

## IMPLEMENTING WEB APPLICATION IBM DB2 WITH PYTHON

TASK ID	TSK-415560
TEAM ID	PNT2022TMID44585
DATE	11.11.2023
PROJECT NAME	NEWS TRACKER APPLICATION

### TASK:

#### Create IBM DB2 and Connect with 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=54a2f15b-5c0f-46df-8954-7e38e612c2bd.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;PROTOCOL=TCPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=<userid>;PWD=<your_password>;", "", "")

@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 KIRUTHIKA 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=b1bc1829-6f45-4cd4-bef4-
10cf081900bf.clogj3sd0tgtu0lqde00.databases.appdomain.cloud";PORT=32304;PROTOCOL=TCPIP;SECURITY=SSL
;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=XHzCZLrUPYhyRiHW;","","")
stmt = ibm_db.exec_immediate(conn,'SELECT * FROM KIRUTHIKA')
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 KIRUTHIKA (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)

```

Service Details - IBM Cloud x IBM Db2 on Cloud x +

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F1843bdebd064e97a631ba5d...

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

MVK78607.KIRUTHIKA Back

Export to CSV

user name	roll number	email id	PASSWORD	c password
kiruthika	8	keerthi@gmail.com	12345	12345
parvathi	12	paru@gmail.com	45678	45678
sasiraj	17	sasi@gmail.com	34567	34567
shalini	18	shalu@gmail.com	23456	23456
shalini	18	shalu@gmail.com	23456	23456

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