

Create IBM DB2 and Connect With Python

Login.html:

```
<!DOCTYPE html>

<html >

<!--From https://codepen.io/frytyler/pen/EGdtg-->

<head>

  <meta charset="UTF-8">

  <title>IBM Donor App</title>

  <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>

  <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>

  <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>

  <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet'
type='text/css'>

  <link rel="stylesheet" href="{ { url_for('static', filename='style.css') } }">


<style>

.login{
top: 20%;
}

</style>

</head>


<body>

<div class="header">

<div>Plasma Donor App</div>

  <ul>


    <li><a href="/registration">Register</a></li>

    <li><a class="active" href="/login">Home</a></li>

  </ul>

</div>
```

```

<div class="login" >

    <div>

    </div>

    <!-- Main Input For Receiving Query to our ML -->

    <form action="{{ url_for('loginpage')}}" method="post">

        <input type="text" name="username" placeholder="Enter UserName" required="required"
style="color:black" />

        <input type="password" name="password" placeholder="Enter Password" required="required"
style="color:black" />

        <button type="submit" class="btn btn-primary btn-block btn-large">Login</button>

    </form>

<br><br>
<div style="color:black">
    {{ msg }}</div>
</div>

</body>
</html>

```

App.py

```

from distutils.log import debug
# from sendgridmail import sendmail
from flask import Flask, render_template, request, redirect, url_for, session
from flask_mail import Mail, Message
import re
import os
import ibm_db
from dotenv import load_dotenv

load_dotenv()

app = Flask(__name__)

```

```

app.secret_key = 'a'

print("Try to connect to Db2")

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-
10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;UID=ljh94224;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PWD=xyRGGrmo8S5w73Q20", "",")

print("Connected Successfully")

```

```

app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL_PORT'] = 465
app.config['MAIL_USERNAME'] = 'cse19.mohamedmahroof@petengg.ac.in'
app.config['MAIL_PASSWORD'] = 'MOHAMEDMAHROOF'
app.config['MAIL_USE_TLS'] = False
app.config['MAIL_USE_SSL'] = True
mail = Mail(app)

```

```

@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 !'

    index(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("ac",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(prepare_stmt, 1, username)

    ibm_db.bind_param(prepare_stmt, 2, password)

    ibm_db.bind_param(prepare_stmt, 3, email)

    ibm_db.bind_param(prepare_stmt, 4, phone)

    ibm_db.bind_param(prepare_stmt, 5, city)

    ibm_db.bind_param(prepare_stmt, 6, infect)

    ibm_db.bind_param(prepare_stmt, 7, blood)


    ibm_db.execute(prepare_stmt)

    msg = 'You have successfully registered, !'

    index(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(prepare_stmt, 1, bloodgrp)
    ibm_db.bind_param(prepare_stmt, 2, address)
    ibm_db.bind_param(prepare_stmt, 3, name)
    ibm_db.bind_param(prepare_stmt, 4, email)
    ibm_db.bind_param(prepare_stmt, 5, phone)
    ibm_db.execute(prepare_stmt)
    index(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.")

```

```
def index(usermail,subject,content):
```

```
    msg = Message(subject, sender = 'cse19.mohamedmahroof@petengg.ac.in', recipients = [usermail])
```

```
    msg.body = format(content)
```

```
    mail.send(msg)
```

```
    return "Sent"
```

```
@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")
```

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Db2

A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.

Create About

Type Service

Provider IBM

Last updated 11/10/2022

Category Databases

Compliance EU Supported HIPAA Enabled IAM-enabled

Location Sydney

Select a location

Dallas (us-south)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free

Summary

Db2 Free

Location: Dallas

Plan: Lite

Service name: Db2-0p

Resource group: Default

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Find schemas or tables Refresh

Schemas

<input checked="" type="checkbox"/>	Name	Type	Tables
<input checked="" type="checkbox"/>	LJH94224	User	2

Total: 1, selected: 1

Tables

<input type="checkbox"/>	Name	Schema	Properties
<input type="checkbox"/>	DONORS	LJH94224	...
<input type="checkbox"/>	REQUESTED	LJH94224	...

Total: 2, selected: 0

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/.../index.html

Type here to search

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Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables Refresh

Tables

<input type="checkbox"/>	Name	Schema	Properties
<input type="checkbox"/>	DONORS	LJH94224	...
<input type="checkbox"/>	REQUESTED	LJH94224	...

Total: 2, selected: 0

Table definition

DONORS

Approximate 11 rows (32.0 KB)
Updated on 2022-11-16 15:42:41

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	30	0
PASSWORD	VARCHAR	Y	30	0
EMAIL	VARCHAR	Y	30	0
PHONE	VARCHAR	Y	10	0

View data

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Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

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SQL

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LJH94224.DONORS

Back

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USERNAME	PASSWORD	EMAIL	PHONE	CITY	INFECT	BLOOD
PRADEESH	9940588112	cse19.pradeesh@petengg.ac.in	6379607796	vallioor	uninfected	B Positive
Riyaz	riyaz@1111	cse19.riyaz@petengg.ac.in	8682920165	Tirunelveli	uninfected	B Positive
ali	1234	msali072371@gmail.com	9047255355	Tirunelveli	uninfected	A Positive
mahroof	12345	mohamedmahroof25@gmail.com	9488147782	Thuckalay	infected	A Positive
mlakshmi	456	msali072371@gmail.com	1234567890	s	infected	A Positive
mlakshmii	123	cse19.shahin@petengg.ac.in	1234567890	Tirunelveli	infected	A Positive

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