

ASSIGNMENT-2

Student Name	Ms.G.KAVYA
Student Roll Number	AC19UIT023
Assignment Date	September 19th

Question-1: *Create User table with user with email, username, roll number, password*

```
<!DOCTYPE html>
<html>
<head>
    <title>Form</title><style>
        .data{
            font-size: x-large;
            font-weight: bolder;
        }</style> </head>
<body style="background-color: #d69cdc;">
    <center>
        <form action="">
            <p class="data">Data collection form</p><br/><br/><br/><br/><br/><br/>
            <label for="uname">Enter your name:</label>
            <input style="margin-left: 150px;" type="text" name="uname" placeholder="Enter
name"/><br/>
            <label for="Regno">Enter your Register Number:</label>
            <input style="margin-left: 75px;" type="text" name="Regno" placeholder="Enter Register
Number"/><br/>
            <label type="email">Enter your email:</label>
            <input style="margin-left: 148px;" type="email" name="email" placeholder="Enter
email"/><br/>
            <label for="pwd">Enter your password:</label>
```

```
<input style="margin-left: 123px;" type="password" name="pwd" placeholder="Enter password" /><br>
```

```
<input type="submit" name="submit">
```

```
<button type="submit" name="submit">login</button>
```

```
</form> </center> </body> </html>
```



Question-2: Perform UPDATE, DELETE Queries with user table

```
CREATE TABLE EMPLOYEE (
```

```
    empId INTEGER PRIMARY KEY,
```

```
    name TEXT NOT NULL,
```

```
    dept TEXT NOT NULL
```

```
);
```

```
INSERT INTO EMPLOYEE VALUES (23, 'Kavya', 'Student');
```

```
INSERT INTO EMPLOYEE VALUES (24, 'Menaga', 'Student');
```

```
INSERT INTO EMPLOYEE VALUES (26, 'Mercy', 'Student');
```

```
INSERT INTO EMPLOYEE VALUES (27, 'Neha', 'Student');
```

```
UPDATE EMPLOYEE
```

```
SET empId= '25',
```

```
WHERE name = 'Menaga';
```

```
DELETE FROM EMPLOYEE WHERE empId=25;
```

Input		
<pre>UPDATE EMPLOYEE SET empId='25' WHERE name='Menaga'; SELECT*FROM EMPLOYEE</pre>		
Output		
empId	name	dept
23	Kavya	Student
25	Menaga	Student
26	Mercy	Student
27	Neha	Student

Input		
<pre>DELETE FROM EMPLOYEE WHERE empId=25; SELECT*FROM EMPLOYEE</pre>		
Output		
empId	name	dept
23	Kavya	Student
26	Mercy	Student
27	Neha	Student

Question-3: Connect Python code to db2

#You need to install ibm_db using pip

pip install ibm_db

#Creation of connection object

import ibm_db

conn=ibm_db.connect("database","username","password")

from ibm_db import connect

connection = connect('DATABASE=<database name>;'

'HOSTNAME=<database ip>;'

'PORT=<database port>;'

'PROTOCOL=TCPIP;'

'UID=<database username>;'

'PWD=<username password>;','')

#Calling fetch methods

def results(command):

from ibm_db import fetch_assoc

ret=[]

```

result=fetch_assoc(command)

while result:

    ret.append(result)

    result=fetch_assoc(command)

return ret

```

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 authenticates user username and password. If the user is valid show the welcome page*

Create a python file with name 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'] = '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)

```

Create a html file index.html

<!-- Store this code in 'index.html' file inside the 'templates' folder-->

```

<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>

```

Login.html

<!-- Store this code in 'login.html' file inside the 'templates' folder -->

```

<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>

```

register.html

<!-- Store this code in 'register.html' file inside the 'templates' folder -->

```

<html>

    <head>

        <meta charset="UTF-8">

        <title> Register </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">Register</h1>

                </div></br></br></br>

                <h2 class="word">

                    <form action="{{ url_for('register') }}" 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>

```



```

        <input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br></br>

        <input type="submit" class="btn" value="Sign Up"></br>

    </form>

</h2>

    <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>

</div>

</div>

</body>

</html>

```

style.css

```

.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;
}

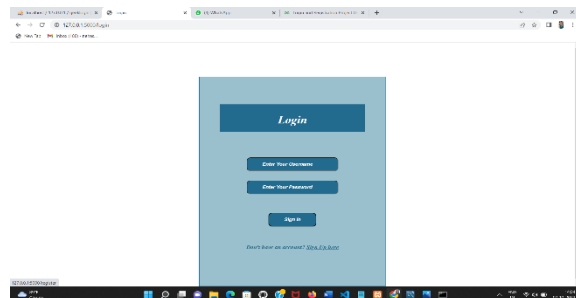
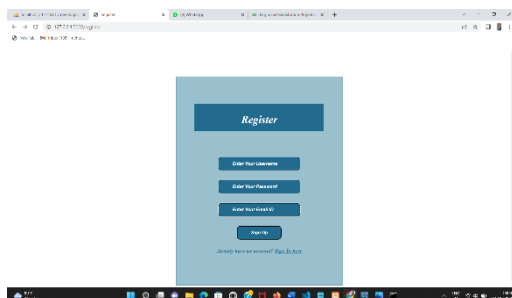
.textbox{
padding: 10px 40px;
background-color: #236B8E;
color: #FFFFFF;
border-radius: 10px;
}

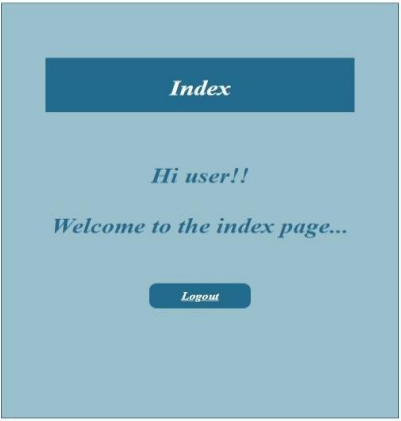
::placeholder {
color: #FFFFFF;
opacity: 1;
font-style: oblique;
font-weight: bold;
}

.word{
color: #FFFFFF;
font-style: oblique;
font-weight: bold;
}

.bottom{
color: #236B8E;
font-style: oblique;
font-weight: bold;
}

```





Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	id	username	password	email
▶	1	Jesper Derrn	2262	derrn2262@outlook.com
	1	Jesper Derrn	2262	derrn2262@outlook.com

geeklogin 1 x