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 />

      <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>
```

register.css

```
.center{
margin: auto;
width: 10%;
}
h1{
text-align:center;
}
input{
border-radius:5px;
padding:7px;
}
```

home.html

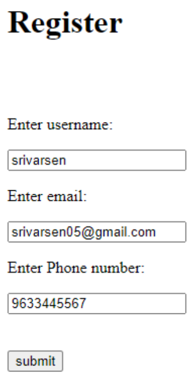
```
<html>
<head>
   <title>Home</title>
</head>
<body style="text-align:center">
      <h2>Welcome {{username}} </h2><br/><br/>
      <b>Username</b> - {{username}}<br/><br/>
      <b>Email Address</b> - {{email}}<br/><br/>
      <b>Phone number</b> - {{phone}}<br/><br/>
</body>
</html>
```

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:



Register

Enter username:

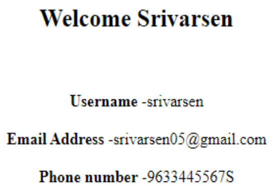
srivarsen

Enter email:

srivarsen05@gmail.com

Enter Phone number:

9633445567



Welcome Srivarsen

Username -srivarsen

Email Address -srivarsen05@gmail.com

Phone number -9633445567S

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 />
            <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

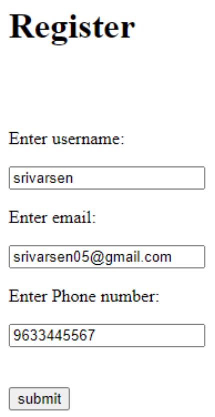
```
<html>
    <head>
        <title>Admin Login</title>
        <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">
    </head>
    <body>
        <div class="center"> <br /><br />
        <form action="/validate" method="POST">
            <h2 style="text-align:center">Admin login</h2> <br /><br />

            <p> Enter password:</p>
            <input type="text" name="password"/>
            </br></br></br>
```

```
      <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/><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:

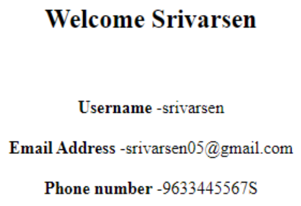
srivarsen

Enter email:

srivarsen05@gmail.com

Enter Phone number:

9633445567

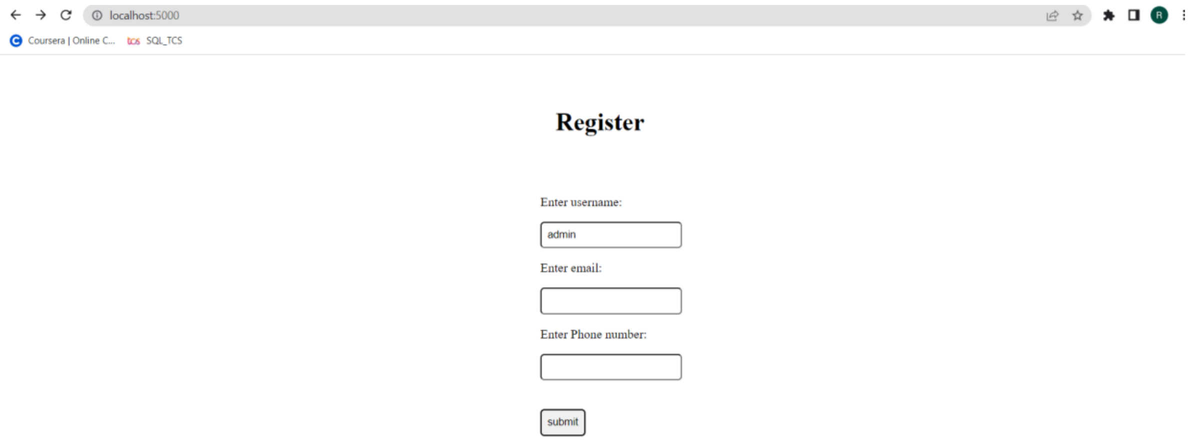


Welcome Srivarsen

Username -srivarsen

Email Address -srivarsen05@gmail.com

Phone number -9633445567S



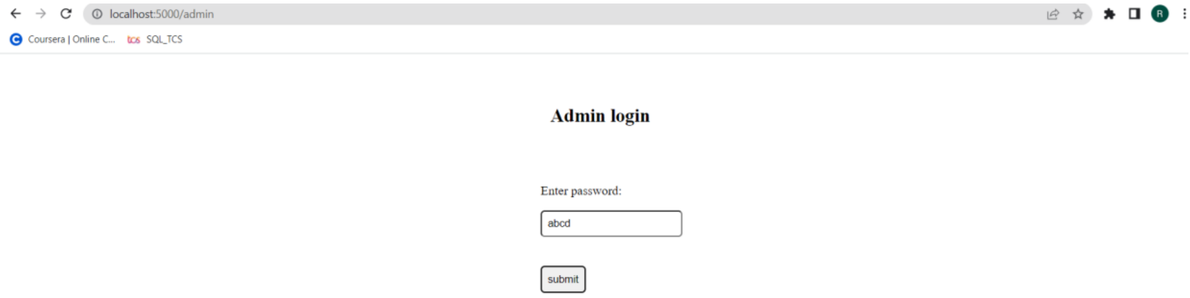
Register

Enter username:

admin

Enter email:

