**IBM DB2 with PYTHON**

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**TASK:**

# Create IBM DB2 and Connect with Python

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| from email.mime import image from flask import Flask, render\_template, request, redirect, url\_for, session import ibm\_db import re app = Flask( name )    conn=ibm\_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-  8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=  XHzCZLrUPYhyRiHW;", "", "")    @app.route('/')  @app.route('/login', methods =['GET', 'POST']) def login():  msg = ''  if request.method == 'POST' and 'email' in request.form and 'password' in  request.form: username =  request.form['email'] password = request.form['password'] stmt = ibm\_db.exec\_immediate(conn,'SELECT \* FROM PRIYA\_DB WHERE email = %  s AND password = % s', (email, password, )) account = ibm\_db.fetch\_both(stmt) if username==password:  session['loggedin'] = True session['id'] = account['id'] session['email'] = account['email'] msg = 'Logged in successfully !' |

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| return render\_template('index.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' and 'username' in request.form and  'password' in request.form and 'email' in request.form and 'roll\_no' in request.form : roll\_no = request.form['roll\_no'] username = request.form['username']  password = request.form['password'] cpassword = request.form['cpassword'] email = request.form['email'] conn=ibm\_db.connect("DATABASE=bludb;HOSTNAME=98538591-72174024-b027-  8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T  CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=  XHzCZLrUPYhyRiHW;", "", "") stmt =  ibm\_db.exec\_immediate(conn,'SELECT \* FROM PRIYA\_DB') if email==cpassword:  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 = 'Username must contain only characters and numbers !' elif not username or not password or not email:  msg = 'Please fill out the form !'  else:  sql=ibm\_db.exec\_immediate(conn,'INSERT INTO PRIYA\_DB (roll\_no,  username, email, password, cpassword) VALUES (%s, % s, % s, % s)')  msg = 'You have successfully registered !' print("you have successfully registered!") return redirect(url('/login'))  elif request.method == 'POST': msg = 'Please fill out the form !'  return render\_template('signup.html', msg = msg) if name ==' main\_\_': app.run(debug=True)  import ibm\_db  ibm\_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-  8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD= XHzCZLrUPYhyRiHW;", "", "") |

