FLASK APP WITH REGISTRATION PAGE LOGIN PAGE AND WELCOME PAGE

1.Creating Environment :

Step 1 - py -3 -m venv venv

Step 2 - venv\Scripts\activate

Step 3 - pip install Flask

2.MySQL Workbench :

Step-1 - Install MySQL workbench

Step-2 - Install ‘mysqlbd’ module in your venv.

pip install flask-mysqldb

Step 3 - Open My sql workbench and write the code

CREATE DATABASE IF NOT EXISTS 'DEFAULT CHARACTER SET utf8 COLLATE utf8 general\_ci; USE 'geeklogin";

CREATE TABLE IF NOT EXISTS `accounts`(

'id' int(11) NOT NULL AUTO\_INCREMENT,

username varchar(50) NOT NULL,

password' varchar(255) NOT NULL,

email varchar(100) NOT NULL,

PRIMARY KEY ('id')

)ENGINE=InnoDB AUTO\_INCREMENT=2 DEFAULT CHARSET=utf8;

3.Creating Project Step-1:

Create app.py

# Store this code in 'app.py' file

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

from flask\_mysqldb import MySQL

import MySQLdb.cursors

import re

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

app.secret\_key = 'your secret key'

app.config['MYSQL\_HOST'] = 'localhost'

app.config['MYSQL\_USER'] = 'root'

app.config['MYSQL\_PASSWORD'] = 'your password'

app.config['MYSQL\_DB'] = 'geeklogin'

mysql = MySQL(app)

@app.route('/')

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

def login():

msg = ''

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

username = request.form['username']

password = request.form['password']

cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT \* FROM accounts WHERE username = % s AND password = % s', (username, password, ))

account = cursor.fetchone()

if account:

session['loggedin'] = True

session['id'] = account['id']

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' and 'username' in request.form and 'password' in request.form and 'email' in request.form :

username = request.form['username']

password = request.form['password']

email = request.form['email']

cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT \* FROM accounts WHERE username = % s', (username, ))

account = cursor.fetchone()

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:

cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s)', (username, password, email, ))

mysql.connection.commit()

msg = 'You have successfully registered !'

elif request.method == 'POST':

msg = 'Please fill out the form !'

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

4.Create Templates:

step 1 - login.html

<!-- Store this code in 'login.html' file inside the 'templates' folder -->

<html>

<head>

<meta charset="UTF-8">

<title> Login </title>

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

</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>

step 2 - register.html

<!-- Store this code in 'register.html' file inside the 'templates' folder -->

<html>

<head>

<meta charset="UTF-8">

<title> Register </title>

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

</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>

step 3 - index.html

<!-- Store this code in 'index.html' file inside the 'templates' folder-->

<html>

<head>

<meta charset="UTF-8">

<title> Index </title>

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

</head>

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

<div align="center">

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

<div class="header">

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

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

<h1 class="bottom">

Hi {{session.username}}!!</br></br> Welcome to the index page...

</h1></br></br></br>

<a href="{{ url\_for('logout') }}" class="btn">Logout</a>

</div>

</div>

</body>

</html>

step 4 - create static folder

/\* Store this code in 'style.css' file inside the 'static' folder\*/

.header{

padding: 5px 120px;

width: 150px;

height: 70px;

background-color: #236B8E;

}

.border{

padding: 80px 50px;

width: 400px;

height: 450px;

border: 1px solid #236B8E;

border-radius: 0px;

background-color: #9AC0CD;

}

.btn {

padding: 10px 40px;

background-color: #236B8E;

color: #FFFFFF;

font-style: oblique;

font-weight: bold;

border-radius: 10px;

}

.textbox{

padding: 10px 40px;

background-color: #236B8E;

text-color: #FFFFFF;

border-radius: 10px;

}

::placeholder {

color: #FFFFFF;

opacity: 1;

font-style: oblique;

font-weight: bold;

}

.word{

color: #FFFFFF;

font-style: oblique;

font-weight: bold;

}

.bottom{

color: #236B8E;

font-style: oblique;

font-weight: bold;

}

OUTPUTS









