**Assignment - 2**

| Assignment Date | 16 October 2022 |
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| Student Name | Charlet Priscilla.A |
| Student Roll Number | 142219106017 |
| Maximum Marks | 2 Marks |

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

CREATE TABLE USER

(EMAIL VARCHAR(30) NOT NULL,

USERNAME VARCHAR(24) NOT NULL,

ROLLNO CHAR(3) NOT NULL,

PASSWORD VARCHAR(6) NOT NULL)

IN DATABASE DSN8D11A

VALIDPROC DSN8EAPR;

**2.Perform UPDATE,DELETE Queries with user table**

Delete:

EXEC SQL DELETE FROM USER

WHERE USERNAME = 'E11' OR USERNAME = 'D21';

Update:

UPDATE USER

SET ROLLNO='3565'

WHERE USERNAME='000190';

**3. Connect python code to db2.**

import ibm\_db

conn = ibm\_db.connect("database","username","password")

**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 the database and navigate to the login page to authenticate user username and password. If the user is valid show the welcome page**

# 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)

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