

Create IBM DB2 and connect with python

Project Name	Project - Plasma Donor App
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→ app.py

```
from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db

import re

app = Flask(__name__)

app.secret_key = 'a'

conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertificate=Certificate.crt;UID=jqy91109;PWD=jKfOzK88qIqZnQQK",'', '')

@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']
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password = request.form['password']

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

stmt = ibm_db.prepare(conn, 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:

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

    prep_stmt = ibm_db.prepare(conn, insert_sql)

    ibm_db.bind_param(prepare_stmt, 1, username)

    ibm_db.bind_param(prepare_stmt, 2, email_id)

    ibm_db.bind_param(prepare_stmt, 3, phone_no)

    ibm_db.bind_param(prepare_stmt, 4, password)

    ibm_db.execute(prepare_stmt)

    account = ibm_db.fetch_assoc(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)

if __name__ == "__main__":
    app.run(debug=True)

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

→ 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>
```

OUTPUT :

The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes options like Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The main content area displays a table named JQY91109.USER1. The table has four columns: USERNAME, EMAIL_ID, PHONE_NO, and PASSWORD. There are seven rows of data, including users like sneha, snehasounda, snehasounda1, sruthi, sus, and susanthikm. An 'Export to CSV' button is visible on the right side of the table.

USERNAME	EMAIL_ID	PHONE_NO	PASSWORD
sneha	sneha@gmail.com	2345	EIOJKDQdn
snehasounda	susa23@gmail.com	1212323462323	dfdfdf
snehasounda1	susa231@gmail.com	1	dfdfdf
sruthi	sruthi@gmail.com	2345	sruthi@2002
sus	susa@gmail.com	2345689045	dtujkutrrf
susanthikm	susa@gmail.com	2345	dtujkutrrf