Implementing Web Application

Project Name	Smart Fashion Recommender Application
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Create IBM Db2 And Connect With Python:

```
from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db import re


app = Flask(__name__)


app.secret_key = 'a'


conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=jzc43091;PWD=PI8VtGRvZlSVT65A","","")


@app.route('/') def

homer():

    return render_template('home.html')



@app.route('/login',methods =['GET', 'POST'])

def login():    global userid    msg = ''



  if request.method == 'POST' :
     username = request.form['username']

password = request.form['password']

     sql = "SELECT * FROM users WHERE username =? AND password=?"

stmt = ibm_db.prepare(conn, sql)        ibm_db.bind_param(stmt,1,username)
```

```python
ibm_db.bind_param(stmt,2,password)        ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)        print (account)        if account:
            session['loggedin'] = True            session['id']
=  account['USERNAME']                        userid=
account['USERNAME']            session['username'] =
account['USERNAME']                msg = 'Logged in
successfully !'


            msg = 'Logged in successfully !'
            return render_template('dashboard.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' :        username =
request.form['username']        email =
request.form['email']        password =
request.form['password']
        sql = "SELECT * FROM users WHERE username =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.execute(stmt)        account =
ibm_db.fetch_assoc(stmt)        print(account)        if
account:
            msg = 'Account already exists !'        elif not
re.match(r'[^@]+@[^@]+\.[^@]+', email):
```

```python
        msg = 'Invalid email address !'        elif
not re.match(r'[A-Za-z0-9]+', username):

        msg = 'name must contain only characters and numbers !'
else:

        insert_sql = "INSERT INTO  users VALUES (?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)        msg = 'You have
successfully registered !'    elif request.method == 'POST':

    msg = 'Please fill out the form !'    return
render_template('register.html', msg = msg)


if __name__ == '__main__':
app.run(host='0.0.0.0')
```