from flask import Flask,redirect,url\_for,render\_template,request,make\_response,jsonify,request

import ibm\_db

from flask import request

import json

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=21fecfd8-47b7-4937-840d-d791d0218660.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31864;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA;UID=sks13376;PWD=ihddRZZDMYcdcjin",'','')

print(conn)

print("connection successful...")

app = Flask(\_\_name\_\_,template\_folder='template')

@app.route('/')

def home():

return render\_template("landing.html")

@app.route('/home')

def dash():

return render\_template("dashboard.html")

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

def login():

if request.method=='POST':

username = request.form['username']

password = request.form['password']

sql = "select \* from user 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)

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

print(dic)

requests = []

if dic:

role = dic['ROLE']

# sql = "select \* from user where blood\_group=?"

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

# ibm\_db.bind\_param(stmt, 1, username)

# ibm\_db.execute(stmt)

# dic = ibm\_db.fetch\_assoc(stmt)

# while dic != False:

# single\_request = {

# 'name': dic['NAME'],

# 'age': dic['AGE'],

# 'sex': dic['SEX'],

# 'blood\_type': dic['BLOOD\_TYPE']

# }

# print(single\_request)

# requests.append(single\_request)

# dic = ibm\_db.fetch\_assoc(stmt)

return render\_template('dashboard.html',username=username,role=role)

else:

return render\_template('login.html')

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

else:

print("else")

return render\_template('login.html')

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

def signup():

if request.method=='POST':

username = request.form['username']

email = request.form['email']

password = request.form['password']

roll\_no = request.form['roll\_no']

sex = request.form['sex']

age = request.form['age']

address = request.form['address']

blood\_group = request.form['blood\_group']

sql = "insert into user values(?,?,?,?,?,?,?,?,?)"

prep\_stmt = ibm\_db.prepare(conn,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,roll\_no)

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

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

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

ibm\_db.bind\_param(prep\_stmt,8, address)

ibm\_db.bind\_param(prep\_stmt,9, blood\_group)

ibm\_db.execute(prep\_stmt)

#db post operation

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

elif request.method=='GET':

return render\_template('signup.html')

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

def toggle\_user():

data = request.get\_json(force=True)

username =data['username']

role = data['role']

print(username)

print(role)

sql = "update user set role=? where username=?"

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

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

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

ibm\_db.execute(prep\_stmt)

return jsonify(

status = "success",

role = role

)

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

def requestBloodPlasma():

#fetch mail address of the donors

username = request.form['username']

name = request.form['name']

age = request.form['age']

sex = request.form['sex']

blood\_type = request.form['bloodtype']

sql = "select email from user where blood\_group=?"

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

ibm\_db.bind\_param(stmt, 1, blood\_type)

ibm\_db.execute(stmt)

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

while dic!=False:

print(dic['email'])

#send mail

#insert data into requests table

sql = "insert into bloodrequests(username,name,age,sex,blood\_type) values (?,?,?,?,?)"

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

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

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

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

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

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

ibm\_db.execute(prep\_stmt)

return jsonify(

name = name,

age = age,

sex = sex,

bloodtype = blood\_type,

status = "yes"

)

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

def getBloodRequests():

data = request.get\_json(force=True)

username =data['username']

sql = "select \* from bloodrequests where username=?"

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

ibm\_db.bind\_param(stmt, 1, username)

ibm\_db.execute(stmt)

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

requests = []

print(dic)

while dic != False:

single\_request = {

'name':dic['NAME'],

'age':dic['AGE'],

'sex':dic['SEX'],

'blood\_type':dic['BLOOD\_TYPE']

}

print(single\_request)

requests.append(single\_request)

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

return jsonify(

username = username,

requests = requests

)

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

app.run(host="0.0.0.0",debug = True)