# Assignment -2 Python Programming

Assignment Date	02-10-2022
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#### Question-1:

- 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':
     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():
    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></a href="/">HOME</a><br><a href="/adduser">User Registration</a><br><a href="/list">List User</a><br><a href="/log">Log in</a><br><a href="/log">Registration</a><br><br><a href="/log">Registration</a><br><br><a href="/log">Remove a User</a></a></pr>
```

#### Add\_user.html

### list.html

```
<!doctype html>
<html>
 <body>
 <a href="/">HOME</a><br><br>
 <a href="/adduser">Add New Student</a><br><br><br></a>
 <a href="/list">List Student</a><br><br>
 <br/>
<br/>
<hr>
 {{ msq }}
  <thead>
     Email 
     Username 
      Roll Number 
      Pin 
    </thead>
    {% for row in users %}
```