

Create IBM DB2 connect with Python

Team ID	PNT2022TMID31029
Project Name	customer care registry

Code:

Login.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 {
```

```
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;
}
```

```
.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>
```

```
        <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:

```
<!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);
```

```
}
```

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

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

```
#qwerty {  
    margin-top: 15em;  
}
```

```
</style>
```

```
<body>
```

```
<center id="qwerty">
```

```
<H1>REGISTRATION FORM</H1>
```

```
<!-- -->
```

```
<form action="http://localhost:5000/register" method="POST">
```

```
<table>
  <tr>
    <td><label for="text">USERNAME</label></td>
    <td>&nbsp;</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>&nbsp;</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>&nbsp;</td>
    <td><input type="text" placeholder="Enter phone number"
name="phone_no" id="phone_no"></td>
  </tr>
```



```
<tr></tr>

<tr></tr>

<tr>
    <td><label for="text">PASSWORD</label></td>
    <td>&nbsp;</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');
```

```
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 (password.value == "") {
    password.style.borderColor = "red";
}

}
```

</script>

```
</html>
```

Welcome.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;  
  }
```

```
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;  
}
```

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

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

```

        <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>

```

</td>

</tr>

<tr>

<td><i class="fa fa-twitter" style="font-size:36px"></i>

</td>

</tr>

</table>

</table>

</center>

</body>

</html>

App.py:

```
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};"
```



```
"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']
```

```
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 address"
# 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)
```

```
        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)
```

```
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:



