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**Day-8**

**Using python flask, create view Page**

**-In the view, retrieve the list of users from SQL (sqlite3)**

**-Display in the html table**

setup flask virtual environment

python -m venv project

activate script

project\Scripts\activate

**main.py**

from flask import Flask,jsonify,render\_template,url\_for,request,redirect

import sqlite3

app=Flask(\_\_name\_\_)

@app.route('/')

def my\_index():

return 'Hello page to welcome'

@app.route('/my\_json')

def ret\_json():

data={"name":"alan","Age":22,"city":"chennai"}

return jsonify(data)

```
@app.route('/my_page/<nam>')

def ret_page(nam):

    return render_template('mypage.html',name=nam)
```

```
@app.route('/result')

def result():

    dict={'phy':50,'che':90,'math':60}

    return render_template('result.html',result=dict)
```

```
@app.route('/success/<name>')

def success(name):

    return 'welcome %s' %name
```

```
@app.route('/signin')

def signin():

    return render_template('login.html')
```

```
@app.route('/users')

def ret_user():

    with sqlite3.connect("user.db")as conn:

        cur=conn.cursor()

        cur.execute("select Name,Role from user")

        rows = cur.fetchall()

    return render_template('table.html', users=rows)
```

```
@app.route('/login',methods=['POST','GET'])
```

```

def login():
    if request.method == 'POST':
        user=request.form['nm']
        password=request.form['pass']
        if password=='12345':
            with sqlite3.connect("user.db")as conn:
                cur=conn.cursor()
                cur.execute("insert into user(name,role) values(?,?)",(user,'developer'))
                conn.commit()
                return redirect(url_for('success',name=user))
        return redirect(url_for('signin'))

if __name__ == '__main__':
    app.run(debug=True)

```

### templates/login.html

```

<!DOCTYPE html>

<html>

<head>

    <title>Login Form</title>

    <style>

        body {

            background-color: #f2f2f2;

            font-family: Arial, sans-serif;

        }

        .login-container {

```

```
    width: 350px;

    margin: 100px auto;

    padding: 30px 25px;

    background-color: #fff;

    box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);

    border-radius: 8px;
}

.login-container h2 {

    text-align: center;

    margin-bottom: 20px;

    color: #333;
}

.login-container label {

    font-weight: bold;

    display: block;

    margin-bottom: 5px;
}

.login-container input[type="text"],
.login-container input[type="password"] {

    width: 100%;

    padding: 10px;

    margin-bottom: 15px;

    border: 1px solid #ccc;

    border-radius: 4px;

    box-sizing: border-box;
}
```

```
.login-container input[type="submit"] {  
    width: 100%;  
    padding: 10px;  
    background-color: #4CAF50;  
    border: none;  
    color: white;  
    font-weight: bold;  
    cursor: pointer;  
    border-radius: 4px;  
}
```

```
.login-container input[type="submit"]:hover {  
    background-color: #45a049;  
}
```

```
.login-container p {  
    margin: 0;  
}
```

</style>

</head>

<body>

<div class="login-container">

<h2>Login</h2>

<form action="http://localhost:5000/login" method="post">

<label for="nm">Enter Name:</label>

<input type="text" id="nm" name="nm" required>

```
<label for="pass">Enter Password:</label>

<input type="password" id="pass" name="pass" required>

<input type="submit" value="Submit">

</form>

</div>

</body>

</html>
```

### **templates/mypage.html**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Welcome to {{ name }}</title>

    <style>

        body {

            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

            margin: 0;

            padding: 0;

            background: #f4f4f4;

            color: #333;

        }

        header {

            background-color: #4CAF50;

            color: white;
```

```
padding: 20px 0;

text-align: center;
}

main {

    max-width: 800px;

    margin: 40px auto;

    background: white;

    padding: 30px;

    border-radius: 8px;

    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
}

ul {

    list-style: none;

    padding: 0;

    display: flex;

    justify-content: space-around;

    background-color: #eee;

    margin: 30px 0;

    border-radius: 4px;
}

ul li {

    padding: 12px 20px;

    transition: background 0.3s;

    cursor: pointer;
}

ul li:hover {
```

```
        background-color: #ddd;
    }
    p {
        font-size: 1.1em;
        line-height: 1.6;
    }
</style>
</head>
<body>
    <header>
        <h1>Welcome to {{ name }}</h1>
    </header>
    <main>
        <p>This is a simple HTML page with a clean design.</p>
        <ul>
            <li>Home</li>
            <li>About</li>
            <li>Contact</li>
        </ul>
        <p>Thank you for visiting!</p>
    </main>
</body>
</html>
```

**template/result.html**

