## 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'</pre>
type='text/css'>
        k 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>
                 <a href="/registration">Register</a>
                 <a class="active" href="/login">Home</a>
        </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=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PWD=xyRGrmo8S5w73Q20", ",")
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'[^{\circ}@]+@[^{\circ}@]+\.[^{\circ}@]+', 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, password)
       ibm_db.bind_param(prep_stmt, 3, email)
       ibm_db.bind_param(prep_stmt, 4, phone)
       ibm_db.bind_param(prep_stmt, 5, city)
       ibm_db.bind_param(prep_stmt, 6, infect)
       ibm_db.bind_param(prep_stmt, 7, blood)
       ibm_db.execute(prep_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"
```

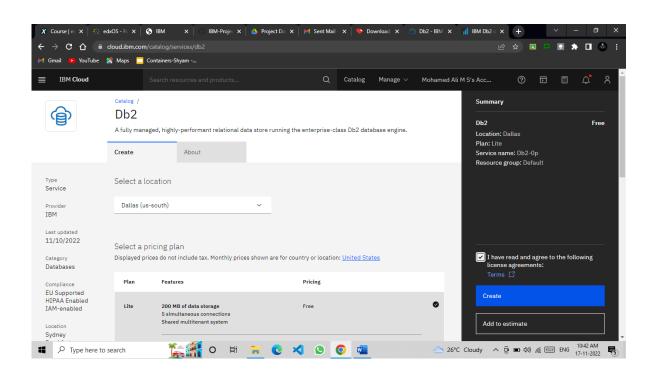
```
stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    return render template('dashboard.html',b=account)
  else:
    msg = 'Please login!'
    return render_template('login.html', msg = msg)
@app.route('/requester')
def requester():
  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(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)
  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.")
```

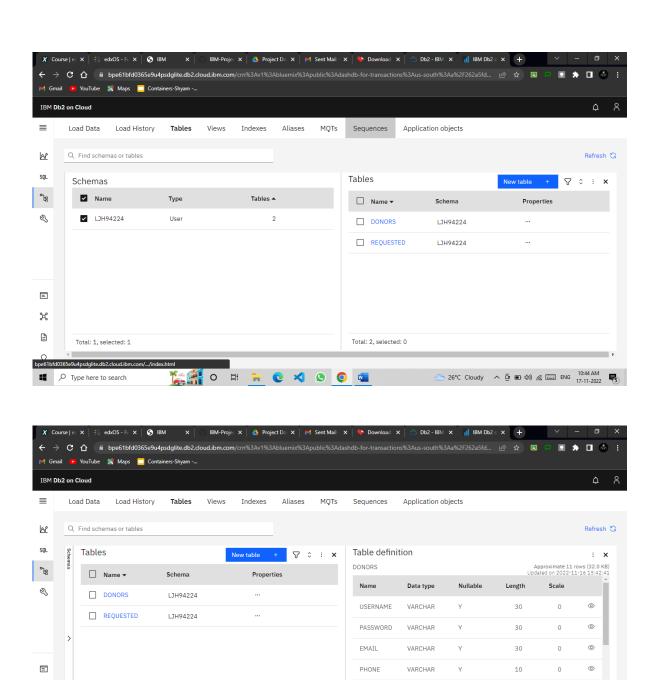
```
def index(usermail,subject,content):
```

```
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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