

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=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 SASIRAJ 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=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;PROTOCOL=TCPIP;SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pkf76486;PWD=e2L60BNispZyEaxR;", "", "")
stmt = ibm_db.exec_immediate(conn,'SELECT * FROM SASIRAJ')
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 SASIRAJ (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)

```

Starred - sasiraj2866@gmail.com x 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%2Fc3667c7524c14610878e09ea1e85c...

IBM Db2 on Cloud

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

PKF76486.SAMPLE Back

Export to CSV

USER NAME	ROLL NO	PASSWORD	CONFIRM PASSWORD	EMAIL
KIRUTHIKA	8	KEERTHI	KEERTHI	kiruthika@gmail.com
PARVATHI	12	PARVATHI	PARVATHI	parvathi@gmail.com
SASIRAJ	17	SASI	SASI	sasi@gmail.com
SHALINI	18	SHALINI	SHALINI	shalini@gmail.com

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IN 11/10/2022