

IBM DB2 CONNECT WITH PYTHON

Team ID	PNT2022TMID01370
Project Name	Smart Fashion Recommender Application

IBM db2 program:

```
import ibm_db

dictionary={}

def printTableData(conn):
    sql = "SELECT * FROM
    userdetails"
    out = ibm_db.exec_immediate(conn, sql)
    document =
    ibm_db.fetch_assoc(out)
    while document != False:
        dictionary.update({ document['USERNAME']:document['PASSWORD']})
        document =ibm_db.fetch_assoc(out)
    def insertTableData(conn,rollno,username,email,password):
        sql="INSERT INTO userdetails(rollno,username,email,password) VALUES
        ({},'{'','{'','{'})".format(rollno,username,email,password)
        out =
        ibm_db.exec_immediate(conn,sql)
        print('Number of affected rows :
        ',ibm_db.num_rows(out),"\\n")
    def
    updateTableData(conn,rollno,username,email,password):
        sql = "UPDATE userdetails SET
        (username,email,password)=({'','{'','{'}) WHERE
        rollno={}".format(username,email,password,rollno)
```

```

out = ibm_db.exec_immediate(conn,
sql)
print('Number of affected rows : ', ibm_db.num_rows(out), "\n")
def
deleteTableData(conn,rollno):
    sql = "DELETE FROM userdetails WHERE
rollno={ }".format(rollno)
    out = ibm_db.exec_immediate(conn, sql)
    print('Number
of affected rows : ', ibm_db.num_rows(out), "\n")
try:

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-
86b520b87518.bs2io90l
08kqb1od8lcg.databases.appdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertifi
cate=DigiCertGlo
balRootCA.crt;PROTOCOL=TCPIP;UID=bjn03696;PWD=ef96tLJX2VjzaCPX;", "",
"")
    print("Db connected")
except:
    print("Error")

```

Connect db2 to python:

```

from flask import Flask,render_template,request,url_for,session
app=Flask(__name__)
@app.route("/")
@app.route("/login",methods=['POST','GET'])
def login():
    if
request.method=="POST":
printTableData(conn)

```

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username=request.form['username']
password=request.form['password']
try:

if dictionary[username] == password and username in dictionary:

return "Logged in successfully"
except:
return "Invalid
username or password"
return
render_template('loginpage.html')
@app.route("/register",methods=['POST','GET'])
def register():
if request.method=="POST":
rollno =
request.form['rollno']
username = request.form['username']
email =
request.form['email']
password = request.form['password']

insertTableData(conn, rollno, username, email, password)
return
render_template('loginpage.html')
return render_template('registerpage.html')
if
__name__=="__main__":

app.run(debug=True)q
late,request,url_for,session
app=Flask(__name__)

```

```

@app.route("/&quo
t;)
@app.route("/login",methods=['POST','GET'])
def login():
    if
    request.method=="POST":
    printTableData(conn)

    username=request.form['username']
    password=request.form['password']
    try:

    if dictionary[username] == password and username in dictionary:

    return "Logged in successfully"
    except:
    return "Invalid
    username or password"
    return render_template('log')

```