# Assignment -2

Assignment Date	14 OCTOBER 2022
Student Name	P.A. Yokesh
Student Roll Number	422119104005
Maximum Marks	2 Marks

# Question 1.

Create User table with email, username, roll number, password.

create table usertable(
roll\_number int,
username varchar(300),
mail varchar(300),
password varchar(300));

	Field	Type	Null	Key	Default	Extra
<b>&gt;</b>	roll_number	int	YES		NULL	
	username	varchar(300)	YES		NULL	
	mail	varchar(300)	YES		HULL	
	password	varchar(300)	YES		NULL	

# Question 2.

Perform UPDATE, DELETE Queries with user table

**INSERT STATEMENT:** 

INSERT INTO usertable

(roll\_number, username, mail,password) VALUES

(1,Dhivagar,dhivagarb2001@gmail.com,dhiva005),

(2,'Rajesh','rajeshlrm11@gmail.com','rajeshlrm'),

(3,'Tamiloli',tamiloli123@gmail.com','tamil123'),

(4,'Vasanth',vasanthvasu@gmail.com','vasanthvasu12'),

(5,'Yokesh','yokeshmass@gmail.com','yokesh56');

roll_nu	ımber usernamı	e mail	password
1	Dhivagar	dhivagarb2001@gma	ail.com dhiva005
2	Rajesh	rajeshlrm11@gmail.c	om rajeshlrm
3	Tamiloli	tamiloli 123@gmail. co	m tamil123
4	Vasanth	vasanthvasu@gmail.	com vasanthvasu12
5	Yokesh	yokeshmass@gmail.d	com yokesh56

#### **UPDATE STATEMENT:**

**UPDATE** usertable

SET username='Rajesh'

WHERE roll\_number=3;

	roll_number	username	mail	password
<b>&gt;</b>	1	Dhivagar	dhivagarb2001@gmail.com	dhiva005
	2	Rajesh	rajeshlrm11@gmail.com	rajeshlrm
	3	Rajesh	tamiloli 123@gmail.com	tamil 123
	4	Vasanth	vasanthvasu@gmail.com	vasanthvasu12
	5	Yokesh	yokeshmass@gmail.com	yokesh56

## **DELETE STATEMENT:**

DELETE FROM usertable where roll\_number=5;

	roll_number	username	mail	password
<b>&gt;</b>	1	Dhivagar	dhivagarb2001@gmail.com	dhiva005
	2	Rajesh	rajeshlrm11@gmail.com	rajeshlrm
	3	Rajesh	tamiloli 123@gmail.com	tamil 123
	4	Vasanth	vasanthvasu@gmail.com	vasanthvasu12

#### Question 3.

#### Connect python code to db2.

```
dsn_hostname = "2d46b6b4-cbf6-40eb-bbce-
6251e6ba0300.bs2io90l08kgb1od8lcg.databases.appdomain.cloud"
dsn_uid = "avengers005"
dsn_pwd = "multiverse"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "DB_ADMIN"
dsn_port = "32328"
dsn_protocol = "TCPIP"
dsn_security = "SSL"
dsn = (
  "DRIVER={0};"
  "DATABASE={1};"
  "HOSTNAME={2};"
  "PORT={3};"
  "PROTOCOL={4};"
  "UID={5};"
  "PWD={6}:"
  "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security)
print(dsn)
try:
  conn = ibm_db.connect(dsn, "", "")
  print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ",
dsn_hostname)
except:
  print ("Unable to connect: ", ibm_db.conn_errormsg() )
```

#### Question 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 database and navigate to login page. Authenticate user with username and password. If the user is valid show the welcome page

Flask app:

App.py

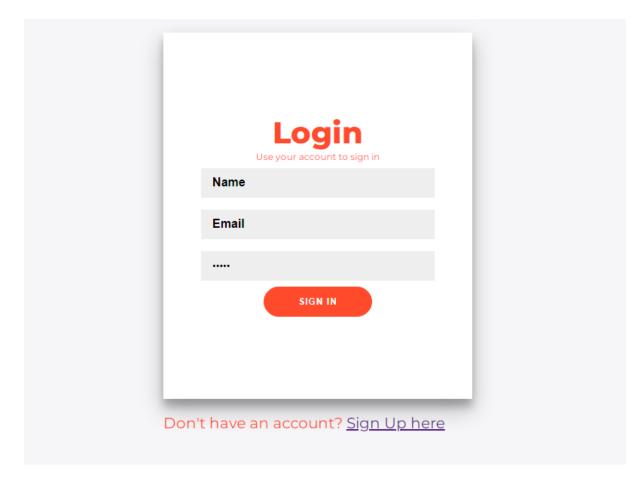
```
from flask import Flask, render_template, request, redirect, url_for, session from flask_mysqldb import MySQL import MySQLdb.cursors import re app = Flask(__name__) app.secret_key = 'your secret key' app.config['MYSQL_HOST'] = 'localhost' app.config['MYSQL_USER'] = 'avengers005' app.config['MYSQL_PASSWORD'] = 'multiverse' app.config['MYSQL_DB'] = 'login' mysql = MySQL(app) @app.route('/') @app.route('/') 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():
```

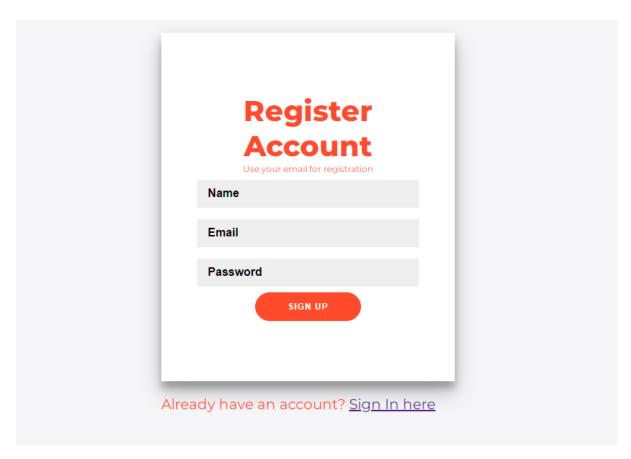
```
msg = "
  if request.method == 'POST' and 'username' in request.form and 'password' in
request.form and 'email' in request.form:
    username = request.form['username']
    password = request.form['password']
    email = request.form['email']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    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)
```

```
(env) C:\Users\GREAT\Desktop\login>flask run
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

### **LOGIN PAGE:**



# **REGISTER PAGE:**



## **WECOME PAGE:**

# Welcome User!!!