

Assignment -2
Python-flask Programming

Assignment Date	19 September 2022
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Student Roll Number	19ITR071
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:

```
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()
    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:
            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>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">
    <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>
<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">
              <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="dropdown"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>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"required/>
        </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 %}
<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"required/>
            </div>
            <divclass="my-2 mx-4">
                <labelfor="phone">phone</label>
                <inputtype="text"class="form-
control"placeholder="0987654321"name="phone"required/>
            </div>
            <divclass="my-2 mx-4">
                <labelfor="password">password</label>

```

```

        <inputtype="password"class="form-
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/>
    </div>
    <inputtype="submit"value="submit"class="btnbtn-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%}
<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

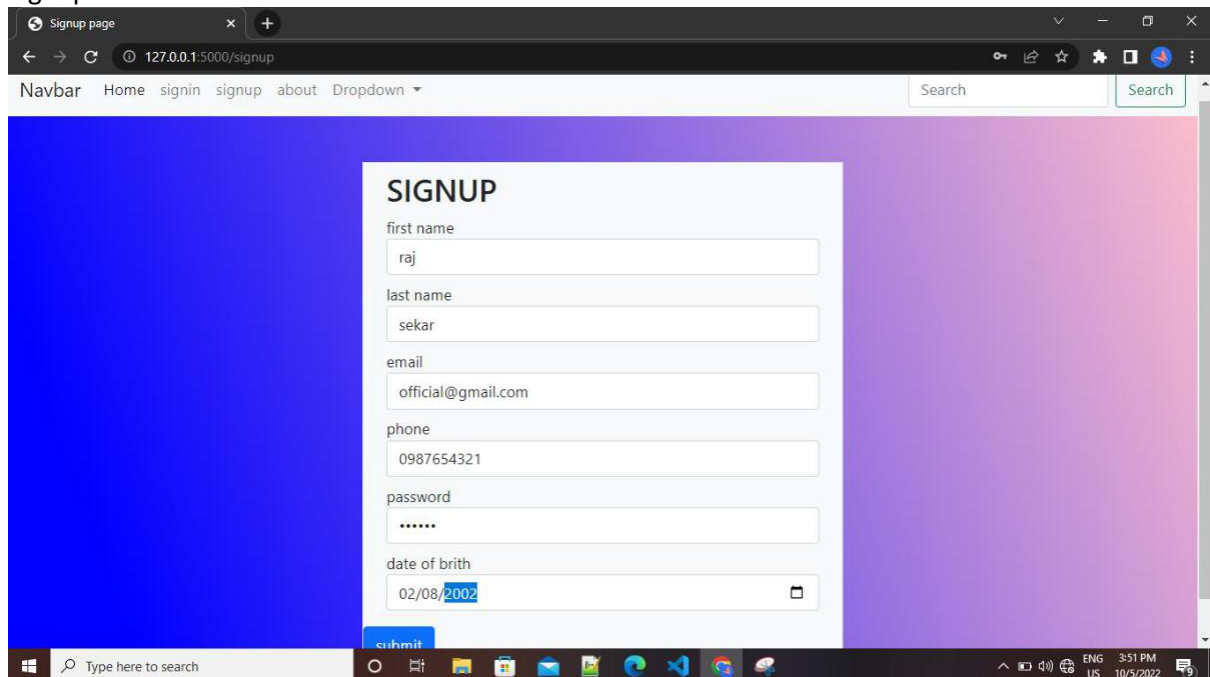
conn =sqlite3.connect('user_base.db')
print('successfully database opened')

```

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

output:

Signup:



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/signup". The page has a navigation bar with links: "Navbar", "Home", "signin", "signup", "about", and a "Dropdown" menu. A search bar is located in the top right corner. The main content area features a "SIGNUP" form with the following fields: "first name" (filled with "raj"), "last name" (filled with "sekar"), "email" (filled with "official@gmail.com"), "phone" (filled with "0987654321"), "password" (filled with "*****"), and "date of birth" (filled with "02/08/2002"). A blue "submit" button is at the bottom left of the form. The background of the page is a gradient of blue and purple.

Sign in:

Signin page

127.0.0.1:5000/signin

Navbar Home signin signup about Dropdown

Search Search

SINGIN

Email

abc@gmail.com

password

↓

submit

Type here to search

ENG US 3:49 PM 10/3/2022

About:

about page

127.0.0.1:5000/about

Navbar Home signin signup about Dropdown

Search Search

About page

this flask app is developed for basic understandign of python-flask

click [signup](#) and [signin](#) in the nav bar

Type here to search

ENG US 3:51 PM 10/3/2022