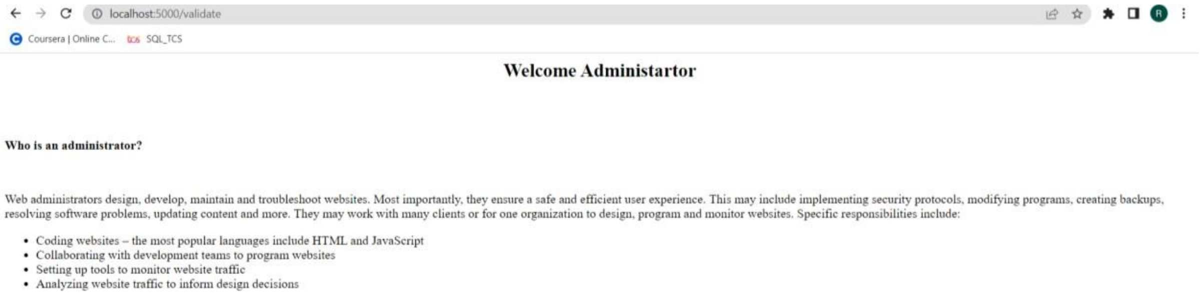
Enter Phone number:



Admin login

Enter password:

abcd

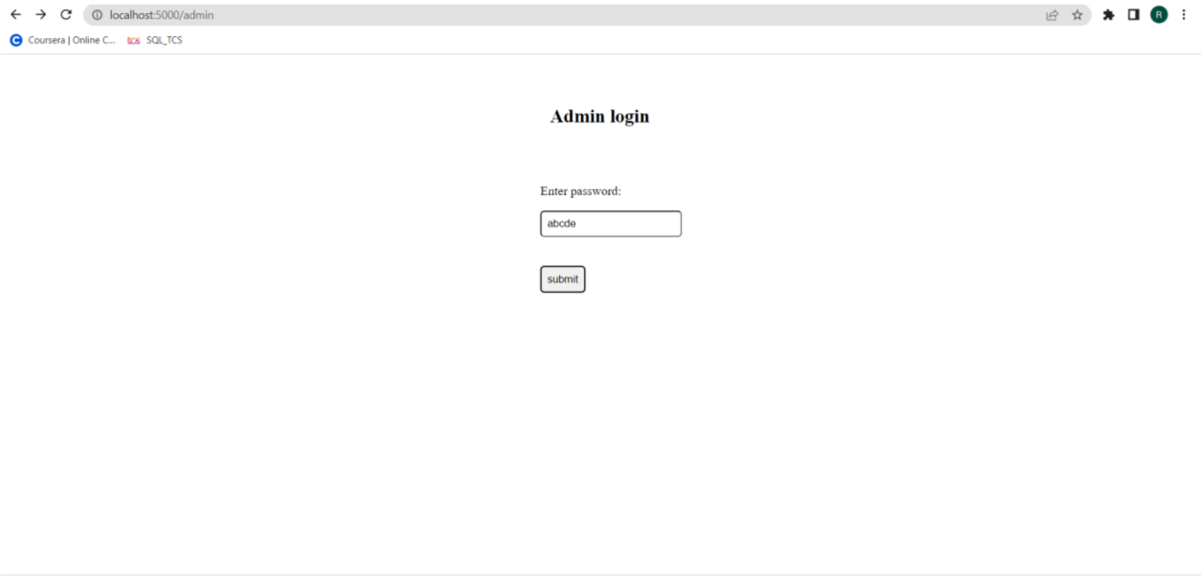


Welcome Administartor

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:

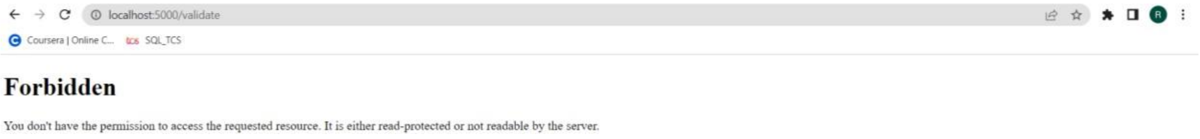
- Coding websites – the most popular languages include HTML and JavaScript
- Collaborating with development teams to program websites
- Setting up tools to monitor website traffic
- Analyzing website traffic to inform design decisions



Admin login

Enter password:

abcde



Forbidden

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