Assignment -1
Python Programming

Assignment Date	28 September 2022
Student Name	P. Hannah Princy
Student Roll Number	311519205022
Maximum Marks	2 Marks

Question-1:

Create a registration page in html with username, email and phone number and by using post method display it in next html page.

reg.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

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

  <title>Register</title>

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

</head>

<body>

  <form action="/register" method="POST" autocomplete="off">

    <div class="container">

      <center><h1>BLOOD PLASMA REGISTER</h1>

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

    <label class="form_label"for="email"><b>Username</b></label>

    <br><br>

    <input class="form_input"type="text" name="username"placeholder="Enter Username"
name="username" id="username" required>

    <br><br>

    <label class="form_label"for="email"><b>Email</b></label>

    <br><br>

    <input class="form_input"type="text" name="email"placeholder="Enter Email" name="email"
id="email" required>
```

```html
    <br><br>

    <label class="form_label"for="psw-repeat"><b>Phone number</b></label>

    <br><br>

    <input class="form_input"type="number" name="phonenumber"placeholder="Enter Phone number" name="psw-repeat" id="psw-repeat" required>

    <hr>

    <center><button type="submit" class="submitbtn">Register</button></center>

  </div>

 </form>

</body>

</html>
```

style.css

```css
.container

{

  padding: 16px;

  background-color: white;

}
/* Overwrite default styles of hr */

hr

{

  border: 1px solid #f1f1f1;

  margin-bottom: 25px;

}


/* Set a style for the submit button */

.submitbtn

{

   background-color: rgb(211, 47, 41);

   color: white;

   padding: 16px 20px;
```

```css
    margin: 8px 0;

    border: none;

    cursor: pointer;

    opacity: 0.9;

    border-radius: 10px;

}


  .submitbtn:hover {

    opacity: 1;

  }


  /* Add a blue text color to links */
  a {

    color: dodgerblue;

  }
.form_label

{

  margin-left: 35%;

}
.form_input

{

  margin-left: 35%;

  width: 500px;

  height: 42px;

  padding-left: 20px;

  border-radius: 10px;

  border: none;

  background-color: whitesmoke;

}
#output {

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

```css
  border-collapse: collapse;

  width: 50%;

}


#output td, #output th {

  border: 1px solid black;

  padding: 8px;

}


#output tr:nth-child(even){background-color: #f2f2f2;}


#output tr:hover {background-color: #ddd;}


#output th {

  padding-top: 12px;

  padding-bottom: 12px;

  text-align: left;

  background-color: rgb(211, 47, 41);

  color: white;

}
```

result.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Display</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
```

```html
    <h1>Output</h1>
    <center><table id="output">
      <tr>
        <th>Username</th>
        <td>{{username}}</td>
      </tr>
      <tr>
        <th>Email Address</th>
        <td>{{email}}</td>
      </tr>
      <tr>
        <th>Phone number</th>
        <td>{{phonenumber}}</td>
      </tr>
    </table></center>
</body>
</html>
```

app.py

```python
from flask import Flask,render_template,request
app=Flask(__name__)
@app.route("/")
def home():
    return render_template("reg.html")


@app.route("/register",methods=["POST","GET"])
def register():
    if request.method=="POST":
        username=request.form.get('username')
        email=request.form.get('email')
        phonenumber=request.form.get('phonenumber')
```

```
    return render_template("result.html",username=username,email=email,phonenumber=phonenumber)

if __name__ == '__main__':

    app.run(debug=True)
```

Output:

Question-2:

Develop a flask program which should I contain atleast 5 packages used from pypi.org.

Packages used:

1. render_template
2. url_for
3. redirect
4. request
5. abort

Program :

app.py

```python
from flask import Flask,render_template,request,redirect,url_for,abort


app=Flask(__name__)


@app.route("/")
def home():
   return render_template("register.html")


@app.route("/register",methods=["POST","GET"])
def register():
   if request.method=="POST":
     username=request.form.get('username')
     email=request.form.get('email')
     phone=request.form.get('phone')
     if username=="admin":
        return redirect(url_for("admin_page"))
     return render_template("home.html",username=username,email=email,phone=phone)


