

Assignment -2
Python-flask Programming

Assignment Date	19 September 2022
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Student Roll Number	19ITR092
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 as sql

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

@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()
    return render_template('index.html', users=users)

@app.route('/about')
defabout():
    return render_template('about.html')

@app.route('/signin')
defsignin():
    return render_template('signin.html')

@app.route('/signup')
defsignup():
    return render_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 understanding 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')}}"-->
    </head>
    <body>

```

```

</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

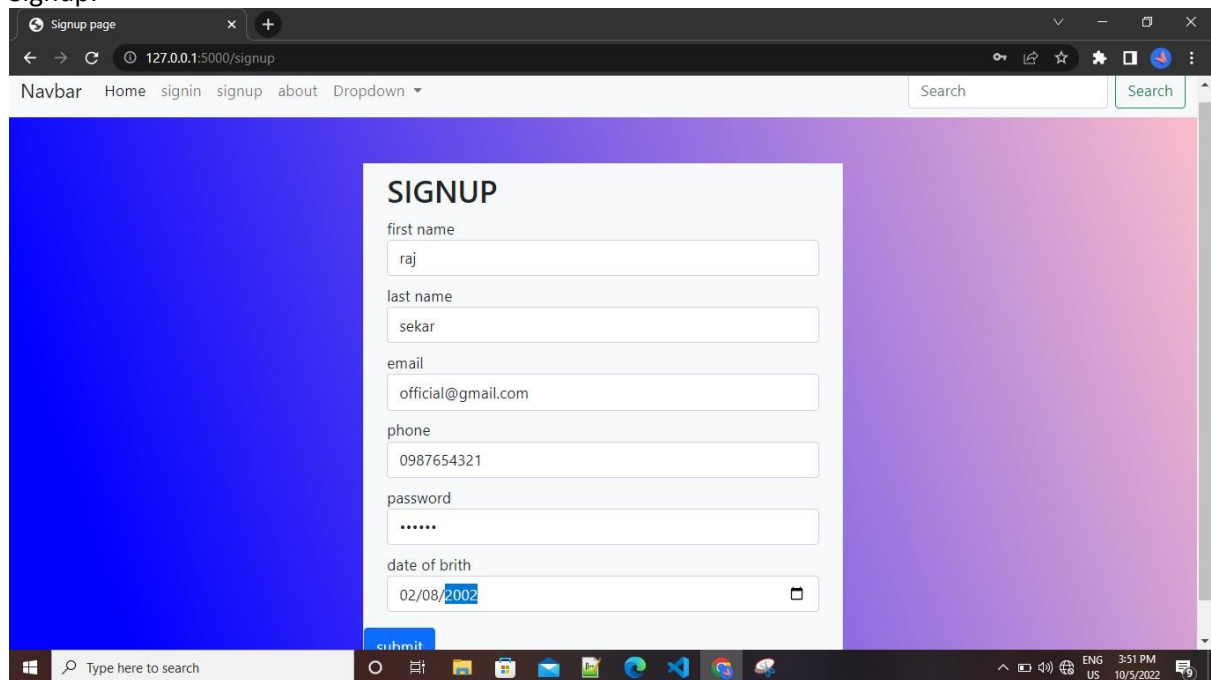
conn =sqlite3.connect('user_base.db')
print('successfully database opened')

```

```
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 title "Signup page". The address bar displays "127.0.0.1:5000/signup". The page features a navigation bar with links: "Navbar", "Home", "signin", "signup", "about", and a "Dropdown" menu. A search bar is located on the right side of the navbar. The main content area has a blue and purple gradient background. In the center, there is a white box titled "SIGNUP" containing a form with the following fields: "first name" (value: raj), "last name" (value: sekar), "email" (value: official@gmail.com), "phone" (value: 0987654321), "password" (value:), and "date of birth" (value: 02/08/2002). A blue "submit" button is positioned below the form. The Windows taskbar is visible at the bottom, showing the search bar and various application icons. The system clock in the bottom right corner indicates the time is 3:51 PM on 10/5/2022.

Sign in:

Signin page

127.0.0.1:5000/signin

Navbar Home signin signup about Dropdown

Search Search

SINGIN

Email
abc@gmail.com

password
1

submit

Type here to search

ENG US 3:49 PM 10/5/2022

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 10/5/2022