Create IBM DB2 connect with Python

Team ID	PNT2022TMID13363
Project Name	Plasma donor application

Code:

Login.html:

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

<head>

  <meta charset="UTF-8">

  <meta http-equiv="X-UA-Compatible" content="IE=edge">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>
</head>

<style>

  body {
```

```css
    background-image: linear-gradient(92.7deg, rgb(243, 178, 178)
8.5%, rgb(246, 244, 198) 90.2%);

    font-family: Georgia, 'Times New Roman', Times, serif;

}


button:hover {

    background-color: dark blue;

    border-color: black;

}


h1 {

    font-family: 'Courier New', Courier, monospace;

    color: purple;

    top: 10em;

}

.container1 {

    border: 2px solid black;

    border-color: black;

    border-radius: 10px;

    width: 400px;

}
```

```css
.top {

    margin-top: 100px;

}


input:hover {

    border-color: rgb(25, 20, 20);

}


a {

    text-decoration: none;

}


a:link {

    color: #006600;

    text-decoration: none;

}


a:visited {

    color: rgb(215, 117, 92);

    text-decoration: none;

}
```

```
    a:hover {

       color: rgb(128, 105, 255);

       text-decoration: none;

    }


    a:active {

       color: rgb(202, 99, 75);

       text-decoration: none;

    }
</style>

<body>
   <center>
      <h1 class="top">IBM</h1>
      <div class="container1">
         <br>
         <h1>LOGIN</h1>
         <form action="http://localhost:5000/login" method="POST">
            <table>
               <tr>
                  <td><label for="text">USERNAME</label></td>
```

```html
            <td><input type="text" name="username" placeholder="enter user name" /></td>
        </tr>
        <tr>
            <td><label for="text">PASSWORD</label></td>
            <td><input type="text" name="password" placeholder="enter valid password"></td>
        </tr>
    </table>
    <br>
    <button type="submit">SUMBIT</button>
    </form>
    <br>
    </div>
    <br>
    <label for="text">New User!! <br> <br> <b><a href="http://http://localhost:5000">SIGN UP</a></b></label>
    </center>
</body>

</html>
```

Register.html:

```html
<!DOCTYPE html>
<html>

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>REGISTRATION PAGE</title>
</head>
<style>
  body {
    background-image: linear-gradient(92.7deg, rgb(59, 170, 201) 8.5%, rgb(246, 244, 198) 90.2%);
    font-family: 'Times New Roman', Times, serif;
  }

  input:hover {
    border-color: rgb(25, 20, 20);
```

```css
        }

        button:hover {
            background-color: dark blue;
            border-color: black;
        }


        h1 {
            font-family: 'Courier New', Courier, monospace;
            color: darkolivegreen;
        }


        #qwerty {
            margin-top: 15em;
        }
    </style>
```

```html
    <body>
        <center id="qwerty">
            <H1>REGISTRATION FORM</H1>
            <!--  -->
            <form action="http://localhost:5000/register" method="POST">
```

```html
<table>
    <tr>
        <td><label for="text">USERNAME</label></td>
        <td> </td>
        <td><input type="text" placeholder="Enter Username" name="username" id="username"></td>
    </tr>
    <tr></tr>
    <tr></tr>
    <tr>
        <td><label for="text">EMAIL ID</label></td>
        <td> </td>
        <td><input type="text" placeholder="Enter email id" name="email_id" id="email_id"></td>
    </tr>
    <tr></tr>
    <tr></tr>
    <tr>
        <td><label for="text">PHONE NUMBER</label></td>
        <td> </td>
        <td><input type="text" placeholder="Enter phone number" name="phone_no" id="phone_no"></td>
    </tr>
```

```html
                <tr></tr>
                <tr></tr>
                <tr>
                    <td><label for="text">PASSWORD</label></td>
                    <td> </td>
                    <td><input type="text" placeholder="Enter password" name="password" id="password"></td>
                </tr>


                <tr></tr>
                <tr></tr>
            </table>
            <br>
            <center><button onclick="asd()" type="submit">Submit</button>
            </center>
        </form>
    </center>
</body>
<script>
    function asd() {
        var username1 = document.getElementById("username");
        var email_id = document.getElementById('email_id');
```

```javascript
    var phone_no = document.getElementById('phone_no');

    var password = document.getElementById('password');

    if (username1.value == "" || phone_no.value == "" ||
password.value == "") {

        username.style.borderColor = "red";

    }

    else if (email_id.value == "") {

        email_id.style.borderColor = "red";

    }

    else if (phone_no.value == "") {

        phone_no.style.borderColor = "red";

