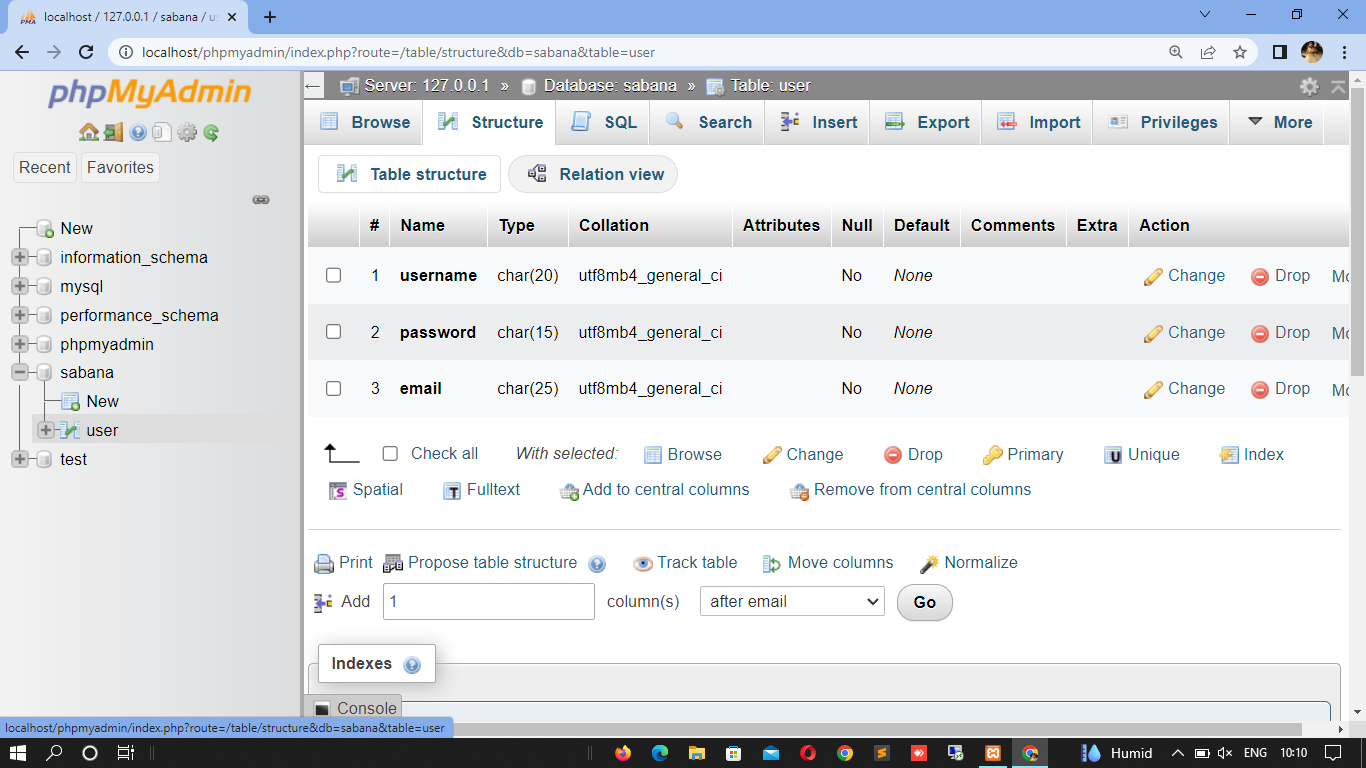
**Assignment -3**

|  |  |
| --- | --- |
| Assignment Date | 28 October 2022 |
| Student Name | Ms.S.Sabana Fathima |
| Student Roll Number | 950019104038 |
| Maximum Marks | 2 Marks |
| Team ID | PNT2022TMID49592 |

1.Create User table with user with email, username, roll number, password.

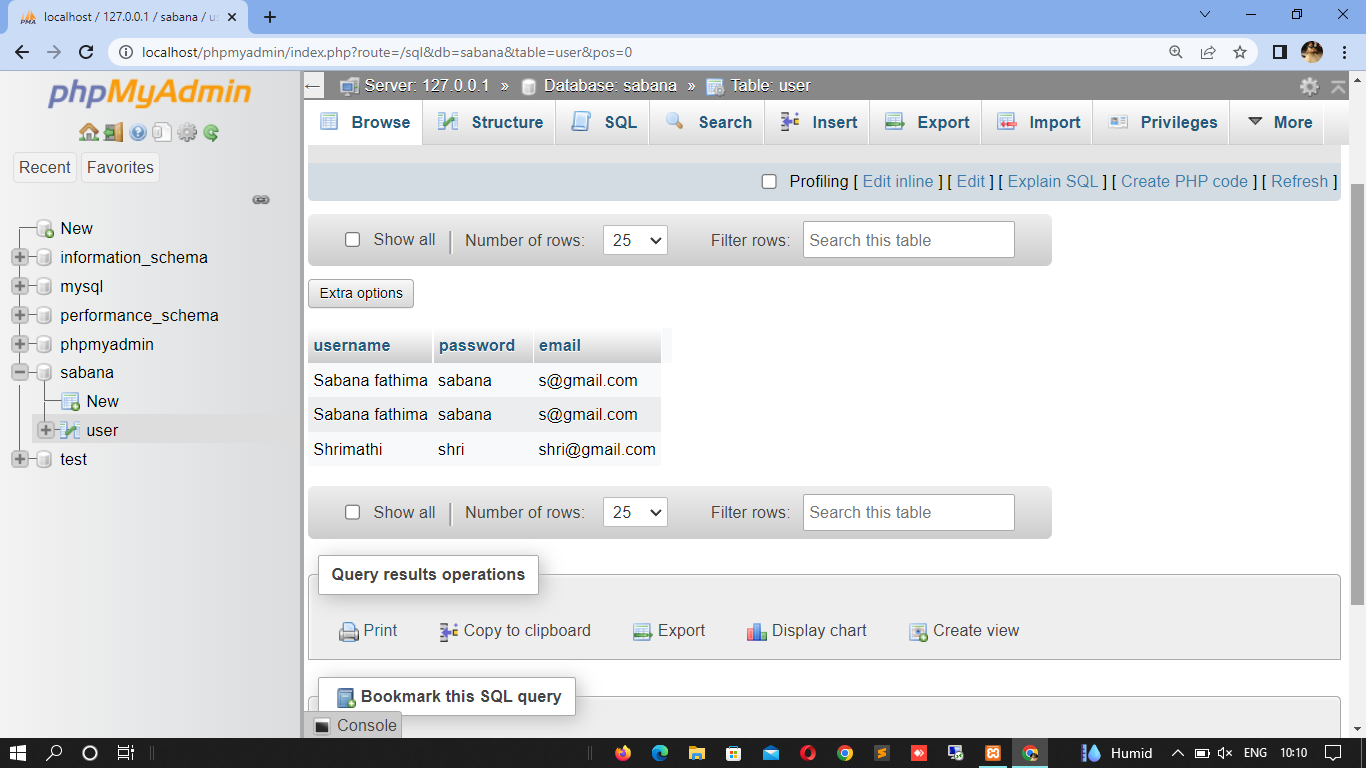
CREATE TABLE user(username varchar(20) not null, password varchar(20) not null,emailvarchar(50) not null)



INSERT INTO user(username, password,email)

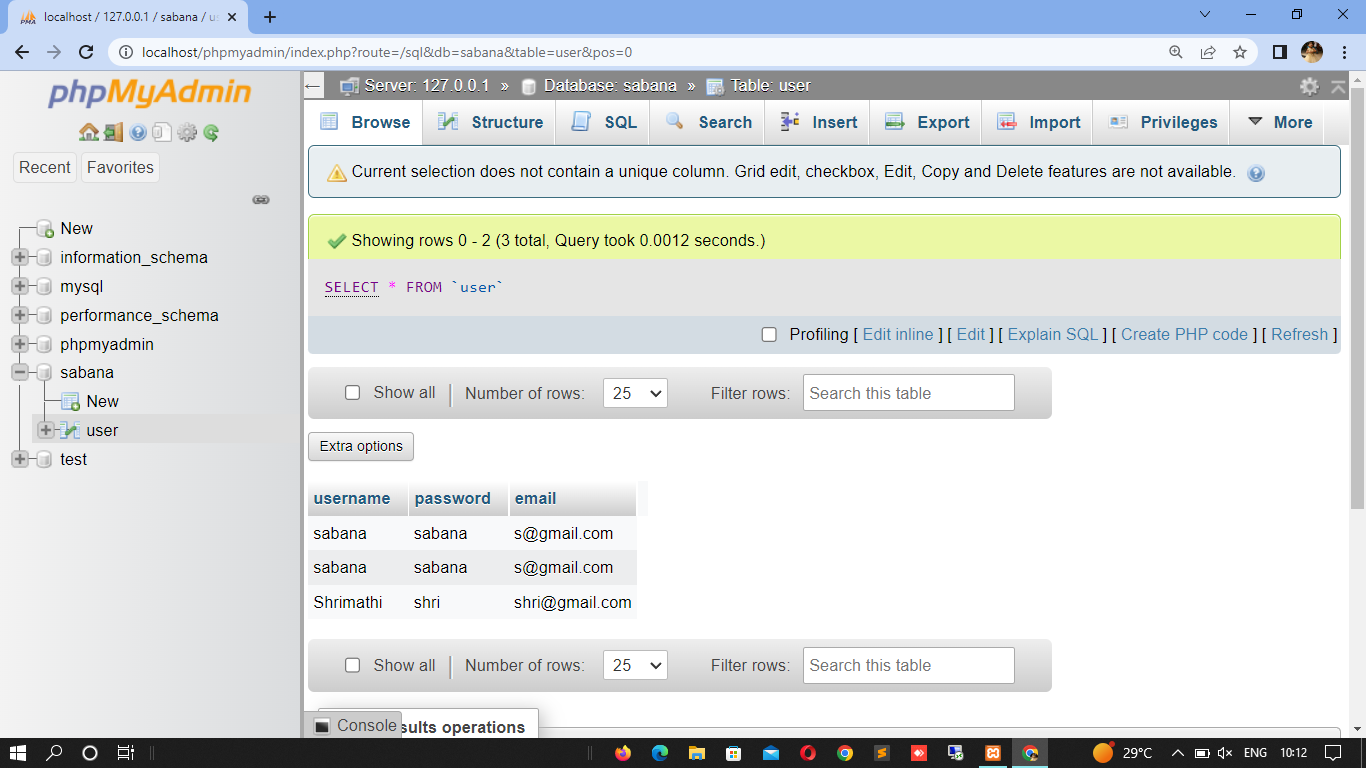
VALUES(‘Sabana’,’sabana’, ’s@gmail.com’)

INSERT INTO user(username, password,email) VALUES(‘shrimathi’,shri, ’shri@gmail.com’)

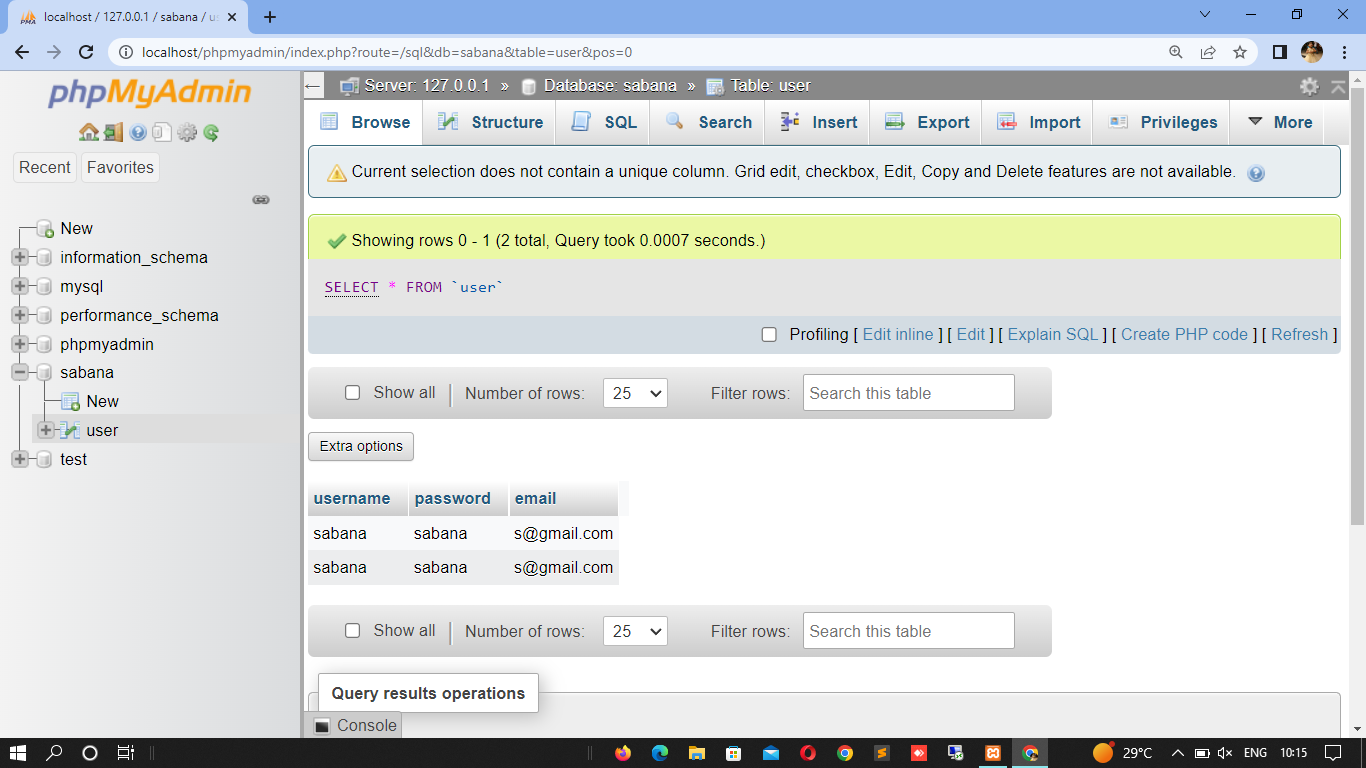


2.Perform UPDATE,DELETE Queries with user table

UPDATE user SET username='sabana' WHERE email='s@gmail.com'



DELETE FROM user WHERE username = 'sabana'



3.Connect python code to db2.

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=ltp26940;PWD=HkUe6CEjR1xwh1Sr",'','')

4.Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

# Login.html

<html>

<head>

<meta charset="UTF-8">

<title> Login </title>

</head>

<body></br></br></br></br></br>

<div align="center">

<div align="center" class="border">

<div class="header">

<h1 class="word">Login</h1>

</div></br></br></br>

<h2 class="word">

<form action="{{ url\_for('login') }}" method="post">

<div class="msg">{{ msg }}</div>

<input id="username" name="username" type="text" placeholder="Enter Your

Username" class="textbox"/></br></br>

<input id="password" name="password" type="password" placeholder="Enter Your

Password" class="textbox"/></br></br></br>

<input type="submit" class="btn" value="Sign In"></br></br></form>

</h2>

<p class="bottom">Don't have an account? <a class="bottom" href="{{url\_for('register')}}"> Sign Up here</a></p>

</div>

</div>

</body>

</html>

# Register.html

<html>

<head>

<meta charset="UTF-8">

<title> Register </title>

</head>

<body></br></br></br></br></br>

<div align="center">

<div align="center" class="border">

<div class="header">

<h1 class="word">Register</h1>

</div></br></br></br>

<h2 class="word">

<form action="{{ url\_for('register') }}" method="post">

<div class="msg">{{ msg }}</div>

<input id="username" name="username" type="text" placeholder="Enter Your

Username" class="textbox"/></br></br>

<input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br>

<input id="email" name="email" type="text" placeholder="Enter Your Email ID" class="textbox"/></br></br>

<input type="submit" class="btn" value="Sign Up"></br></form>

</h2>

<p class="bottom">Already have an account? <a class="bottom" href="{{url\_for('login')}}"> Sign In here</a></p>

</div>

</div>

</body>

</html>

# Index.html

<html>

<head>

 <title>Home Page</title>

 <body bgcolor="#E4F4FF">

 <h1 style="color:darkblue;"><center><i>Welcome you all!!!</i><br><b>This is Sabana Fathima</b></center> </h1>

</body>

</head>

</html>

**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=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=ltp26940;PWD=HkUe6CEjR1xwh1Sr",'','')

@app.route("/")

def index():

return render\_template('index.html')

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

def login():

global userid

msg = ''

if request.method == 'POST' and 'username' in request.form and 'password' in request.form:

username = request.form['username']

password = request.form['password']

stmt = ibm\_db.prepare(conn,'SELECT \* FROM user WHERE username = ? AND password = ?')

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

ibm\_db.bind\_param(stmt,2,password)

ibm\_db.execute(stmt)

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

if account:

session['loggedin'] = True

session['username'] = account['USERNAME']

msg = 'Logged in successfully !'

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

else:

msg = 'Incorrect username / password !'

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

@app.route('/logout')

def logout():

session.pop('loggedin', None)

session.pop('id', None)

session.pop('username', None)

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

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

def register():

msg = ''

if request.method == 'POST':

username = request.form['username']

password = request.form['password']

email = request.form['email']

sql = "SELECT \* FROM user 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 = 'Username must contain only characters and numbers !'

elif not username or not password or not email:

msg = 'Please fill out the form !'

else:

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

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

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

ibm\_db.bind\_param(stmt, 2, password)

ibm\_db.bind\_param(stmt, 3, email)

ibm\_db.execute(stmt)

msg = 'You have successfully registered !'

elif request.method == 'POST':

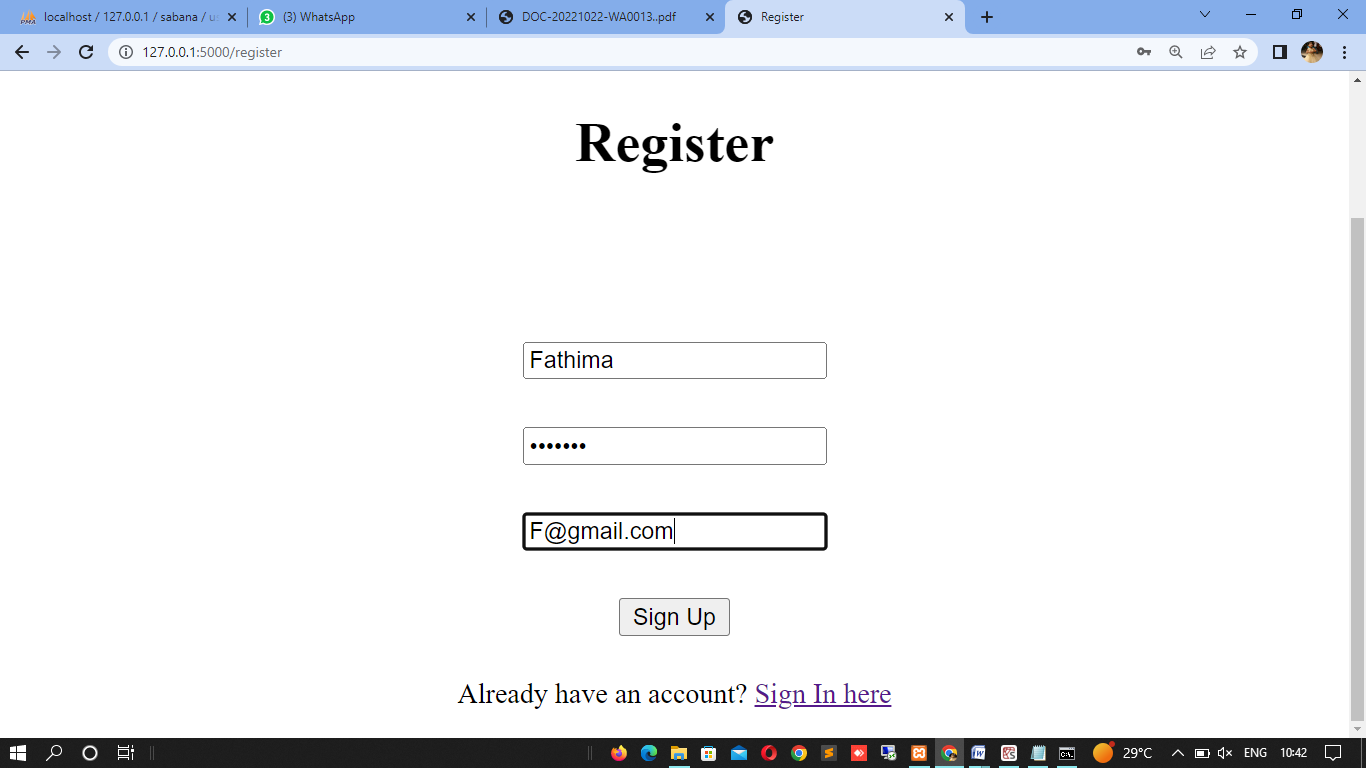
msg = 'Please fill out the form !'

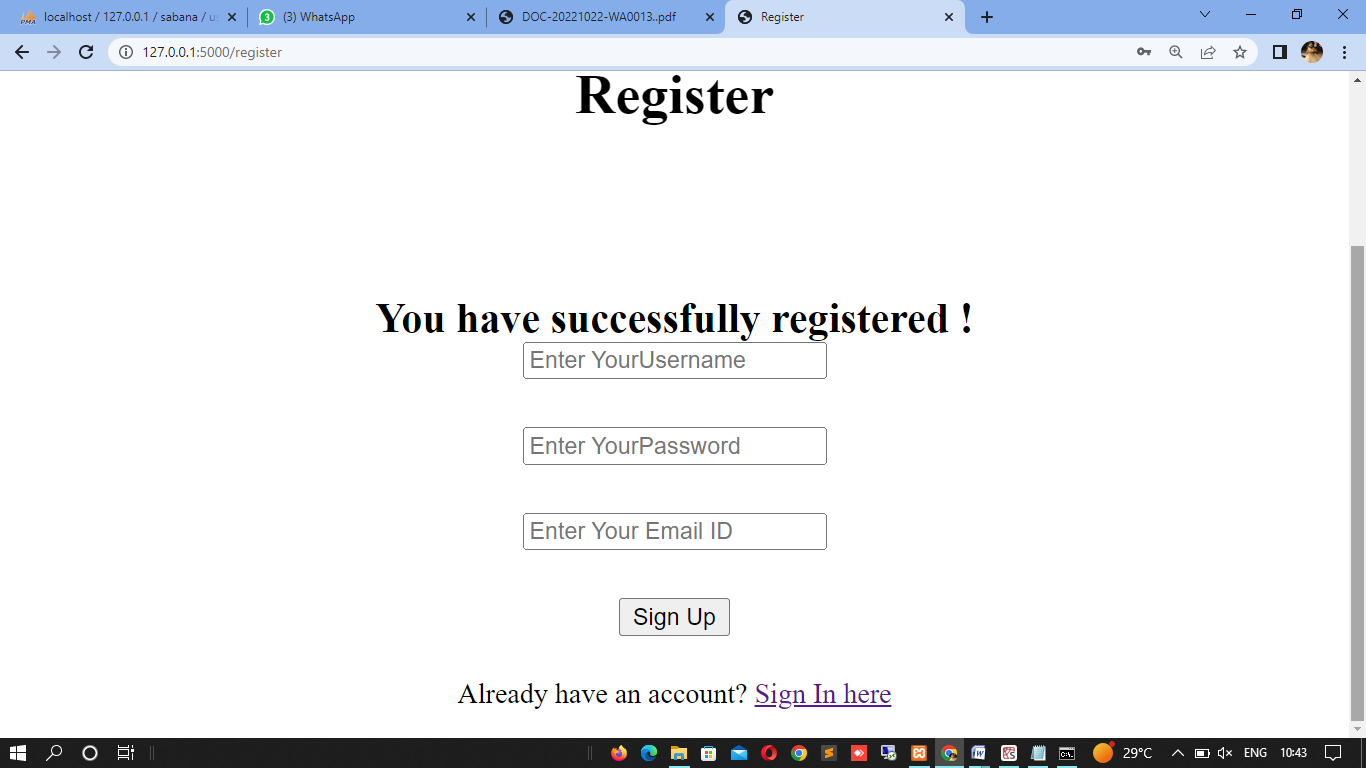
return render\_template('register.html', msg = msg)

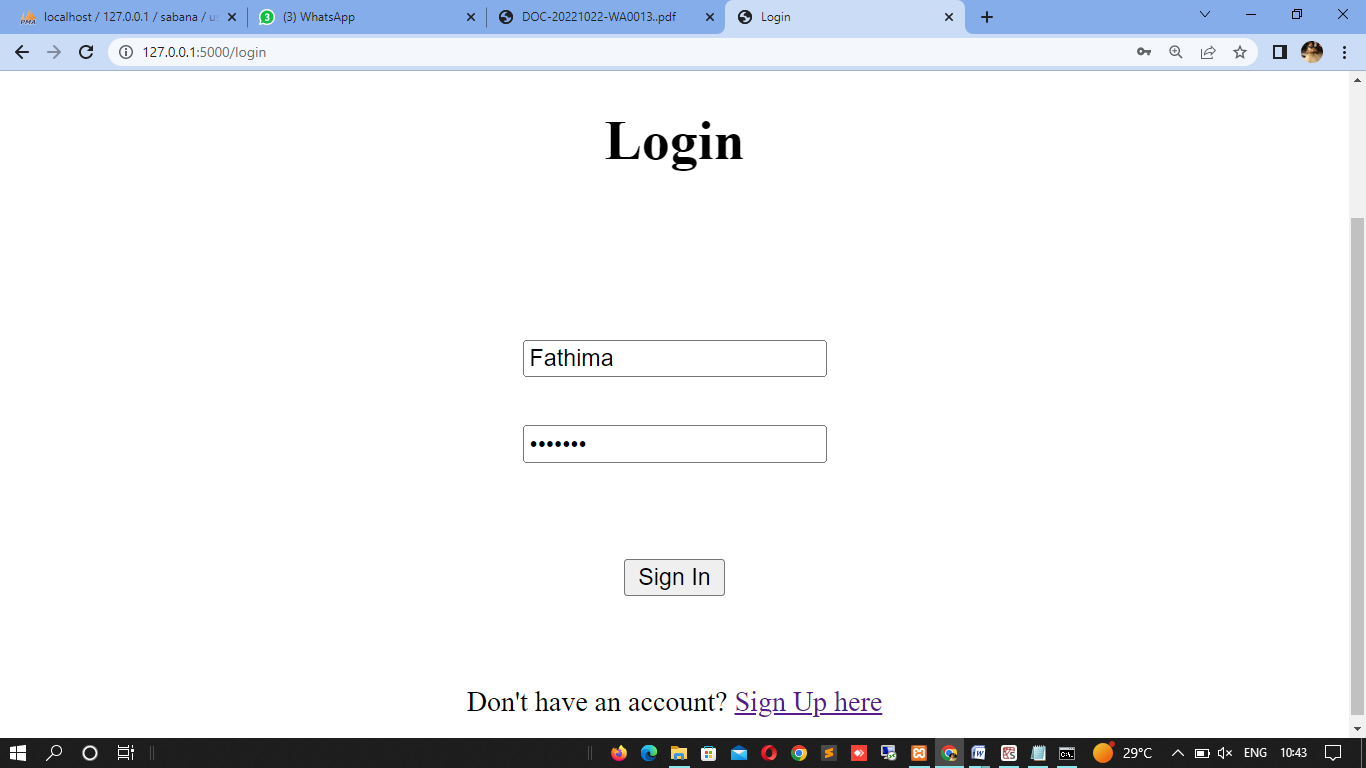
if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug = True)

**OUTPUT:**

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