

ASSIGNMENT 2

Assignment Date	01 October 2022
Student Name	Sanjay S
Student Roll Number	311619104060
Maximum Marks	2 Marks

Question-1:

Create a Flask App

```
app.py
C:\Users> admin > Desktop > PROJ > Project_1 > IBM-Project-32237-1660208722 > Assignments > M1 Lead > Assignment 2 > flask-app > app.py > signin

1  from flask import Flask, render_template, request, redirect, url_for, flash
2  import sqlite3
3
4
5  app = Flask(__name__)
6  app.secret_key = "69428"
7
8  def init_db():
9      db = sqlite3.connect('users.db')
10     with open('schema.sql', 'r') as schema:
11         db.executescript(schema.read())
12     db.commit()
13
14     @app.cli.command('initdb')
15     def initdb_cmd():
16         init_db()
17         print("Initialised database.")
18
19     def get_db():
20         conn = sqlite3.connect('users.db')
21         conn.row_factory = sqlite3.Row
22         return conn
23
24     @app.route('/')
25     def index():
26         return render_template('index.html', title='Home')
27
28
29     @app.route('/about')
30     def about():
31         return render_template('about.html', title='About')
32
33
34     @app.route('/signin', methods=('GET', 'POST'))
35     def signin():
36         error = None
37         if request.method == 'POST':
38             username = request.form['username']
39             password = request.form['password']
40             db = get_db()
41             user = db.execute(
42                 'SELECT password FROM users WHERE username = ?', (username, )
43             ).fetchone()
44
45             if user is None:
46                 error = 'Incorrect Username/Password.'
47             elif password != user['password']:
48                 print(user)
49                 error = 'Incorrect Password.'
50
51             if error is None:
52                 return redirect(url_for('about'))
53             flash(error)
54             db.close()
55
56         return render_template('signin.html', title='Sign In', error=error)
57
58
59
60     @app.route('/signup', methods=('POST', 'GET'))
61     def signup():
62         if request.method == 'POST':
63             username = request.form['username']
64             password = request.form['password']
65             email = request.form['email']
66             name = request.form['name']
67             db = get_db()
68             curr = db.cursor()
```

```

70     curr.execute(
71         'INSERT INTO users (username, password, email, name) VALUES (?, ?, ?, ?);', (username, password, email, name)
72     )
73     db.commit()
74     curr.close()
75     db.close()
76     return render_template('index.html', title="Home", succ="Registration Successful!")
77
78
79     return render_template('signup.html', title='Sign Up')
80
81 if __name__ == '__main__':
82     app.run(debug = True)
83

```

Question-2:

Add the Home page, About Page

Home page

```

app.py 1 • about.html base.html X
C: > Users > admin > Desktop > PROJ > Project_1 > IBM-Project-32237-166020872 > Assignments > M1 Lead > 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="IE=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-u10knCvxwVY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvZlHgTPOOmMi466C8"
38 crossorigin="anonymous"></script>
39 </body>
40
41 </html>

```

About page

```
app.py 1 base.html about.html
C:\Users\admin\Desktop\PROJ> Project_1\IBM-Project-32237-1660208722> Assignments> M1 Lead> Assignment 2> flask-app> templates> about.html> div.text-center
1 <div class="text-center">
2     <br>
3     <h1>About</h1>
4     <br>
5     <h1>Me!</h1>
6     <br>
7     <br>
8     <p>Hi, I'm <strong>SANJAY S</strong>, I like to code, watch movies and play computer games.
9     </p>
10    <br>
11 </div>
12 <div class="form">
13     <br>
14     <hr>
15     <br>
16     <h3>Education</h3>
17     <br>
18     <p>I am currently in final year of my college studying <strong>COMPUTER SCIENCE & ENGINEERING</strong>.</p>
19     <br>
20     <h3>Languages</h3>
21     <br>
22     <p>I can speak and write <strong>Tamil</strong> & <strong>English</strong> fluently.</p>
23     <p>As for programming languages, please take a look at the below information.</p>
24     <h5>Python</h5>
25     <div class="progress">
26         <div class="progress-bar bg-progress" role="progressbar" style="width: 90%" aria-valuenow="90" aria-valuemin="0"
27             aria-valuemax="100"></div>
28     </div>
29     <h5>C</h5>
30     <div class="progress">
31         <div class="progress-bar bg-dark" role="progressbar" style="width: 70%" aria-valuenow="70" aria-valuemin="0"
32             aria-valuemax="100"></div>
33     </div>
34     <h5>Java</h5>
35     <div class="progress">
36         <div class="progress-bar bg-warning" role="progressbar" style="width: 60%" aria-valuenow="60" aria-valuemin="0"
37             aria-valuemax="100"></div>
38     </div>
39     <h5>HTML</h5>
40     <div class="progress">
41         <div class="progress-bar bg-danger" role="progressbar" style="width: 80%" aria-valuenow="80" aria-valuemin="0"
42             aria-valuemax="100"></div>
43     </div>
44     <br>
45 </div>
46 <br>
47
48 <br>
49
```

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

```
app.py 1 ● base.html about.html ● signin.html ●
C: > Users > admin > Desktop > PROJ > Project_1 > IBM-Project-32237-1660208722 > Assignments > M1 Lead > Assignment 2 > flask-app > templates > ● signin.html > ...
1
2 <br>
3 <div class="formuwu">
4   <div class="form">
5     <form method="post">
6       <div class="form-group">
7         <label for="exampleInputUsername">Username</label>
8         <input type="text" class="form-control" name="username" id="username" aria-describedby="usernameHelp"
9           placeholder="Enter Username">
10        <small id="usernameHelp" class="form-text text-muted">We'll never share your username with anyone else.</small>
11      </div>
12      <div class="form-group">
13        <label for="exampleInputPassword1">Password</label>
14        <input type="password" class="form-control" name="password" id="password" placeholder="Password">
15      </div>
16      <br>
17      {% if error %}
18      <div class="alert alert-danger">
19        {{error}}
20      </div>
21      {% endif %}
22      <button type="submit" class="btn btn-primary">Submit</button>
23    </form>
24  </div>
25 </div>
26
```

Sign-up page

```
app.py 1 ● base.html about.html ● signin.html ● signup.html ●
C: > Users > admin > Desktop > PROJ > Project_1 > IBM-Project-32237-1660208722 > Assignments > M1 Lead > Assignment 2 > flask-app > templates > ● signup.html > ...
1
2 <br>
3 <div class="formuwu">
4   <div class="form" method="post">
5     <form method="post">
6       <div class="mb-3">
7         <label for="" class="form-label">Name</label>
8         <input type="text" class="form-control" name="name" id="name" aria-describedby="helpId"
9           placeholder="please enter your name " required>
10        <small id="helpId" class="form-text text-muted">Enter your name.</small>
11      </div>
12      <div class="mb-3">
13        <label for="" class="form-label">Username</label>
14        <input type="text" class="form-control" name="username" id="username" aria-describedby="helpId"
15          placeholder="Your Username." required>
16        <small id="helpId" class="form-text text-muted">We'll never share your username with anyone else.</small>
17      </div>
18      <div class="mb-3">
19        <label for="" class="form-label">Email</label>
20        <input type="email" class="form-control" name="email" id="email" aria-describedby="emailHelpId"
21          placeholder="abc@mail.com" required>
22        <small id="emailHelpId" class="form-text text-muted">Enter your email. Your data is secure!</small>
23      </div>
24      <div class="form-group">
25        <label for="exampleInputPassword1">Password</label>
26        <input type="password" class="form-control" name="password" id="password" placeholder="Password" required>
27      </div>
28      <br>
29      <button type="submit" class="btn btn-primary">Sign Up</button>
30    </form>
31  </div>
32 </div>
33
```

Output

flask-app

[Home](#) [Sign In](#) [Sign Up](#) [About](#)

WELCOME TO MY SITE

Feel free to browse through the site.

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

was written by

SANJAY S

flask-app

[Home](#) [Sign In](#) [Sign Up](#) [About](#)

About Me!

Hi, I'm **SANJAY S**, I like to code, watch 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	<div></div>
C	<div></div>
Java	<div></div>
HTML	<div></div>

flask-app

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Username

We'll never share your username with anyone else.

Password

Incorrect Password.

Submit

Username

sanjays13

We'll never share your username with anyone else.

Password

.....

Submit

Name

Sanjay S

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

Sanjay S

Enter your name.

Username

sanjays13

We'll never share your username with anyone else.

Email

sanjays.4060cse@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

SANJAY S

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