## **IBM DB2 with PYTHON**

Team ID	PNT2022TMID41314	
Project Name	Smart Fashion	
	Recommender Application	

## **TASK:**

Create IBM DB2 and Connect with Python

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=b70a f05b-76e4-4bca-a1f5-

23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificate=DigiCert

```
GlobalRootCA.crt;UID=kmz12090;PWD=Y3bxFYobLHdUjeXy
@app.route("/", 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 users 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 = 'Account already exists!'
     elif not re.match(r'[^{\circ}@]+@[^{\circ}@]+\.[^{\circ}@]+', 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 users 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, password)
       ibm_db.execute(prep_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('/login', methods=['GET', 'POST'])
def login():
  global userid
  msg = "
  if request.method == 'POST':
    username = request.form['username']
```

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password = request.form['password']
    sql = "SELECT * FROM users WHERE username =? AND
password=?"
    stmt = ibm_db.prepare(conn, sql)
    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']
       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)
```

```
if __name__ == '__main__':
    app.run(host='0.0.0.0')
# app.run(debug=True)
```

```
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=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SS
LServerCertificate=DigiCertGlobalRootCA.crt;UID=kmz12090;PWD=Y3bxFYobLHdUjeXy;",'','')
@app.route("/", 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 users 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 = 'Account already exists !'
        elif not re.match(r'[^0]+@[^0]+\.[^0]+', 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 users 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, password)
            ibm_db.execute(prep_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('/login', methods=['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =? AND password=?"
        stmt = ibm_db.prepare(conn, sql)
        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)
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if account:
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              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)
if name == ' main ':
    app.run(host='0.0.0.0')
    # app.run(debug=True)
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