IMPLEMENTING WEB APPLICATION

Create IBM DB2 and Connect with Python

Team ID	PNT2022TMID22144
Project Name	Skill Based Job Recommender
	Application

Code:

```
import Flask, render_template, request, redirect, url_for, session
import ibm db
import bcrypt
conn =
ibm db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertificate=
DigiCertGlobalRootCA.crt;UID=;PWD=",'','')
# url for('static', filename='style.css')
app = Flask(_name_)
app.secret key = b' 5#y2L"F4Q8z\n\xec]/'
@app.route("/",methods=['GET'])
def home():
   if 'email' not in session:
      return redirect(url for('login'))
    return render template('home.html',name='Home')
@app.route("/register",methods=['GET','POST'])
def register():
 if request.method == 'POST':
    email = request.form['email']
    username = request.form['username']
    rollNo = request.form['rollNo']
    password = request.form['password']
    if not email or not username or not rollNo or not password:
      return render_template('register.html',error='Please fill all fields')
    hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
```

```
query = "SELECT * FROM USER WHERE email=? OR rollNo=?"
    stmt = ibm_db.prepare(conn, query)
    ibm db.bind param(stmt,1,email)
    ibm_db.bind_param(stmt,2,rollNo)
    ibm db.execute(stmt)
    isUser = ibm db.fetch assoc(stmt)
    if not isUser:
      insert_sql = "INSERT INTO User(username,email,PASSWORD,rollNo) 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, hash)
      ibm db.bind param(prep stmt, 4, rollNo)
      ibm_db.execute(prep_stmt)
      return render_template('register.html', success="You can login")
    else:
      return render_template('register.html',error='Invalid Credentials')
  return render_template('register.html',name='Home')
@app.route("/login",methods=['GET','POST'])
def login():
    if request.method == 'POST':
      email = request.form['email']
      password = request.form['password']
      if not email or not password:
        return render template('login.html',error='Please fill all fields')
      query = "SELECT * FROM USER WHERE email=?"
      stmt = ibm_db.prepare(conn, query)
      ibm db.bind param(stmt,1,email)
      ibm db.execute(stmt)
      isUser = ibm db.fetch assoc(stmt)
      print(isUser,password)
      if not isUser:
        return render_template('login.html',error='Invalid Credentials')
      isPasswordMatch = bcrypt.checkpw(password.encode('utf-
8'),isUser['PASSWORD'].encode('utf-8'))
      if not isPasswordMatch:
```

```
return render_template('login.html',error='Invalid Credentials')

session['email'] = isUser['EMAIL']
    return redirect(url_for('home'))

return render_template('login.html',name='Home')

@app.route('/logout')
def logout():
    session.pop('email', None)
    return redirect(url_for('login'))
```

Outputs:





