IMPLEMENTING WEB APPLICATION
IBM DB2 WITH PYTHON

TASK ID	TSK-415560
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PROJECT NAME	NEWS TRACKER APPLICATION

TASK:

Create IBM DB2 and Connect with Python

```python
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=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud";PORT=32731;PROTOCOL=
TCPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=zyf41416;PWD
=PbjPdJu9EAfHvrcm;", "", "")

@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 Parvathi_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 !'
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=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;PROTOCOL=T
CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=zyf41416;PWD=
PbjPdJu9EAfHvrcm;", "", "")
stmt = ibm_db.exec_immediate(conn,'SELECT * FROM Parvathi_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:
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msg = 'Please fill out the form !' else:
sql=ibm_db.exec_immediate(conn,'INSERT INTO Parvathi_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)
```