ASSIGNMENT-2

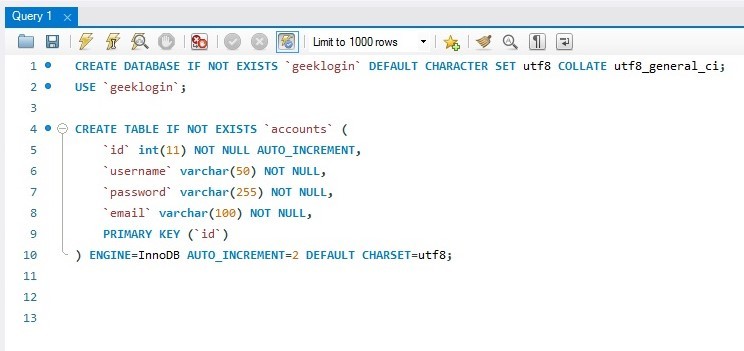
1.Create A Flask App With Registration Page, Login Page And Welcome Page. By Default Load The Registration Page Once The User Enters All The Fields Store The Data In Database And Navigate To Login Page.Authenticate User With Username And Password. If The User Is Valid Show The Welcome Page.

* Flask App With Registration Page, Login Page

STEP 1: Install Flask

STEP 2: install MySQL workbench

STEP 3: Write the following code. The above SQL statement will create our database geeklogin with the table accounts



STEP 4: Execute the queryz

STEP 5: Create an empty folder ‘login’. Now open your code editor and open this ‘login’ folder. Step-3: Create ‘app.py’ folder and write the code given below.

CODE:

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)

Step-4: Create the folder ‘templates’. create the file ‘login.html’, ‘register.html’, ‘index.html’ inside the ‘templates’ folder. Step-5: Open ‘login.html’ file and write the code given below. In ‘login.html’, we have two fields i.e. username and password. When user enters correct username and password, it will route you to index page otherwise ‘Incorrect username/password’ is displayed.

HTML:

<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-6: Open ‘register.html’ file and write the code given below. In ‘register.html’, we have three fields i.e. username, password and email. When user enters all the information, it stored the data in the database and ‘Registration successful’ is displayed.

HTML

<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-8: Create the folder ‘static’. create the file ‘style.css’ inside the ‘static’ folder and paste the given CSS code.

.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;

            }