Assignment -2

Python Programming

Assignment Date	28-09-2022
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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 sqlimport
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']
= 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


```
<a href="/">HOME</a><br><br><a href="/adduser">User Registration</a><br><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>
```

<u>list.html</u>

<!doctype html>

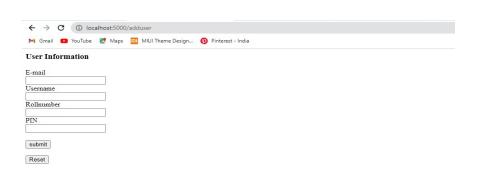
```
<html>
 <body>
 <a href="/">HOME</a><br><br>
 <a href="/adduser">Add New Student</a><br><br><</pre>
 <a href="/list">List Student</a><br><br>>
 <br><hr>
 {{ msg }}
  <thead>
     Email 
     Username 
     Roll Number 
     Pin 
   </thead>
   {% for row in users %}
    {{row["email"]}}
     {{row["username"]}}
     {{ row["rollnumber"]}}
     {{row['pin']}}
```

Welcome to User DB APP

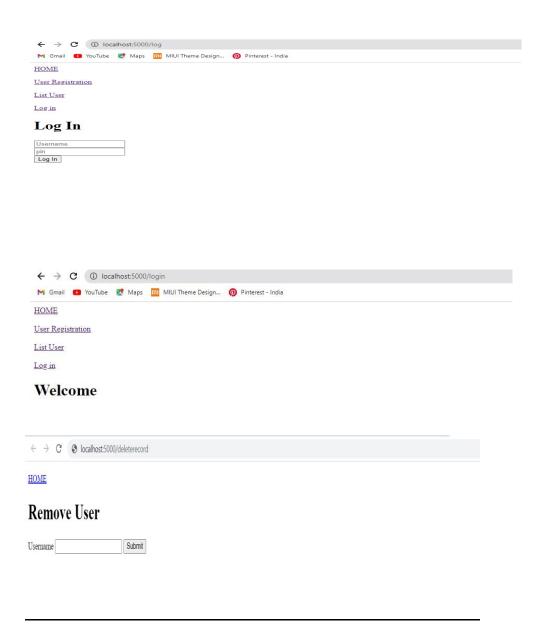
HOME
User Registration
List User

Remove a User

Log in



Email	UserName	Roll Number	PIN
kavi.110@gmail.com	Kavinaya	19205046	1234
afra1230@gmail.com	Afra	19205004	1544
jayasrips@gmail.com	Jayasri	19205041	1111
abdulwaseem@gmail.com	Waseem	192050404	1678





Record successfully deleted

Email	UserName	Roll Number	PIN
kavi.110@gmail.com	Kavinaya	19205046	1234
jayasrips@gmail.com	Jayasri	19205041	1111
abdulwaseem@gmail.com	Waseem	192050404	1678