

CS 262L- Database Systems

DataBase Mid Project - A



Session: 2020 – 2024

Submitted by:

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Chapter 1

Introduction

1.0.1 Title:

FYP MANAGEMENT SYSTEM

1.0.2 Layout Of Report

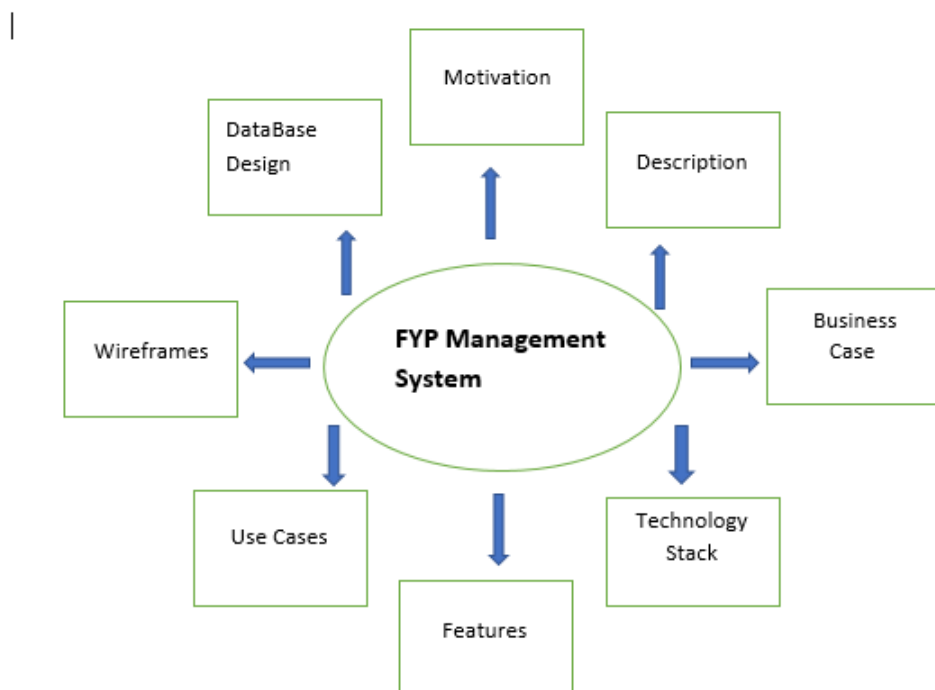


FIGURE 1.1: Report Layout



FIGURE 1.2: DATABASE

1.0.3 Motivation

The motivation of this project is to deliver source of knowledge in a convenient way. A system by which Person have an easy access for Enroll in FYP Project. To give full facility to the Students and Advisors so they can rely easily.

1.0.4 Description

Department of Computer Science UET Lahore holds committee for management of final year project. Each year, list of project titles is opened for the students by the committee after the compilation of ideas from the faculty members. Students are privileged to form the group and select any of the ideas from the list after approval from the faculty advisor. The group of students that carried out this FYP successfully presented their ideas and solutions to the representatives of SB Group, Amazed with the end product.

Once the project is selected by a group of students, an advisory board is assigned to the project which consists of main advisor, co-advisor, and industry advisor.

Throughout the year, multiple evaluations are taken against the project. Currently, this process is managed through spread sheets that will be operated by the member of project committee to manage data at one place.

And any other feature that can be helpful for the management of final year projects after discussion with the committee. Final year project committee also requires multiple reports in pdf form.

The final year project is the culmination of the degree, it gives students a chance to demonstrate all they have learned.. Although students are advised, the purpose is on the student to define the problem, to identify solutions, and to present the

results. For assignments, students submit projects of their progress and reports, and give presentations of their project.

As part of their need, students are needed to communicate and work on a final project with a industry member. It is the way of determining the students performance for project or research connected to the knowledge they have gathered. It allows students to choose ways, techniques and make resolution for the project to handled the project easily.

1.0.5 Project Features

- Manage Students
- Manage Advisors
- Manage Projects
- Formation of Student Group and its management
- Assignment of project to a group of students
- Assignment of multiple advisors to the project
- Manage Evaluations
- Mark the evaluations against a group
- List of projects along with advisory board and list of students
- Marks sheet of projects that shows the marks in each evaluation against each student and project and any other reports that you can help the committee to streamline the process.

1.0.6 Objective Of the Project

- For Admin to manage the details of Person who enroll as a student, Advisor, also manage Groups, GroupStudents, Projects, Evaluations.

1.0.7 Algebraic Query Language used in Project:

- Projection
- Selection
- Cartesian Product
- Joins(Natural,Outer,left,Right,Full,Theta)
- Aggregation Operators

1.1 Business Case

Our target is Students For their FYP Projects

1.1.1 Business Need

The problem is that it is very difficult for a person to enroll in Re FYP Project and to select the Group, Project and Advisor. This project is a benefit for Educational System and FYP Management System. It provides user-friendly environment.”

1.1.2 Impact on society

”This project will have a positive impact in society as it is an ocean of knowledge. If this project is implemented so it will be a easily enter the students to enroll for Project.

1.2 Technology Stack

TABLE 1.1

Language	CSharp
Platform	Desktop Application
IDEs	Visual Studio AND Microsoft SQL SERVER

1.3 WireFrames

1.3.1 MainScreen



FIGURE 1.3: Main screen

1.4 DataBase Design

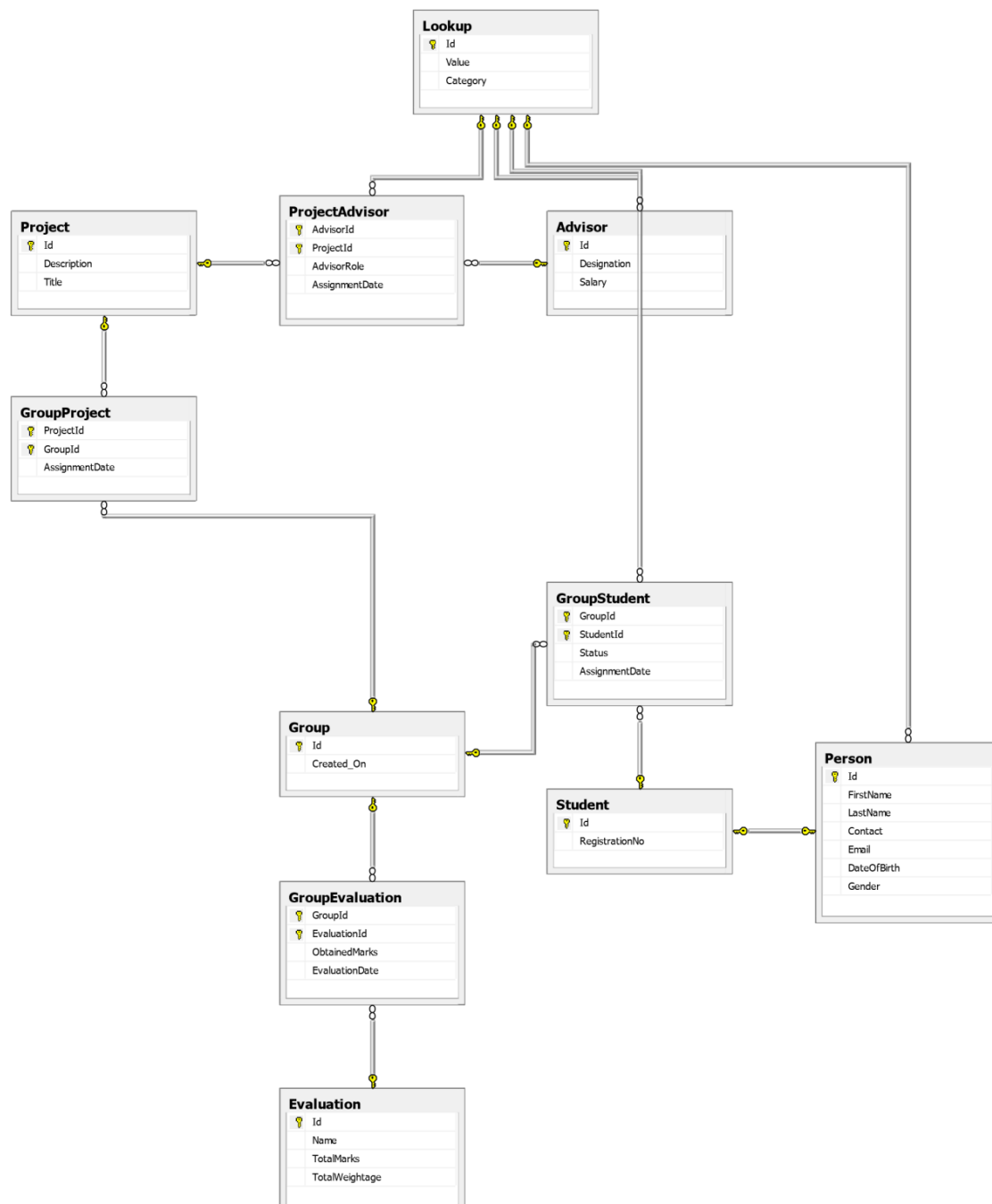


FIGURE 1.4: Design

1.5 Methodologies

Firstly Connected the SQL DATABASE, and then connect SQL with the visual Studio.The schema is get from Project A.

1.5.1 Person

The FYP Management system used the person to register itself for Project.In Person, ID is initialized as a Primary Key.First Name,Last Name, Contact,Email,Date of Birth and gender is the attributes of Person.In Gender(a combo box is used which determine the male or female) get the data from lookup Table by using select query in combo box.While Id is a by-default value.Apply CRUD Operations(INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR by using queries.

1.5.2 Student

Student Who Enroll or register for FYP Projects.In student, Id is a Foreign Key taken from Person Table.Using the load operator to call the id from Person.Registration No is always a unique given by the committee member.Apply CRUD Operations(INSERT, SEARCH, DELETE, SHOW, CLEAR) by using queries. Update Operator doesn't apply because Registration No never be update.

1.5.3 Group

Group are formed for students to work on final year Project.In Group, ID is initialized as a Primary Key.Created-On is the attribute of Group.While Id is a by-default value.Apply CRUD Operations(INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR) by using queries.

1.5.4 Group Student

Group Students are formed to work on final year Project.In group Student,Group Id ,Student Id, Status and Assignment Date are the attributes.Group Id is a Foreign key which is taken from the Group Table .Student Id is a Foreign key which is taken from the Student Table.Using the load operator to call the id from Group and student Id's.In Status(a combo box is used which determine the active or inactive) get the data from lookup Table by using select query in combo box.Apply CRUD Operations(INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR) by using queries.

1.5.5 Project

Project is given to the FYP students. In Project, ID is initialized as a Primary Key. Description and Title of Project are the attributes. While Id is a by-default value. Apply CRUD Operations (INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR) by using queries.)

1.5.6 Group Project

Group Project provides the information for students to work on their projects. Project Id is the Foreign Key taken from the Project, Group Id is the Foreign Key taken from Group. Assignment date is selected to submit the assignment on time. Using the load operator to call the id from Group and Project Id's. Apply CRUD Operations (INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR) by using queries.

1.5.7 Advisor

Advisor is provided as a Guider for Students for their project. In Advisor, ID is given by the admin. While Designation and Salary are the attributes. In Designation (a combo box is used which determine the Lecturer, Assistant Professor, Associate Professor, Professor, Industry Professional) get the data from lookup Table by using select query in combo box. Apply CRUD Operations (INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR) by using queries.

1.5.8 Project Advisor

Project Advisor is provided as a Guider for Students for their project. In Project Advisor, Project Id is the Foreign Key taken from the Project, Advisor Id is the Foreign Key taken from advisor, also Advisor role and assignment date are the attributes. In Advisor Role (a combo box is used which determine the Main advisor, Co-Advisor, Industrial Advisor) get the data from lookup Table by using select query in combo box. Using the load operator to call the id from Advisor and Project Id's. Apply CRUD Operations (INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR) by using queries.

1.5.9 Evaluation

Evaluation is to graded the Students for their Projects with their evaluated date of submission of project deadlines. In Evaluation, ID is initialized as a Primary Key also Name, Total Marks, Total weightage are the attributes. While Id is a by-default value. Apply CRUD Operations (INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR bu using queries.)

1.5.10 Group Evaluation

Group Evaluation is to graded the GroupStudents for their Projects with their evaluated date of submission of project deadlines. In Group Evaluation, Group Id is the Foreign Key taken from the Group, Evaluated Id is the Foreign Key taken from Evaluation, also obtained marks and evaluated date are the attributes. sing the load operator to call the id from evaluation and Group Id's. Apply CRUD Operations (INSERT, UPDATE, SEARCH, DELETE, SHOW, CLEAR bu using queries.)

TABLE 1.4

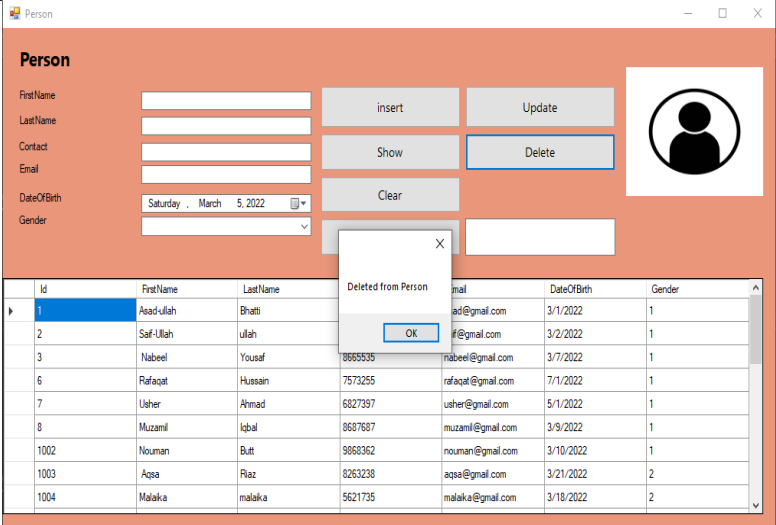
Use Case 1 (c)	DELETE PERSON																																																												
Algebraic Query Language	In Deletion, we used query to delete the data.																																																												
GUI	 <p>The screenshot shows a web application titled "Person". It features a form for adding or updating a person with fields for First Name, Last Name, Contact, Email, Date of Birth, and Gender. There are buttons for "insert", "Update", "Show", "Delete", and "Clear". A table below the form lists existing persons. A confirmation dialog box titled "Deleted from Person" with an "OK" button is overlaid on the table, indicating a successful deletion.</p> <table><thead><tr><th>Id</th><th>First Name</th><th>Last Name</th><th>Email</th><th>Date of Birth</th><th>Gender</th></tr></thead><tbody><tr><td>1</td><td>Asad-ullah</td><td>Bhatti</td><td>asad@gmail.com</td><td>3/1/2022</td><td>1</td></tr><tr><td>2</td><td>Saf-Ullah</td><td>ullah</td><td>#@gmail.com</td><td>3/2/2022</td><td>1</td></tr><tr><td>3</td><td>Nabeel</td><td>Yousaf</td><td>nabeel@gmail.com</td><td>3/7/2022</td><td>1</td></tr><tr><td>6</td><td>Rafaqat</td><td>Hussain</td><td>7573255 rafaqat@gmail.com</td><td>7/1/2022</td><td>1</td></tr><tr><td>7</td><td>Usher</td><td>Ahmad</td><td>6827397 usher@gmail.com</td><td>5/1/2022</td><td>1</td></tr><tr><td>8</td><td>Muzamil</td><td>Iqbal</td><td>8687687 muzamil@gmail.com</td><td>3/9/2022</td><td>1</td></tr><tr><td>1002</td><td>Nouman</td><td>Butt</td><td>9868362 nouman@gmail.com</td><td>3/10/2022</td><td>1</td></tr><tr><td>1003</td><td>Aqsa</td><td>Riaz</td><td>8263238 aqsa@gmail.com</td><td>3/21/2022</td><td>2</td></tr><tr><td>1004</td><td>Malaka</td><td>malaka</td><td>5621735 malaka@gmail.com</td><td>3/18/2022</td><td>2</td></tr></tbody></table>	Id	First Name	Last Name	Email	Date of Birth	Gender	1	Asad-ullah	Bhatti	asad@gmail.com	3/1/2022	1	2	Saf-Ullah	ullah	#@gmail.com	3/2/2022	1	3	Nabeel	Yousaf	nabeel@gmail.com	3/7/2022	1	6	Rafaqat	Hussain	7573255 rafaqat@gmail.com	7/1/2022	1	7	Usher	Ahmad	6827397 usher@gmail.com	5/1/2022	1	8	Muzamil	Iqbal	8687687 muzamil@gmail.com	3/9/2022	1	1002	Nouman	Butt	9868362 nouman@gmail.com	3/10/2022	1	1003	Aqsa	Riaz	8263238 aqsa@gmail.com	3/21/2022	2	1004	Malaka	malaka	5621735 malaka@gmail.com	3/18/2022	2
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TABLE 1.5

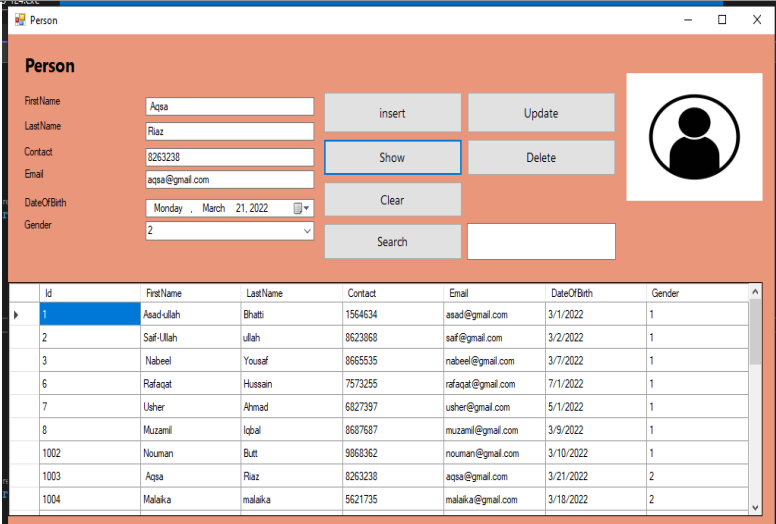
Use Case 1 (d)	SHOW PERSON																																																																						
Algebraic Query Language	In show, we used query to show the data.																																																																						
GUI	 <p>The screenshot shows a web application titled "Person" with a form and a table. The form has fields for First Name, Last Name, Contact, Email, DateOfBirth, and Gender, along with buttons for insert, Update, Show, Delete, Clear, and Search. The table below the form displays a list of persons with columns: Id, First Name, Last Name, Contact, Email, DateOfBirth, and Gender. The first row is highlighted.</p> <table><thead><tr><th>Id</th><th>First Name</th><th>Last Name</th><th>Contact</th><th>Email</th><th>DateOfBirth</th><th>Gender</th></tr></thead><tbody><tr><td>1</td><td>Asad-ullah</td><td>Bhatti</td><td>1564634</td><td>asad@gmail.com</td><td>3/1/2022</td><td>1</td></tr><tr><td>2</td><td>Saf-Ullah</td><td>ullah</td><td>8623868</td><td>saf@gmail.com</td><td>3/2/2022</td><td>1</td></tr><tr><td>3</td><td>Nabeel</td><td>Yousaf</td><td>8665535</td><td>nabeel@gmail.com</td><td>3/7/2022</td><td>1</td></tr><tr><td>6</td><td>Rafaqat</td><td>Hussain</td><td>7573255</td><td>rafaqat@gmail.com</td><td>7/1/2022</td><td>1</td></tr><tr><td>7</td><td>Usher</td><td>Ahmad</td><td>6827397</td><td>usher@gmail.com</td><td>5/1/2022</td><td>1</td></tr><tr><td>8</td><td>Muzamil</td><td>Iqbal</td><td>8687687</td><td>muzamil@gmail.com</td><td>3/9/2022</td><td>1</td></tr><tr><td>1002</td><td>Nouman</td><td>Butt</td><td>9868362</td><td>nouman@gmail.com</td><td>3/10/2022</td><td>1</td></tr><tr><td>1003</td><td>Aqsa</td><td>Riaz</td><td>8263238</td><td>aqsa@gmail.com</td><td>3/21/2022</td><td>2</td></tr><tr><td>1004</td><td>Malaka</td><td>malaka</td><td>5621735</td><td>malaka@gmail.com</td><td>3/18/2022</td><td>2</td></tr></tbody></table>	Id	First Name	Last Name	Contact	Email	DateOfBirth	Gender	1	Asad-ullah	Bhatti	1564634	asad@gmail.com	3/1/2022	1	2	Saf-Ullah	ullah	8623868	saf@gmail.com	3/2/2022	1	3	Nabeel	Yousaf	8665535	nabeel@gmail.com	3/7/2022	1	6	Rafaqat	Hussain	7573255	rafaqat@gmail.com	7/1/2022	1	7	Usher	Ahmad	6827397	usher@gmail.com	5/1/2022	1	8	Muzamil	Iqbal	8687687	muzamil@gmail.com	3/9/2022	1	1002	Nouman	Butt	9868362	nouman@gmail.com	3/10/2022	1	1003	Aqsa	Riaz	8263238	aqsa@gmail.com	3/21/2022	2	1004	Malaka	malaka	5621735	malaka@gmail.com	3/18/2022	2
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TABLE 1.6

Use Case 1 (e)	SEARCH PERSON																								
Algebraic Query Language	In SEARCH, we used query to search the data.																								
GUI	<div><div><div><div>Person</div><div><div><div>Person</div><div><div><div>First Name</div><div>Aqsa</div></div><div><div>Last Name</div><div>Riaz</div></div><div><div>Contact</div><div>8263238</div></div><div><div>Email</div><div>aqsa@gmail.com</div></div><div><div>DateOfBirth</div><div>Monday , March 21, 2022</div></div><div><div>Gender</div><div>2</div></div></div><div><div>insert</div><div>Update</div><div>Show</div><div>Delete</div><div>Clear</div><div>Search</div></div><div><div><div></div></div><div>1003</div></div></div></div><div><table><tr><th></th><th>Id</th><th>First Name</th><th>Last Name</th><th>Contact</th><th>Email</th><th>DateOfBirth</th><th>Gender</th></tr><tr><td>▶</td><td>1003</td><td>Aqsa</td><td>Riaz</td><td>8263238</td><td>aqsa@gmail.com</td><td>3/21/2022</td><td>2</td></tr><tr><td>*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div></div></div></div>		Id	First Name	Last Name	Contact	Email	DateOfBirth	Gender	▶	1003	Aqsa	Riaz	8263238	aqsa@gmail.com	3/21/2022	2	*							
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▶	1003	Aqsa	Riaz	8263238	aqsa@gmail.com	3/21/2022	2																		
*																									

