ASSIGNMENT-2

Assignment Date	04/10/2022
Student Name	Aman Kumar Singh
Student Roll Number	95071914008
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, name TEXT

NOT NULL, email TEXT NOT NULL);

```
INSERT INTO user(username, password, name, email)
VALUES
("fxian","fx@tvl","Aman","amankumarsinghfx@gmail.com");
def register(name, email, phone):
```

```
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, phone)
ibm_db.execute(prep_stmt)
```

2. Perform UPDATE, DELETE Queries with user table.

QUERIES:

```
UPDATE user
SET email = 'aman@fx.com'
WHERE name= 'Aman'
```

SELECT * FROM user WHERE name = 'Aman'

DELETE FROM user
WHERE name= 'Aman'

3. Connect python code to db2.

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-</pre>
scale=1, shrink-to-fit=no">
    <link rel="stylesheet"</pre>
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"</pre>
placeholder="Enter Your Username"
                         class="textbox" /></br></br>
                     <input id="password" name="password"</pre>
type="password" placeholder="Enter Your Password"
                         class="textbox" /></br></br></br></pr>
                     <input type="submit" class="btn" value="Sign</pre>
In"></br></br>
                 </form>
            </h2>
            Don't have an account? <a class="bottom"</pre>
href="{{url for('register')}}"> Register here</a>
            </div>
    </div>
</body>
</body>
</html>
```

```
#register.html
<html>
<head>
    <meta charset="UTF-8">
    <title> Register </title>
    <link rel="stylesheet"</pre>
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"</pre>
name="username" type="text" placeholder="Enter
Your Username"
                          class="textbox"
/></br></br>
                     <input id="email"</pre>
name="email" type="text" placeholder="Enter Your
Email ID"
                          class="textbox"
/></br></br>
                     <input id="phone"</pre>
name="phone" type="text" placeholder="Enter Your
Phone no" class="textbox" /></br></br>
                     <input id="password"</pre>
name="password" type="password"
```

```
placeholder="Enter Your Password"
class="textbox" /></br></br>
                  <input type="submit"</pre>
class="btn" value="Sign Up"></br>
              </form>
          </h2>
          Already have an
account? <a class="bottom"</pre>
href="{{url for('login')}}"> Sign In here</a>
          </div>
   </div>
</body>
</html>
#welcome page.html
<!DOCTYPE html>
< ht.ml>
<head>
       <link rel="stylesheet"</pre>
href="{{url for('static',filename='style.css')}}
</head>
<h1 align="center"
class="textbox"">Welcome!</h1>
</body>
</html>
```

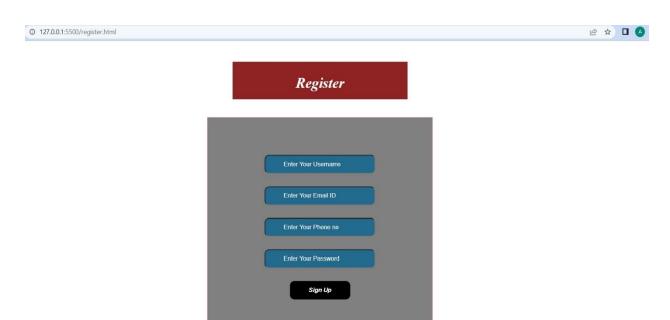
#static/style.css

```
<!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;
```

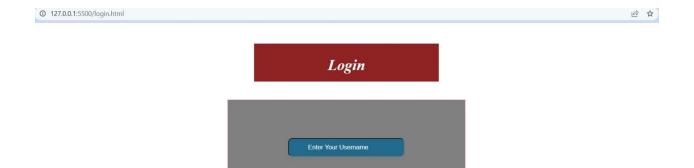
```
#app.py
from flask import Flask, render template, request
import ibm db
conn = ibm db.connect("DATABASE=bludb; HOSTNAME=125f9f61-
9715-43f9-9399-
c8377b21803b.clogj3sd0tgtu0lgde00.databases.appdomain.c
loud; PORT=30426; PROTOCOL=TCPIP; UID=LDM84139; PWD=FAq173h
or4nyJk6r; Security=SSL; SSLSecurityCertificate=DigiCertG
lobalRootCA.crt", "", "")
print("Connnection Successful")
app = Flask( name )
@app.route("/", methods=['GET', 'POST'])
@app.route("/register", methods=['GET', 'POST'])
def register():
    msq = ''
    if request.method == 'POST':
        name = request.form["username"]
        email = request.form["email"]
        phone = request.form["phone"]
        password = request.form["password"]
        print(name, email, password, phone)
        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, phone)
        ibm db.execute(prep stmt)
        return render template('login.html', msg=msg)
    else:
        return render template ('register.html',
msq=msq)
@app.route('/login', methods=['GET', 'POST'])
def login():
    msq = ''
```

```
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',
msq=msq)
        return render template('login.html', msg=msg)
    else:
        return render template('login.html', msg=msg)
@app.route('/welcome', methods=['GET', 'POST'])
def welcome():
    msq = ''
    return render template('welcome.html', msg=msg)
```

OUTPUT:



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Don't have an account? Register here

