Assignment -2

Assignment Date	01-11-2022
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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:

Va.qqA

```
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():
 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
```

salite db setup.pv

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>We come to User DB APP</h1>

</ri>

```
<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><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>
<input type = "text" name = "rollnumber" /><br>
PIN<br/>
<input type = "password" name = "pin" min="4" max="8" /><br>
<input type = "submit" value = "submit" /> 
<input type = "reset"/>
</form>
```

list.html

<!doctype html>

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

```
<a href="/">HOME</a><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>
</html>
```