Faculty: Sana Shaikh

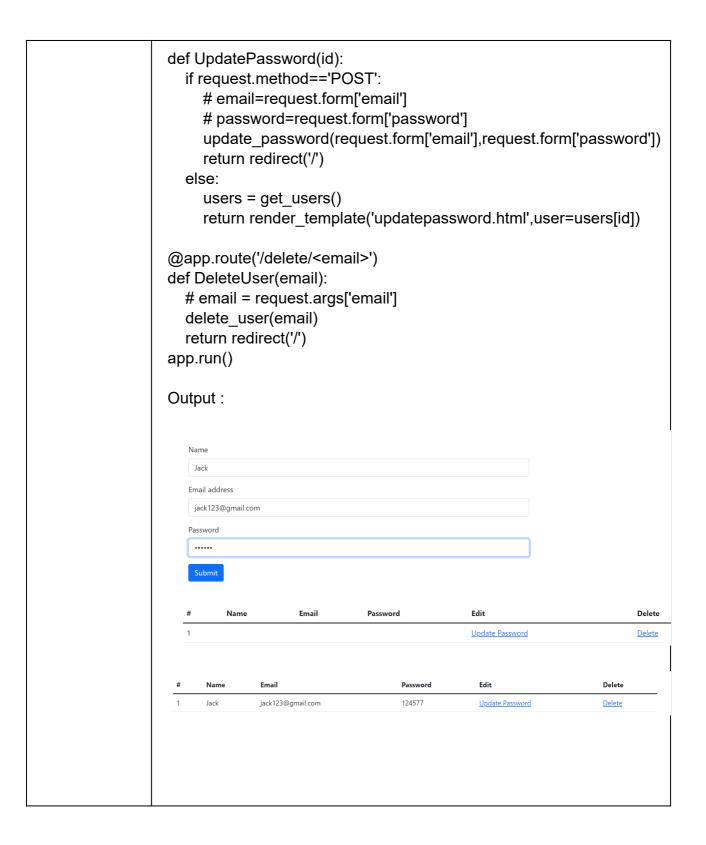
Class: SE Comp

Experiment No: 10

	Name : Ashish Jha Roll no. 27 Batch :B						
Topic:	Develop one database application (for the assigned application) using Flask with MySQL and apply CURD(Create, Update, Read, Delete) operations.						
Prerequisite :	Knowledge of concepts Flask, Python, MySQL, CURD operations						
Mapping With COs:	CSL402.6						
Objective:]	To develop database application using Flask and MySQL. Also apply basic CURD operations.						
Outcome:	After completion of this lab, the students will understand and be able to do the following: - Able to install Flask, MySQL - Able to apply CURD operations - Able to connect a Flask Application to a MySQL Database						
Instructions :	This experiment is a compulsory experiment. All the students are required to perform this experiment individually. Students need to make basic database application (based on						
	assigned topic) using Flask and MySQL. 3. Studnets needs to apply CURD operations of the given application.						
Deliverables :							

```
import uuid
app = flask.Flask( name )
app.config["DEBUG"] = True
engine = create engine('sglite:///database.db', echo=True)
try:
  conn = engine.connect()
  conn.execute("CREATE TABLE users (name VARCHAR(45) NOT
NULL, email VARCHAR(45) NOT NULL, password VARCHAR(45)
NOT NULL, PRIMARY KEY ('email'));")
except:
  pass
def execute_query(query):
  conn = engine.connect()
  return conn.execute(query)
def get users():
  users = execute_query("SELECT * FROM users;").fetchall()
  userdata = []
  temp = {}
  for i in users:
    temp["name"] = i[0]
    temp["email"] = i[1]
    temp["password"] = i[2]
    userdata.append(temp)
  return userdata
def insert _user(name, email, password):
  print(f"INSERT INTO users(name, email, password)
VALUES('{name}', '{email}', '{password}');")
  execute_query(f"INSERT INTO users(name, email, password)
VALUES('{name}', '{email}', '{password}');")
def update_password(email, password):
  print(f"UPDATE users SET password = '{password}' WHERE
email='{email}';")
  execute_query(f"UPDATE users SET password = '{password}'
```

```
WHERE email='{email}';")
def delete user(email):
  execute_query(f"DELETE FROM users WHERE email='{email}';")
def find user(email):
  user = execute query(f"SELECT * FROM users WHERE
email='{email}';").fetchone()
  userdata = []
  temp = {}
  for i in users:
     temp["name"] = i[0]
     temp["email"] = i[1]
     temp["password"] = i[2]
     userdata.append(temp)
  return user
@app.route('/', methods=['GET', 'POST'])
def UsersController():
  if request.method == 'GET':
     users = get users()
     print(users)
    return render template('index.html',users=users)
    # return json.dumps(get users())
  else:
     print(request.form["name"])
     print(request.form["email"])
     print(request.form["password"])
       insert user(request.form["name"], request.form["email"],
request.form["password"])
       # return {"message" : "done"}
       return redirect('/')
    except Exception as e:
       return {"message" : "error"}
@app.route('/updatepassword/<int:id>', methods=['GET', 'POST'])
```



Conclusion:	understand and be able to install Flask and MySQL. Also learned how to connect Flask application with MySQL. Further, students were able to apply CURD operations.
References:	ACM Workshop.

Experiment No 10 Database Management System Lab 2021-22

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Class: SE Comp

Don Bosco Institute of Technology

Department of Computer Engineering

Assessment Rubric for Experiment No. 10

Title of Experiment: Develop Flask Application with MySQL and apply CURD operations **Performance Date**:08/4/2022 **Year and Semester**: 2nd Year and IVth Semester **Submission Date**:08/04/2022

Name: Ashish Jha Batch: B

Roll No. : 27

Sr. No.	Criteria	1 Marks	2 Marks	3 Marks	4 Marks	5 Marks
1	Execution	Executed 10- 30% based on following: - Good User interface design - Apply All CURD	Executed 31- 50% based on following: - Good User interface design - Apply All CURD	Executed 51- 70% based on following: - Good User interface design - Apply All	Executed 71- 89% based on following: - Good User interface design - Apply	Executed 90- 100% based on following: - Good User interface design - Apply All

		operations	operations	CURD operations	All CURD operations	CURD operations
2	Documentatio n	20-39% of solutions are documented properly.	40-59% of solutions are documen ted properly.	60-79% of solutions are documen ted properly.	80-100% of the solution is documented properly.	
3	Viva	Students hardly answered.	Students have problems while answering.	Questions are answered fairly well.	Questions are answered completely and correctly.	
4	Submission on Time	Submitted after the given deadline	Submitted before the given deadline			