

ASSIGNMENT - 2

Assignment Date	01 October 2022
Student Name	Vinoth R
Student Roll Number	311619104083
Maximum Marks	2 Marks

Question-1:

Create a Flask App

```
app.py
S: > Project_1 > Assignments > Team Leader > Assignment 2 > flask-app > app.py > signin
1 from flask import Flask, render_template, request, redirect, url_for, flash
2 import sqlite3
3 app = Flask(__name__)
4 app.secret_key = "69420"
5 def init_db():
6     db = sqlite3.connect('users.db')
7     with open('schema.sql', 'r') as schema:
8         db.executescript(schema.read())
9     db.commit()
10 @app.cli.command('initdb')
11 def initdb_cmd():
12     init_db()
13     print("Initialised database.")
14 def get_db():
15     conn = sqlite3.connect('users.db')
16     conn.row_factory = sqlite3.Row
17     return conn
18 @app.route('/')
19 def index():
20     return render_template('index.html', title='Home')
21 @app.route('/about')
22 def about():
23     return render_template('about.html', title='About')
24 @app.route('/signin', methods=('GET', 'POST'))
25 def signin():
26     error = None
27     if request.method == 'POST':
28         username = request.form['username']
29         password = request.form['password']
30         db = get_db()
31         user = db.execute(
32             'SELECT password FROM users WHERE username = ?', (username, )
33         ).fetchone()
34         if user is None:
35             error = 'Incorrect Username/Password.'
36         elif password != user['password']:
37             print(user)
38             error = 'Incorrect Password.'
39         if error is None:
40             return redirect(url_for('about'))
41         flash(error)
42         db.close()
43     return render_template('signin.html', title='Sign In', error=error)
44 @app.route('/signup', methods=('POST', 'GET'))
45 def signup():
46     if request.method == 'POST':
47         username = request.form['username']
48         password = request.form['password']
49         email = request.form['email']
50         name = request.form['name']
51         db = get_db()
52         curr = db.cursor()
53         curr.execute(
54             'INSERT INTO users (username, password, email, name) VALUES (?, ?, ?, ?);', (username, password, email, name)
55         )
56         db.commit()
57         curr.close()
58         db.close()
59         return render_template('index.html', title="Home", succ="Registration Successfull!")
60     return render_template('signup.html', title='Sign Up')
61 if __name__ == '__main__':
62     app.run(debug = True)
```

Question-2:

Add the Home page, About Page

Home page

```
about.html  signin.html  signup.html  base.html X  app.py
S: > Project_1 > Assignments > Team Leader > Assignment 2 > flask-app > templates > base.html
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta http-equiv="X-UA-Compatible" content="If=edge">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>{% block title %}{% endblock title %}</title>
9      <link rel="stylesheet" href="/static/style.css">
10     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet"
11         integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tVa11gyVh/UjpbCx/TYkiZhlZB6+fzT" crossorigin="anonymous">
12 </head>
13
14 <body>
15     <div id="content">
16         <nav class="navbar navbar-dark navbar-expand-lg bg-dark">
17             <div class="container-fluid">
18                 <a class="navbar-brand" href="#">flask-app</a>
19                 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavAltMarkup"
20                     aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
21                     <span class="navbar-toggler-icon"></span>
22                 </button>
23                 <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
24                     <div class="navbar-nav">
25                         <a class="nav-link active" aria-current="page" href="/">Home</a>
26                         <a class="nav-link" href="signin">Sign In</a>
27                         <a class="nav-link" href="signup">Sign Up</a>
28                         <a class="nav-link" href="about">About</a>
29                     </div>
30                 </div>
31             </div>
32         </nav>
33         {% block content %}
34         {% endblock content %}
35     </div>
36     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"
37         integrity="sha384-u10knCvxwV5kfMNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvzbZIHgTP0OmMi466C8"
38         crossorigin="anonymous"></script>
39 </body>
40
41 </html>
```

About page

```
about.html • signin.html signup.html base.html app.py
about.html > ...
1 {% extends 'base.html' %}
2 {% block title %}
3 About
4 {% endblock title %}
5 {% block content %}
6 <div class="text-center">
7     <br>
8     <h1>About</h1>
9     <br>
10    <h1>Me!</h1>
11    <br>
12    <br>
13    <p>Hi, I'm <strong>VINOTH R</strong>, I like to code, watch animation movies and play computer games.
14    </p>
15    <br>
16 </div>
17 <div class="form">
18     <br>
19     <hr>
20     <br>
21     <h3>Education</h3>
22     <br>
23     <p>I am currently in final year of my college studying <strong>COMPUTER SCIENCE & ENGINEERING</strong>.</p>
24     <br>
25     <h3>Languages</h3>
26     <br>
27     <p>I can speak and write <strong>Tamil</strong> & <strong>English</strong> fluently.</p>
28     <p>As for programming languages, please take a look at the below information.</p>
29     <h5>Python</h5>
30     <div class="progress">
31         <div class="progress-bar bg-progress" role="progressbar" style="width: 90%" aria-valuenow="90" aria-valuemin="0"
32             aria-valuemax="100"></div>
33     </div>
34     <h5>C</h5>
35     <div class="progress">
36         <div class="progress-bar bg-dark" role="progressbar" style="width: 70%" aria-valuenow="70" aria-valuemin="0"
37             aria-valuemax="100"></div>
38     </div>
39     <h5>Java</h5>
40     <div class="progress">
41         <div class="progress-bar bg-warning" role="progressbar" style="width: 60%" aria-valuenow="60" aria-valuemin="0"
42             aria-valuemax="100"></div>
43     </div>
44     <h5>HTML</h5>
45     <div class="progress">
46         <div class="progress-bar bg-danger" role="progressbar" style="width: 80%" aria-valuenow="80" aria-valuemin="0"
47             aria-valuemax="100"></div>
48     </div>
49     <br>
```

