

DB2 Connection

```
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=21fecfd8-47b7-4937-840d-
d791d0218660.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31864;SECURITY=SSL;SSLS
erverCertificate=DigiCertGlobalRootCA.crt;UID=gsp11422;PWD=ixh307unZlZgLLB9",";")

@app.route('/')

def homer():

    return render_template('home.html')

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

def login():

    global userid

    msg = ""

    if request.method == 'POST' :

        username = request.form['username']

        password = request.form['password']

        sql = "SELECT * FROM user WHERE username =? AND password=?"

        stmt = ibm_db.prepare(conn, sql)

        ibm_db.bind_param(stmt,1,username)
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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']

    userid= account['USERNAME']

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

    msg = 'Logged in successfully !'


    msg = 'Logged in successfully !'

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

else:

    msg = 'Incorrect username / password !'

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

```

```

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

def register():

    msg = ""

    if request.method == 'POST' :

        username = request.form['username']

        email = request.form['email']

        password = request.form['password']

        sql = "SELECT * FROM user WHERE username =?"

        stmt = ibm_db.prepare(conn, sql)

        ibm_db.bind_param(stmt,1,username)

        ibm_db.execute(stmt)

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```

account = ibm_db.fetch_assoc(stmt)

print(account)

if account:
    msg = 'Account already exists !'
elif not re.match(r'^@]+@[^@]+\.[^@]+', email):
    msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', username):
    msg = 'name must contain only characters and numbers !'
else:
    insert_sql = "INSERT INTO user 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)
    ibm_db.bind_param(prepare_stmt, 3, password)
    ibm_db.execute(prepare_stmt)
    msg = 'You have successfully registered !'
elif request.method == 'POST':
    msg = 'Please fill out the form !'
return render_template('register.html', msg = msg)

```

```
@app.route('/dashboard')
```

```
def dash():
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```
    return render_template('dashboard.html')
```

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

```
def apply():
```

```
    msg = "
```

```
    if request.method == 'POST' :
```

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

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

```

qualification= request.form['qualification']
skills = request.form['skills']
jobs = request.form['s']
sql = "SELECT * FROM user WHERE username =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
    msg = 'there is only 1 job position! for you'
    return render_template('apply.html', msg = msg)

```

```

insert_sql = "INSERT INTO job 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)
ibm_db.bind_param(prepare_stmt, 3, qualification)
ibm_db.bind_param(prepare_stmt, 4, skills)
ibm_db.bind_param(prepare_stmt, 5, jobs)
ibm_db.execute(prepare_stmt)
msg = 'You have successfully applied for job !'
session['loggedin'] = True
TEXT = "Hello,a new application for job position" +jobs+"is requested"

```

```
elif request.method == 'POST':  
    msg = 'Please fill out the form !'  
    return render_template('apply.html', msg = msg)
```

```
@app.route('/display')
```

```
def display():
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    print(session["username"],session['id'])
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```
    cursor = mysql.connection.cursor()
```

```
    cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
```

```
    account = cursor.fetchone()
```

```
    print("accountdisplay",account)
```

```
    return render_template('display.html',account = account)
```

```
@app.route('/logout')
```

```
def logout():
```

```
    session.pop('loggedin', None)
```

```
    session.pop('id', None)
```

```
    session.pop('username', None)
```

```
    return render_template('home.html')
```

```
if __name__ == '__main__':
```

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