1.5.12 Use Case 2:

1.5.12.1 Student

TABLE 1.7

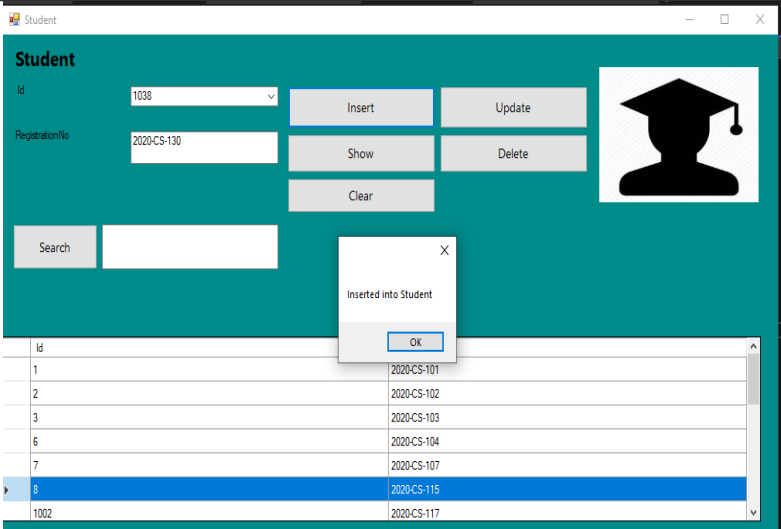
Use Case 2 (a)	INSERT Student
Algebraic Query Language	In Insertion or addition, we used query to stored the data.
GUI	

TABLE 1.8

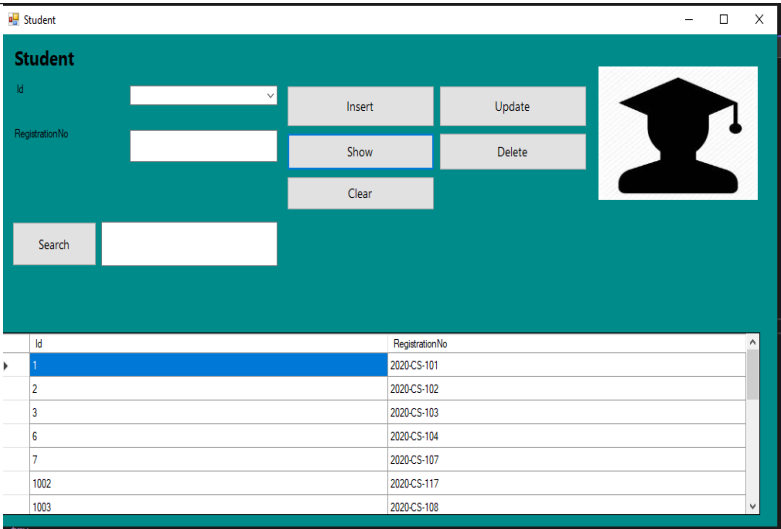
Use Case 2 (b)	UPDATE Student
Algebraic Query Language	In Updation, we used query to update the data.
GUI	

TABLE 1.9

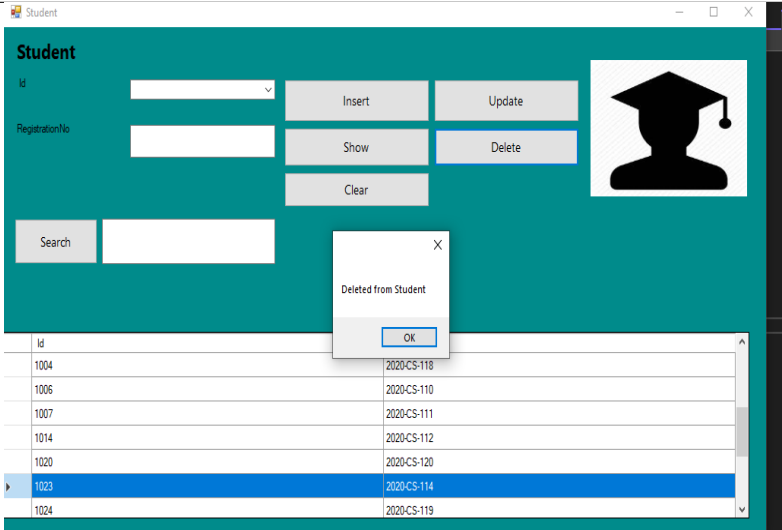
Use Case 2 (c)	DELETE Student
Algebraic Query Language	In Deletion, we used query to delete the data.
GUI	

TABLE 1.10

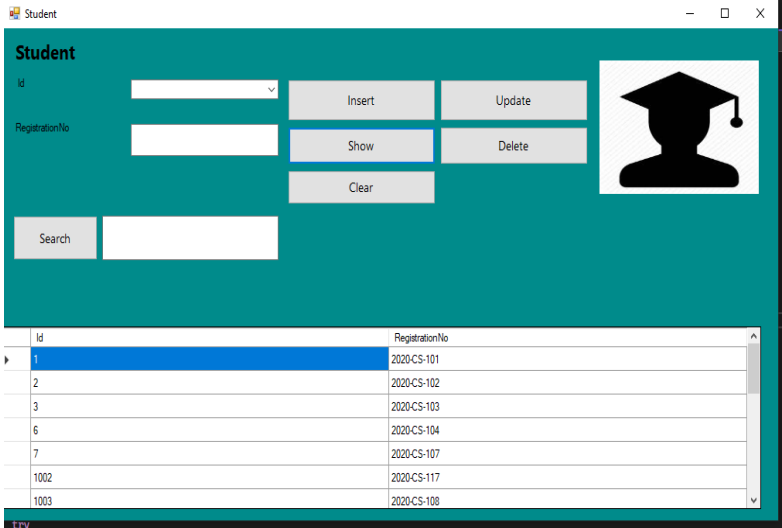
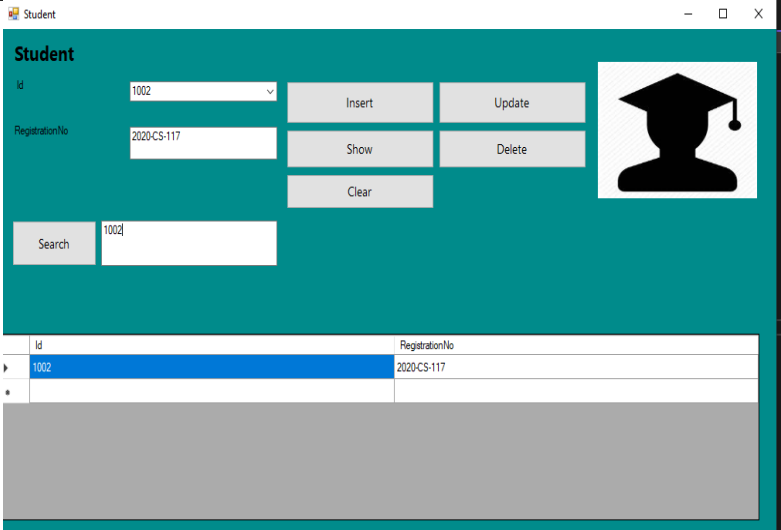
Use Case 2 (d)	SHOW Student
Algebraic Query Language	In show, we used query to show the data.
GUI	

TABLE 1.11

Use Case 2 (e)	SEARCH Student						
Algebraic Query Language	In SEARCH, we used query to search the data.						
GUI	 <p>The screenshot displays a web application window titled "Student". The interface features a teal header with a graduation cap icon. Below the header, there are input fields for "Id" (containing "1002") and "RegistrationNo" (containing "2020-CS-117"). To the right of these fields are buttons for "Insert", "Update", "Show", "Delete", and "Clear". A "Search" button is positioned next to a search input field containing "1002". Below the form, a table lists student records with columns "Id" and "RegistrationNo". The first row shows "1002" and "2020-CS-117". A greyed-out area is visible at the bottom of the window.</p> <table><thead><tr><th>Id</th><th>RegistrationNo</th></tr></thead><tbody><tr><td>1002</td><td>2020-CS-117</td></tr><tr><td>*</td><td></td></tr></tbody></table>	Id	RegistrationNo	1002	2020-CS-117	*	
Id	RegistrationNo						
1002	2020-CS-117						
*							

1.5.13 Use Case 3:

1.5.13.1 GROUP

TABLE 1.12

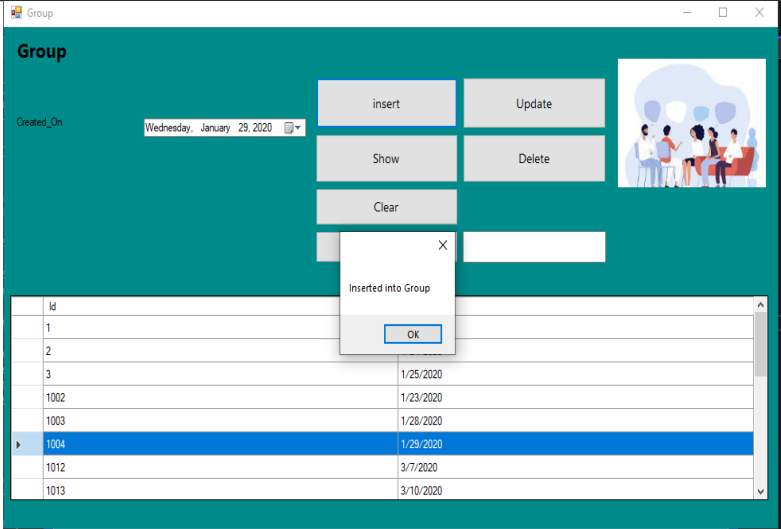
Use Case 3 (a)	INSERT GROUP																		
Algebraic Query Language	In Insertion or addition, we used query to stored the data.																		
GUI	 <p>The screenshot shows a web application titled "Group". It features a teal header with the title and a date selector set to "Wednesday, January 29, 2020". On the right, there are four buttons: "insert", "Update", "Show", and "Delete". Below these is a "Clear" button and a search input field. A confirmation dialog box is open in the center, displaying "Inserted into Group" with an "OK" button. At the bottom, a table lists group data with columns for "Id" and "Created_On".</p> <table><thead><tr><th>Id</th><th>Created_On</th></tr></thead><tbody><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td>1/25/2020</td></tr><tr><td>1002</td><td>1/23/2020</td></tr><tr><td>1003</td><td>1/28/2020</td></tr><tr><td>1004</td><td>1/29/2020</td></tr><tr><td>1012</td><td>3/7/2020</td></tr><tr><td>1013</td><td>3/10/2020</td></tr></tbody></table>	Id	Created_On	1		2		3	1/25/2020	1002	1/23/2020	1003	1/28/2020	1004	1/29/2020	1012	3/7/2020	1013	3/10/2020
Id	Created_On																		
1																			
2																			
3	1/25/2020																		
1002	1/23/2020																		
1003	1/28/2020																		
1004	1/29/2020																		
1012	3/7/2020																		
1013	3/10/2020																		

TABLE 1.13

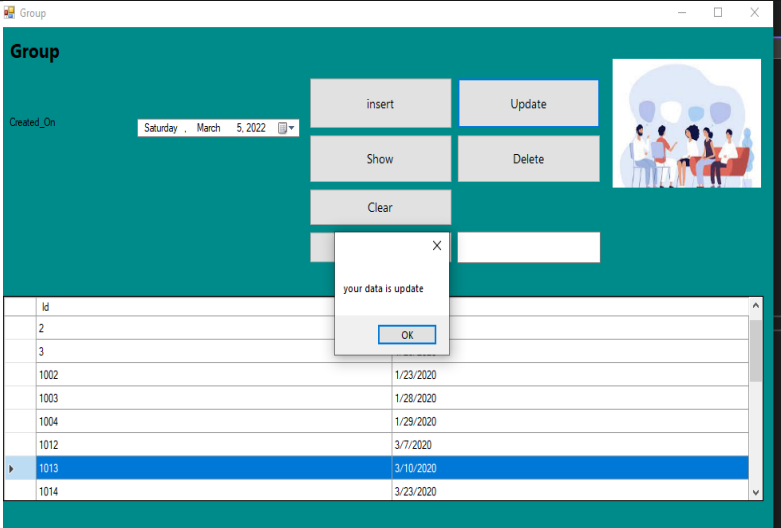
Use Case 3 (b)	UPDATE GROUP																		
Algebraic Query Language	In Updation, we used query to update the data.																		
GUI	 <p>The screenshot shows the same "Group" application window, but the date selector is now set to "Saturday, March 5, 2022". The "insert" button is disabled, and the "Update" button is active. The confirmation dialog box now displays "your data is update" with an "OK" button. The table at the bottom shows updated data.</p> <table><thead><tr><th>Id</th><th>Created_On</th></tr></thead><tbody><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>1002</td><td>1/23/2020</td></tr><tr><td>1003</td><td>1/28/2020</td></tr><tr><td>1004</td><td>1/29/2020</td></tr><tr><td>1012</td><td>3/7/2020</td></tr><tr><td>1013</td><td>3/10/2020</td></tr><tr><td>1014</td><td>3/23/2020</td></tr></tbody></table>	Id	Created_On	2		3		1002	1/23/2020	1003	1/28/2020	1004	1/29/2020	1012	3/7/2020	1013	3/10/2020	1014	3/23/2020
Id	Created_On																		
2																			
3																			
1002	1/23/2020																		
1003	1/28/2020																		
1004	1/29/2020																		
1012	3/7/2020																		
1013	3/10/2020																		
1014	3/23/2020																		

TABLE 1.14

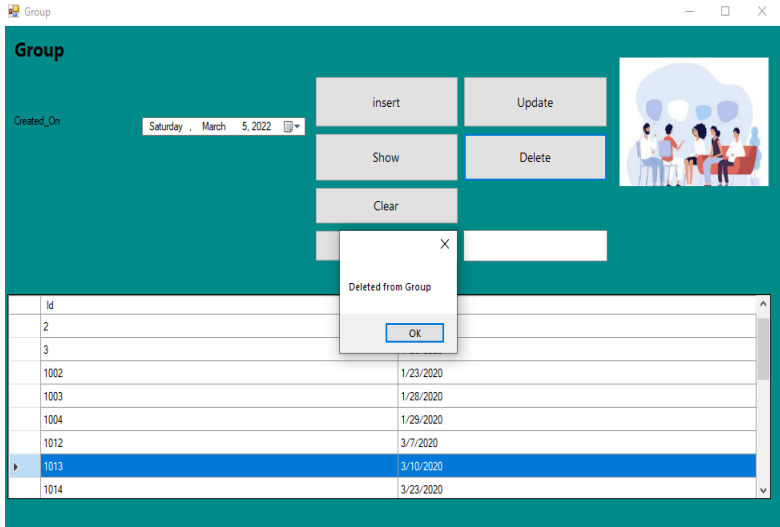
Use Case 3 (c)	DELETE GROUP																		
Algebraic Query Language	In Deletion, we used query to delete the data.																		
GUI	 <p>The screenshot shows a web application window titled 'Group'. It features a teal header with the title 'Group'. Below the header, there is a date selector showing 'Saturday, March 5, 2022'. To the right of the date are buttons for 'insert', 'Update', 'Show', 'Delete', and 'Clear'. A modal dialog box is open in the center, displaying the message 'Deleted from Group' and an 'OK' button. Below the dialog is a table with two columns: 'Id' and 'Created_On'. The table contains the following data:</p> <table border="1"> <thead> <tr> <th>Id</th> <th>Created_On</th> </tr> </thead> <tbody> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>1002</td><td>1/23/2020</td></tr> <tr><td>1003</td><td>1/28/2020</td></tr> <tr><td>1004</td><td>1/29/2020</td></tr> <tr><td>1012</td><td>3/7/2020</td></tr> <tr><td>1013</td><td>3/10/2020</td></tr> <tr><td>1014</td><td>3/23/2020</td></tr> </tbody> </table>	Id	Created_On	2		3		1002	1/23/2020	1003	1/28/2020	1004	1/29/2020	1012	3/7/2020	1013	3/10/2020	1014	3/23/2020
Id	Created_On																		
2																			
3																			
1002	1/23/2020																		
1003	1/28/2020																		
1004	1/29/2020																		
1012	3/7/2020																		
1013	3/10/2020																		
1014	3/23/2020																		

TABLE 1.15

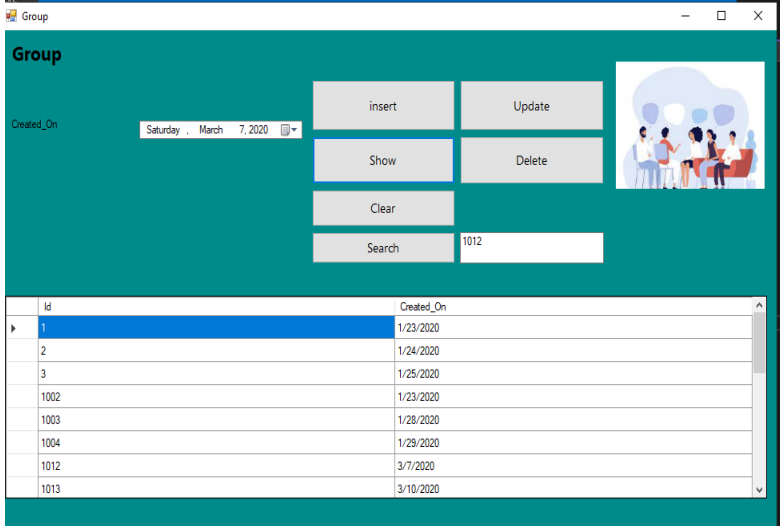
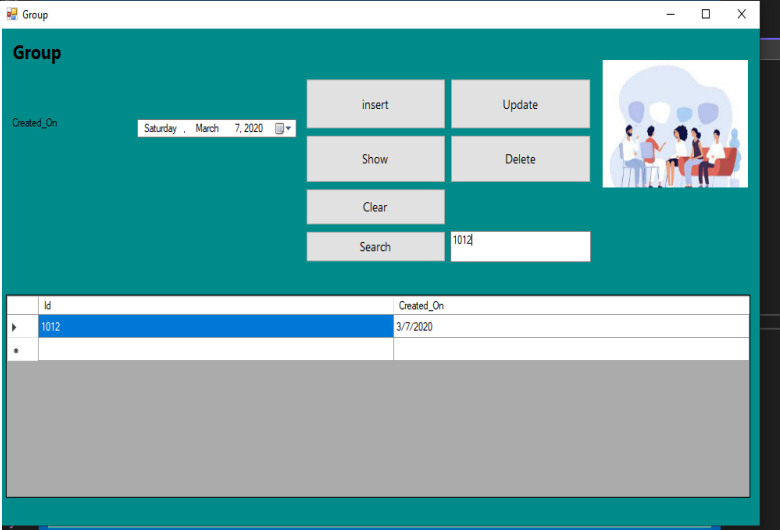
Use Case 3 (d)	SHOW GROUP																		
Algebraic Query Language	In show, we used query to show the data.																		
GUI	 <p>The screenshot shows the same web application window as in Table 1.14. The date selector now shows 'Saturday, March 7, 2020'. The modal dialog box is still present. The table below the dialog shows the following data:</p> <table border="1"> <thead> <tr> <th>Id</th> <th>Created_On</th> </tr> </thead> <tbody> <tr><td>1</td><td>1/23/2020</td></tr> <tr><td>2</td><td>1/24/2020</td></tr> <tr><td>3</td><td>1/25/2020</td></tr> <tr><td>1002</td><td>1/23/2020</td></tr> <tr><td>1003</td><td>1/28/2020</td></tr> <tr><td>1004</td><td>1/29/2020</td></tr> <tr><td>1012</td><td>3/7/2020</td></tr> <tr><td>1013</td><td>3/10/2020</td></tr> </tbody> </table>	Id	Created_On	1	1/23/2020	2	1/24/2020	3	1/25/2020	1002	1/23/2020	1003	1/28/2020	1004	1/29/2020	1012	3/7/2020	1013	3/10/2020
Id	Created_On																		
1	1/23/2020																		
2	1/24/2020																		
3	1/25/2020																		
1002	1/23/2020																		
1003	1/28/2020																		
1004	1/29/2020																		
1012	3/7/2020																		
1013	3/10/2020																		

TABLE 1.16

Use Case 3 (e)	SEARCH GROUP
Algebraic Query Language	In SEARCH, we used query to search the data.
GUI	

1.5.14 Use Case 4:**1.5.14.1 GROUPSTUDENT**

TABLE 1.17

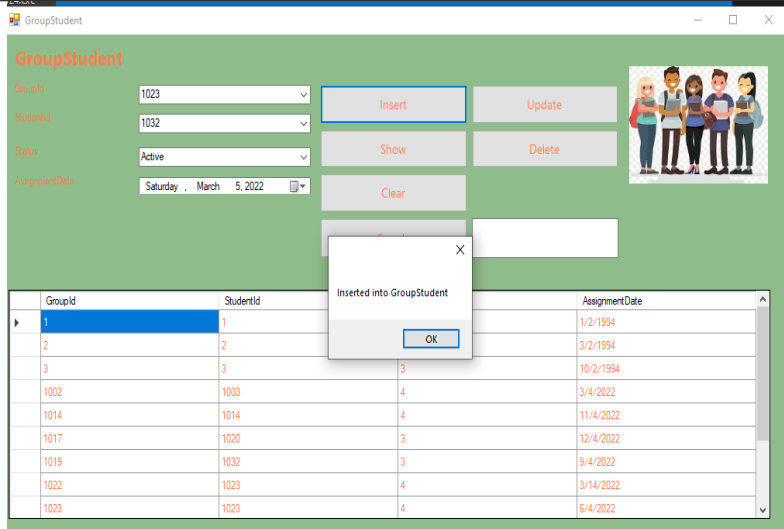
Use Case 4 (a)	INSERT GROUPSTUDENT
Algebraic Query Language	In Insertion or addition, we used query to stored the data.
GUI	 <p>The screenshot shows the GroupStudent application window. On the left, there are input fields for Groupid (1023), Studentid (1032), Status (Active), and AssignmentDate (Saturday, March 5, 2022). To the right of these fields are buttons for Insert, Update, Show, Delete, and Clear. The Insert button is highlighted with a blue border. Below the form is a table with columns Groupid, Studentid, and AssignmentDate. The table contains several rows of data. A small dialog box is open in the center, displaying 'Inserted into GroupStudent' and an OK button.</p>

TABLE 1.18

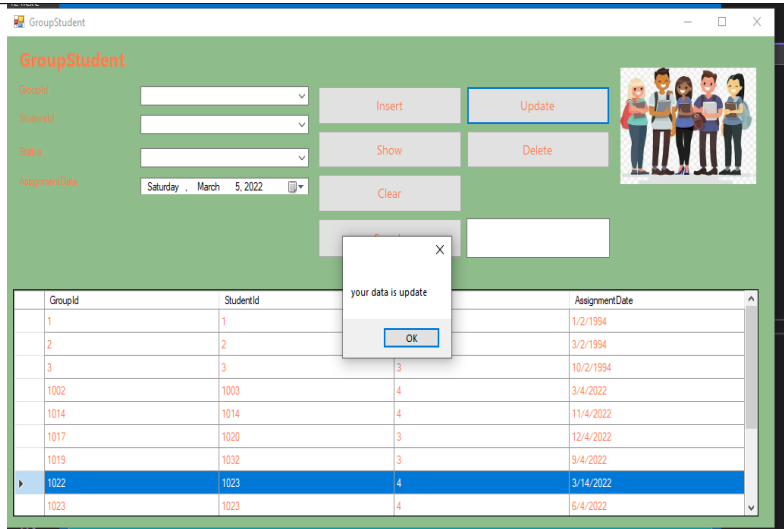
Use Case 4 (b)	UPDATE GROUPSTUDENT
Algebraic Query Language	In Updation, we used query to update the data.
GUI	 <p>The screenshot shows the GroupStudent application window. On the left, there are input fields for Groupid, Studentid, Status, and AssignmentDate. To the right of these fields are buttons for Insert, Update, Show, Delete, and Clear. The Update button is highlighted with a blue border. Below the form is a table with columns Groupid, Studentid, and AssignmentDate. The table contains several rows of data. A small dialog box is open in the center, displaying 'your data is update' and an OK button.</p>

TABLE 1.19

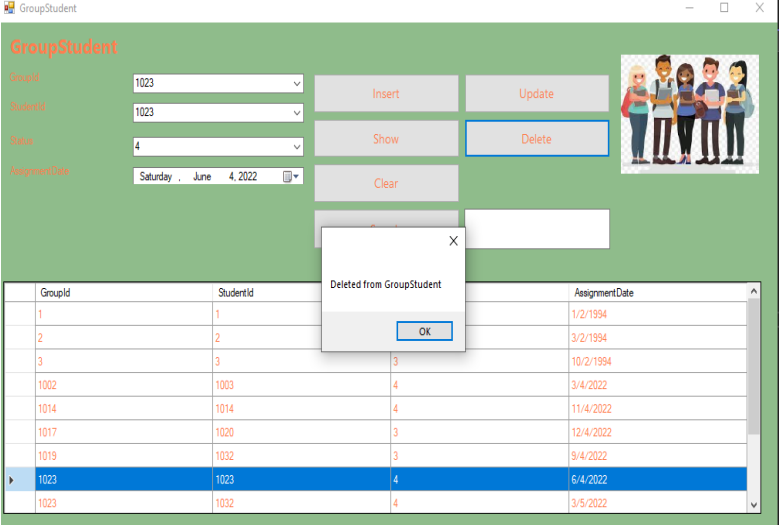
Use Case 4 (c)	DELETE GROUPSTUDENT
Algebraic Query Language	In Deletion, we used query to delete the data.
GUI	 <p>The screenshot shows the GroupStudent application window. It has a green header with the title 'GroupStudent'. Below the header, there are four input fields: 'Groupid' (1023), 'Studentid' (1023), 'Status' (4), and 'AssignmentDate' (Saturday, June 4, 2022). To the right of these fields are five buttons: 'Insert', 'Update', 'Show', 'Delete' (highlighted in blue), and 'Clear'. Below the buttons is a search bar. At the bottom, there is a table with four columns: 'Groupid', 'Studentid', 'Status', and 'AssignmentDate'. The table contains 15 rows of data. A confirmation dialog box titled 'Deleted from GroupStudent' with an 'OK' button is overlaid on the table.</p>

TABLE 1.20

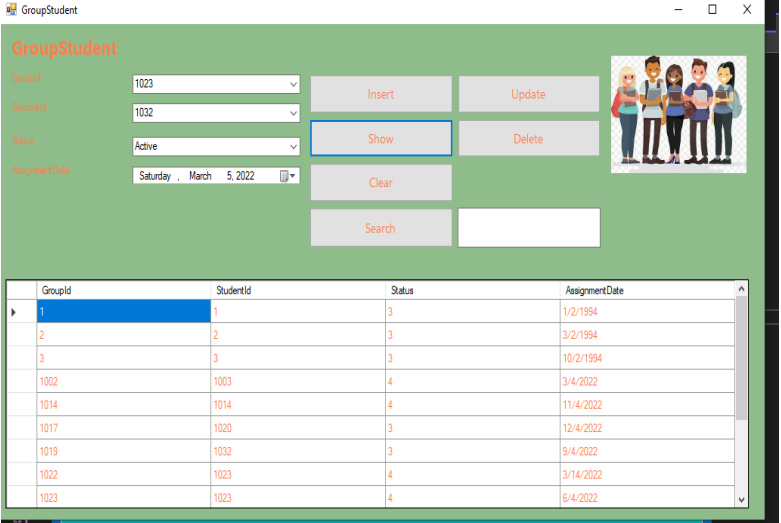
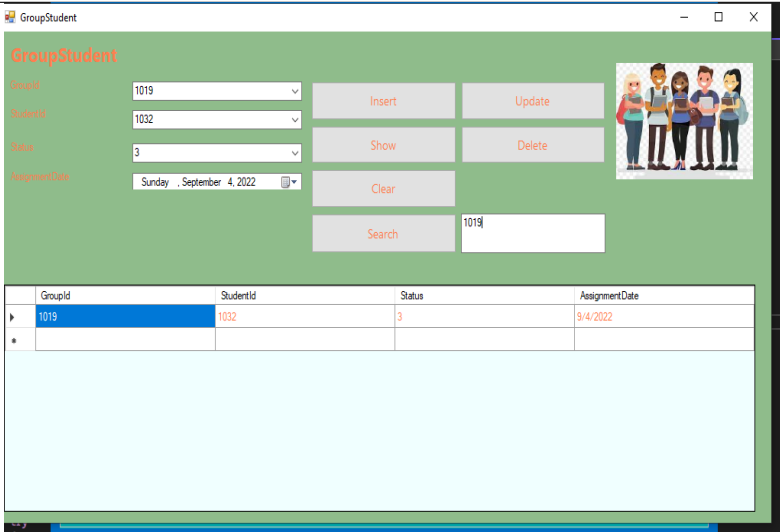
Use Case 4 (d)	SHOW GROUPSTUDENT
Algebraic Query Language	In show, we used query to show the data.
GUI	 <p>The screenshot shows the GroupStudent application window. It has a green header with the title 'GroupStudent'. Below the header, there are four input fields: 'Groupid' (1023), 'Studentid' (1032), 'Status' (Active), and 'AssignmentDate' (Saturday, March 5, 2022). To the right of these fields are five buttons: 'Insert', 'Update', 'Show' (highlighted in blue), 'Delete', and 'Clear'. Below the buttons is a search bar. At the bottom, there is a table with four columns: 'Groupid', 'Studentid', 'Status', and 'AssignmentDate'. The table contains 15 rows of data. The first row is highlighted in blue.</p>

TABLE 1.21

Use Case 4 (e)	SEARCH GROUPSTUDENT								
Algebraic Query Language	In SEARCH, we used query to search the data.								
GUI	 <p>The screenshot displays the 'GroupStudent' application window. It features a green header with the title 'GroupStudent' and a cartoon illustration of four students. Below the header, there are four input fields: 'GroupId' (1019), 'StudentId' (1032), 'Status' (3), and 'AssignmentDate' (Sunday, September 4, 2022). To the right of these fields are buttons for 'Insert', 'Update', 'Show', 'Delete', 'Clear', and a 'Search' button. Below the buttons is a search input field containing '1019'. At the bottom of the window, there is a table with the following data:</p> <table><tr><th>GroupId</th><th>StudentId</th><th>Status</th><th>AssignmentDate</th></tr><tr><td>1019</td><td>1032</td><td>3</td><td>9/4/2022</td></tr></table>	GroupId	StudentId	Status	AssignmentDate	1019	1032	3	9/4/2022
GroupId	StudentId	Status	AssignmentDate						
1019	1032	3	9/4/2022						

1.5.15 Use Case 5:**1.5.15.1 PROJECT**

TABLE 1.22

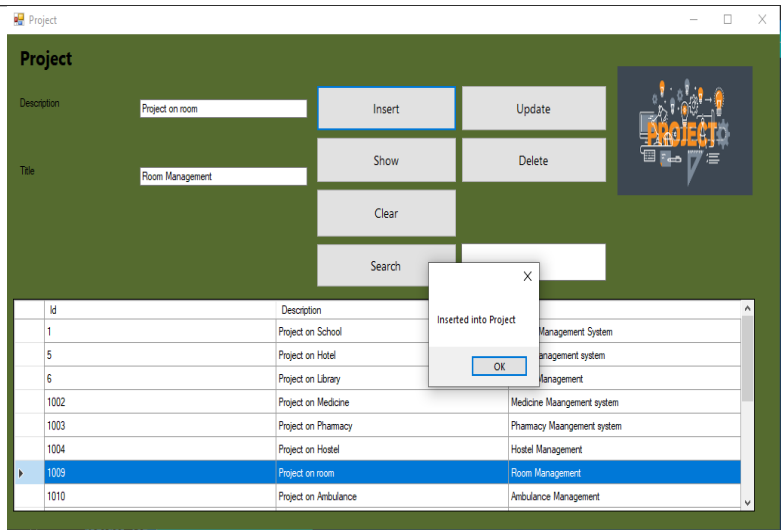
Use Case 5 (a)	INSERT PROJECT																											
Algebraic Query Language	In Insertion or addition, we used query to stored the data.																											
GUI	 <p>The screenshot shows the 'Project' application window. It features a form with 'Description' (containing 'Project on room') and 'Title' (containing 'Room Management'). Action buttons include 'Insert', 'Update', 'Show', 'Delete', 'Clear', and 'Search'. Below the form is a table with the following data:</p> <table><tr><th>Id</th><th>Description</th><th>Title</th></tr><tr><td>1</td><td>Project on School</td><td>Management System</td></tr><tr><td>5</td><td>Project on Hotel</td><td>management system</td></tr><tr><td>6</td><td>Project on Library</td><td>Management</td></tr><tr><td>1002</td><td>Project on Medicine</td><td>Medicine Maangement system</td></tr><tr><td>1003</td><td>Project on Pharmacy</td><td>Pharmacy Maangement system</td></tr><tr><td>1004</td><td>Project on Hostel</td><td>Hostel Management</td></tr><tr><td>1005</td><td>Project on room</td><td>Room Management</td></tr><tr><td>1010</td><td>Project on Ambulance</td><td>Ambulance Management</td></tr></table> <p>A modal dialog titled 'Inserted into Project' with an 'OK' button is displayed over the table.</p>	Id	Description	Title	1	Project on School	Management System	5	Project on Hotel	management system	6	Project on Library	Management	1002	Project on Medicine	Medicine Maangement system	1003	Project on Pharmacy	Pharmacy Maangement system	1004	Project on Hostel	Hostel Management	1005	Project on room	Room Management	1010	Project on Ambulance	Ambulance Management
Id	Description	Title																										
1	Project on School	Management System																										
5	Project on Hotel	management system																										
6	Project on Library	Management																										
1002	Project on Medicine	Medicine Maangement system																										
1003	Project on Pharmacy	Pharmacy Maangement system																										
1004	Project on Hostel	Hostel Management																										
1005	Project on room	Room Management																										
1010	Project on Ambulance	Ambulance Management																										

TABLE 1.23

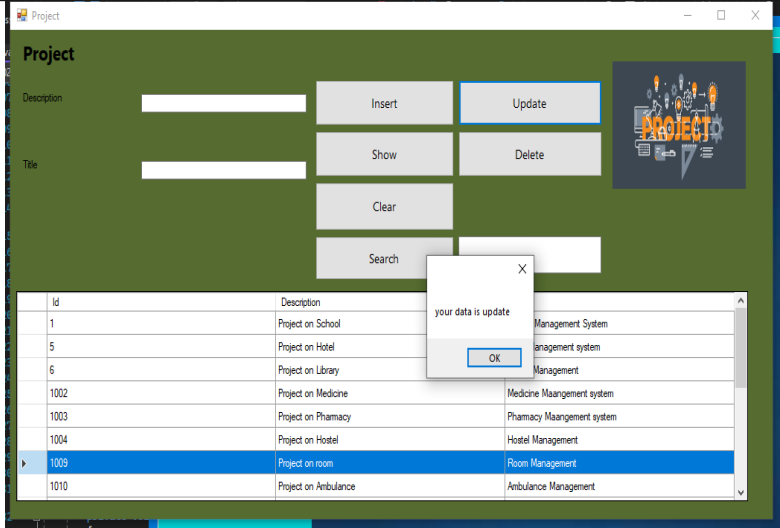
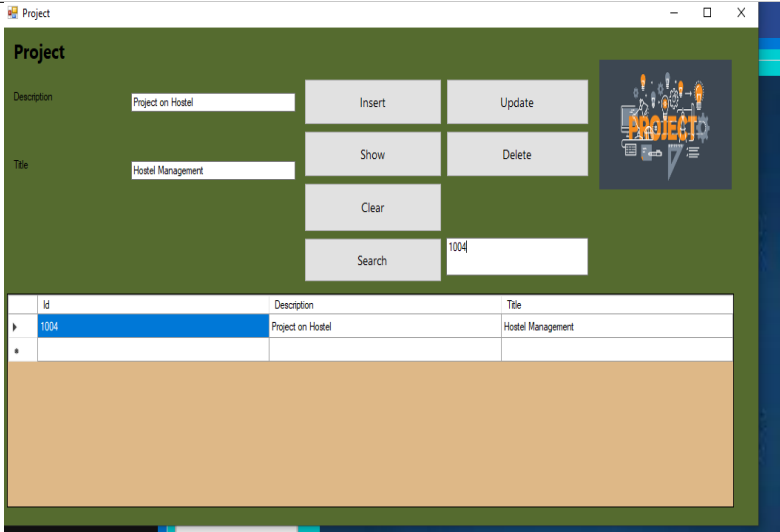
Use Case 5 (b)	UPDATE PROJECT
Algebraic Query Language	In Updation, we used query to update the data.
GUI	 <p>The screenshot shows the 'Project' application window. The 'Description' and 'Title' fields are empty. The same action buttons and table as in Table 1.22 are present. A modal dialog titled 'your data is update' with an 'OK' button is displayed over the table.</p>

TABLE 1.26

Use Case 5 (e)	SEARCH PROJECT						
Algebraic Query Language	In SEARCH, we used query to search the data.						
GUI	 <p>The screenshot displays a web application titled "Project" with a dark green header. Below the header, there are input fields for "Description" (containing "Project on Hostel") and "Title" (containing "Hostel Management"). To the right of these fields are buttons for "Insert", "Update", "Show", "Delete", "Clear", and a "Search" button. The "Search" button is next to a text input field containing the number "1004". Below the search controls, a table displays the search results. The table has three columns: "Id", "Description", and "Title". The first row shows "1004" in the "Id" column, "Project on Hostel" in the "Description" column, and "Hostel Management" in the "Title" column. Below the table, there is a large orange rectangular area.</p> <table><tr><th>Id</th><th>Description</th><th>Title</th></tr><tr><td>1004</td><td>Project on Hostel</td><td>Hostel Management</td></tr></table>	Id	Description	Title	1004	Project on Hostel	Hostel Management
Id	Description	Title					
1004	Project on Hostel	Hostel Management					

1.5.16 Use Case 6:**1.5.16.1 GROUPPROJECT**

TABLE 1.27

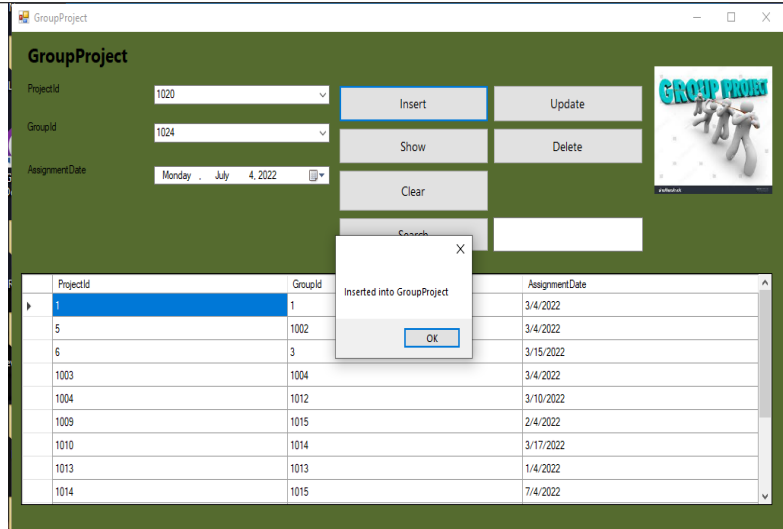
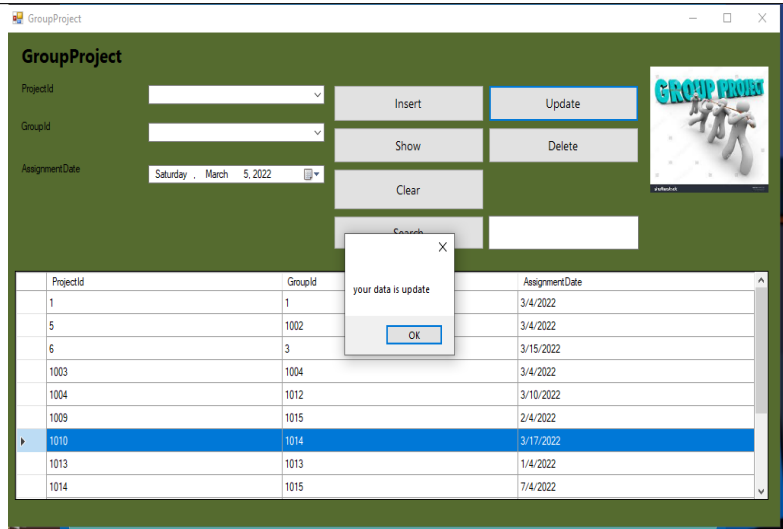
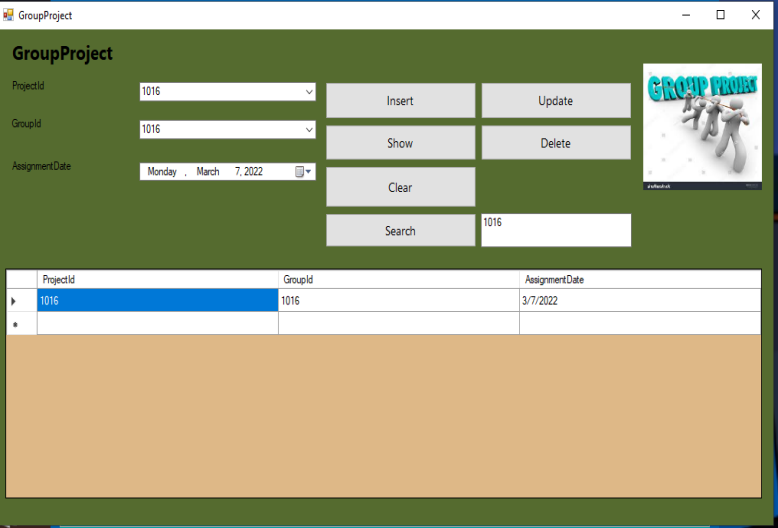
Use Case 6 (a)	INSERT GROUPPROJECT																														
Algebraic Query Language	In Insertion or addition, we used query to stored the data.																														
GUI	 <p>The screenshot shows a web application titled "GroupProject" with a green background. It features input fields for "ProjectId" (1020), "GroupId" (1024), and "AssignmentDate" (Monday, July 4, 2022). There are buttons for "Insert", "Update", "Show", "Delete", "Clear", and "Cancel". A table below displays project data with columns "ProjectId", "GroupId", and "AssignmentDate". A modal dialog box is open, displaying the message "Inserted into GroupProject" and an "OK" button.</p> <table><thead><tr><th>ProjectId</th><th>GroupId</th><th>AssignmentDate</th></tr></thead><tbody><tr><td>1</td><td>1</td><td>3/4/2022</td></tr><tr><td>5</td><td>1002</td><td>3/4/2022</td></tr><tr><td>6</td><td>3</td><td>3/15/2022</td></tr><tr><td>1003</td><td>1004</td><td>3/4/2022</td></tr><tr><td>1004</td><td>1012</td><td>3/10/2022</td></tr><tr><td>1009</td><td>1015</td><td>2/4/2022</td></tr><tr><td>1010</td><td>1014</td><td>3/17/2022</td></tr><tr><td>1013</td><td>1013</td><td>1/4/2022</td></tr><tr><td>1014</td><td>1015</td><td>7/4/2022</td></tr></tbody></table>	ProjectId	GroupId	AssignmentDate	1	1	3/4/2022	5	1002	3/4/2022	6	3	3/15/2022	1003	1004	3/4/2022	1004	1012	3/10/2022	1009	1015	2/4/2022	1010	1014	3/17/2022	1013	1013	1/4/2022	1014	1015	7/4/2022
ProjectId	GroupId	AssignmentDate																													
1	1	3/4/2022																													
5	1002	3/4/2022																													
6	3	3/15/2022																													
1003	1004	3/4/2022																													
1004	1012	3/10/2022																													
1009	1015	2/4/2022																													
1010	1014	3/17/2022																													
1013	1013	1/4/2022																													
1014	1015	7/4/2022																													

TABLE 1.28

Use Case 6 (b)	UPDATE GROUPPROJECT																														
Algebraic Query Language	In Updation, we used query to update the data.																														
GUI	 <table><thead><tr><th>ProjectId</th><th>GroupId</th><th>AssignmentDate</th></tr></thead><tbody><tr><td>1</td><td>1</td><td>3/4/2022</td></tr><tr><td>5</td><td>1002</td><td>3/4/2022</td></tr><tr><td>6</td><td>3</td><td>3/15/2022</td></tr><tr><td>1003</td><td>1004</td><td>3/4/2022</td></tr><tr><td>1004</td><td>1012</td><td>3/10/2022</td></tr><tr><td>1009</td><td>1015</td><td>2/4/2022</td></tr><tr><td>1010</td><td>1014</td><td>3/17/2022</td></tr><tr><td>1013</td><td>1013</td><td>1/4/2022</td></tr><tr><td>1014</td><td>1015</td><td>7/4/2022</td></tr></tbody></table>	ProjectId	GroupId	AssignmentDate	1	1	3/4/2022	5	1002	3/4/2022	6	3	3/15/2022	1003	1004	3/4/2022	1004	1012	3/10/2022	1009	1015	2/4/2022	1010	1014	3/17/2022	1013	1013	1/4/2022	1014	1015	7/4/2022
ProjectId	GroupId	AssignmentDate																													
1	1	3/4/2022																													
5	1002	3/4/2022																													
6	3	3/15/2022																													
1003	1004	3/4/2022																													
1004	1012	3/10/2022																													
1009	1015	2/4/2022																													
1010	1014	3/17/2022																													
1013	1013	1/4/2022																													
1014	1015	7/4/2022																													

[PROJECT Search]

Use Case 6 (e)	SEARCH GROUPPROJECT
Algebraic Query Language	In SEARCH, we used query to search the data.
GUI	 <p>The screenshot displays the GroupProject application window. It features a search interface with three input fields: ProjectId (1016), GroupId (1016), and AssignmentDate (Monday, March 7, 2022). Action buttons include Insert, Update, Show, Delete, Clear, and a Search button. The Search button is highlighted, and the value 1016 is entered in a text box next to it. Below the search fields is a table with three columns: ProjectId, GroupId, and AssignmentDate. The first row shows ProjectId 1016, GroupId 1016, and AssignmentDate 3/7/2022. The table is highlighted in blue. A large orange rectangle is positioned below the table.</p>

1.5.17 Use Case 7:

1.5.17.1 ADVISOR

TABLE 1.31

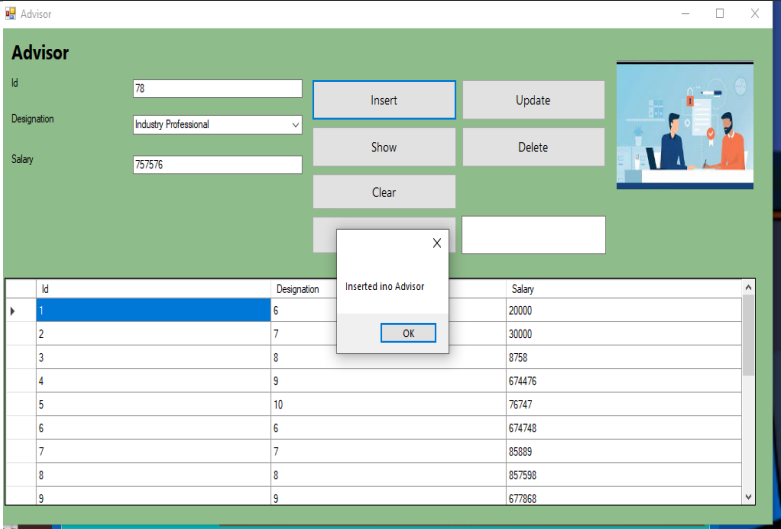
Use Case 7 (a)	INSERT ADVISOR
Algebraic Query Language	In Insertion or addition, we used query to stored the data.
GUI	

