

**Assignment -2**  
Python-flask Programming

Assignment Date	19 September 2022
Student Name	Sumithra S
Student Roll Number	19ITR110
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('/')
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):
```

```

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-MrcW6ZMFYIzcla8NI+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">
                    <lii class="nav-item">
                        <aclass="nav-link active"aria-current="page"href="/">Home</a>
                    </lii>
                    <lii class="nav-item">
                        <aclass="nav-link"href="/signin">signin</a>
                    </lii>
                    <lii class="nav-item">
                        <aclass="nav-link"href="/signup">signup</a>
                    </lii>
                    <lii class="nav-item">
                        <aclass="nav-link"href="/about">about</a>
                    </lii>
                    <lii class="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">
                            <lii><aclass="dropdown-item"href="#">Action</a></lii>
                            <lii><aclass="dropdown-item"href="#">Another action</a></lii>
                            <lii><hrclass="dropdown-divider"></lii>
                            <lii><aclass="dropdown-item"href="#">Something else
here</a></lii>
                        </ul>
                    </lii>
                </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'>SINGIN</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>

```

```

        <input type="password" class="form-control" placeholder="password" name="password" required />
    </div>
    <div class="my-2 mx-4">
        <label for="dob">date of birth</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 birth: {{ user[5] }}</span>

    </div>

</div></main>
{% endblock %}

```

Database setup:

```

import sqlite3

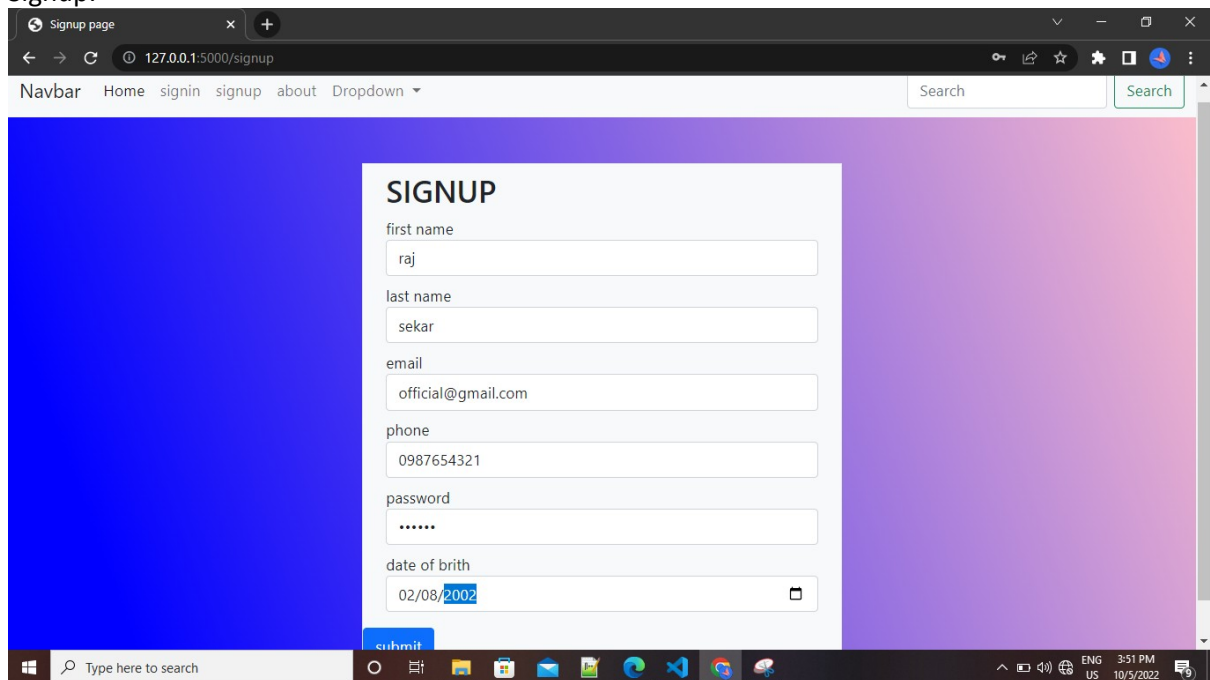
conn = sqlite3.connect('user_base.db')
print('successfully database opened')

```

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

output:

Signup:



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. A white "SIGNUP" form is centered on the page. The form contains 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 located at the bottom of the form. The Windows taskbar is visible at the bottom of the screen, showing the search bar and various application icons. The system tray on the right indicates the language is "ENG US", the time is "3:51 PM", and the date is "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