Implementing Web Application

Project Name	Plasma Donor Application
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Create IBM Db2 And Connect With Python:

```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)
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```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):
```

```
            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')
```