Assignment -2

Assignment Date	18 November 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('/deldb', methods = ["POST"]) def
deldb(): 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():
                       request.form['username']
          un
                 =
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

List User
Log in

Remove a User

User Registration

Add_user.html <form action = "{{ url_for('addrec') }}" method = "POST">

```
<h3>User
Information</h3> E-
mail<br/>dr>
<input type = "email" name = "email" /></br>
Username<br/>dinput type = "text" name = "username" /></br>
Rollnumber<br/>dinput type = "text" name = "rollnumber" /><br/>dinput type = "text" name = "rollnumber" /><br/>dinput type = "password" name = "pin" min="4" max="8" /><br/>dinput 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>
 <a href="/list">List Student</a><br><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>