```
<!DOCTYPE html>
```



```
<html>
```

```
<head>
```

```
  <title>Results Table</title>
```

```
  <style>
```

```
    table {
```

```
      border-collapse: collapse;
```

```
      width: 60%;
```

```
      margin: 20px auto;
```

```
      font-family: Arial, sans-serif;
```

```
    }
```

```
    th {
```

```
      border: 1px solid #444;
```

```
      padding: 10px;
```

```
      text-align: left;
```

```
      background-color: #f2f2f2;
```

```
      color: #333;
```

```
    }
```

```
    tr:nth-child(even) th {
```

```
      background-color: #e9e9e9;
```

```
    }
```

```
  </style>
```

```
</head>
```

```
<body>
```

```
  <table>
```

```
    {% for key, value in result.items() %}
```

```
      {% if value>60 %}
```

```
        <tr>

            <th>{{ key }}</th>

            <th>{{ value }}</th>

        </tr>

    {% endif %}

{% endfor %}

</table>

</body>

</html>
```

#### **templates/table.html**

```
<!DOCTYPE html>

<html>

<head>

    <title>User Table</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background: #f9f9f9;

            padding: 40px;

        }

        h1 {

            text-align: center;

            color: #333;

        }

        table {
```

```
border-collapse: collapse;

width: 70%;

margin: 0 auto;

background-color: #fff;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

th, td {

padding: 12px 20px;

text-align: left;

border-bottom: 1px solid #ddd;
}

th {

background-color: #4CAF50;

color: white;
}

tr:hover {

background-color: #f1f1f1;
}

caption {

caption-side: top;

text-align: center;

padding: 10px;

font-size: 1.5em;

color: #333;
}

</style>
```

```
</head>

<body>

  <h1>User List</h1>

  <table>

    <caption>Registered Users</caption>

    <tr>

      <th>Name</th>

      <th>Role</th>

    </tr>

    {% for user in users %}

    <tr>

      <td>{{ user[0] }}</td>  <!-- Name -->

      <td>{{ user[1] }}</td>  <!-- Role -->

    </tr>

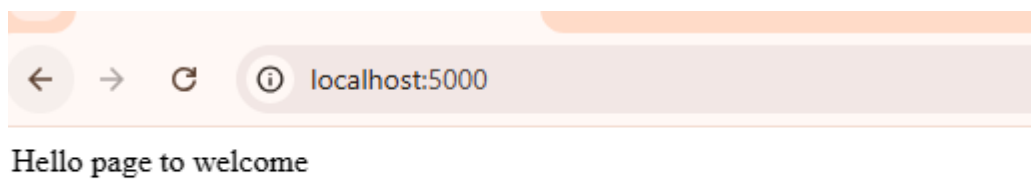
    {% endfor %}

  </table>

</body>

</html>
```

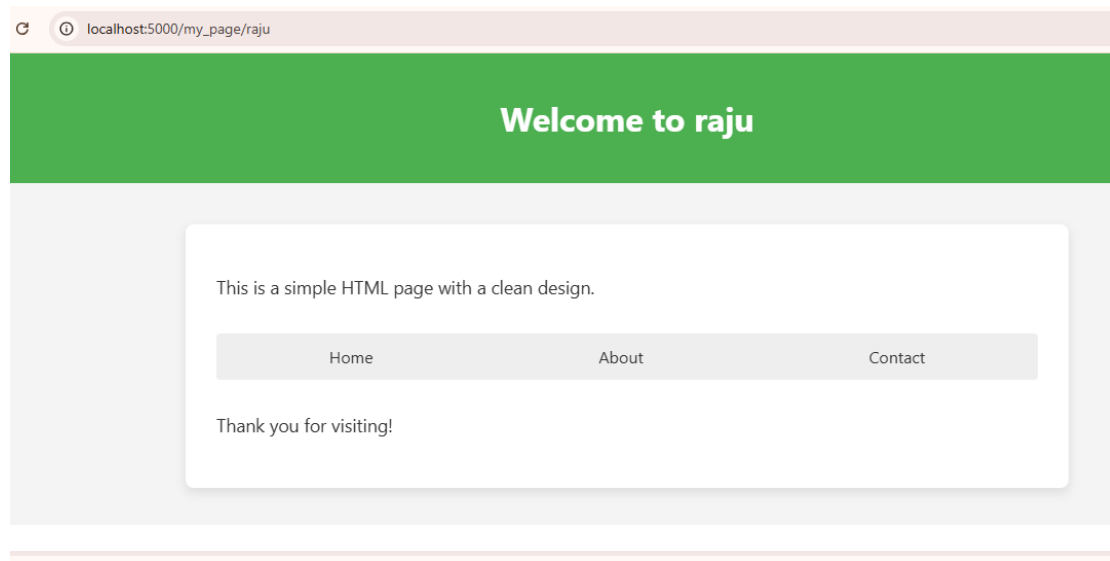
**output:**



← → ↻ ⓘ localhost:5000/my\_json

Pretty-print ☐

```
{
  "Age": 22,
  "city": "chennai",
  "name": "alan"
}
```



phy	50
che	90
math	60

## Login

Enter Name:

Enter Password:

Submit

localhost:5000/success/sathish

welcome sathish

## User List

Registered Users

Name	Role
raju	developer
ramesh	developer
raghul	developer
raja	developer
sathish	developer

