Requirements:

As a user, I will receive confirmation email once I have reaistered for the application

Join the application to IBM db-2

from distutils.log import debug

from sendgridmail import sendmail

from flask import Flask, render\_template, request, redirect, url\_for, session

import ibm\_db

import re

import os

from dotenv import load\_dotenv

load\_dotenv()

app = Flask(\_\_name\_\_)

app.secret\_key = 'a'

conn=ibm\_db.connect(os.getenv('DB\_KEY'),"","")

@app.route('/')

@app.route('/login')

def login():

return render\_template('login.html')

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

def loginpage():

global userid

msg = ''

if request.method == 'POST' :

username = request.form['username']

password = request.form['password']

sql = "SELECT \* FROM donors 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 !'

sendmail(account['EMAIL'],'Plasma donor App login','You are successfully logged in!')

return redirect(url\_for('dash'))

else:

msg = 'Incorrect username / password !'

return render\_template('login.html', msg = msg)

@app.route('/registration')

def home():

return render\_template('register.html')

@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']

phone = request.form['phone']

city = request.form['city']

infect = request.form['infect']

blood = request.form['blood']

sql = "SELECT \* FROM donors 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 donors 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, city)

ibm\_db.bind\_param(prep\_stmt, 5, infect)

ibm\_db.bind\_param(prep\_stmt, 6, blood)

ibm\_db.bind\_param(prep\_stmt, 7, phone)

ibm\_db.execute(prep\_stmt)

msg = 'You have successfully registered !'

sendmail(email,'Plasma donor App Registration','You are successfully Registered {}!'.format(username))

elif request.method == 'POST':

msg = 'Please fill out the form !'

return render\_template('register.html', msg = msg)

@app.route('/dashboard')

def dash():

if session['loggedin'] == True:

sql = "SELECT COUNT(\*), (SELECT COUNT(\*) FROM DONORS WHERE blood= 'O Positive'), (SELECT COUNT(\*) FROM DONORS WHERE blood='A Positive'), (SELECT COUNT(\*) FROM DONORS WHERE blood='B Positive'), (SELECT COUNT(\*) FROM DONORS WHERE blood='AB Positive'), (SELECT COUNT(\*) FROM DONORS WHERE blood='O Negative'), (SELECT COUNT(\*) FROM DONORS WHERE blood='A Negative'), (SELECT COUNT(\*) FROM DONORS WHERE blood='B Negative'), (SELECT COUNT(\*) FROM DONORS WHERE blood='AB Negative') FROM donors"

stmt = ibm\_db.prepare(conn, sql)

ibm\_db.execute(stmt)

account = ibm\_db.fetch\_assoc(stmt)

print(account)

return render\_template('dashboard.html',b=account)

else:

msg = 'Please login!'

return render\_template('login.html', msg = msg)

@app.route('/requester')

def requester():

if session['loggedin'] == True:

return render\_template('request.html')

else:

msg = 'Please login!'

return render\_template('login.html', msg = msg)

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

def requested():

bloodgrp = request.form['bloodgrp']

address = request.form['address']

name= request.form['name']

email= request.form['email']

phone= request.form['phone']

insert\_sql = "INSERT INTO requested VALUES (?, ?, ?, ?, ?)"

prep\_stmt = ibm\_db.prepare(conn, insert\_sql)

ibm\_db.bind\_param(prep\_stmt, 1, bloodgrp)

ibm\_db.bind\_param(prep\_stmt, 2, address)

ibm\_db.bind\_param(prep\_stmt, 3, name)

ibm\_db.bind\_param(prep\_stmt, 4, email)

ibm\_db.bind\_param(prep\_stmt, 5, phone)

ibm\_db.execute(prep\_stmt)

sendmail(email,'Plasma donor App plasma request','Your request for plasma is recieved.')

return render\_template('request.html', pred="Your request is sent to the concerned people.")

@app.route('/logout')

def logout():

session.pop('loggedin', None)

session.pop('id', None)

session.pop('username', None)

return render\_template('login.html')

if \_\_name\_\_ == '\_\_main\_\_':

app.run(host='0.0.0.0',debug='TRUE')