

Assignment -2

FLASK APPLICATION PROGRAMING

Assignment Date	08 November 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 = 'zxyuhg'

@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')
defsignup():
    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()
        returnrender_template("user_info.html", user=user[0])

@app.route('/accessbackend', methods=['POST','GET'])
defaccessbackend():
    ifrequest.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-MrcW6ZMFYIzclA8NI+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 %}
<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"r
equired/>
      </div>
      <divclass="my-2 mx-4">
        <labelfor="password">password</label>
        <inputtype="password"class="form-control"
name="password"required/>
      </div>
      <inputtype="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%}<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"require
d/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="email">email</label>

<inputtype="text"class="form-control"placeholder="abc@gmail.com"name="email"re
quired/>
        </div>
        <divclass="my-2 mx-4">
            <labelfor="phone">phone</label>

<inputtype="text"class="form-control"placeholder="0987654321"name="phone"requi
red/>
        </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="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%}
<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 birth:{{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:

Signup page

127.0.0.1:5000/signup

Navbar Home signin signup about Dropdown

Search

Search

SIGNUP

first name

raj

last name

sekar

email

official@gmail.com

phone

0987654321

password

date of brith

02/08/2002

submit

Type here to search

Taskbar icons

ENG US 3:51 PM 10/5/2022

Singin:pagdsfsdsfsda

The screenshot shows a web browser window with the title "Signin page". The address bar displays "127.0.0.1:5000/signin". The page features 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 has a blue and purple gradient background. A white box in the center contains the "SINGIN" heading, an "Email" input field with "abc@gmail.com", a "password" input field with a single character, and a blue "submit" button.

Signin page

127.0.0.1:5000/signin

Navbar Home signin signup about Dropdown

Search Search

SINGIN

Email
abc@gmail.com

password
a

submit

About:

The screenshot shows a web browser window with the title "about page". The address bar displays "127.0.0.1:5000/about". The page features 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 has a blue and purple gradient background. A white box in the center contains the "About page" heading, a paragraph stating "this flask app is developed for basic understandign of python-flask", and a sentence "click signup and signin in the nav bar" with "signup" and "signin" highlighted in green boxes.

about page

127.0.0.1:5000/about

Navbar Home signin signup about Dropdown

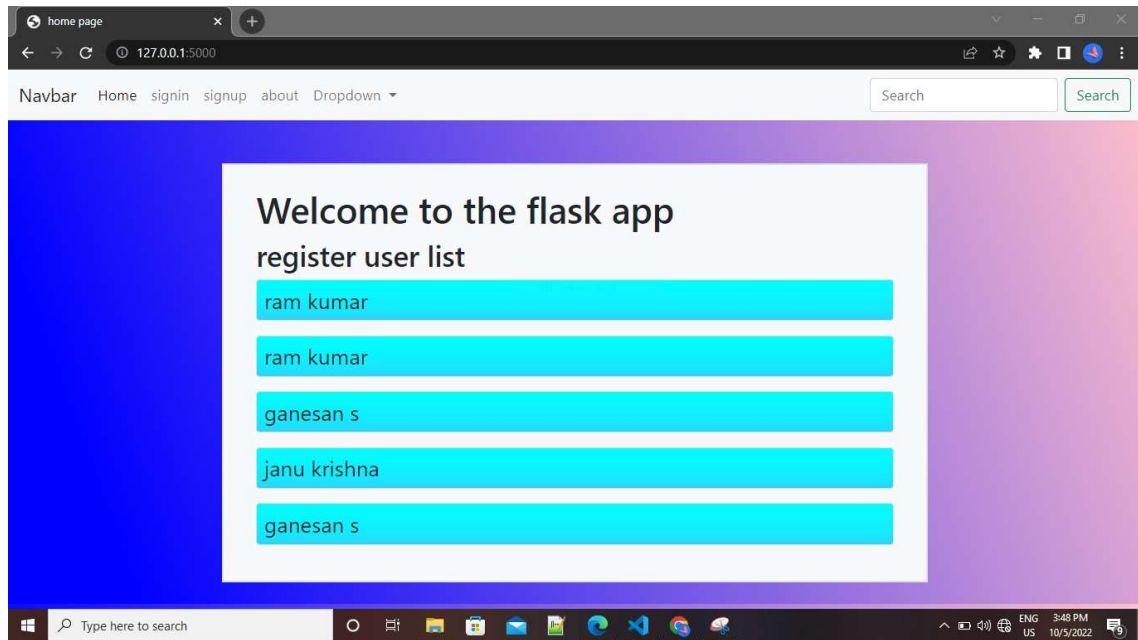
Search Search

About page

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

click **signup** and **signin** in the nav bar

Home page:



Database connectivity:

