#### Assignment -2

**Python Programming** 

Assignment Date	04-11-2022
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- 1. Create a User table with Username, email, roll number, password
- 2. Perform UPDATE, DELETE Queries with user table
- 3. Connect python code to db2.
- 4. 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
sql import models as
dbHandler
               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():
                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:
     cur = con.cursor()
     cur.execute("DELETE FROM users WHERE username = ?",[un])
     con.commit()
              "Record successfully
                                      deleted"
     msg =
   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
```

# 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></ri>

```
<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></a>
```

#### Add user.html

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

```
<h3>User
Information</h3>
E-mail<br/>
cinput type = "email" name = "email" /></br>
Username<br/>
cinput type = "text" name = "username" /></br>
Rollnumber<br/>
cinput type = "text" name = "rollnumber" /><br/>
cinput type = "text" name = "pin" min="4" max="8" /><br>
cinput type = "password" name = "pin" min="4" max="8" /><br>
cinput type = "submit" value = "submit" />
cinput type = "reset"/>
</form>
```

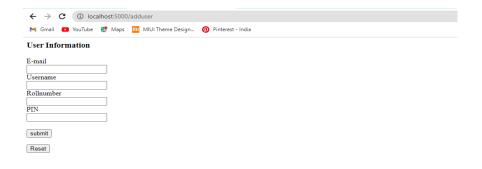
### list.html

### <!doctype html>

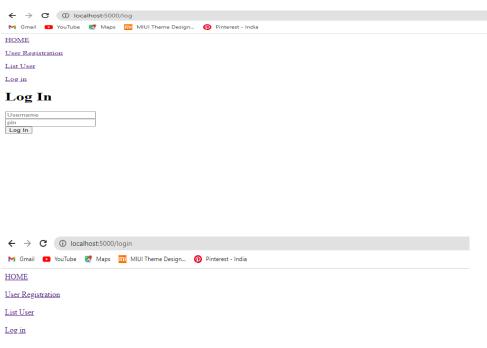
```
<html> <body>
```

```
<a href="/">HOME</a><br><br>
 <a href="/adduser">Add New Student</a><br><br>
 <a href="/list">List Student</a><br><br><</pre>
 <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>
← → C ① localhost:5000
M Gmail 🔼 YouTube 🥂 Maps 🔟 MIUI Theme Design... 👩 Pinterest - India
Welcome to User DB APP
HOME
User Registration
List User
```

<u>Log in</u> Remove a User



EMAIL	USER NAME	ROLL NUMBER	PIN
delvynjones.23cs@licet.ac.in	Delvyn Jones M	311119104017	9876
rubertsheldon.23cs@licet.ac.in	Rupert Sheldon A	311119104050	1234
serena.23cs@licet.ac.in	Serena J E	311119104055	3345
surya200123@gmail.com	Suryanarayan R K		5412



Welcome



EMAIL	USER NAME	ROLL NUMBER	PIN
delvynjones.23cs@licet.ac.in	Delvyn Jones M	311119104017	9876
rubertsheldon.23cs@licet.ac.in	Rubert Sheldon A	311119104050	1234
serena.23cs@licet.ac.in	Serena J E	311119104055	3345
surya200123@gmail.com	Suryanarayan R K		5412