# Assignment - 2

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| Assignment Date | 16 October 2022 |
| Student Name | Janani K |
| Student Roll Number | 14229106036 |
| 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;

# 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';

# Connect python code to db2.

import ibm\_db

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

# 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)