

## Assignment - 2

Assignment Date	16 October 2022
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Student Roll Number	142219106023
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_mysql 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)

```