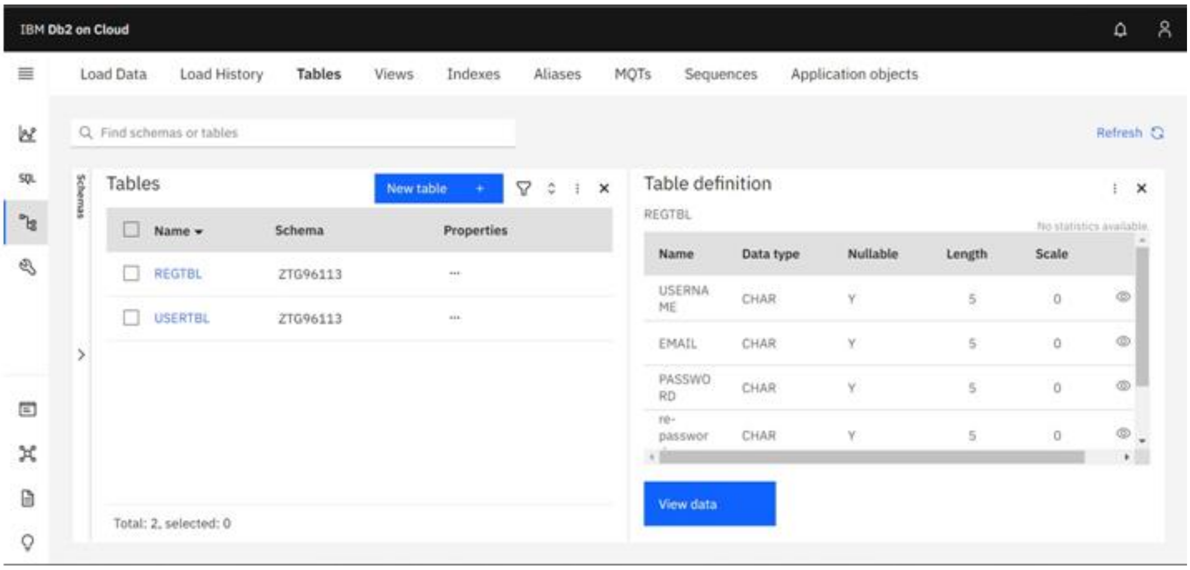
IMPLEMENTING WEB APPLICATION

Create IBM DB2 And Connect With Python

Team ID	PNT2022TMID49331
Project Name	Plasma Donor Application

IBM DB2:

STEP 1: In IBM Db2 Create A table And Enter Table name ,column name,Row name, And Set Data Type



Tables

☐ Name	Schema	Properties
☐ REGTBL	ZTG96113	···
☐ USERTBL	ZTG96113	···

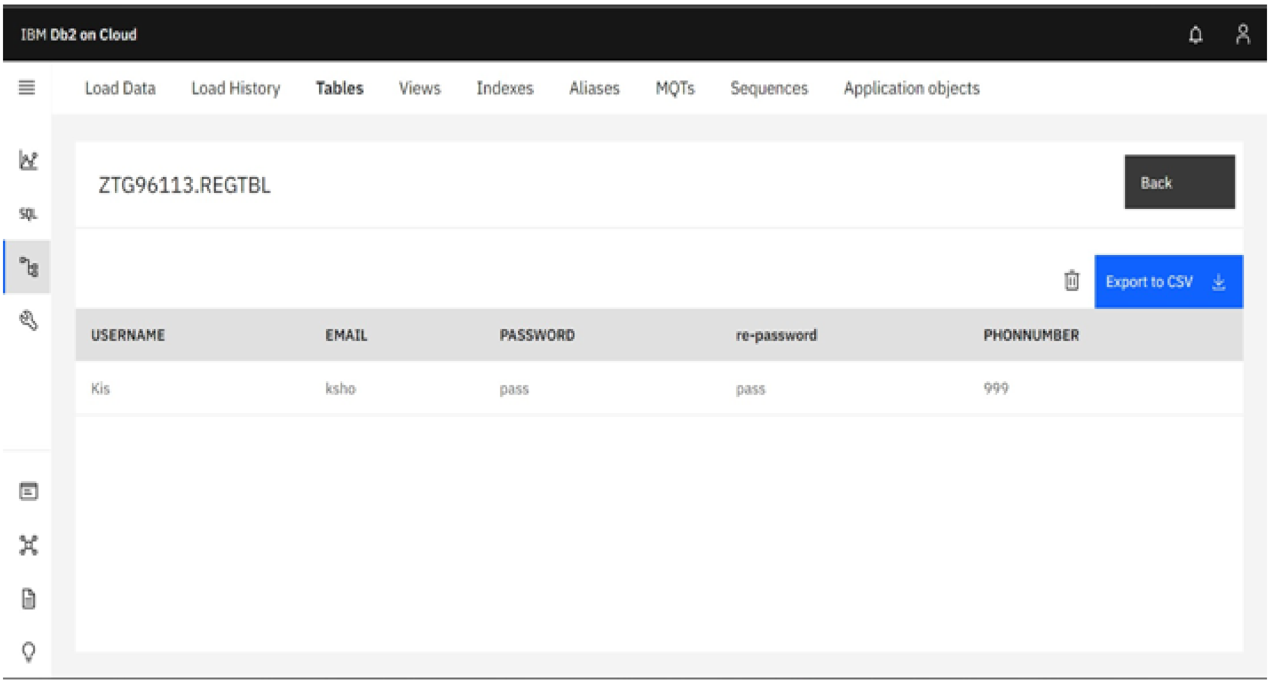
Total: 2, selected: 0

Table definition

REGTBL

No statistics available

Name	Data type	Nullable	Length	Scale
USERNAME	CHAR	Y	5	0
EMAIL	CHAR	Y	5	0
PASSWORD	CHAR	Y	5	0
re-passwor	CHAR	Y	5	0

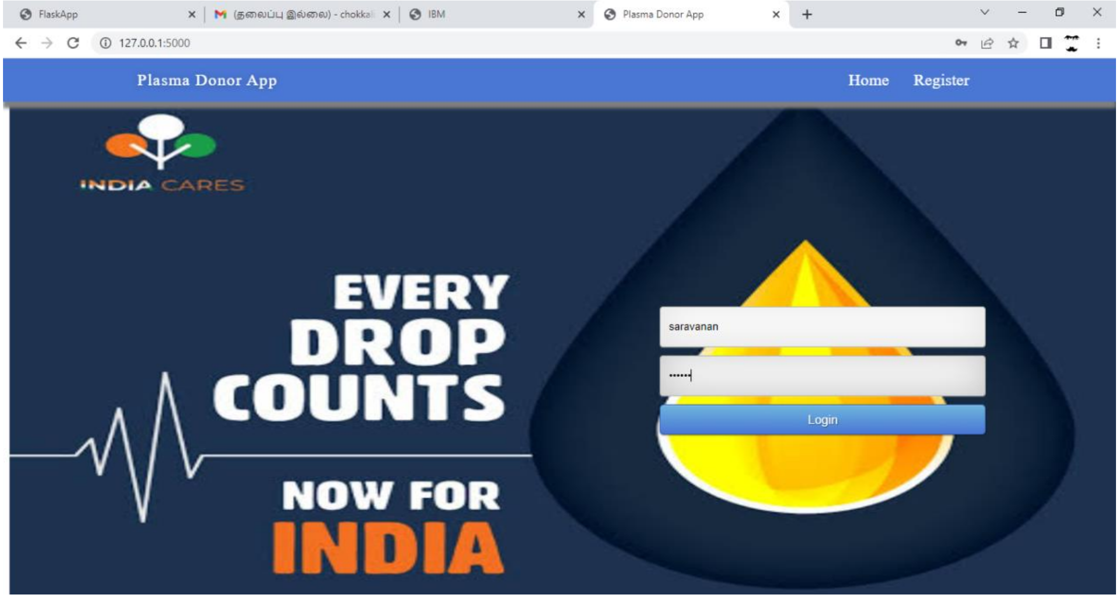


ZTG96113.REGTBL

USERNAME	EMAIL	PASSWORD	re-password	PHONNUMBER
Kis	ksho	pass	pass	999

Login Page:

Step 2: Already Registered User Enter Their Name and Password To Login

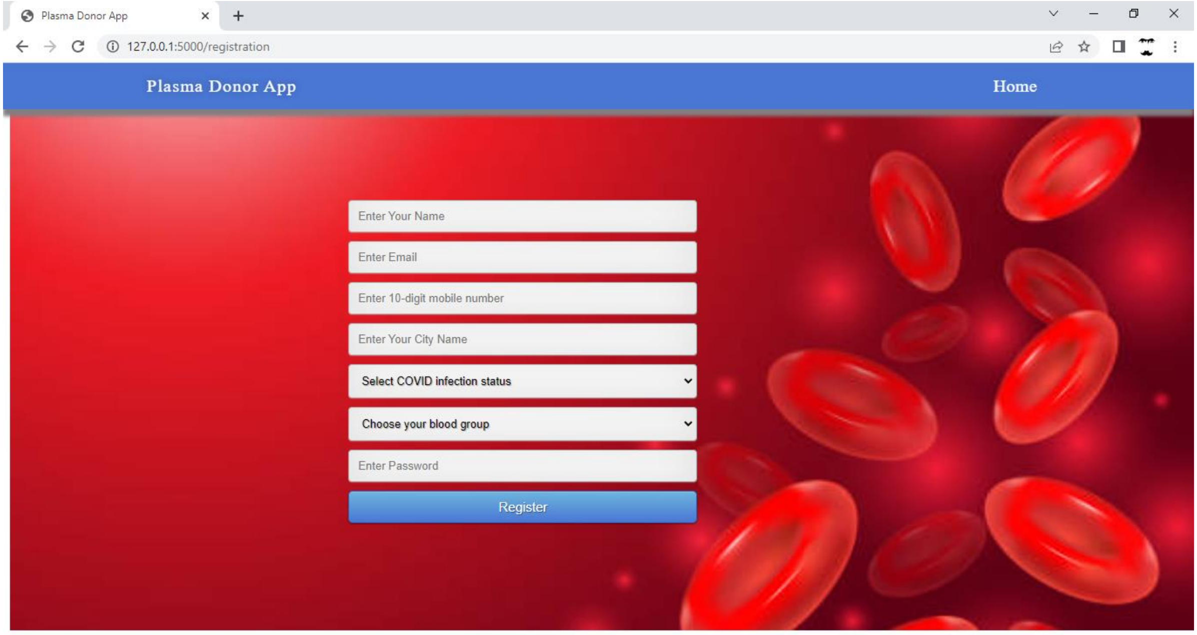


saravanan

••••••

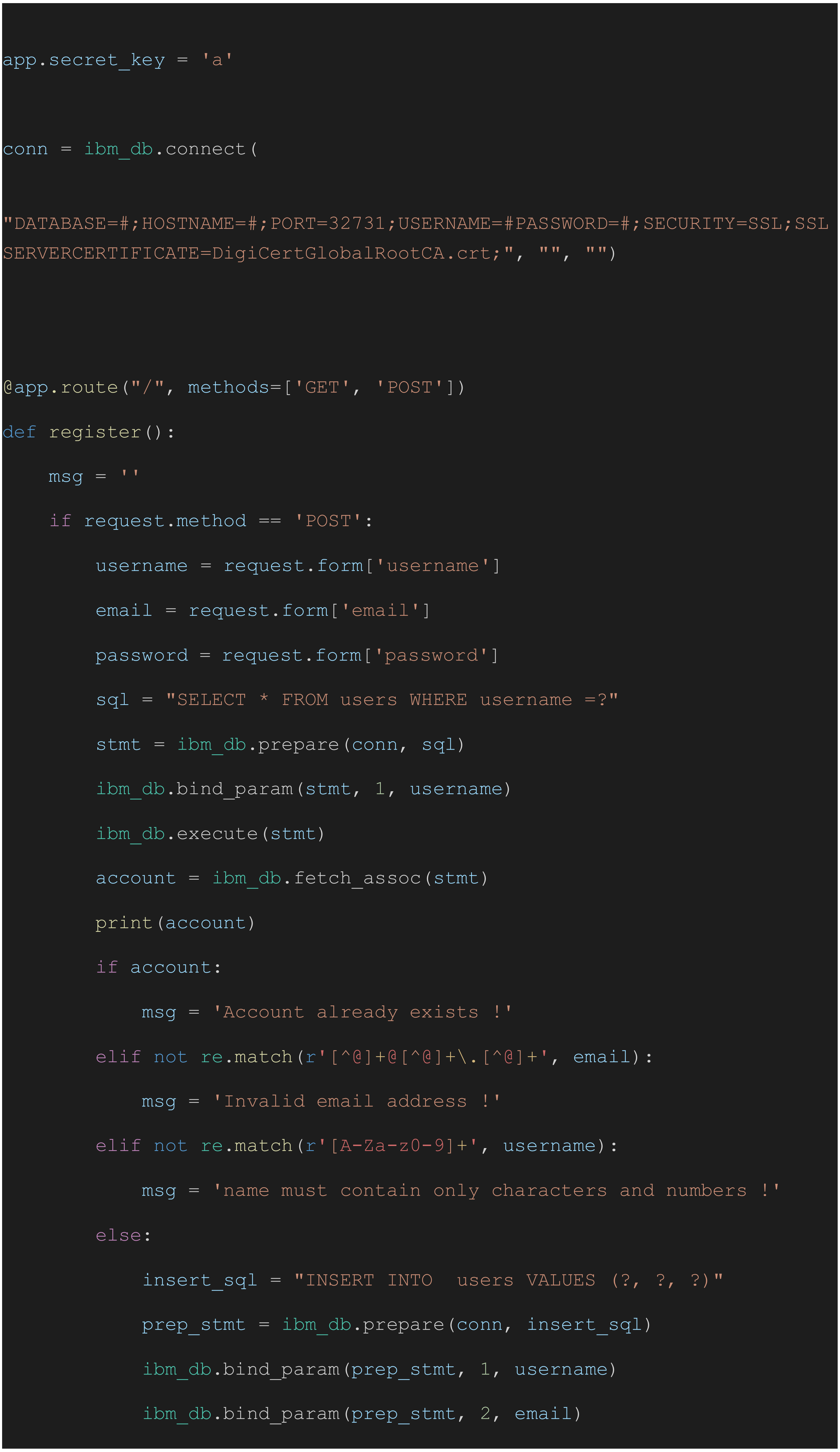
Registeration Page:

Step 3: New User Please Fill The Registeration Form Details And Go To Login

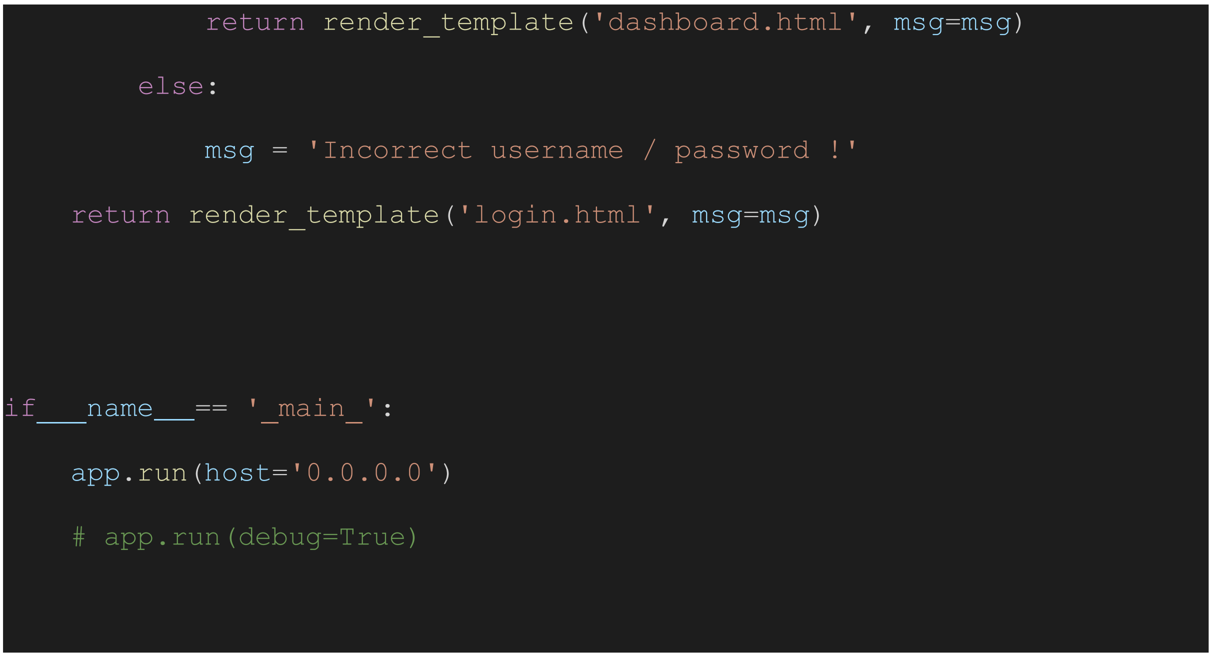


App.py

```
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=#;HOSTNAME=#;PORT=32731;USERNAME=#PASSWORD=#;SECURITY=SSL;SSL
SERVERCERTIFICATE=DigiCertGlobalRootCA.crt;", "", "")


@app.route("/", 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.bind_param(prep_stmt, 4, re-password)
            ibm_db.bind_param(prep_stmt, 6, phonnumber)
            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)



@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)
        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)



if___name__== '_main_':

    app.run(host='0.0.0.0')

    # app.run(debug=True)
```