

Assignment -2

Python-flask Programming

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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

defsignin():
    returnrender_template('signin.html')app=Flask(__name__)
app.secret_key = 'zxyuhg'

@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')

@app.route('/signup')
defsingup():
```

```

        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>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

```

<!DOCTYPEhtml>
<htmllang="en">
  <head>
    <metacharset="utf-8">
    <metaname="viewport"content="width=device-width, initial-scale=1">
<linkhref="https://cdn.jsdelivrivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min
.css"rel="stylesheet"integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfspd3yD65VohhpuuCOmLASjC"crossorigin="
anonymous">
<scriptsrc="https://cdn.jsdelivrivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bun
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-
bstoggle="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">
                    <a class="nav-link active" aria-current="page" href="/">Home</a>
</li>
                <liclass="nav-item">
                    <a class="nav-link" href="/signin">signin</a>
                </li>
                <liclass="nav-item">
                    <a class="nav-link" href="/signup">signup</a>
                </li>
                <liclass="nav-item">
                    <a class="nav-link" href="/about">about</a>
                </li>
                <liclass="nav-item dropdown">
<a class="nav-link dropdown-
toggle" href="#" id="navbarDropdown" role="button" data-bs-
toggle="dropdown" ariaexpanded="false">
                    Dropdown
                </a>
                <ulclass="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><hrclass="dropdown-divider"></li>
                    <li><a class="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="btn btn-
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="formcontrol"
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
mt2"/>

    </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

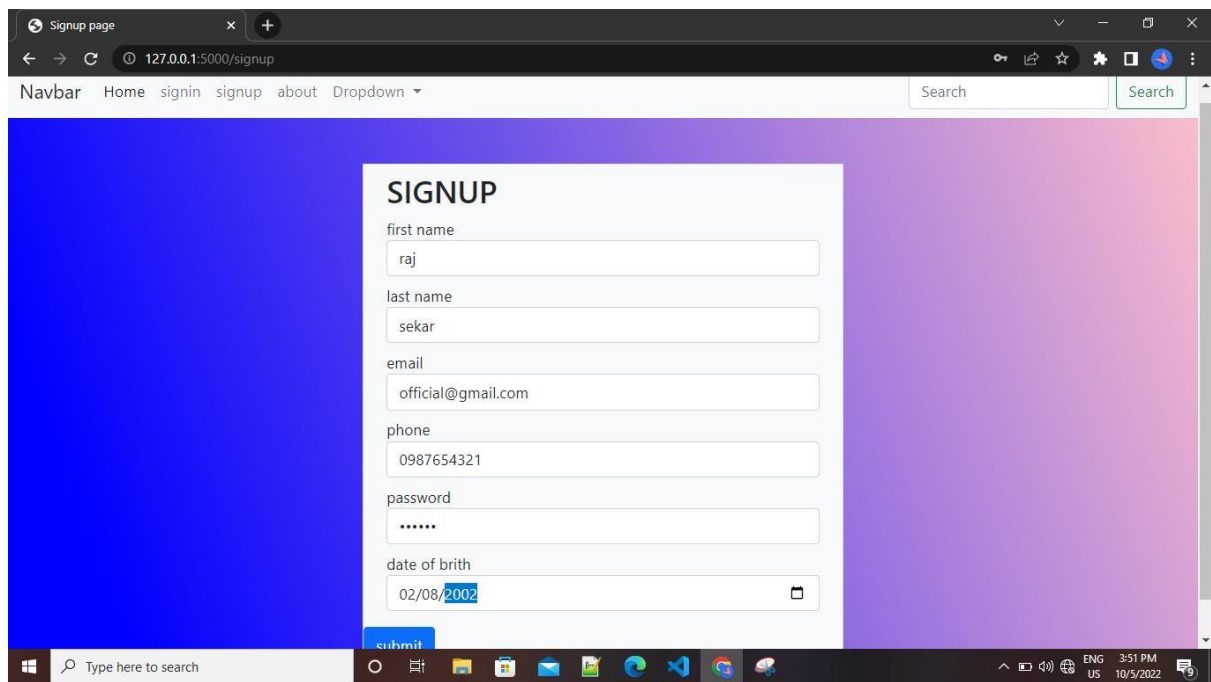
conn =sqlite3.connect('user_base.db') print('successfully
database opened')

conn.execute(' CREATE TABLE user(firstname TEXT, lastname TEXT, email TEXT,
phone TEXT, password TEXT, dob TEXT );')

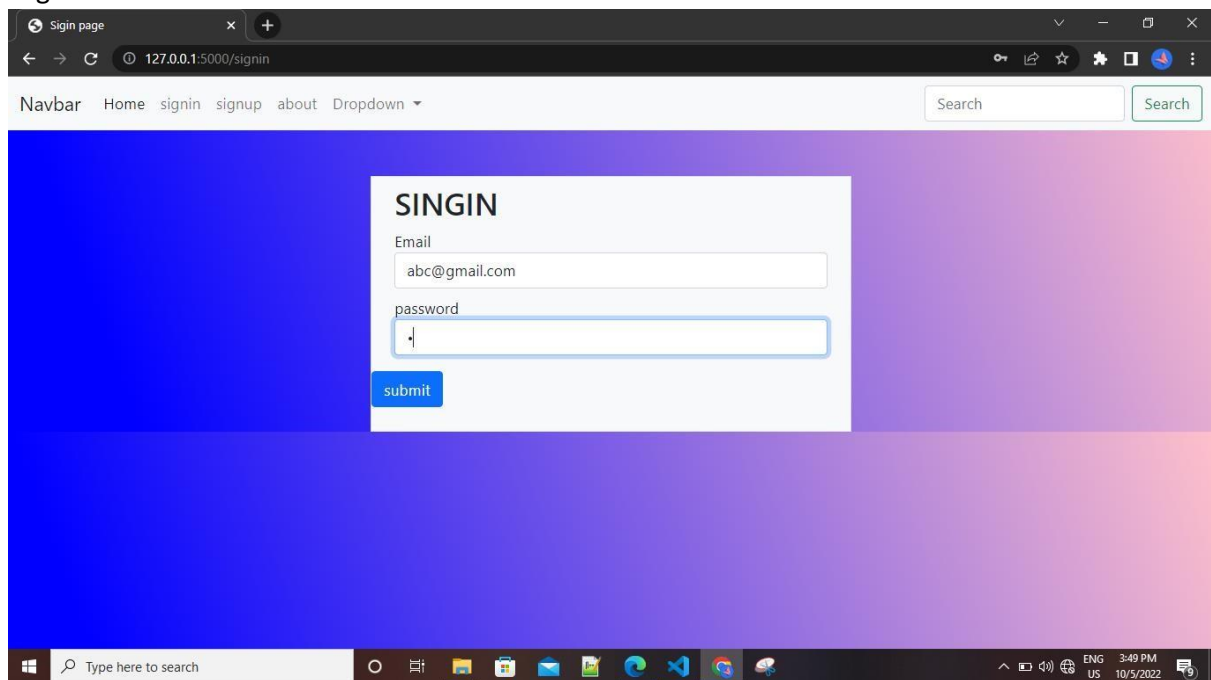
print("table created")
conn.close()
```

output:

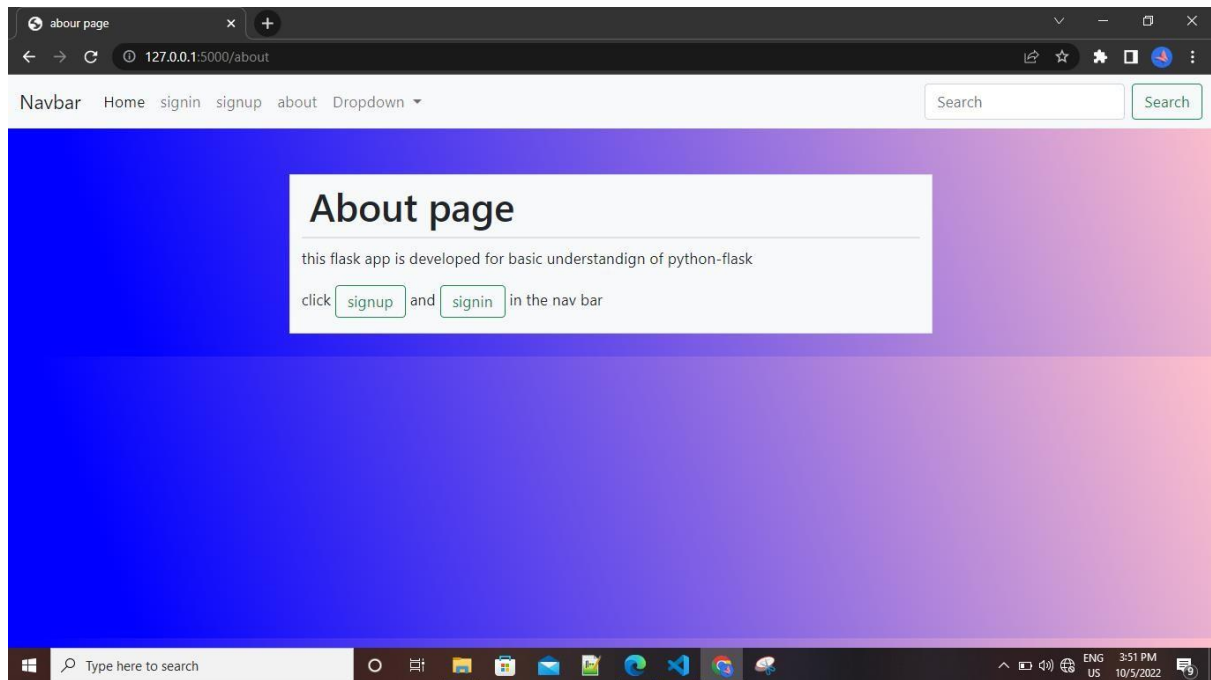
Signup:



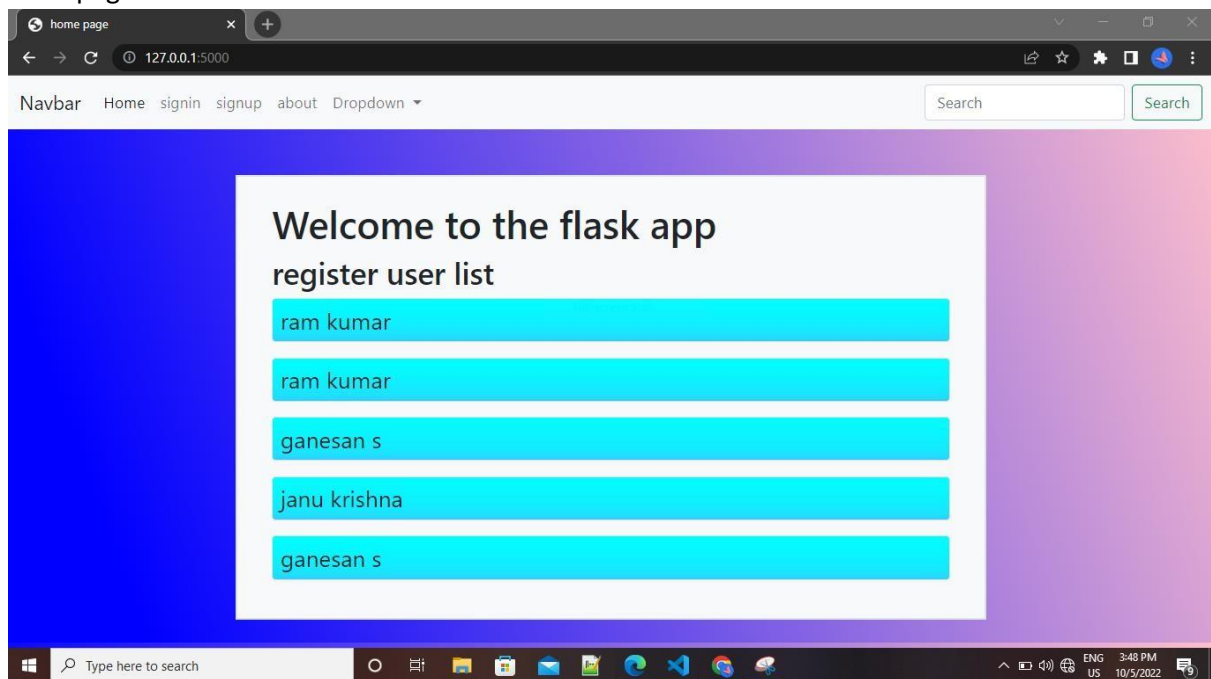
Singin:



About:



Home page:



Database connectivity:

