#### Assignment -2

### **Python Programming**

Assignment Date	28-09-2022
Student Name	Deepika.A
Student Roll Number	311019104016

- Create a User table with Username, email, roll number, password
- Perform UPDATE, DELETE Queries with user table
- Connect python code to db2.
- 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

# **Solution:**

#### App.py

```
from flask import Flask, render_template, request, redirect
import
         sqlite3
                   as
                         sql
import models as dbHandler
                Flask(__name____)
app
app.secret_key = 'fasdgfdgdfg'
@app.route('/')
def home():
 return render_template('home.html')
@app.route('/adduser')
def new_user():
 return render_template('add_user.html')
@app.route('/addrec',methods = ['POST', 'GET'])
def addrec():
```

```
if request.method == 'POST':
  try:
   email = request.form['email']un
    = request.form['username']
    rn = request.form['rollnumber'] pin
    = request.form['pin']
   with sql.connect("User database.db") as con:
     cur = con.cursor()
     cur.execute("INSERT INTO users (email, username, rollnumber, pin) VALUES
(?,?,?)",(email,un,rn,pin))
     con.commit()
     msg = "Record successfully added!"
  except:
    con.rollback()
   msg = "error in insert operation"
  finally:
    return render_template("list.html",msg = msg)
    con.close()
@app.route('/list')
def list():
                 sql.connect("User database.db")
 con
 con.row_factory = sql.Row
 cur
                          con.cursor()
 cur.execute("select * from users")
 users = cur.fetchall()
 return render_template("list.html", users = users)
if name == ' main ':
 app.run(debug = True)
@app.route("/delete")
def delete():
 return render_template("delete.html")
@app.route('/deleterecord',methods = ["POST"])
def deleterecord():
 un = request.form['username']
 with sql.connect("User_database.db") as con:
   try:
```

```
cur = con.cursor()
     cur.execute("DELETE FROM users WHERE username = ?",[un])
     con.commit()
    msg = "Record successfully deleted"except:
    msg = "can't be deleted"
   finally:
     return render_template("home1.html",msg = msg)
if name == ' main ':
 app.run(debug = True)
@app.route('/deldb', methods = ["POST"])
def deldb():
 con = sql.connect('User_database.db')
                        con.cursor()
 cur.execute('DELETE FROM users;')
 con.commit()
 con.close()
 msg = 'All the data has been deleted'
 return render_template("home1.html",msg = msg)
@app.route("/log")
def log():
 return render_template("login.html")
@app.route('/login', methods =['GET', 'POST'])
def login():
 un = request.form['username'] if
 request.method=='POST':
   users = dbHandler.retrieveUsers()
   msg = 'Logged in successfully!'
   return render_template('welcome.html', users=un, msg=msg)
 else:
   msg = 'You are not registered, would you like to be registered'
   return render template('home1.html', msg=msg)
if___name___== '___main___':
 app.run(debug=False, host='0.0.0.0')
Models.py
import sqlite3 as sql
def retrieveUsers():
```

```
con = sql.connect("User_database.db")
cur = con.cursor()
cur.execute("SELECT username, pin FROM users") users
= cur.fetchone()
con.close()
return users
```

### sqlite\_db\_setup.py

## import sqlite3

```
conn = sqlite3.connect('User_database.db')
print("Opened database successfully")

conn.execute('CREATE TABLE users (email TEXT, username TEXT, rollnumber
INTEGER, pin INTEGER)')
print("Table created successfully")
conn.close()
```

#### Home.html

#### <h1>Welcome to User DB APP</h1><br><br></h1>

```
<a href="/">HOME</a><br><a href="/adduser">User Registration</a><br><br><a href="/list">List User</a><br><a href="/log">Log in</a><br><br><a href="/delete">Remove a User</a></a>
```

### Add\_user.html

# <form action = "{{ url for('addrec') }}" method = "POST">

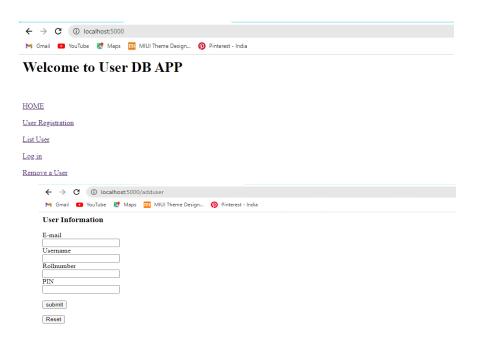
```
<h3>User Information</h3>
E-mail<br><input type = "email" name = "email" /></br>
Username<br><input type = "text" name = "username" /></br>
```

```
Rollnumber<br/>
<input type = "text" name = "rollnumber" /><br>
PIN<br/>
<input type = "password" name = "pin" min="4" max="8" /><br>
<input type = "submit" value = "submit" />
<input type = "reset"/>
</form>
```

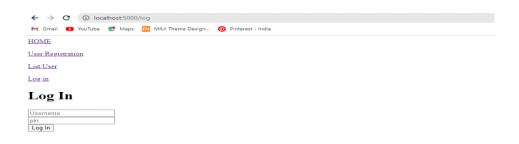
#### list.html

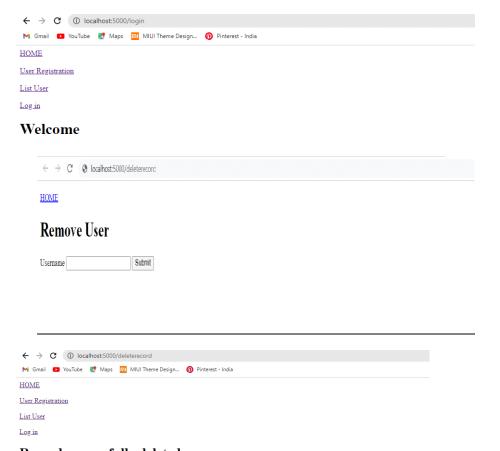
# <!doctype html>

```
<html>
<body>
 <a href="/">HOME</a><br><br>
 <a href="/adduser">Add New Student</a><br><br><</pre>
 <a href="/list">List Student</a><br><br>>
 <br><hr>
 {{ msg }}
 <thead>
    Email 
    Username 
     Roll Number 
    Pin
             </thead>
   {% for row in users %}
   {{row["email"]}}
    {{row["username"]}}
    {{ row["rollnumber"]}}
    {{row['pin']}}
    {% endfor %}
  </body>
</html>
```



EMAIL	USER NAME	ROLL NUMBER	PIN
harithaa6000@gmail.com	Harithaa	311019104025	1234
abideepika26@gmail.com	Deepika	311019104016	2244
narmadhakshina@gmail.com	Narmadha	311019104052	2345
kamalanand1214@gmail.com	Kamal anand	311019104031	5422





# Record successfully deleted

EMAIL	USER NAME	ROLL NUMBER	PIN
harithaa6000@gmail.com	Harithaa	311019104025	1234
abideepika26@gmail.com	Deepika	311019104016	2244
narmadhakshina@gmail.com	Narmadha	311019104052	2345