Assignment -2

Python-flask Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

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- 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:

```
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
        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:

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</pre>
.css"rel="stylesheet"integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"crossorigin="
anonymous">
<scriptsrc="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bun</pre>
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-</pre>
toggle="collapse"data-bs-target="#navbarSupportedContent"aria-
controls="navbarSupportedContent"aria-expanded="false"aria-label="Toggle
navigation">
            <spanclass="navbar-toggler-icon"></span>
          </button>
          <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>
             <liclass="nav-item">
                <aclass="nav-link"href="/signin">signin</a>
              <liclass="nav-item">
                <aclass="nav-link"href="/signup">signup</a>
              <liclass="nav-item">
                <aclass="nav-link"href="/about">about</a>
             <liclass="nav-item dropdown">
                <aclass="nav-link dropdown-
toggle"href="#"id="navbarDropdown"role="button"data-bs-toggle="dropdown"aria-
expanded="false">
                 Dropdown
                <ulclass="dropdown-menu"aria-labelledby="navbarDropdown">
                  <aclass="dropdown-item"href="#">Action</a>
                  <aclass="dropdown-item"href="#">Another action</a>
                  <hrclass="dropdown-divider">
                 <aclass="dropdown-item"href="#">Something else</a>
here</a>
               <formclass="d-flex">
              <inputclass="form-control me-</pre>
2"type="search"placeholder="Search"aria-label="Search">
              <buttonclass="btnbtn-outline-</pre>
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:</pre>
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%,</pre>
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-</pre>
control"placeholder="adc@gmail.com"name="email"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="password">password</label>
            <inputtype="password"class="form-</pre>
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 %}
<title>Signup page</title>
{% endblock%}
{%block body%}<mainclass="container">
    <divclass="mx-auto mt-5 border bg-light"style="width: 500px;">
    <h2class="mx-4 mt-2">SIGNUP</h2>
    <formaction="{{url_for('accessbackend') }}"method="post">
        <divclass="my-2 mx-4">
            <labelfor="firstname">first name</label>
            <inputtype="text"class="form-</pre>
control"placeholder="Ram"name="firstname"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="lastname">last name</label>
            <inputtype="text"class="form-</pre>
control"placeholder="kumar"name="lastname"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="email">email</label>
            <inputtype="text"class="form-</pre>
control"placeholder="abc@gmail.com"name="email"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="phone">phone</label>
            <inputtype="text"class="form-</pre>
control"placeholder="0987654321"name="phone"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="password">password</label>
            <inputtype="password"class="form-</pre>
control"placeholder="password"name="password"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="dob">date of brith</label>
            <inputtype="date"class="form-control"name="dob"required/>
        <inputtype="submit"value="submit"class="btnbtn-primary my-4 my-2 mt-</pre>
2"/>
    </form>
    </div>
</main>
{% endblock%}
```

Information database:

```
{% 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%}
```

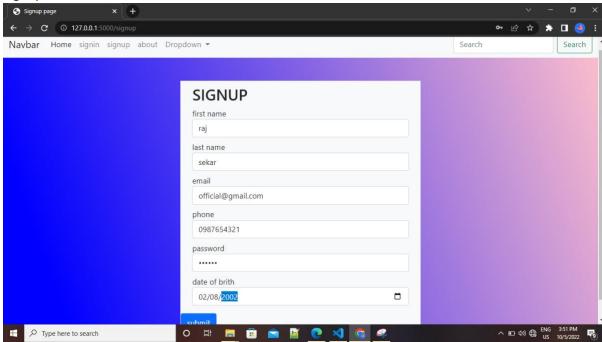
Database setup:

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

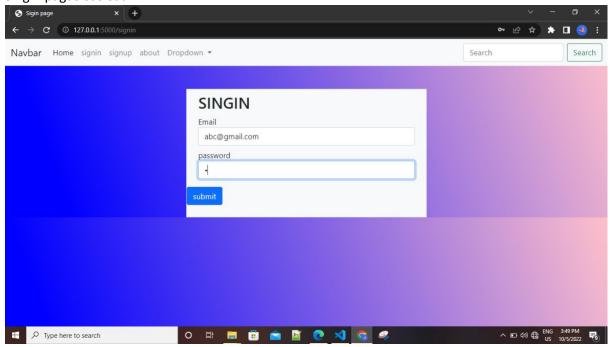
conn.execute(' CREATE TABLE user(firstname TEXT, lastname TEXT, email TEXT, phone TEXT, password TEXT, dob TEXT);')
print("table created")
conn.close()
```

output:

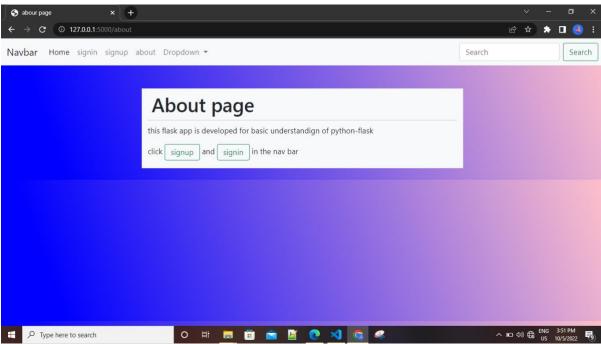
Signup:



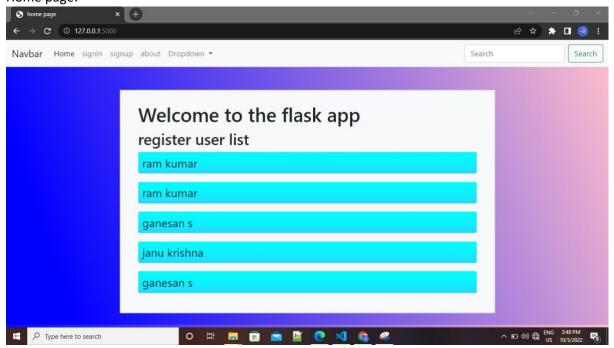
Singin:pagdsfsdsfsda



About:



Home page:



Database connectivity:

