Implementing Web Application

Personal Expense Tracker Application
PNT2022TMID42840

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=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=jzc43091;PWD=PI8VtGRvZlSVT65A",",")
@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']
                                             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
              msg = "if request.method ==
register():
'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 (?, ?, ?)"
```