

Assignment -2

Python-flask Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Problem:

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

Solution:

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 = 'shreesathyam'

@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']

```

```

        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>about 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">
```

```
<linkhref="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"rel="stylesheet"integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65Vo hhpuuC0mLASjC"crossorigin="anonymous">
<scriptsrc="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>
<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-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">
```

```

        <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">

```

```

        <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>Signin page</title>
{% endblock%}

{%block body%}
<mainclass="container">
    <divclass="mx-auto mt-5 border bg-
light"style="width:500px;">
        <h2class='mx-4 mt-2'>SIGNIN</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"requ
ired/>
            </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.html:

```
{% 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-
control"placeholder="Ram"name="firstname"required/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="lastname">last name</label>
            <inputtype="text"class="form-
control"placeholder="kumar"name="lastname"required/
>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="email">email</label>
            <inputtype="text"class="form-
control"placeholder="abc@gmail.com"name="email"requ
ired/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="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 birth</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()

```

output:

This is our home page.

Hi, Lets create your account

Signup

SIGNUP

Student information

Name :

Address :

city :

PINCODE :

Create

Students inforamtions

NAME	ADDRESS	CITY	PINCODE
Karthi	vinayagar street	chennai	600321
Roopak	munugar street	padur	603012
Mohith	123,xxx	Nat	620617
Aathithya	Xyz	ZZZ	453678
Annamalai	NO:20/A MADURAIVEERAN KOVIL ST HANUMANTHAPUTHERI	CHENGALPATTU	603001

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SIGNIN

Username

Enter Username

Password

Enter Password

Login

Forgot [password?](#)