Assignment -1

Python Programming

Assignment Date	19 September 2022
Student Name	R.S.Divyadharshini
Student Roll Number	311519205018
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.

register.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 />
       Enter username:
      <input type="text" name= "username" />
       Enter email:
      <input type="email" name="email"/>
       Enter Phone number:
      <input type="text" name="phone"/>
      </br></br>
      <input type="submit" value="submit" />
    </form>
    </div>
 </body>
</html>
```

```
register.css
.center{
margin: auto;
width: 10%;
}
h1{
text-align:center;
}
input{
border-radius:5px;
padding:7px;
}
home.html
<html>
<head>
  <title>Home</title>
</head>
<body style="text-align:center">
   <h2>Welcome {{username}} </h2><br/><br/>
   <b>Username</b> - {{username}}<br/>>
   <b>Email Address</b> - {{email}}<br/>><br/>>
   <b>Phone number</b> - {{phone}}<br/>>
</body>
</html>
Register.py
from flask import Flask,render_template,request
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')
     return render_template("home.html",username=username,email=email,phone=phone)
if __name__ == '__main__':
  app.run(debug=True)
Output:
← → C ( ) localhost:5000
                                                                                                            £ ☆ * □ 8 :
● Coursera | Online C... tos SQL_TCS
                                                         Register
                                                        Enter username:
                                                        Divyadharshini R.S.
                                                        divyapavi008@gmail.com
                                                        999999999
                                                        submit
 ← → C ① localhost:5000/register
                                                                                                            🖻 ☆ 🖈 🗆 🖪 :
 ● Coursera | Online C... tos SQL_TCS
                                                  Welcome Divyadharshini R.S.
                                                      Username - Divyadharshini R.S.
                                                   Email Address - divyapavi008@gmail.com
```

Phone number - 9999999999

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:

```
python_packages.py
```

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

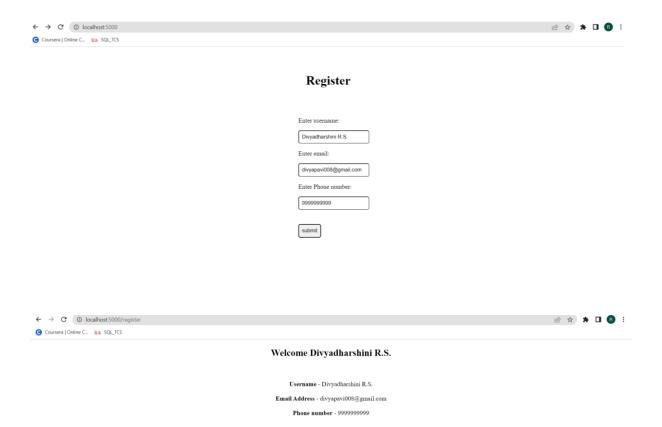
```
app=Flask(__name___)
@app.route("/")
def home():
  return render_template("register.html")
@app.route("/register",methods=["POST","GET"])
def register():
  if request.method=="POST":
    username=request.form.get('username')
    email=request.form.get('email')
    phone=request.form.get('phone')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

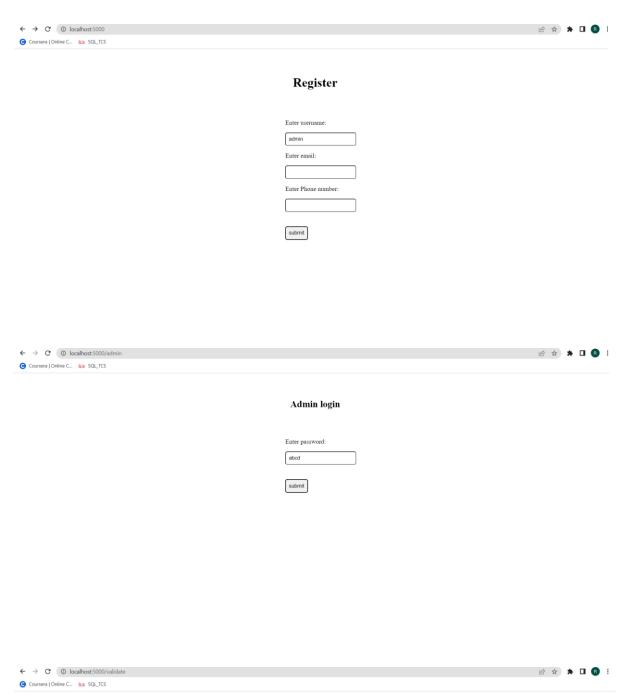
```
@app.route("/validate",methods=["POST","GET"])
def validate_admin():
  if request.method=="POST":
    password=request.form.get('password')
    if(password=="abcd"):
      return render_template("admindashboard.html")
    else:
      abort(403)
if __name__ == '__main__':
  app.run(debug=True)
register.html
<html>
  <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 />
       Enter username:
      <input type="text" name= "username" />
       Enter email:
      <input type="email" name="email"/>
       Enter Phone number:
      <input type="text" name="phone"/>
      </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/>>
   <b>Email Address</b> - {{email}}<br/>br/><br/>
   <b>Phone number</b> - {{phone}}<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 />
       Enter password:
      <input type="text" name="password"/>
      </br></br>
```

```
<input type="submit" value="submit" />
    </form>
    </div>
 </body>
</html>
admindashboard.html
<html>
<head>
 <title>Admin</title>
</head>
<body>
   <h2 style="text-align:center">Welcome Administartor </h2><br/>
   <b>Who is an administrator?</b></br>
   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: 
    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
    </body>
</html>
```

Output:





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 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:

- Coding websites the most popular languages include HTML and JavaScript
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 Setting up tools to monitor website traffic
 Analyzing website traffic to inform design decisions



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