TABLE 1.32

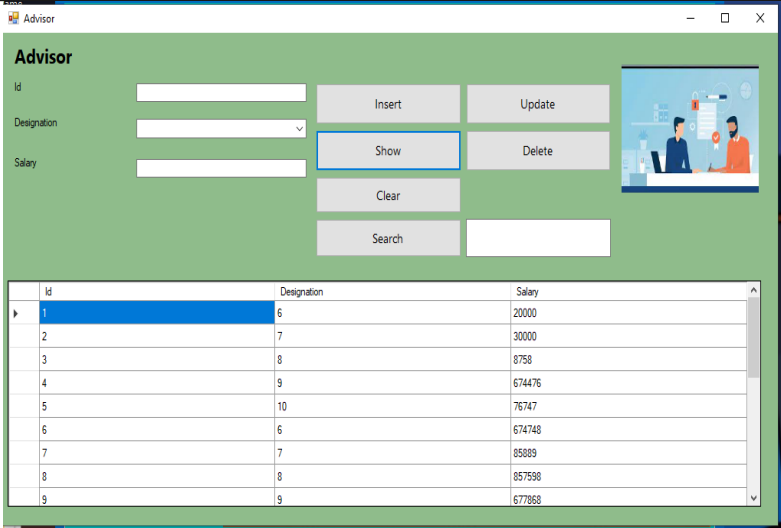
Use Case 7 (b)	UPDATE ADVISOR
Algebraic Query Language	In Updation, we used query to update the data.
GUI	

TABLE 1.33

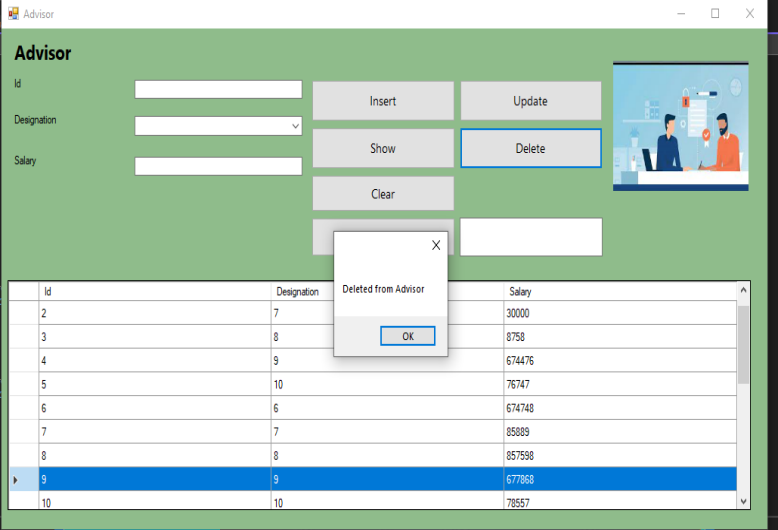
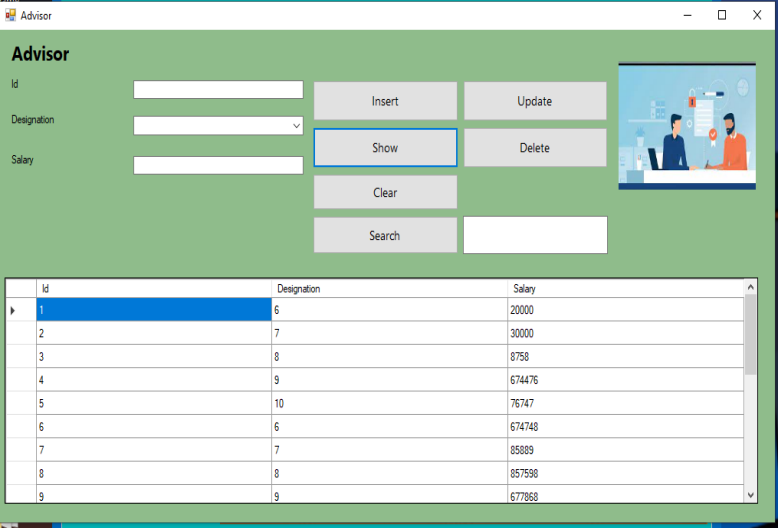
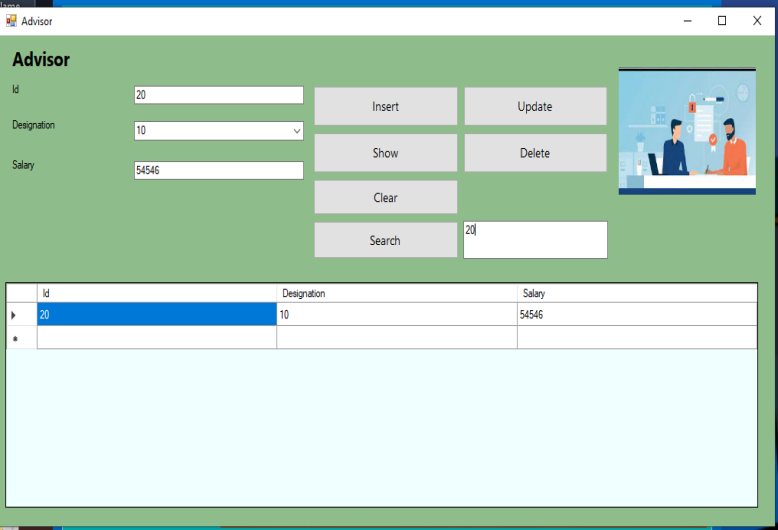
Use Case 7 (c)	DELETE ADVISOR
Algebraic Query Language	In Deletion, we used query to delete the data.
GUI	

TABLE 1.34

Use Case 7 (d)	SHOW ADVISOR
Algebraic Query Language	In show, we used query to show the data.
GUI	

[ADVISOR Search]

Use Case 7 (e)	SEARCH ADVISOR
Algebraic Query Language	In SEARCH, we used query to search the data.
GUI	 <p>The screenshot displays the ADVISOR application window. It features a green header with the title 'Advisor'. Below the header, there are input fields for 'Id' (containing '20'), 'Designation' (a dropdown menu showing '10'), and 'Salary' (containing '54546'). To the right of these fields are buttons for 'Insert', 'Update', 'Show', 'Delete', 'Clear', and 'Search'. The 'Search' button is highlighted. Below the input fields, there is a table with three columns: 'Id', 'Designation', and 'Salary'. The table contains one row with the values '20', '10', and '54546' respectively. The row is highlighted in blue. Below the table, there is a large light blue rectangular area.</p>

1.5.19 Use Case 9:

1.5.19.1 EVALUATION

TABLE 1.39

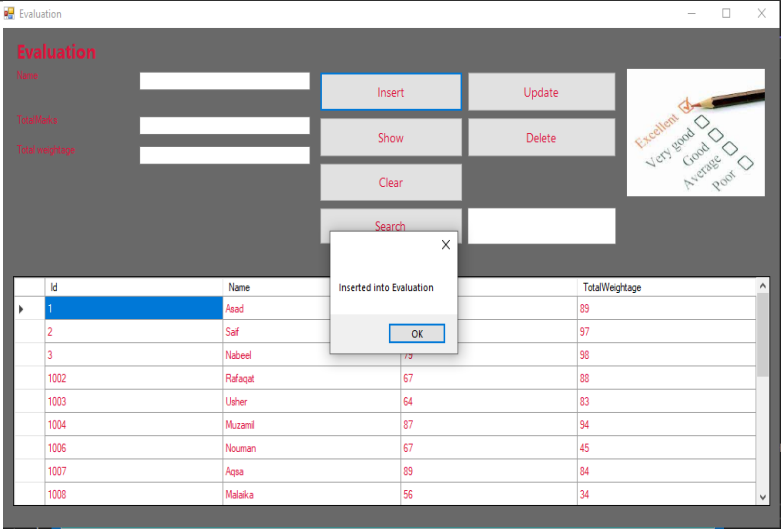
Use Case 9 (a)	INSERT EVALUATION
Algebraic Query Language	In Insertion or addition, we used query to stored the data.
GUI	

TABLE 1.40

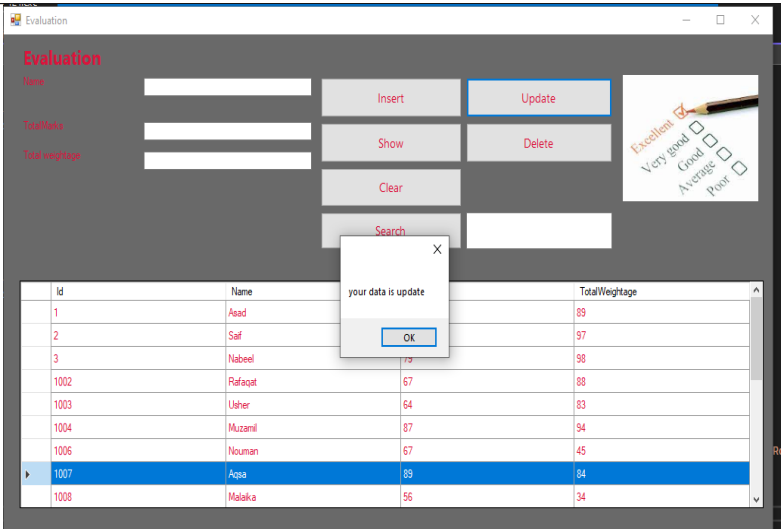
Use Case 9 (b)	UPDATE EVALUATION
Algebraic Query Language	In Updation, we used query to update the data.
GUI	

