5000/login">

        <div class="container">

            <h1>Sign Up</h1>

            <p>Please fill in this form to create an account.</p>


            <label><b>Username</b></label>

            <input type="text" name="name" placeholder="Enter Username"
required>

            <label><b>Email</b></label>

            <input type="email" placeholder="Enter Email" name="email"
required>
```

```
            <label><b>Phone Number</b></label>

            <input type="phone" name="mobile" placeholder="812345678" required>

            <div class="clearfix">

                <button type="submit" class="btn">Sign Up</button>

            </div>

        </div>

    </form>

</body>


</html>
```

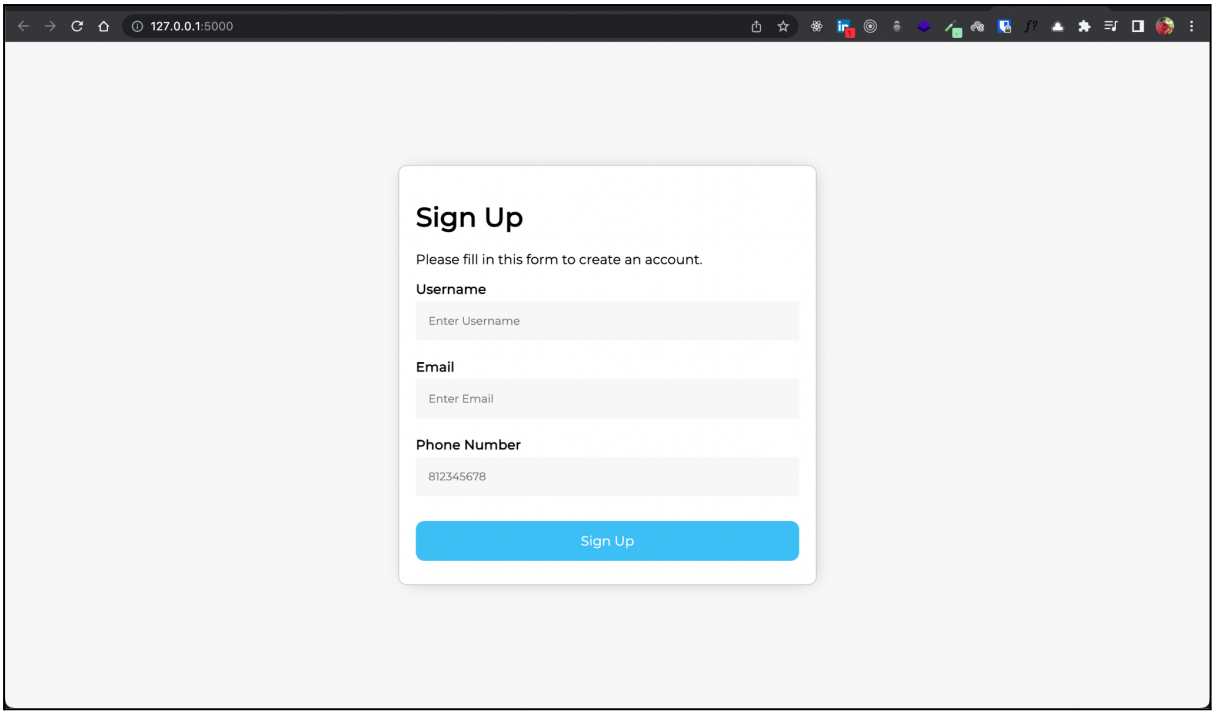
static/css/index.css

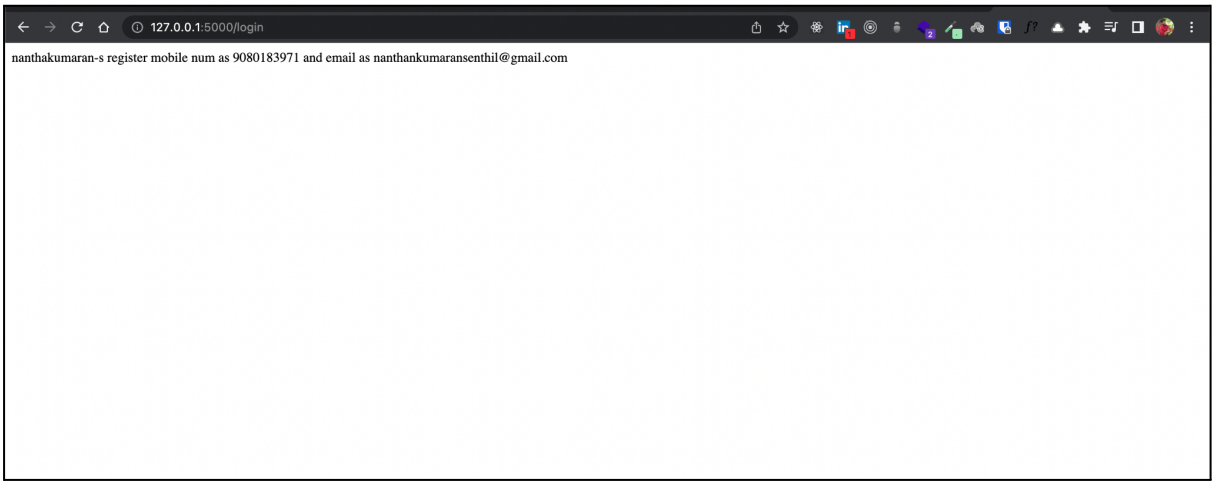
```
@import
url('https://fonts.googleapis.com/css?family=Montserrat:400,500&display=swap')
;


body {

 font-family: Montserrat,Arial, Helvetica, sans-serif;

 background-color:#f7f7f7;

}

* {box-sizing: border-box}


.container {

   padding: 20px;

     width:500px;

   position: absolute;

   left: 50%;
```

```
   top: 50%;
   transform: translate(-50%, -50%);
     border:1px solid #ccc;
     border-radius:10px;
     background:white;
 -webkit-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
 -moz-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
 box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
 }

input[type=text], input[type=email], input[type=phone] {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f7f7f7;
 font-family: Montserrat,Arial, Helvetica, sans-serif;
}

select {
 width: 18%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
```

```
 background: #f7f7f7;
 font-family: Montserrat,Arial, Helvetica, sans-serif;
}

input[type=text]:focus, input[type=password]:focus, input[type=phone]:focus,
select:focus {
 background-color: #ddd;
 outline: none;
}
button {
 background-color: #0eb7f4;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
 font-size:16px;
 font-family: Montserrat,Arial, Helvetica, sans-serif;
 border-radius:10px;
}
@media screen and (max-width: 300px) {
 .signupbtn {
    width: 100%;
 }
}
```

Output


127.0.0.1:5000
Sign Up
Please fill in this form to create an account.
Username
Enter Username
Email
Enter Email
Phone Number
812345678
Sign Up


127.0.0.1:5000/login
nanthakumaran-s register mobile num as 9080183971 and email as nanthankumaransenthil@gmail.com

Question-2:

Develop a flask program which should contain at least 5 packages used from pypi.org.

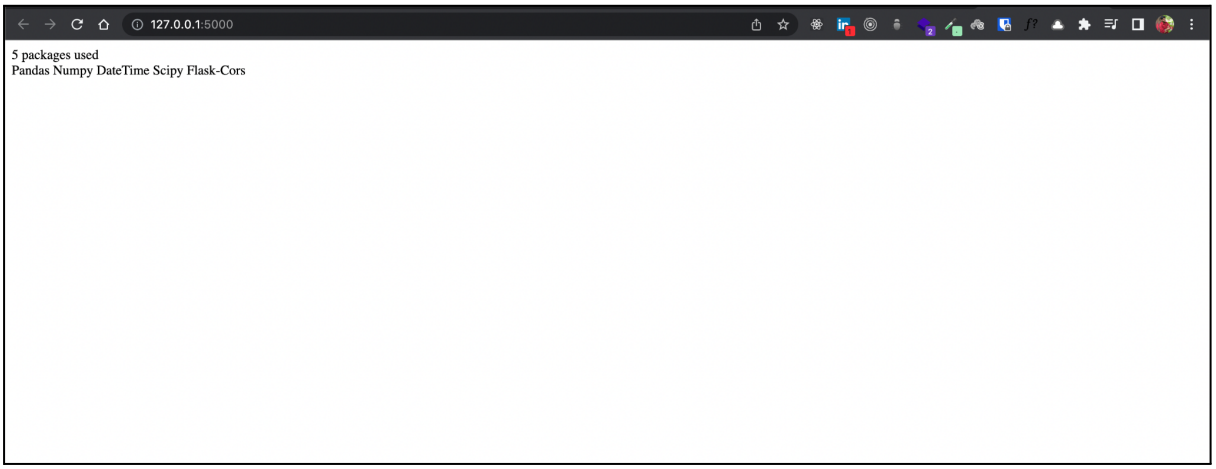
app.py

```
from flask import Flask

import pandas as pd
import numpy as np
import datetime as dt
from flask_cors import CORS
from scipy import constants

app = Flask(__name__)
CORS(app)
app.config['DEBUG'] = True

@app.route('/')
def home():
    # Pandas
    print('-----------------------------------------------------------------')
    a = [1, 7, 2]
    myvar = pd.Series(a)
    print(myvar)

    # Numpy
    print('-----------------------------------------------------------------')
    arr = np.array([1, 2, 3, 4, 5])
    print(arr)
    print(type(arr))

    # Datetime
    print('-----------------------------------------------------------------')
    today = dt.date.today()
    print(today)

    # Scipy
    print('-----------------------------------------------------------------')
    print(constants.liter)
```

```
    print('------------------------------------------------------------------')

    return '5 packages used<br/>Pandas Numpy DateTime Scipy Flask-Cors'

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

Output:

Terminal

```
 * Detected change in '/Users/nanthakumaran/Development/IBM-Project-22078-1659803251/Assignments/Team Lead/Assignment 1/Packages P
rogram/app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 122-915-974
 * Detected change in '/Users/nanthakumaran/Development/IBM-Project-22078-1659803251/Assignments/Team Lead/Assignment 1/Packages P
rogram/app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 122-915-974
------------------------------------------------------------
0    1
1    7
2    2
dtype: int64
------------------------------------------------------------
[1 2 3 4 5]
<class 'numpy.ndarray'>
------------------------------------------------------------
2022-10-17
------------------------------------------------------------
0.001
------------------------------------------------------------
127.0.0.1 - - [17/Oct/2022 21:03:04] "GET / HTTP/1.1" 200 -
```

Browser