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 as sql



app=Flask(_name_)
app.secret_key ='IBM'


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

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

@app.route('/about')
def about():
    return render_template('about.html')
@app.route('/signin')
def signin():
    return render_template('signin.html')
@app.route('/signup')
def singup():
```

```
    return render_template('signup.html')
@app.route('/user/<id>')
def user_page(id):
    with sql.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()
    return render_template("user_info.html", user=user[0])

@app.route('/accessbackend', methods=['POST','GET'])
def accessbackend():
    if request.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']

            with sql.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)
            with sql.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:
            if len(user) >0:
                if tup == 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%}
<main class="container mx-auto my-4 bg-light border " style="width:60%;">
<h1 class="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><a href="/signup" class=" btn btn-outline-success py-
1">signup</a></strong> and <strong><a href="/signin" class=" btn btn-outline-
success py-1">signin</a></strong> in the nav bar

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

Base.html

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.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>
<body style="background: linear-gradient(70deg, blue 10%, pink);">

    <nav class="navbar navbar-expand-lg navbar-light bg-light">
        <div class="container-fluid">
          <a class="navbar-brand" href="#">Navbar</a>
          <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle
navigation">
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarSupportedContent">
            <ul class="navbar-nav me-auto mb-2 mb-lg-0">
              <li class="nav-item">
                <a class="nav-link active" aria-current="page"
href="/">Home</a>
              </li>
              <li class="nav-item">
                <a class="nav-link" href="/signin">signin</a>
              </li>
              <li class="nav-item">
                <a class="nav-link" href="/signup">signup</a>
              </li>
              <li class="nav-item">
                <a class="nav-link" href="/about">about</a>
              </li>
              <li class="nav-item dropdown">
                <a class="nav-link dropdown-toggle" href="#"
id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-
expanded="false">
                  Dropdown
                </a>
                <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
                  <li><a class="dropdown-item" href="#">Action</a></li>
                  <li><a class="dropdown-item" href="#">Another
action</a></li>
                  <li><hr class="dropdown-divider"></li>
                  <li><a class="dropdown-item" href="#">Something else
here</a></li>
                </ul>
              </li>

            </ul>
```

```
            <form class="d-flex">
              <input class="form-control me-2" type="search"
placeholder="Search" aria-label="Search">
              <button class="btn btn-outline-success"
type="submit">Search</button>
            </form>
          </div>
        </div>
      </nav>


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

Index.html

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

{%block body%}
<main class="container mx-auto my-4 bg-light border border-2" style="width:
70%;">
<div class="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%}
<main class="container">
    <div class="mx-auto mt-5 border bg-light" style="width:500px;">
    <h2 class='mx-4 mt-2'>SINGIN</h2>
    <form action="{{url_for('accessbackend') }}" method="get">
        <div class="my-2 mx-4">
            <label for="email">Email</label>
            <input type="email" class="form-control"
placeholder="adc@gmail.com" name="email" required />
        </div>
        <div class="my-2 mx-4">
            <label for="password">password</label>
            <input type="password" class="form-control"  name="password"
required />
        </div>
        <input type="submit" value="submit" class="btn btn-primary my-4 mt-2
"/>

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

Signup:

```
{% extends 'base.html '%}
{% block head %}
<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" required/>
        </div>
        <div class="my-2 mx-4">
            <label for="email">email</label>
            <input type="text" class="form-control"
placeholder="abc@gmail.com" name="email" required/>
        </div>
```

```
        <div class="my-2 mx-4">
            <label for="phone">phone</label>
            <input type="text" class="form-control" placeholder="0987654321"
name="phone" required/>
        </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:

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

{%block body%}
<main class="container mx-auto my-4 bg-light border" style="width:70%;">
<div class="p-4">
    <h2>{{ user[0] +" " + user[1]}}</h2>
    <div class="border rounded fs-5 p-1 px-5 mb-3" style="width: 60%;">
        <span style="display: block;">first name:{{user[0]}}</span>
        <span style="display: block;">last name:{{user[1]}}</span>
        <span style="display: block;">email:{{user[2]}}</span>
        <span style="display: block;">phone:{{user[3]}}</span>
        <span style="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()
```