

### Assignment -1

Assignment Date	27 September 2022
Student Name	Harish M
Student Roll Number	737819ECR056
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>
```

#### 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:

Sign Up

Please fill in this form to create an account.

Username	<input type="text" value="harish"/>	Email	<input type="text" value="harishm@gmail.com"/>	Phone Number	<input type="text" value="9150176456"/>
<input type="button" value="Sign Up"/>					

Harish register mobile num as 9150176456 and email as Harishm@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 Program/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 Program/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 -

```



A screenshot of a web browser window. The address bar shows the URL '127.0.0.1:5000'. The page content displays the output of the application: '5 packages used' followed by 'Pandas Numpy DateTime Scipy Flask-Cors' on the next line. The browser's developer tools and other interface elements are visible at the top and bottom of the window.