Question-3:

Add the Bootstrap

```
1 <!-- Connect Bootstrap -->
2 <link
3     href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
4     rel="stylesheet"
5 />
```

Question-4:

Add the Sign in page and App the Signup Page + database connectivity

Sign-in page

```
about.html  signin.html X  signup.html  base.html  app.py
S: > Project_1 > Assignments > Team Leader > Assignment 2 > flask-app > templates > < signin.html
1  {% extends 'base.html' %}
2  {% block title %}
3  {{title}}
4  {% endblock title %}
5  {% block content %}
6  <br>
7  <div class="formuww">
8      <div class="form">
9          <form method="post">
10             <div class="form-group">
11                 <label for="exampleInputUsername">Username</label>
12                 <input type="text" class="form-control" name="username" id="username" aria-describedby="usernameHelp"
13                     placeholder="Enter Username">
14                 <small id="usernameHelp" class="form-text text-muted">We'll never share your username with anyone else.</small>
15             </div>
16             <div class="form-group">
17                 <label for="exampleInputPassword1">Password</label>
18                 <input type="password" class="form-control" name="password" id="password" placeholder="Password">
19             </div>
20             <br>
21             {% if error %}
22             <div class="alert alert-danger">
23                 {{error}}
24             </div>
25             {% endif %}
26             <button type="submit" class="btn btn-primary">Submit</button>
27         </form>
28     </div>
29 </div>
30
31 {% endblock content %}
```

Sign-up page

```
about.html  signin.html  signup.html X  base.html  app.py
S: > Project_1 > Assignments > Team Leader > Assignment 2 > flask-app > templates > < signup.html
1  {% extends 'base.html' %}
2  {% block title %}
3  {{title}}
4  {% endblock title %}
5  {% block content %}
6  <br>
7  <div class="formuww">
8      <div class="form" method="post">
9          <form method="post">
10             <div class="mb-3">
11                 <label for="" class="form-label">Name</label>
12                 <input type="text" class="form-control" name="name" id="name" aria-describedby="helpId"
13                     placeholder="please enter your name " required>
14                 <small id="helpId" class="form-text text-muted">Enter your name.</small>
15             </div>
16             <div class="mb-3">
17                 <label for="" class="form-label">Username</label>
18                 <input type="text" class="form-control" name="username" id="username" aria-describedby="helpId"
19                     placeholder="Your Username." required>
20                 <small id="helpId" class="form-text text-muted">We'll never share your username with anyone else.</small>
21             </div>
22             <div class="mb-3">
23                 <label for="" class="form-label">Email</label>
24                 <input type="email" class="form-control" name="email" id="email" aria-describedby="emailHelpId"
25                     placeholder="abc@mail.com" required>
26                 <small id="emailHelpId" class="form-text text-muted">Enter your email. Your data is secure!</small>
27             </div>
28             <div class="form-group">
29                 <label for="exampleInputPassword1">Password</label>
30                 <input type="password" class="form-control" name="password" id="password" placeholder="Password" required>
31             </div>
32             <br>
33             <button type="submit" class="btn btn-primary">Sign Up</button>
34         </form>
35     </div>
36 </div>
37
38 {% endblock content %}
```

Output

Name

Vinoth R

Enter your name.

Username

Your Username.

We'll never share your username with anyone else.

Please fill out this field.

Email

abc@mail.com

Enter your email. Your data is secure!

Password

Password

Sign Up

Name

Vinoth R

Enter your name.

Username

vinothr014

We'll never share your username with anyone else.

Email

vinothravichandran2@gmail.com

Enter your email. Your data is secure!

Password

Sign Up

Registration Successfull!

WELCOME TO MY SITE

Feel free to browse through the site.

This is a **flask-app** assignment.

was written by

VINOTH R

About

Me!

Hi, I'm **VINOTH R**, I like to code, watch animation movies and play computer games

Education

I am currently in final year of my college studying **COMPUTER SCIENCE & ENGINEERING**.

Languages

I can speak and write **Tamil & English** fluently.

As for programming languages, please take a look at the below information.

Python



C



Java



HTML