    }

    else if (phone_no.value == "") {

        password.style.borderColor = "red";

    }


    }


</script>
```

```html
</html>
```

Welcome.html:

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

  <title>WELCOME</title>
</head>
<style>
  h1 {
    font-family: 'Courier New', Courier, monospace;
    color: darkolivegreen;
    top: 10em;
  }
```

```css
body {

    background-image: linear-gradient(92.7deg, rgb(59, 170, 201)
8.5%, rgb(246, 244, 198) 90.2%);

    font-family: 'Times New Roman', Times, serif;

}




a:hover {

    color: rgb(128, 105, 255);

    text-decoration: none;

}


.font {

    color: rgb(141, 18, 100);

    font: bold;

    font-size: 27px;

}
```

```html
    #top {
        margin-top: 200px;
    }
</style>

<body>
    <center>
        <H1 id="top">LOGIN SUCCESSFUL</H1>
        <table>
            <tr class="font">
                <td>WELCOME</td>
                <td> </td>
                <td>{{username}}</td>
            </tr>
            <!-- <tr class="font">
                <td>EMAIL_ID</td>
                <td> </td>
                <td>{{email_id}}</td>
            </tr>
            <tr class="font">
                <td>PHONE NO</td>
                <td> </td>
```

```html
      <td>{{phone_no}}</td> -->
    <!-- </tr> -->
  </table>
  <table>
    <tr>
      <h1>CONNECT TO</h1>
    </tr>
    <tr>
      <td>
        <label"><a href="https://in.linkedin.com/company/ibm"><i class="fa fa-linkedin-square"
                style="font-size:36px"></i></a></label>
      </td>
    </tr>
    <tr>
      <td><a href="https://www.instagram.com/ibm/?hl=en"><i class="fa fa-instagram"
              style="font-size:36px"></i></a></td>
    </tr>


    <tr>
      <td><a href="https://www.facebook.com/IBM/"><i class="fa fa-facebook" style="font-size:36px"></i></a>
```

```html
        </td>

      </tr>

      <tr>

        <td><a href="https://twitter.com/ibm?lang=en"><i class="fa
fa-twitter" style="font-size:36px"></i></a>

        </td>

      </tr>

    </table>


    </table>

  </center>



</body>


</html>
```

App.py:

```python
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re

app = Flask(__name__)

hostname = '19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'sfr69790'
pwd = 'VFRS0bFKFeIhMbcq'
driver = "{IBM DB2 ODBC DRIVER}"
db_name = 'Bludb'
port = '30699'
protocol = 'TCPIP'
cert = "C:/Users/Prithiarun/Desktop/IBM/TEST/certi.crt"
dsn = (
    "DATABASE ={0};"
    "HOSTNAME ={1};"
    "PORT ={2};"
    "UID ={3};"
```

```python
    "SECURITY=SSL;"

    "PROTOCOL={4};"

    "PWD ={6};"

).format(db_name, hostname, port, uid, protocol, cert, pwd)

connection = ibm_db.connect(dsn, "", "")

print()

# query = "SELECT username FROM USER1 WHERE username=?"

# stmt = ibm_db.prepare(connection, query)

# ibm_db.bind_param(stmt, 1, username)

# ibm_db.execute(stmt)

# username = ibm_db.fetch_assoc(stmt)

# print(username)

app.secret_key = 'a'


@app.route('/', methods=['GET', 'POST'])

@app.route('/register', methods=['GET', 'POST'])

def register():

    msg = " "

    if request.method == 'POST':

        username = request.form['username']

        email_id = request.form['email_id']
```

```python
phone_no = request.form['phone_no']

password = request.form['password']

query = "SELECT * FROM USER1 WHERE username=?;"

stmt = ibm_db.prepare(connection, query)

ibm_db.bind_param(stmt, 1, username)

ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt)

if (account):


    msg = "Account already exists!"

    return render_template('register.html', msg=msg)

# elif not re.match(r'[^@]+@[^@]+\.[^@]+', email_id):

#     msg = "Invalid email addres"

# elif not re.match(r'[A-Za-z0-9+', username):

#     msg = "Name must contain only characters and numbers"

else:

    query = "INSERT INTO USER1 values(?,?,?,?)"

    stmt = ibm_db.prepare(connection, query)

    ibm_db.bind_param(stmt, 1, username)

    ibm_db.bind_param(stmt, 2, email_id)

    ibm_db.bind_param(stmt, 3, phone_no)

    ibm_db.bind_param(stmt, 4, password)
```

```python
        ibm_db.execute(stmt)
        msg = 'You have successfully Logged In!!'
        return render_template('login.html', msg=msg)
    else:
      msg = 'PLEASE FILL OUT OF THE FORM'
      return render_template('register.html', msg=msg)


@app.route('/login', methods=['GET', 'POST'])
def login():
    global userid
    msg = ' '
    if request.method == "POST":
      username = request.form['username']
      password = request.form['password']
      query = "select * from user1 where username=? and password=?"
      stmt = ibm_db.prepare(connection, query)
      ibm_db.bind_param(stmt, 1, username)
      ibm_db.bind_param(stmt, 2, password)
      ibm_db.execute(stmt)
      account = ibm_db.fetch_assoc(stmt)
      print(account)
```

```python
        if account:

            session['Loggedin'] = True

            session['id'] = account['USERNAME']

            session['username'] = account['USERNAME']

            msg = 'Logged in Successfully'

            return render_template('welcome.html', msg=msg,
username=str.upper(username))

        else:

            msg = 'Incorrect Username or Password'

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

    else:

        msg = 'PLEASE FILL OUT OF THE FORM'

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




@app.route('/welcome', methods=['GET', 'POST'])

def welcome():

    if request.method == 'POST':

        username = request.form['username']

        print(username)

        return render_template('welcome.html', username=username)
```
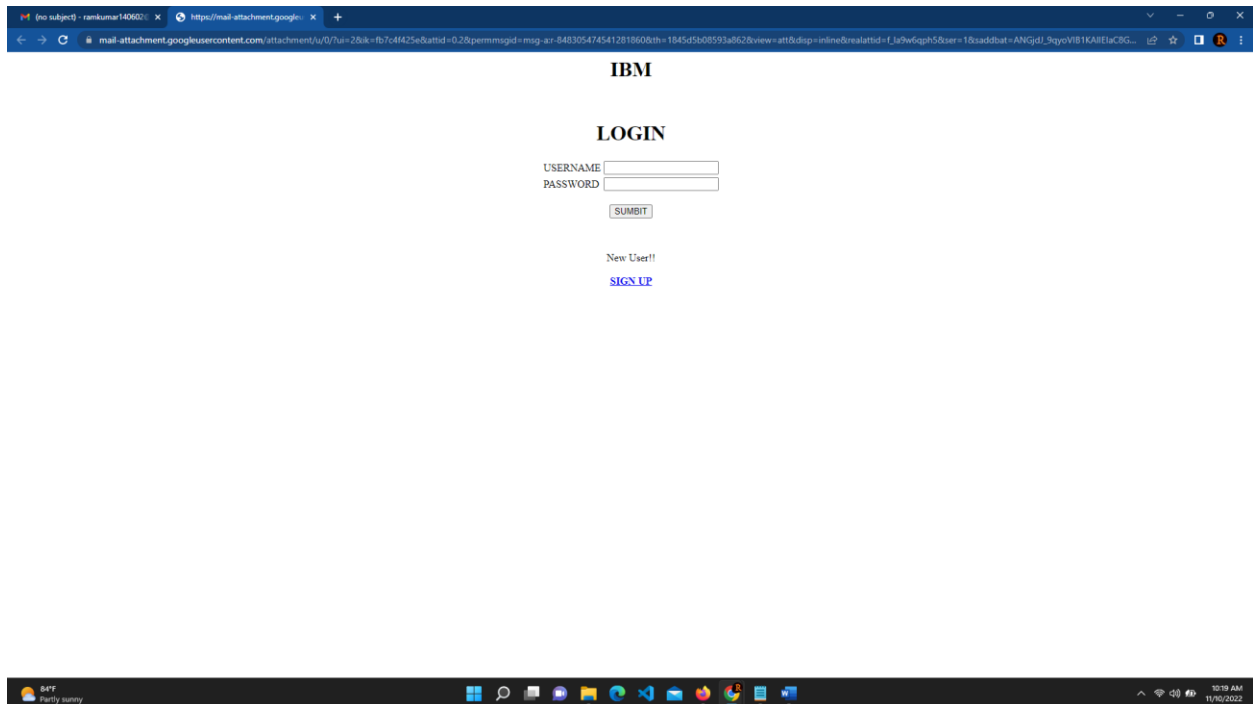
```
    else:

        return render_template('welcome.html', username=username)



if __name__ == "__main__":

    app.run(debug=True)

    app.run(host='0.0.0.0')
```

Output:

REGISTRATION FORM

USERNAME	
EMAIL ID	
PHONE NUMBER	
PASSWORD	

Submit

LOGIN SUCCESSFUL

WELCOME {{username}}

CONNECT TO