@app.route("/admin")
def admin_page():
   return render_template("admin.html")
```

```python
@app.route("/validate",methods=["POST","GET"])
def validate_admin():
    if request.method=="POST":
        password=request.form.get('password')
        if(password=="abcd"):
            return render_template("admindashboard.html")
        else:
            abort(403)


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

register.html

```html
<html>
    <head>
        <title>Registration page</title>
        <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">
    </head>
    <body>
        <div class="center"> <br /><br />
        <form action="/register" method="POST">
            <h1>Register</h1> <br /><br />
            <p> Enter username:</p>
            <input type="text" name= "username" />
            <p> Enter email:</p>
            <input type="email" name="email"/>
            <p> Enter Phone number:</p>
            <input type="text" name="phone"/>
            </br></br></br>
            <input type="submit" value="submit" />
```

```
        </form>

      </div>

    </body>

</html>
```

home.html

```
<!DOCTYPE html>

<html>

<head>

  <title>Home</title>

</head>

<body style="text-align:center">

    <h2>Welcome {{username}} </h2><br/><br/>

    <b>Username</b> - {{username}}<br/><br/>

    <b>Email Address</b> - {{email}}<br/><br/>

    <b>Phone number</b> - {{phone}}<br/><br/>

</body>

</html>
```

admin.html

```
<html>

  <head>

    <title>Admin Login</title>

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

  </head>

  <body>

    <div class="center"> <br /><br />

    <form action="/validate" method="POST">

      <h2 style="text-align:center">Admin login</h2> <br /><br />


      <p> Enter password:</p>

      <input type="text" name="password"/>

      </br></br></br>
```

```html
        <input type="submit" value="submit" />

    </form>

    </div>

  </body>

</html>
```

admindashboard.html

```html
<html>

<head>

  <title>Admin</title>

</head>

<body>

    <h2 style="text-align:center">Welcome Administartor </h2><br/><br/>

    <p><b>Who is an administrator?</b></p></br>

    <p>Web administrators design, develop, maintain and troubleshoot websites. Most importantly,
they ensure a safe and efficient user experience. This may include implementing security protocols,
modifying programs, creating backups, resolving software problems, updating content and more.
They may work with many clients or for one organization to design, program and monitor
websites.Specific responsibilities include:</p>

    <ul>

    <li>Coding websites – the most popular languages include HTML and JavaScript</li>

    <li>Collaborating with development teams to program websites</li>

    <li>Setting up tools to monitor website traffic</li>

    <li>Analyzing website traffic to inform design decisions</li>

    </ul>

</body>

</html>
```
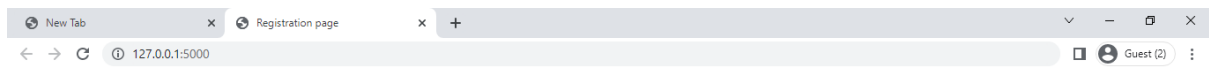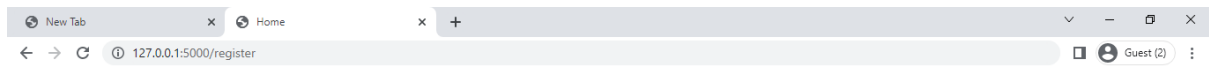
Output:

Register

Enter username:

| Hannah Princy P |

Enter email:

| hannah@gmail.com |

Enter Phone number:

| 9876545677 |

submit

Welcome Hannah Princy P

Username - Hannah Princy P

Email Address - hannah@gmail.com

Phone number - 9876545677

Admin login

Enter password:

abcd

submit

Welcome Administartor

Who is an administrator?

Web administrators design, develop, maintain and troubleshoot websites. Most importantly, they ensure a safe and efficient user experience. This may include implementing security protocols, modifying programs, creating backup resolving software problems, updating content and more. They may work with many clients or for one organization to design, program and monitor websites. Specific responsibilities include:

- Coding websites – the most popular languages include HTML and JavaScript
- Collaborating with development teams to program websites
- Setting up tools to monitor website traffic
- Analyzing website traffic to inform design decisions

Forbidden

You don't have the permission to access the requested resource. It is either read-protected or not readable by the server.