

**Assignment -2**  
Python Programming

Assignment Date	28-09-2022
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1. Create a User table with Username, email, roll number, password
2. Perform UPDATE and DELETE queries
3. Connect python code to database
4. Create Flask app for a User registration and User login

**Solution:**

**App.py**

```
from flask import Flask, render_template, request, redirect
import sqlite3 as sql
import models as dbHandler

app = Flask(__name__)
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(): con =
sql.connect("User_database.db")
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('/delldb', methods = ["POST"])
def delldb(): con =
sql.connect('User_database.db') cur =
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>**

```

<a href="/">HOME</a><br><br>
<a href="/adduser">User Registration</a><br><br>

```

```
<a href="/list">List User</a><br><br>
<a href="/log">Log in</a><br><br>
<a href="/delete">Remove a User</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><br>
    <input type = "submit" value = "submit" /><p>        </p>
    <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>
    <a href="/list">List Student</a><br><br>
    <br><hr>

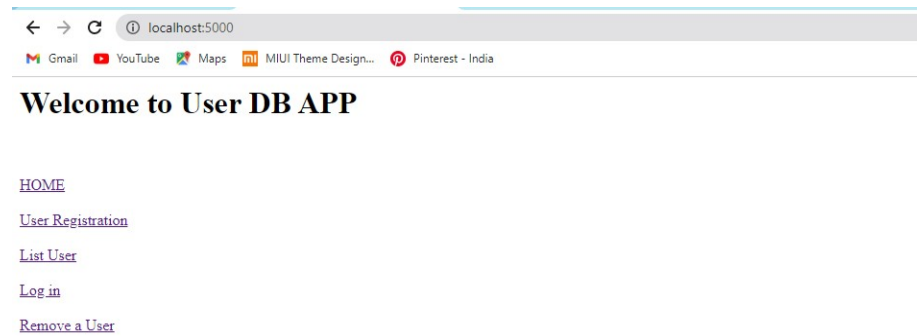
    {{ msg }}

    <table border = 1>
        <thead>
            <td>    Email    </td>
            <td>    Username </td>
            <td>    Roll Number </td>
            <td>    Pin    </td>
        </thead>

        {% for row in users %}
            <tr>
                <td>{{row["email"]}}</td>
                <td>{{row["username"]}}</td>
                <td> {{ row["rollnumber"]}}</td>
                <td>{{row['pin']}}</td>
            </tr>
```

```
        {% endfor %}  
</table>
```

```
</body>  
</html>
```



localhost:5000/adduser

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### User Information

E-mail

Username

Rollnumber

PIN

Email	UserName	Roll Number	PIN
kavi.110@gmail.com	Kavinaya	19205046	1234
afra1230@gmail.com	Afra	19205004	1544
jayasrips@gmail.com	Jayasri	19205041	1111
abdulwaseem@gmail.com	Waseem	192050404	1678

localhost:5000/log

Gmail

YouTube

Maps

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[HOME](#)  
[User Registration](#)  
[List User](#)  
[Log in](#)  
**Log In**

Username

pin

Log In

localhost:5000/login

Gmail

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[HOME](#)  
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Welcome

localhost:5000/deleterecord

[HOME](#)

**Remove User**

Username

Submit

A solid black horizontal line spanning the width of the page.

**Record successfully deleted**

Email	UserName	Roll Number	PIN
kavi.110@gmail.com	Kavinaya	19205046	1234
jayasrips@gmail.com	Jayasri	19205041	1111
abdulwaseem@gmail.com	Waseem	192050404	1678