

Assignment 2
Python Programming

Assignment Date	24/09/2022
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Student Roll Number	512219104017
Maximum Marks	2 Marks

Question:

- 1.create a flask app.
- 2.Add home page, about page.
- 3.Add the bootstrap.
- 4.Add the sign-in page and app the sign-up page + database connectivity.

Solution:

App.py

```
from turtle import st from flask import Flask, render_template, request,
redirect, url_for, session from markupsafe import escape
import ibm_db conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=
0c77d6f2-5da9-48a9-81f8-
86b520b87518.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31198;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=jjb21184;PWD=0qXEvJbc6
J8Qdphs",'','') app = Flask(__name__)

@app.route('/') def
home():
    return render_template('home.html')
@app.route('/about') def
about():
    return render_template('about.html')

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

```

    return render_template('signin.html')

@app.route('/signup') def
signup():
    return render_template('signup.html')

@app.route('/addstudent')
def new_student():
    return render_template('add_student.html')

@app.route('/addrec', methods = ['POST',
'GET']) def addrec():    if request.method ==
'POST':
        name = request.form['name']
address = request.form['address']
city = request.form['city']    pin
= request.form['pin']
        sql = "SELECT * FROM students WHERE name
=?"    stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,name)
ibm_db.execute(stmt)    account =
ibm_db.fetch_assoc(stmt)
        if
account:
            return render_template('list.html', msg="You are already a
member, please login using your details")    else:
            insert_sql = "INSERT INTO students VALUES (?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prepare_stmt, 1, name)
ibm_db.bind_param(prepare_stmt, 2, address)
ibm_db.bind_param(prepare_stmt, 3, city)
ibm_db.bind_param(prepare_stmt, 4, pin)
ibm_db.execute(prepare_stmt)
            return render_template('home.html', msg="Student Data
saved successfully..")

@app.route('/list') def
list():
    students = []    sql = "SELECT * FROM
Students"    stmt =
ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
    print ("The Name is : ", dictionary)

```

```

        students.append(dictionary)
        dictionary = ibm_db.fetch_both(stmt)
    if students:
        return render_template("list.html", students = students)
@app.route('/delete/<name>') def
delete(name):
    sql = f"SELECT * FROM Students WHERE name='{escape(name)}'"
    print(sql)    stmt = ibm_db.exec_immediate(conn, sql)    student
= ibm_db.fetch_row(stmt)    print ("The Name is : ", student)
    if student:    sql = f"DELETE FROM Students WHERE
name='{escape(name)}'"    print(sql)    stmt =
    ibm_db.exec_immediate(conn, sql)
        students = []    sql = "SELECT * FROM Students"    stmt =
    ibm_db.exec_immediate(conn, sql)    dictionary = ibm_db.fetch_both(stmt)
    while dictionary != False:    students.append(dictionary)
    dictionary = ibm_db.fetch_both(stmt)    if students:    return
    render_template("list.html", students = students, msg="Delete successfully")

    return "success..."

```

home.html

```

<!DOCTYPE html>
<html>
<head>    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2
.2/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrP
F/et3URy9Bv1WTRi" crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.
2/dist/js/bootstrap.bundle.min .js"
integrity="sha384OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY

```

```

7qPCqsdltbNJua0e923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</head>

<nav class="navbar navbar-expand-lg text-white">
  <div class="container-fluid">
    <a class="navbar-brand text-decoration-none" href="/">HOME</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <li class="navbar-brand">
          <a class="text-decoration-none " href="/addstudent">Add New
Student</a>
        </li>
        <li class="navbar-brand">
          <a class="text-decoration-none" href="/signin">SignIn Page</a>
        </li>
        <li class="navbar-brand">
          <a class="text-decoration-none" href="/signup">SignUP Page</a>
        </li>
        <li class="navbar-brand">
          <a class="text-decoration-none" href="/about">About Page</a>
        </li>
        <li class="navbar-brand">
          <a class="text-decoration-none " href="/list">List Student</a>
        </li>
      </ul>
    </div>
  </div>
</nav>

<hr>

{{msg}}

<h1 >Welcome to Home Page...</h1>
</html>

```

About.html

```

<html>
  <head>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
OERcA2EqJJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
  </head>
<nav class="navbar navbar-expand-lg text-white ">
  <div class="container-fluid">
    <a class="navbar-brand text-decoration-none" href="/">HOME</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">

        <li class="navbar-brand">

          <a class="text-decoration-none" href="/signin">SignIn Page</a>
        </li>

        <li class="navbar-brand">
          <a class="text-decoration-none" href="/signup">SignUP Page</a>
        </li>
        <li class="navbar-brand">
          <a class="text-decoration-none" href="/about">About Page</a>
        </li>
      </li>
    </ul>
  </div>
</nav>
  <body>
    <h3>1. Create a Flask App</h3>
    <h3>2. Add the Home page, About Page</h3>
    <h3> 3. Add the Bootstrap</h3>
    <h3> 4. Add the Sign in page and App the Signup Page + database
connectivity</h3>

  </body> </html>

```

Sign in .html

```
<!DOCTYPE html>
<html>
  <head>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
  </head>

  <nav class="navbar navbar-expand-lg text-white">
    <div class="container-fluid">
      <a class="navbar-brand text-decoration-none" href="/">HOME</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav">

          <li class="navbar-brand">

            <a class="text-decoration-none" href="/signin">SignIn Page</a>
          </li>
          <li class="navbar-brand">
            <a class="text-decoration-none" href="/signup">SignUP Page</a>
          </li>
          <li class="navbar-brand">
            <a class="text-decoration-none" href="/about">About Page</a>
          </li>
          <li class="navbar-brand">
            <a class="text-decoration-none" href="/list">List Student</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>
```

```

        </ul>
    </div>
</div>
</nav>

<form action = "{ url_for('signin') }" method = "POST">
    <h3>SIGN IN PAGE</h3>
    Email<br>
    <input type = "text" name="name" /><br>
    Password<br>
    <input type = "password" name="password" /><br>

    <br>
    <button type="button" class="btn btn-primary">Submit</button><br>

</form>
</html>

```

Signup.html

```

<html>
<head>
    <head>
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
    </head>
</head>

<nav class="navbar navbar-expand-lg text-white">
    <div class="container-fluid">
        <a class="navbar-brand text-decoration-none" href="/">HOME</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>

```



```

<div class="collapse navbar-collapse" id="navbarNav">
  <ul class="navbar-nav">

    <li class="navbar-brand">

      <a class="text-decoration-none" href="/signin">SignIn Page</a>
</li>
    <li class="navbar-brand">
      <a class="text-decoration-none" href="/signup">SignUP Page</a>
    </li>
  </li>
  <li class="navbar-brand">
    <a class="text-decoration-none " href="/list">List Student</a>
  </li>
</li>
<li class="navbar-brand">
  <a class="text-decoration-none" href="/about">About Page</a>
</li>
  </ul>
</div>
</div>
</nav>

<form action = "{{ url_for('addrec') }}" method = "POST">
  <h3>SIGN UP PAGE</h3>
  Name<br>
  <input type = "text" name="name" /></br>

  Email<br>
  <input type = "email" name="email" /><br>
  Password<br>
  <input type = "password" name="password" /><br>

  Re-Password<br>
  <input type ="password" name="password" /><br><br>
  <button type="button" class="btn btn-primary">Submit</button><br>
</form>
</html>

```

Database connectivity:

Add student.html

```

<!DOCTYPE html>
<html>
<head>

```

```

    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</head>

```

```

<nav class="navbar navbar-expand-lg text-white">
  <div class="container-fluid">
    <a class="navbar-brand text-decoration-none" href="/">HOME</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <li class="navbar-brand">
          <a class="text-decoration-none " href="/addstudent">Add New
Student</a>
        </li>
        <li class="navbar-brand">
          <a class="text-decoration-none " href="/list">List Student</a>
        </li>
      </ul>
    </div>
  </div>
</nav>

```

```

<form action = "{ url_for('addrec') }" method = "POST">
  <h3>Student Information</h3>
  Name<br>
  <input type = "text" name="name" /><br>

  Address<br>
  <textarea name="address" ></textarea><br>
  City<br>
  <input type = "text" name="city" /><br>

  PINCODE<br>

```

```

        <input type = "text" name="pin" /><br><br>
        <button type="button" class="btn btn-
primary">Submit</button><br>
    </form>
</html>

```

List.html

```

<!doctype html>
<html>
    <head>
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
    </head>
    <nav class="navbar navbar-expand-lg text-white">
        <div class="container-fluid">
            <a class="navbar-brand text-decoration-none" href="/">HOME</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNav">
                <ul class="navbar-nav">
                    <li class="navbar-brand">
                        <a class="text-decoration-none " href="/addstudent">Add New
Student</a>
                    </li>
                    <li class="navbar-brand">
                        <a class="text-decoration-none " href="/list">List Student</a>
                    </li>
                </ul>
            </div>
        </div>
    </nav>
    <body>

    {{ msg }}

    <table class="table">

```

```

        <thead>
            <td scope="col">Name</td>
            <td scope="col">Address</td>
<td scope="col">city</td>
            <td scope="col">Pincode</td>
        </thead>
        {% for row in students %}
            <tr>
                <td>{{row["NAME"]}}</td>
                <td> {{ row["ADDRESS"]}}</td>
                <td>{{row["CITY"]}}</td>
                <td>{{row['PIN']}}</td>
                <td><a href="/delete/{{row['NAME']}}">Delete</a></td>
            </tr>
        {% endfor %}
    </table>

</body>
</html>

```

Screenshots:

Home:

HOME [Add New Student](#) [SignIn Page](#) [SignUP Page](#) [About Page](#) [List Student](#)

Welcome to Home Page...

About:

[HOME](#) [SignIn Page](#) [SignUP Page](#) [About Page](#)

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

Sign in:

[HOME](#) [SignIn Page](#) [SignUP Page](#) [About Page](#) [List Student](#)

SIGN IN PAGE

Email

Password

Submit

Sign up:

[HOME](#) [SignIn Page](#) [SignUP Page](#) [List Student](#) [About Page](#)

SIGN UP PAGE

Name

Email

Password

Re-Password

Submit

Database connectivity:

[HOME](#) [Add New Student](#) [List Student](#)

Student Information

Name

Address

City

PINCODE

Submit

HOME [Add New Student](#) [List Student](#)

Name	Address	city	Pincode	
DURAI RAJ	nagar	thiruvannamalai	123456	Delete
