

**Assignment -2**  
Python-flask Programming

Assignment Date	19 September 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
='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']
        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
py1">signup</a></strong> and <strong><a href="/signin" class=" btn btn-
outlinesuccess 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">
  </head>
  <link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
    rel="stylesheet" integrity="sha384-
    EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
    crossorigin="anonymous">
  </link>
  <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>
<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-
bstoggle="collapse" data-bs-target="#navbarSupportedContent"
ariacontrols="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"
ariaexpanded="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
here</a></li>
                        </ul>
                    </li>
                </ul>
            </div>
        </div>
    </nav>

```

```

        <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%}
<main class="container mx-auto my-4 bg-light border border-2" style="width:
70%;">
<div class="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>Sigin page</title>
{% endblock%}

{%block body%}

```

```

<main class="container">
  <div class="mx-auto mt-5 border bg-light" style="width:500px;">
    <h2 class='mx-4 mt-2'>SINGIN</h2>
    <form action="{{url_for('accessbackend')}}" method="get">
      <div class="my-2 mx-4">
        <label for="email">Email</label> <input type="email"
class="form-control" placeholder="adc@gmail.com" name="email" required />
      </div>
      <div class="my-2 mx-4">
        <label for="password">password</label>
        <input type="password" class="form-control" name="password"
required />
      </div>
      <input type="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%}<main class="container">
  <div class="mx-auto mt-5 border bg-light" style="width: 500px;">
    <h2 class="mx-4 mt-2">SIGNUP</h2>
    <form action="{{url_for('accessbackend')}}" method="post">
      <div class="my-2 mx-4">
        <label for="firstname">first name</label>
        <input type="text" class="form-control" placeholder="Ram"
name="firstname" required/>
      </div>
      <div class="my-2 mx-4">
        <label for="lastname">last name</label>
        <input type="text" class="form-control" placeholder="kumar"
name="lastname" required/>
      </div>
      <div class="my-2 mx-4">
        <label for="email">email</label>
<input type="text" class="form-control"
placeholder="abc@gmail.com" name="email" required/>
      </div>

      <div class="my-2 mx-4">
        <label for="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 brith</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>

</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:

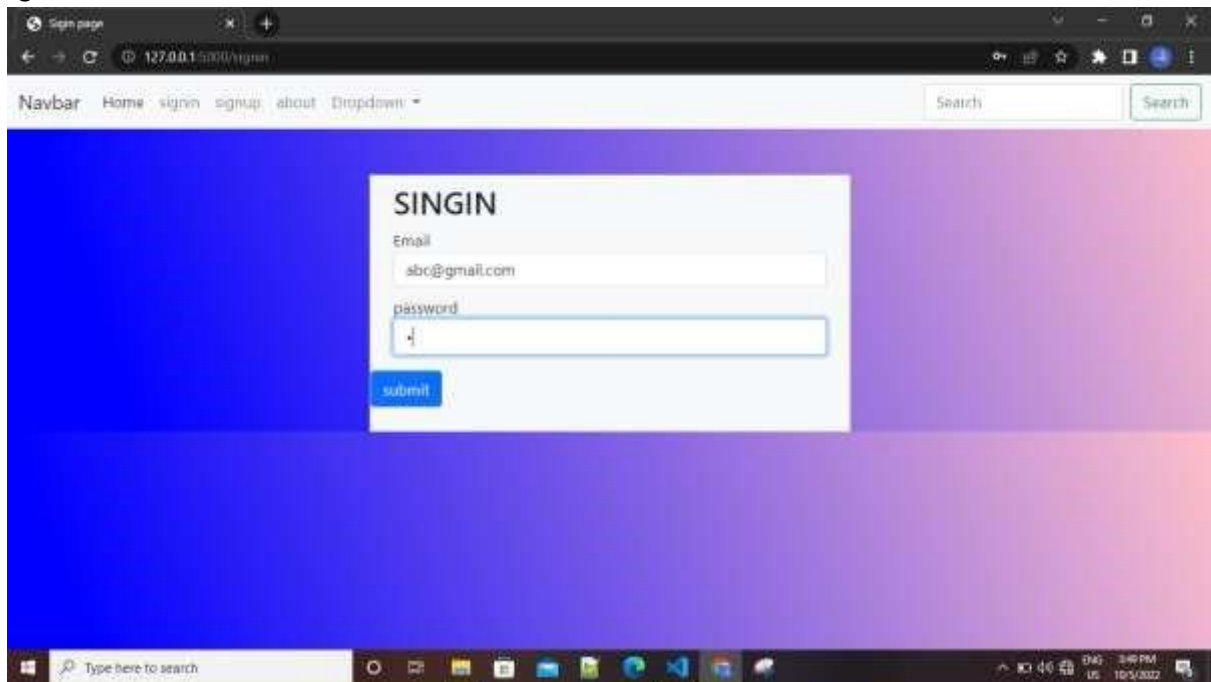
Signup:

The screenshot displays a web browser window with the address bar showing '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 in the top right corner. The main content area has a blue and purple gradient background. A white 'SIGNUP' form is centered, containing the following fields and values:

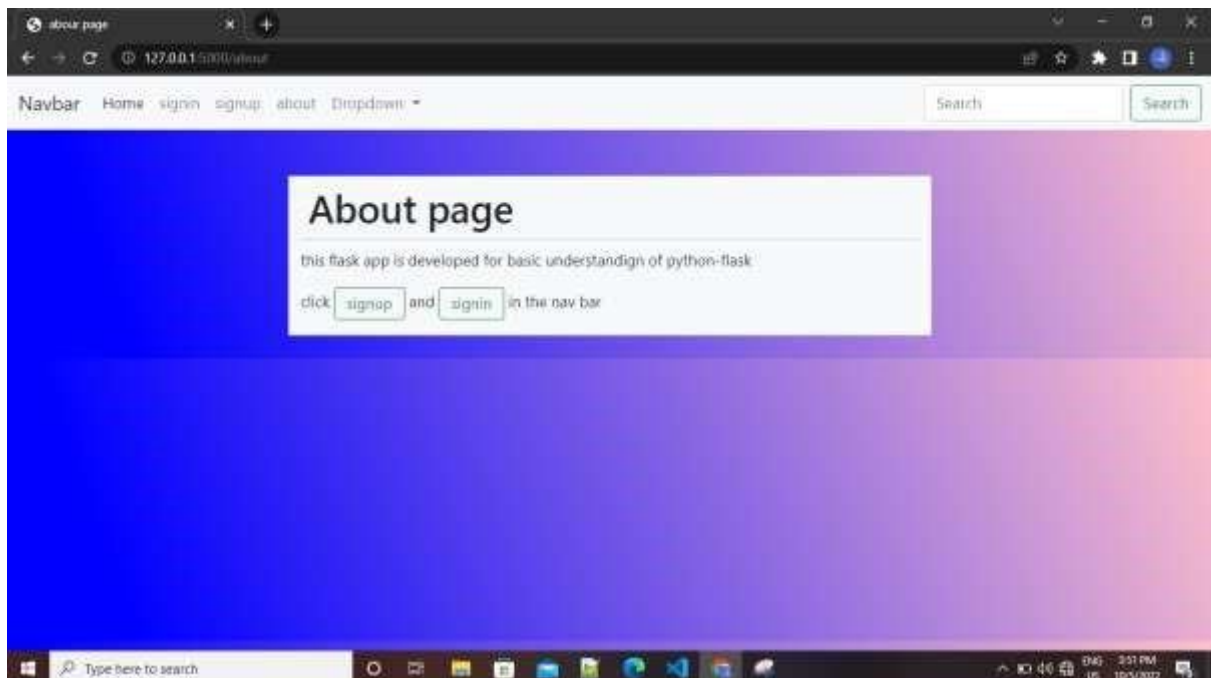
- first name: raj
- last name: sekar
- email: official@gmail.com
- phone: 0987654321
- password: \*\*\*\*\*
- date of birth: 02/08/2002

The Windows taskbar is visible at the bottom of the screen.

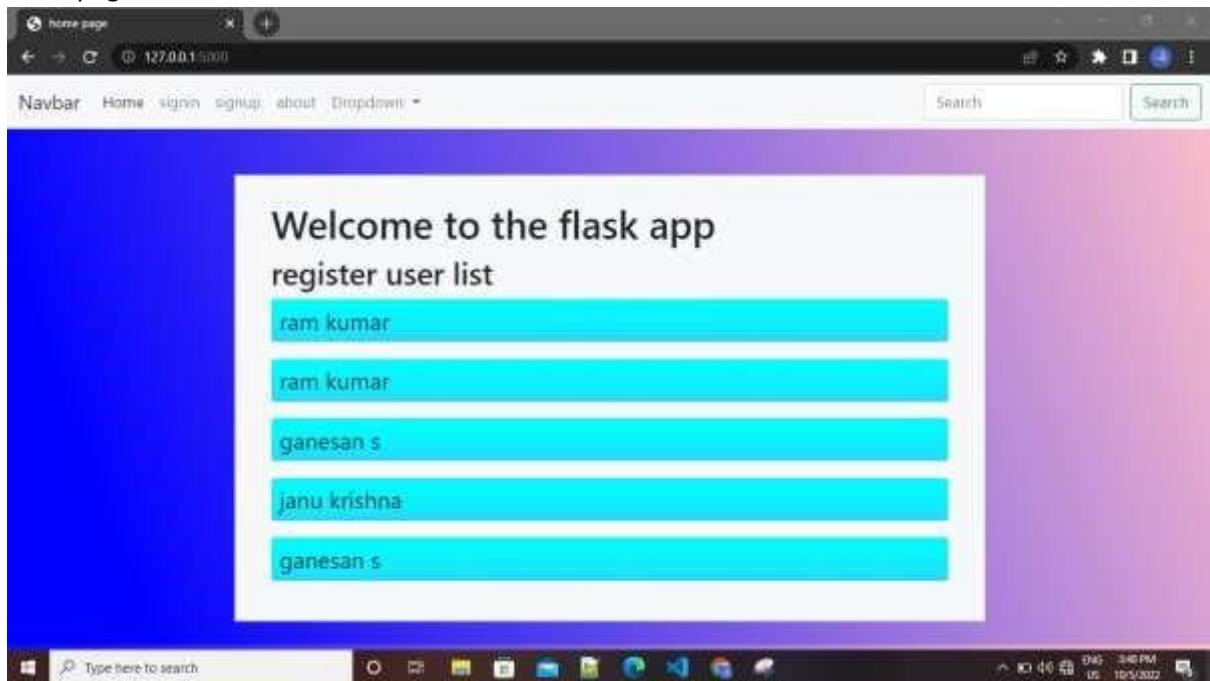
Sign in:



About:



Home page:



Database connectivity:

