ASSIGNMENT -2

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 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=55fbc997-9266-4331-afd3-888b05e734c0.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31929;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA(1).crt;UID=skv86739;PWD=5JPCgewL7dD98EV9","","")

print(conn)

app = Flask(__name__)

@app.route('/')

def home():

  return render_template('home.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(prep_stmt, 1, name)
      ibm_db.bind_param(prep_stmt, 2, address)
      ibm_db.bind_param(prep_stmt, 3, city)
      ibm_db.bind_param(prep_stmt, 4, pin)
      ibm_db.execute(prep_stmt)
    return render_template('home.html', msg="Student Data saved
successfuly..")
@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")
```

add_student.html:

```
a href="/">HOME</a>
<a href="/addstudent">Add New Student</a>
<a href="/list">List Student</a>
<hr>
<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>
   <input type = "submit" value = "submit" /><br>
 </form>
```

home.html:

```
<a href="/">HOME</a>
<a href="/addstudent">Add New Student</a>
<a href="/list">List Student</a>
<hr>
```

```
{{msg}}
<h1>Welcome to Student DB APP</h1>
```

list.html:

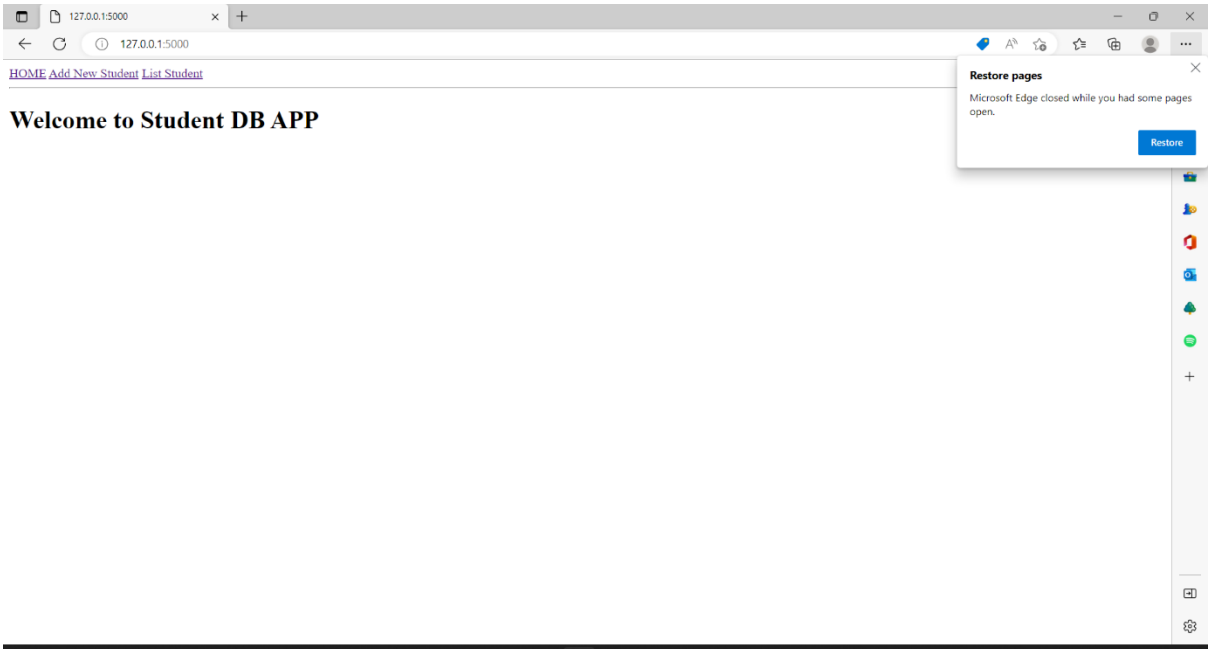
```
<!doctype html>
<html>
  <body>
   <a href="/">HOME</a>
   <a href="/addstudent">Add New Student</a>
   <a href="/list">List Student</a>
   <br><hr>
   {{ msg }}
    <table border = 1>
      <thead>
        <td>Name</td>
        <td>Address</td>
        <td>city</td>
        <td>Pincode</td>
        <td></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>
```

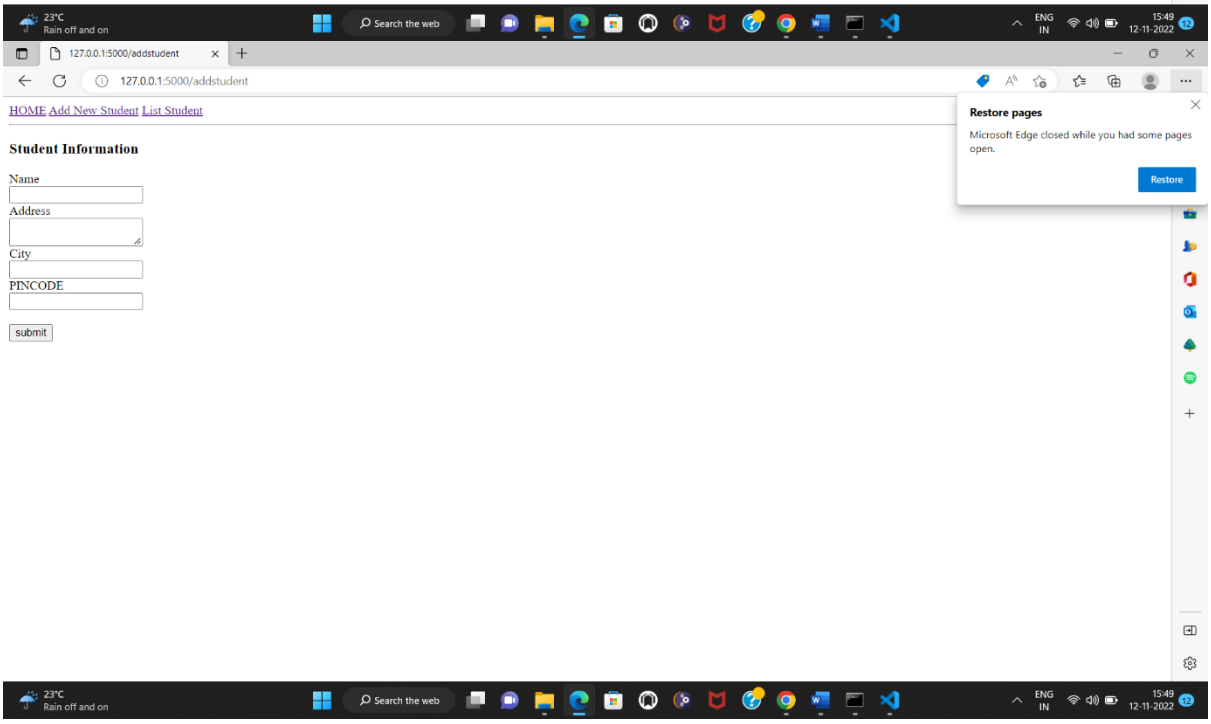
```
        </tr>
      {% endfor %}
    </table>
  </body>
</html>
```

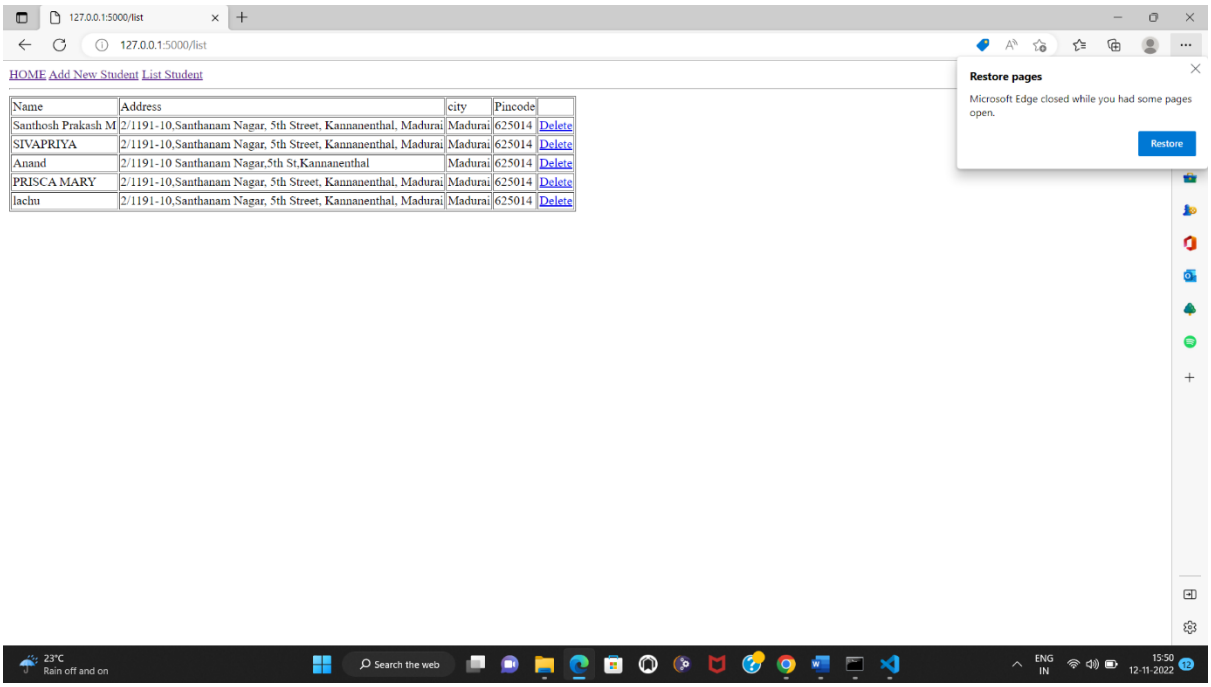
result.html:

```
<!doctype html>
<html>
  <body>
    {{ msg }}
    <h2><a href = "\">Back to home page</a></h2>
  </body>
</html>
```

Output:


127.0.0.1:5000
127.0.0.1:5000
HOME Add New Student List Student
Welcome to Student DB APP
Restore pages
Microsoft Edge closed while you had some pages open.
Restore


23°C
Rain off and on
Search the web
ENG
IN
15:49
12-11-2022
127.0.0.1:5000/addstudent
127.0.0.1:5000/addstudent
HOME Add New Student List Student
Student Information
Name
Address
City
PINCODE
submit
Restore pages
Microsoft Edge closed while you had some pages open.
Restore


127.0.0.1:5000/list
127.0.0.1:5000/list
HOME Add New Student List Student
Name | Address | city | Pincode
Santhosh Prakash M | 2/1191-10,Santhanam Nagar, 5th Street, Kannanenthal, Madurai | Madurai | 625014 | Delete
SIVAPRIYA | 2/1191-10,Santhanam Nagar, 5th Street, Kannanenthal, Madurai | Madurai | 625014 | Delete
Anand | 2/1191-10 Santhanam Nagar,5th St,Kannanenthal | Madurai | 625014 | Delete
PRISCA MARY | 2/1191-10,Santhanam Nagar, 5th Street, Kannanenthal, Madurai | Madurai | 625014 | Delete
lachu | 2/1191-10,Santhanam Nagar, 5th Street, Kannanenthal, Madurai | Madurai | 625014 | Delete
Restore pages
Microsoft Edge closed while you had some pages open.
Restore
23°C
Rain off and on
Search the web
ENG
IN
15:50
12-11-2022