Assignment -2
Python-flask Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:
1. Create a Flask App
2. Add the Home page, About Page
3. Add the Bootstrap
4.Add the Sign in page and App the Signup Page database connectivity

app.py:

```python
from site import USER_BASE
from flask import Flask, render_template, url_for, request, redirect
import sqlite3 assql



app=Flask(__name__)
app.secret_key ='shreesathyam'


@app.route('/')
defhome():
    con =sql.connect('user_base.db')
    con.row_factory=sql.Row
    cur=con.cursor()
    cur.execute('select *from user')

    users= cur.fetchall()
    con.close()
    returnrender_template('index.html',users=users)

@app.route('/about')
defabout():
    returnrender_template('about.html')
@app.route('/signin')
defsignin():
    returnrender_template('signin.html')
@app.route('/signup')
defsingup():
    returnrender_template('signup.html')
@app.route('/user/<id>')
defuser_page(id):
    withsql.connect('user_base.db') as con:
        con.row_factory=sql.Row
```

```python
        cur =con.cursor()
        cur.execute(f'SELECT * FROM user WHERE email="{id}"')
        user = cur.fetchall()
    returnrender_template("user_info.html", user=user[0])

@app.route('/accessbackend', methods=['POST','GET'])
defaccessbackend():
    ifrequest.method == "POST":
        try:
            firstname=request.form['firstname']
            lastname=request.form['lastname']
            e_mail= request.form['email']
            phone=request.form['phone']
            password=request.form['password']
            dob=request.form['dob']

            withsql.connect('user_base.db') as con:
                cur =con.cursor()
                cur.execute('INSERT INTO user (firstname, lastname, email,
phone, password, dob ) VALUES(?,?,?,?,?,?)',
(str(firstname),str(lastname),str(e_mail),str(phone),str(password),str(dob)))
                con.commit()
                msg='u r resgistered!'

        except:
            con.rollback()
            msg='some error'

        finally:
            print(msg)
            return redirect(url_for('home'))
    else:
        try:
            tue=request.args.get('email')
            tup=request.args.get('password')
            print(tue,tup)
            withsql.connect('user_base.db') as con:
                con.row_factory=sql.Row
                cur=con.cursor()
                cur.execute(f'SELECT password FROM user WHERE email="{tue}"')
                user= cur.fetchall()
        except:
            print('error')
            con.rollback()
        finally:
            iflen(user) >0:
                iftup == user[0][0]:
                    return redirect(url_for("user_page",id=tue))
                print(user[0][0])
            return redirect(url_for('signin'))
```

About.html:

```
{% extends 'base.html '%}
{% block head %}
<title>abour page</title>
{% endblock%}

{%block body%}
<mainclass="container mx-auto my-4 bg-light border "style="width:60%;">
<h1class="p-2 border-bottom border-2">About page</h1>
<p>
    this flask app is developed for basic understandign of python-flask
</p>
<p>
    click <strong><ahref="/signup"class=" btnbtn-outline-success
py-1">signup</a></strong> and <strong><ahref="/signin"class="
btnbtn-outline-success py-1">signin</a></strong> in the nav bar

</p>
</h1></main>
{% endblock%}
```

Base.html

```
<!DOCTYPEhtml>
<htmllang="en">
    <head>
        <metacharset="utf-8">
        <metaname="viewport"content="width=device-width, initial-scale=1">
<linkhref="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min
.css"rel="stylesheet"integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQT
wFspd3yD65VohhpuuCOmLASjC"crossorigin="anonymous">
<scriptsrc="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bun
dle.min.js"integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP
+JcXn/tWtIaxVXM"crossorigin="anonymous"></script>


<!--<link rel="stylesheet" href="{{url_for('static',
filename='css/style.css')}}"> -->
{% block head%}{% endblock %}

</head>
<bodystyle="background: linear-gradient(70deg, blue 10%, pink);">

    <navclass="navbarnavbar-expand-lgnavbar-light bg-light">
        <divclass="container-fluid">
          <aclass="navbar-brand"href="#">Navbar</a>

<buttonclass="navbar-toggler"type="button"data-bs-toggle="collapse"data-bs-tar
get="#navbarSupportedContent"aria-controls="navbarSupportedContent"aria-expand
ed="false"aria-label="Toggle navigation">
            <spanclass="navbar-toggler-icon"></span>
          </button>
```

```html
            <divclass="collapse navbar-collapse"id="navbarSupportedContent">
              <ulclass="navbar-nav me-auto mb-2 mb-lg-0">
                <liclass="nav-item">
                  <aclass="nav-link active"aria-current="page"href="/">Home</a>
                </li>
                <liclass="nav-item">
                  <aclass="nav-link"href="/signin">signin</a>
                </li>
                <liclass="nav-item">
                  <aclass="nav-link"href="/signup">signup</a>
                </li>
                <liclass="nav-item">
                  <aclass="nav-link"href="/about">about</a>
                </li>
                <liclass="nav-item dropdown">
                  <aclass="nav-link
dropdown-toggle"href="#"id="navbarDropdown"role="button"data-bs-toggle="dropdo
wn"aria-expanded="false">
                    Dropdown
                  </a>
                  <ulclass="dropdown-menu"aria-labelledby="navbarDropdown">
                    <li><aclass="dropdown-item"href="#">Action</a></li>
                    <li><aclass="dropdown-item"href="#">Another action</a></li>
                    <li><hrclass="dropdown-divider"></li>
                    <li><aclass="dropdown-item"href="#">Something else
here</a></li>
                  </ul>
                </li>

              </ul>
              <formclass="d-flex">
                <inputclass="form-control
me-2"type="search"placeholder="Search"aria-label="Search">

<buttonclass="btnbtn-outline-success"type="submit">Search</button>
              </form>
            </div>
          </div>
        </nav>


    <divclass="container mt-5">
        {% block body %} {% endblock %}
    </div>
</body>
</html>
```

