# Assignment -2

# **Python Programming**

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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

```
fromflaskimportFlask, render template, request, redirect
importsqlite3assqlimport
modelsasdbHandler
app =Flask(name
                    _)app.secre
t key = 'fasdgfdgdfg'
@app.route('/')
def home():
 returnrender template('home.html')
@app.route('/adduser')
def new_user():
 returnrender template('add user.html')
@app.route('/addrec', methods = ['POST',
'GET'])def addrec():
 if request.method ==
   'POST':try:
     email=request.form['email']un=r
     equest.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="errorininsertoperation"
   finally:
     return render template("list.html", msg =
     msg) con.close()
@app.route('/list')
def list():
 con =
 sql.connect("User database.db")con.row factory=sq
 1.Row
 cur =
 con.cursor()cur.execute("select
 *fromusers")
 users=cur.fetchall()
 return render template("list.html", users=users)
ifname____= 'main
   ____':app.run(debu
 a = True)
@app.route("/delete")
def delete():
  returnrender 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)
ifname == 'main
      :app.run(debu
 g = True)
@app.route('/deldb', methods =
["POST"])def deldb():
```

```
con =
 sql.connect('User database.db')cur=co
 n.cursor()cur.execute('DELETEFROM
 users;')con.commit()
 con.close()
 msg='Allthe data has been deleted'
 return render template("home1.html", msg =msg)
@app.route("/log")
def log():
  returnrender template("login.html")
@app.route('/login', methods =['GET',
'POST'])def login():
 request.form['username']ifreq
 uest.method=='POST':
    users =
    dbHandler.retrieveUsers()msq
     ='Logged in successfully!'
     return render template('welcome.html', users=un,
 msg=msg)else:
    msg = 'You are not registered, would you like to be
     registered'returnrender template('home1.html', msg=msg)
ifname____= 'main
          :app.run(debug=False,host
  ='0.0.0.0')
```

### Models.py

```
import sqlite3 as sql

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

## 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,
rollnumberINTEGER,pinINTEGER)')
print("Table created
```

```
successfully")conn.close()
```

### Home.html

```
<h1>Welcome to User DB APP</h1><br><
ahref="/">HOME</a><br><br><
ahref="/adduser">UserRegistration</a><br><br><ahref="/list">ListUser</a><br><ahref="/log">Log in</a><br><ahref="/delete">Remove aUser</a>
```

# Add user.html

## list.html

```
<!doctype html>
<html>
 <body>
 <ahref="/">HOME</a><br><br>
 <ahref="/adduser">Add NewStudent</a><br><br>
 <ahref="/list">ListStudent</a><br><br>
 <br/>hr><hr>
  {{ msg}}
   <tableborder =1>
    <thead>
      Email 
     Username
     RollNumber
      Pin 
    </thead>
    {% for row inusers%}
```