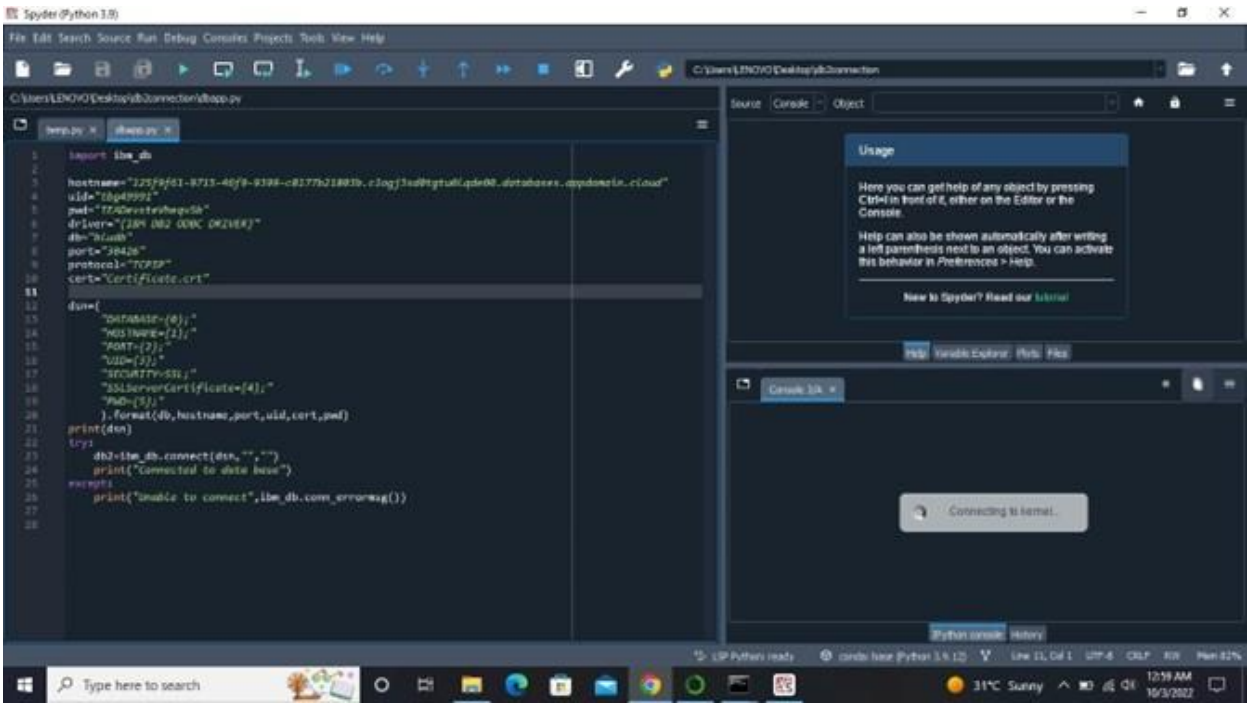
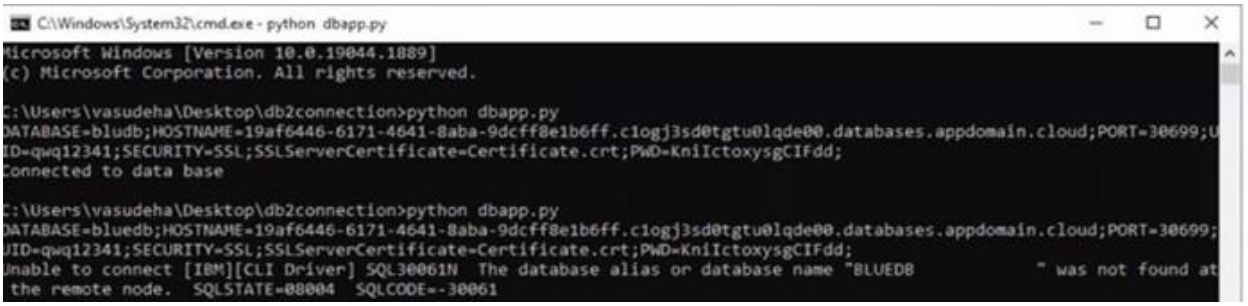
IBM DB2 and Connect with python

Project Title : News Tracker Application
Team Id : PNT2022TMID45933

Create the IBM Db2 service in the IBM cloud and connect the python code with DB.





APP.PY

```
from flask import Flask,render_template,request,session
import ibm_db
import re
app=Flask(_name_)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bluedb;HOSTNAME=fbd88901-ebdb-4a4f-a32e
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;SECURITY=SSL;SSLS
E RVERCERTIFICATE=DigiCertGlobalRootCA.crt;UID=ftz27186;PWD=pwV52WSdXDAHVnLP",'','')
@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 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']
    msg = 'Logged in succesfully !'
    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 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'[^@]+[^@]+\.[^@]+',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 sucsessfully registered !'
  elif request.method == 'POST' :
  msg = 'Please fill out the form !'
  return render_template('register.html', msg = msg)
@app.route('/dashboard')
 def dash():
  return render_tempplate('dashboard.html')
@app.route('/apply',method =['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 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 = '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(prep_stmt, 1, username)
  ibm_db.bind_param(prep_stmt, 2, email)
  ibm_db.bind_param(prep_stmt, 3, qualification)
  ibm_db.bind_param(prep_stmt, 4, skills)
  ibm_db.bind_param(prep_stmt, 5, jobs)
  ibm_db.execute(prep_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('register.html', msg = msg)
@app.route('/display')
def display():
 print(session["usename"],session[id])
 cursor=mysql.connection.cursor()
 cursor,execute('selet*from job where userid = 5 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')
```