Index.html

```
{% extends 'base.html '%}
{% block head %}
<title>home page</title>
{% endblock%}
```

```
{%block body%}
<mainclass="container mx-auto my-4 bg-light border border-2"style="width:
70%;">
<divclass="p-4">
   <h1>Welcome to the flask app</h1>
    <h2>register user list </h2>
    <div>{% for user in users%}


        <div    style="background: linear-gradient(to top,rgb(51,204,255), 20%,
cyan);"class="border rounded fs-4 p-1 px-2 mb-3"style="width: 40%;">


            {{ user["firstname"] + " " +user['lastname'] }}
        </div>
        {% endfor %}


    </div>
</div>
</main>
{% endblock%}
```

Signin.html

```
{% extends 'base.html '%}
{% block head %}
<title>Sigin page</title>
{% endblock%}

{%block body%}
<mainclass="container">
    <divclass="mx-auto mt-5 border bg-light"style="width:500px;">
    <h2class='mx-4 mt-2'>SINGIN</h2>
    <formaction="{{url_for('accessbackend') }}"method="get">
        <divclass="my-2 mx-4">
            <labelfor="email">Email</label>

<inputtype="email"class="form-control"placeholder="adc@gmail.com"name="email"r
equired/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="password">password</label>
            <inputtype="password"class="form-control"
 name="password"required/>
        </div>
        <inputtype="submit"value="submit"class="btnbtn-primary my-4 mt-2 "/>

    </form></div>
</main>
{% endblock%}
```

Signup:

```
{% extends 'base.html '%}
{% block head %}
```

```html
<title>Signup page</title>
{% endblock%}

{%block body%}<main class="container">
    <div class="mx-auto mt-5 border bg-light" style="width: 500px;">
    <h2 class="mx-4 mt--2">SIGNUP</h2>
    <form action="{{url_for('accessbackend') }}" method="post">
        <div class="my-2 mx-4">
            <label for="firstname">first name</label>

<input type="text" class="form-control" placeholder="Ram" name="firstname" required
/>
        </div>
        <div class="my-2 mx-4">
            <label for="lastname">last name</label>

<input type="text" class="form-control" placeholder="kumar" name="lastname" require
d/>
        </div>
        <div class="my-2 mx-4">
            <label for="email">email</label>

<input type="text" class="form-control" placeholder="abc@gmail.com" name="email" re
quired/>
        </div>
        <div class="my-2 mx-4">
            <label for="phone">phone</label>

<input type="text" class="form-control" placeholder="0987654321" name="phone" requi
red/>
        </div>
        <div class="my-2 mx-4">
            <label for="password">password</label>

<input type="password" class="form-control" placeholder="password" name="password"
required/>
        </div>
        <div class="my-2 mx-4">
            <label for="dob">date of brith</label>
            <input type="date" class="form-control" name="dob" required/>
        </div>
        <input type="submit" value="submit" class="btn btn-primary my-4 my-2
mt-2"/>

    </form>

    </div>
</main>
{% endblock%}
```

Information database:

```html
{% extends 'base.html '%}
```

```
{% block head %}
<title>home page</title>
{% endblock%}

{%block body%}
<mainclass="container mx-auto my-4 bg-light border"style="width:70%;">
<divclass="p-4">
    <h2>{{ user[0] +" " + user[1]}}</h2>
    <divclass="border rounded fs-5 p-1 px-5 mb-3"style="width: 60%;">
        <spanstyle="display: block;">first name:{{user[0]}}</span>
        <spanstyle="display: block;">last name:{{user[1]}}</span>
        <spanstyle="display: block;">email:{{user[2]}}</span>
        <spanstyle="display: block;">phone:{{user[3]}}</span>
        <spanstyle="display: block;">date of brith:{{user[5 ]}}</span>


    </div>


</div></main>
{% endblock%}
```
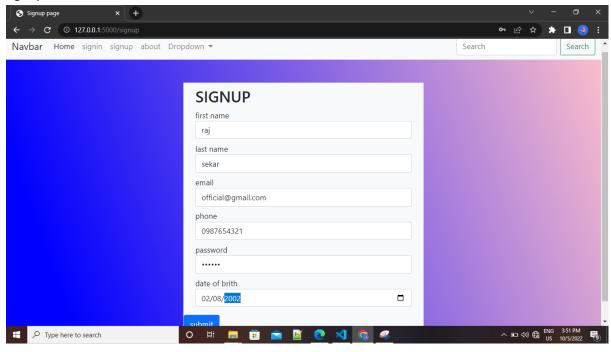
Database setup:

```
import sqlite3

conn =sqlite3.connect('user_base.db')
print('successfully database opened')

conn.execute(' CREATE TABLE user(firstname TEXT, lastname TEXT, email TEXT,
phone TEXT, password TEXT, dob TEXT );')

print("table created")
conn.close()
```
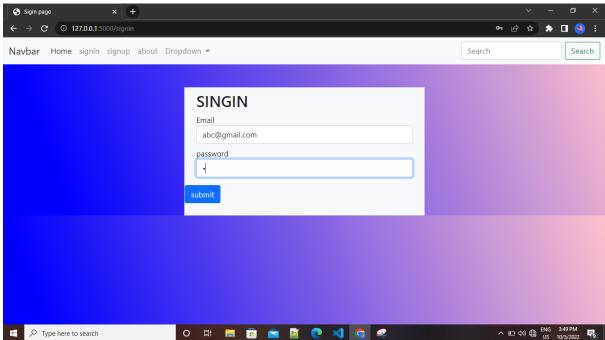
output:

Signup:

Sign in:

About: