ASSIGNMENT-2

Assignment Date	04/10/2022
Student Name	V.BHUVANESH
Student Roll Number	95071914018
Maximum Marks	2 Marks

1.Create user table with user with email, username, roll number, password.

Queries:

```
DROP TABLE IF EXISTS user;
```

```
CREATE TABLE user (id INTEGER PRIMARY KEY
AUTOINCREMENT, username TEXT NOT NULL,
password TEXT NOT NULL, rollno INT
NOT NULL, email TEXT NOT NULL);
```

```
INSERT INTO user(username, password, rollno, email)
VALUES
("fxian","fx@tvl","95071914018","bhuvaneshv.ug19.ec@francisxavier.ac.in");
```

```
def register(name,email,rollno,password):
    insert_sql = "INSERT INTO  WHW07299.USER VALUES (?, ?, ?, ?)"
    prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prep_stmt, 1, username)
    ibm_db.bind_param(prep_stmt, 2, email)
```

```
ibm_db.bind_param(prep_stmt, 3, rollno)
ibm_db.bind_param(prep_stmt, 4, password)
ibm_db.execute(prep_stmt)
```

---

2. Perform UPDATE, DELETE Queries with user table.

QUERIES:

```
UPDATE user
SET email = 'bhuvaneshv@fx.com'
WHERE username= 'fxian'
```

```
SELECT * FROM user WHERE username = 'fxian'
```

```
DELETE FROM user
WHERE username= 'fxian'
```

---

3. Connect python code to db2.

```
import ibm_db

try:
      conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-
  8bf90fbb4d483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32
  459;PROTOCOL=TCPIP;UID=whw07299;PWD=JBqCOjcXEanruQkD;Security=SSL;SSLSe
  curityCertificate=DigiCertGlobalRootCA.crt", "", "")
      print("Connected to the database")
except:
   print ("Error in connecting to the database: ",ibm_db.conn_errormsg())
```

4. Create a flask app with registration page,login page and welcome page.By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password.If the user is valid show the welcome page.

#login.html

```
   <!doctype html>
<html lang="en">

<head>
    <title>Title</title>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1, shrink-to-fit=no">
    <link rel="stylesheet"
href="{{url_for('static',filename='style.css')}}
">
</head>

<body></br></br>
    <div align="center">
        <div align="center">
            <div class="header">
                <h1 class="word">Login</h1>
            </div></br>
            <h2 class="word">
                 <form action="{{ url_for('login') }}" class=”border2”
method="post">
                    <input id="username" name="username" type="text"
placeholder="Enter Your Username"
                        class="textbox" /></br></br>
                    <input id="password" name="password"
type="password" placeholder="Enter Your Password"
                        class="textbox" /></br></br></br>
                    <input type="submit" class="btn" value="Sign
In"></br></br>
                </form>
            </h2>
            <p class="bottom">Don't have an account? <a class="bottom"
href="{{url_for('register')}}"> Register here</a>
            </p>
        </div>
    </div>
</body>
</body>

</html>
```

#register.html

```
<html>

<head>
    <meta charset="UTF-8">
    <title> Register </title>
    <link rel="stylesheet"
href="{{url_for('static',filename='style.css')}}">
</head>

<body><br><br>
    <div align="center">
        <div align="center">
            <div class="header">
                <h1 class="word">Register</h1>
            </div></br>
            <h2 class="word">
                <form action="{{
url_for('register') }}" class="border"
method="post">
                    <input id="username"
name="username" type="text" placeholder="Enter
Your Username"
                        class="textbox"
/></br></br>
                    <input id="email"
name="email" type="text" placeholder="Enter Your
Email ID"
                        class="textbox"
/></br></br>
                    <input id="rollno"
name="rollno" type="text" placeholder="Enter
Your Roll no" class="textbox" /></br></br>
```

```
                    <input id="password"
name="password" type="password"
placeholder="Enter Your Password"
class="textbox" /></br></br>
                    <input type="submit"
class="btn" value="Sign Up"></br>
                </form>
            </h2>
            <p class="bottom">Already have an
account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a>
            </p>
        </div>
    </div>
</body>

</html>
```

#welcome_page.html

```
<!DOCTYPE html>
<html>

<head>
         <link rel="stylesheet"
href="{{url_for('static',filename='style.css')}}
">
</head>

<body><br><br><br><br><br><br><br><br><br><br><b
r><br><br><br><br><br>
    <h1 align="center"
class="textbox"">Welcome!</h1>
</body>

</html>
```

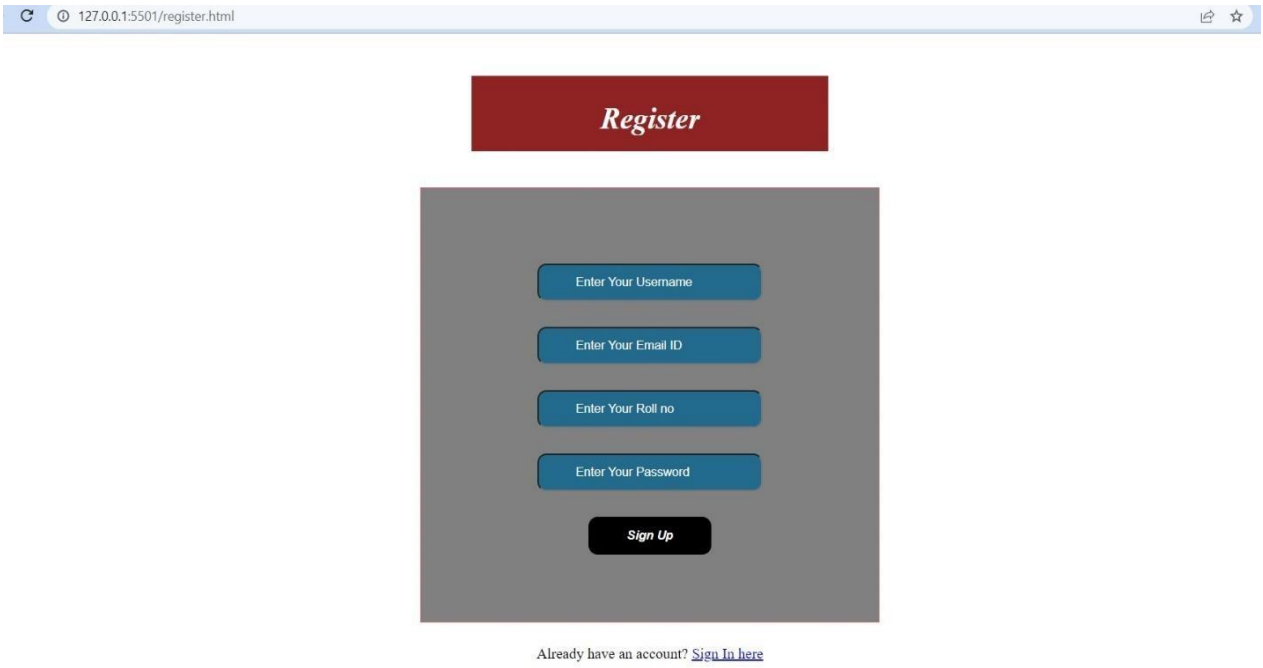
#static/style.css

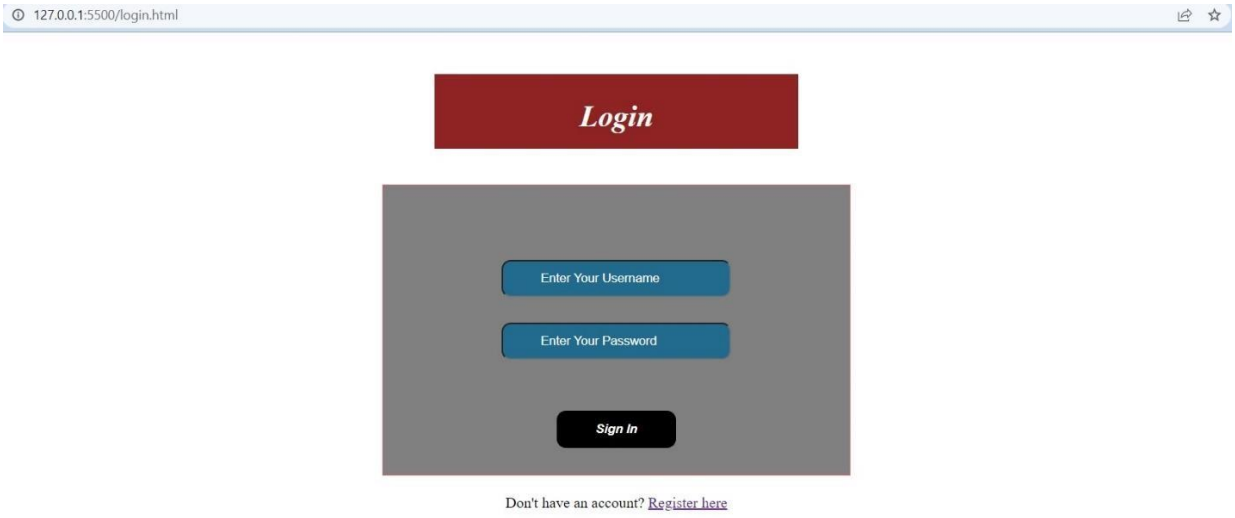
```
<!DOCTYPE html>

.header {
    padding: 5px 120px;
    width: 150px;
    height: 70px;
    background-color: #8e2323;
}

.border {
    padding: 80px 50px;
    width: 400px;
    height: 300px;
    border: 1px solid #e76262;
    border-radius: 0px;
    background-color: grey;
}

.border2 {
    padding: 80px 50px;
    width: 400px;
    height: 150px;
    border: 1px solid #e76262;
    border-radius: 0px;
    background-color: grey;
}

.btn {
    padding: 10px 40px;
    background-color: black;
    color: #FFFFFF;
    font-style: oblique;
    font-weight: bold;
    border-radius: 10px;
}

.textbox {
    padding: 10px 40px;
    background-color: #236B8E;
    text-color: #FFFFFF;
    border-radius: 10px;
}

::placeholder {
    color: #FFFFFF;
    opacity: 1;
}

.word {
    color: #FFFFFF;
    font-style: oblique;
    font-weight: bold;}
```

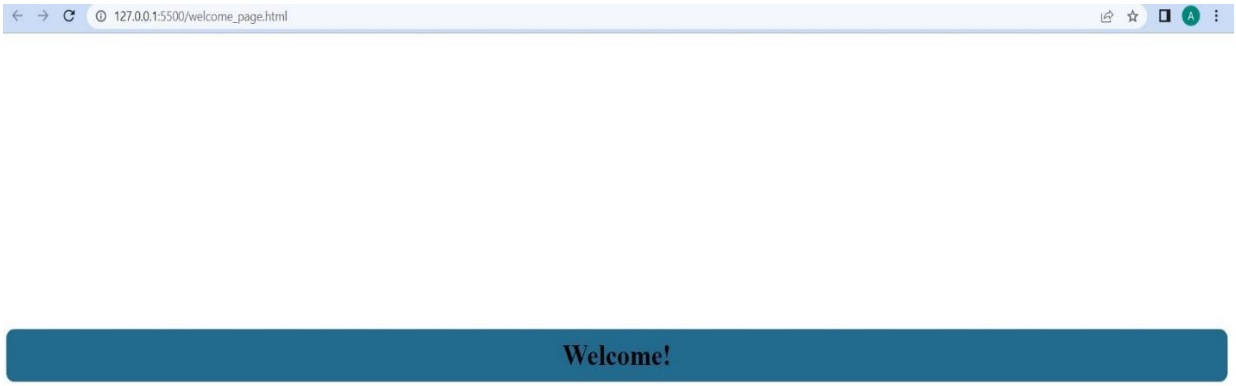
```
#app.py
from flask import Flask, render_template, request
import ibm_db

conn =ibm_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-
9715-43f9-9399-
c8377b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.c
loud;PORT=30426;PROTOCOL=TCPIP;UID=LDM84139;PWD=FAgl73h
or4nyJk6r;Security=SSL;SSLSecurityCertificate=DigiCertG
lobalRootCA.crt", "", "")
print("Connnection Successful")

app = Flask(__name__)


@app.route("/", methods=['GET', 'POST'])
@app.route("/register", methods=['GET', 'POST'])
def register():
    msg = ''
    if request.method == 'POST':
        name = request.form["username"]
        email = request.form["email"]
        rollno = request.form["rollno"]
        password = request.form["password"]
        print(name, email, password,  rollno)
        insert_sql = "INSERT INTO  LDM84139.USER VALUES
(?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, name)
        ibm_db.bind_param(prep_stmt, 2, password)
        ibm_db.bind_param(prep_stmt, 3, email)
        ibm_db.bind_param(prep_stmt, 4, rollno)
        ibm_db.execute(prep_stmt)
        return render_template('login.html', msg=msg)
    else:
        return render_template('register.html',
msg=msg)


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

```
    if request.method == 'POST':
        name = request.form["username"]
        password = request.form["password"]
        select_sql = "SELECT * FROM  LDM84139.USER
WHERE USERNAME = ? AND PASSWORD = ?"
        prep_stmt = ibm_db.prepare(conn, select_sql)
        ibm_db.bind_param(prep_stmt, 1, name)
        ibm_db.bind_param(prep_stmt, 2, password)
        out = ibm_db.execute(prep_stmt)
        result_dict = ibm_db.fetch_assoc(prep_stmt)
        print(result_dict)
        if result_dict != False:
            return render_template('welcome.html',
msg=msg)
        return render_template('login.html', msg=msg)

    else:
        return render_template('login.html', msg=msg)


@app.route('/welcome', methods=['GET', 'POST'])
def welcome():
    msg = ''
    return render_template('welcome.html', msg=msg)
```

OUTPUT :


127.0.0.1:5501/register.html
Register
Enter Your Username
Enter Your Email ID
Enter Your Roll no
Enter Your Password
Sign Up
Already have an account? Sign In here


127.0.0.1:5500/login.html
Login
Enter Your Username
Enter Your Password
Sign In
Don't have an account? Register here


127.0.0.1:5500/welcome_page.html
Welcome!