

ASSINGMENT - 2

Assingment date	19 SEPTEMBER 2022
Student name	Gayathri M
Student roll no	510419104027

- 1.Create user table with user with email,username,password,roll no
2. perform update ,delete queries with user table
- 3.connect python code to database2
- 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 username and password.if the user is valid show the welcome page

- 1.Create user table with user with email, username, roll number password

```
CREATE TABLE user (  
    roll_number int,  
    username varchar(300),  
    email varchar(300),  
    password varchar(300)  
);
```

roll_number	username	email	password
empty			

Show all X

2. Perform UPDATE, DELETE Queries with user table

INSERT Statement:

INSERT INTO user

(roll_number, username, email, password) VALUES

(1, 'sunanth', 'sunanth@gmail.com', 'sunanth15'),

(2, 'harish', 'harish@gmail.com', 'harish123'),

(3, 'hariharan', 'hariharan@gmail.com', 'hari123'),

(4, 'hariharan raja sudhan', 'hari@gmail.com', 'hari0123');



roll_number	username	email	pa
1	sunath	sunath@gmail.com	sur
2	harish	harish@gmail.com	ha
3	hariharan	hariharan@gmail.com	ha
4	hariharan raja sudhan	hari@gmail.com	ha

UPDATE Statement:

UPDATE users

SET username = 'sunanth'

WHERE roll_number = '4'



roll_number	username	email	pa
1	sunath	sunath@gmail.com	sur
2	harish	harish@gmail.com	ha
3	hariharan	hariharan@gmail.com	ha
4	sunanth	hari@gmail.com	ha

DELETE Statement:

```
insert into user values(4,'aa','aaa@gmail.com','aasdfg2');
```

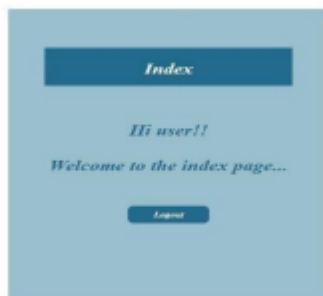
```
delete from user where roll_number=4'
```



roll_number	username	email	pa
1	sunath	sunath@gmail.com	sur
2	harish	harish@gmail.com	ha
3	hariharan	hariharan@gmail.com	ha

3. Connect python with db2

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d-  
999f-  
629c01b3832d.bs2io90l08kqb1bd8lcy.databases.appdomain.cloud;PORT=3  
019;SECURITY=SSL  
;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lvq43963;PWD=B  
snsG12sBgIRhMN',';')
```



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 username and password. if the user is valid show the welcome page

```
from flask import Flask, render_template, request, redirect, url_for, session
```

```
from flask_mysql import MySQL import MySQLdb.cursors
```

```

import reapp = 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('logged_in', 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)

```