TABLE 1.41

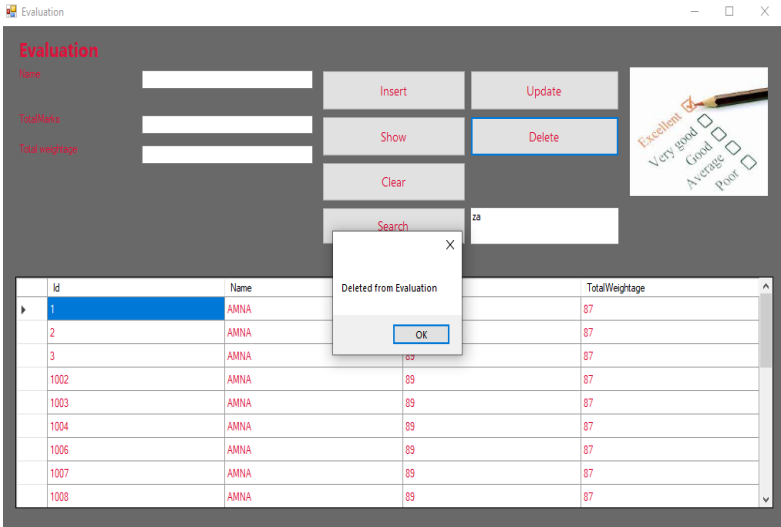
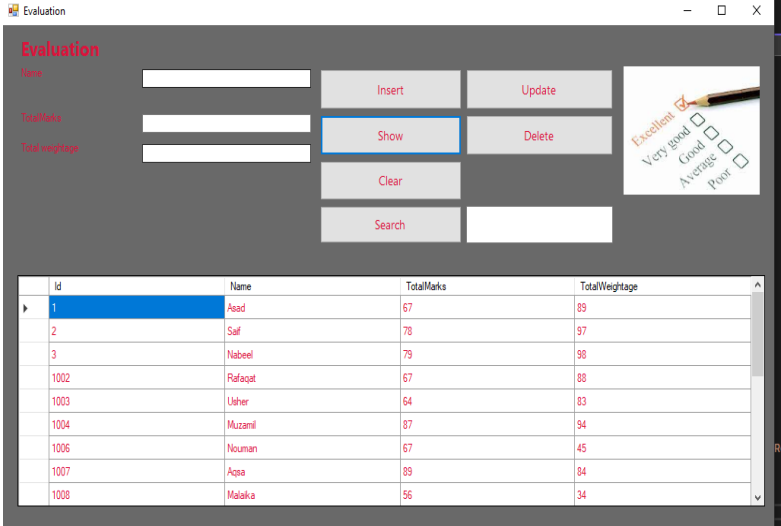
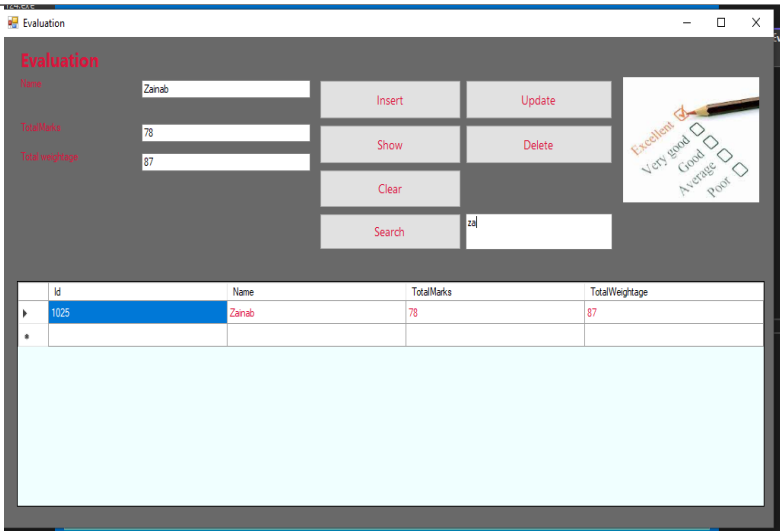
Use Case 9 (c)	DELETE EVALUATION
Algebraic Query Language	In Deletion, we used query to delete the data.
GUI	

TABLE 1.42

Use Case 9 (d)	SHOW EVALUATION
Algebraic Query Language	In show, we used query to show the data.
GUI	

[EVALUATION Search]

Use Case 9 (e)	SEARCH EVALUATION															
Algebraic Query Language	In SEARCH, we used query to search the data.															
GUI	 <p>The screenshot displays a web application titled "Evaluation". It features a form with three input fields: "Name" (containing "Zanab"), "TotalMarks" (containing "78"), and "TotalWeightage" (containing "87"). To the right of these fields are buttons for "Insert", "Update", "Show", "Delete", "Clear", and "Search". The "Search" button is highlighted. Below the form is a table with the following data:</p> <table><tr><th></th><th>Id</th><th>Name</th><th>TotalMarks</th><th>TotalWeightage</th></tr><tr><td>▶</td><td>1025</td><td>Zanab</td><td>78</td><td>87</td></tr><tr><td>•</td><td></td><td></td><td></td><td></td></tr></table> <p>Below the table is a large light blue rectangular area. To the right of the form is a sidebar with a checklist titled "Excellent" (checked) and "Very good", "Good", "Average", and "Poor" (unchecked).</p>		Id	Name	TotalMarks	TotalWeightage	▶	1025	Zanab	78	87	•				
	Id	Name	TotalMarks	TotalWeightage												
▶	1025	Zanab	78	87												
•																

1.5.20 Use Case 10:**1.5.20.1 GROUPEVALUATION**

TABLE 1.43

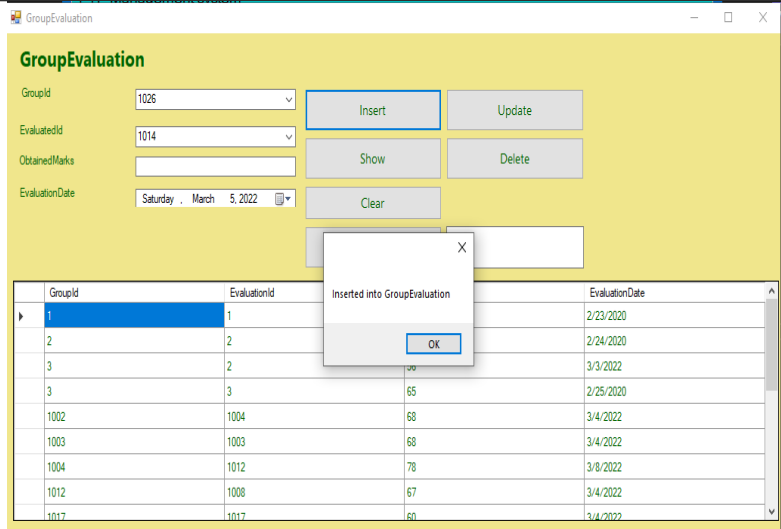
Use Case 10 (a)	INSERT GROUPEVALUATION
Algebraic Query Language	In Insertion or addition, we used query to stored the data.
GUI	 <p>The screenshot shows the 'GroupEvaluation' application window. It has a yellow header and a white body. On the left, there are four input fields: 'GroupId' (1026), 'EvaluationId' (1014), 'ObtainedMarks' (empty), and 'EvaluationDate' (Saturday, March 5, 2022). To the right of these fields are five buttons: 'Insert' (highlighted in blue), 'Update', 'Show', 'Delete', and 'Clear'. Below the input fields is a table with four columns: 'GroupId', 'EvaluationId', 'ObtainedMarks', and 'EvaluationDate'. The table contains 10 rows of data. A small dialog box with the title 'GroupEvaluation' and the message 'Inserted into GroupEvaluation' is open over the table, with an 'OK' button.</p>

TABLE 1.44

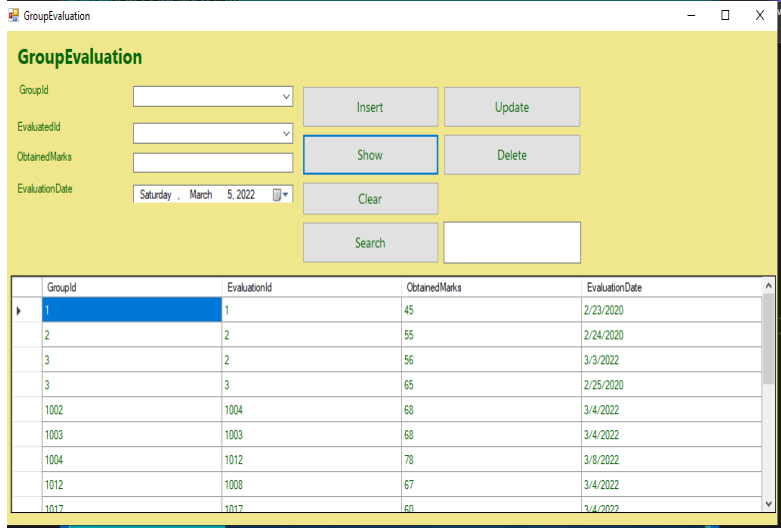
Use Case 10 (b)	UPDATE GROUPEVALUATION
Algebraic Query Language	In Updation, we used query to update the data.
GUI	 <p>The screenshot shows the 'GroupEvaluation' application window. It has a yellow header and a white body. On the left, there are four input fields: 'GroupId' (empty), 'EvaluationId' (empty), 'ObtainedMarks' (empty), and 'EvaluationDate' (Saturday, March 5, 2022). To the right of these fields are five buttons: 'Insert', 'Update', 'Show' (highlighted in blue), 'Delete', and 'Clear'. Below the input fields is a table with four columns: 'GroupId', 'EvaluationId', 'ObtainedMarks', and 'EvaluationDate'. The table contains 10 rows of data. A 'Search' button is located below the 'Clear' button.</p>

TABLE 1.45

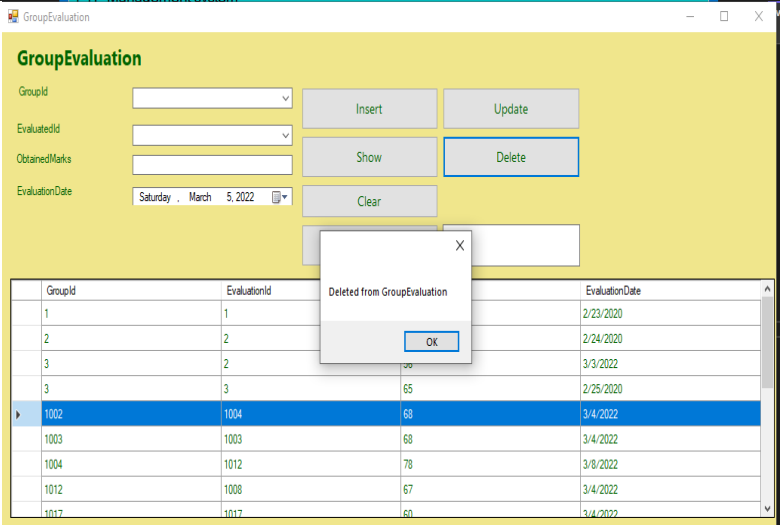
Use Case 10 (c)	DELETE GROUPEVALUATION																																								
Algebraic Query Language	In Deletion, we used query to delete the data.																																								
GUI	 <p>The screenshot shows the 'GroupEvaluation' application window. It has input fields for GroupId, EvaluationId, ObtainedMarks, and EvaluationDate, along with buttons for Insert, Update, Show, Delete, and Clear. A table below displays the data. A modal dialog box titled 'Deleted from GroupEvaluation' with an 'Ok' button is centered over the table. The table data is as follows:</p> <table><thead><tr><th>GroupId</th><th>EvaluationId</th><th>ObtainedMarks</th><th>EvaluationDate</th></tr></thead><tbody><tr><td>1</td><td>1</td><td></td><td>2/23/2020</td></tr><tr><td>2</td><td>2</td><td></td><td>2/24/2020</td></tr><tr><td>3</td><td>2</td><td></td><td>3/3/2022</td></tr><tr><td>3</td><td>3</td><td>65</td><td>2/25/2020</td></tr><tr><td>1002</td><td>1004</td><td>68</td><td>3/4/2022</td></tr><tr><td>1003</td><td>1003</td><td>68</td><td>3/4/2022</td></tr><tr><td>1004</td><td>1012</td><td>78</td><td>3/8/2022</td></tr><tr><td>1012</td><td>1008</td><td>67</td><td>3/4/2022</td></tr><tr><td>1017</td><td>1017</td><td>60</td><td>3/4/2022</td></tr></tbody></table>	GroupId	EvaluationId	ObtainedMarks	EvaluationDate	1	1		2/23/2020	2	2		2/24/2020	3	2		3/3/2022	3	3	65	2/25/2020	1002	1004	68	3/4/2022	1003	1003	68	3/4/2022	1004	1012	78	3/8/2022	1012	1008	67	3/4/2022	1017	1017	60	3/4/2022
GroupId	EvaluationId	ObtainedMarks	EvaluationDate																																						
1	1		2/23/2020																																						
2	2		2/24/2020																																						
3	2		3/3/2022																																						
3	3	65	2/25/2020																																						
1002	1004	68	3/4/2022																																						
1003	1003	68	3/4/2022																																						
1004	1012	78	3/8/2022																																						
1012	1008	67	3/4/2022																																						
1017	1017	60	3/4/2022																																						

TABLE 1.46

Use Case 10 (d)	SHOW GROUPEVALUATION																																																		
Algebraic Query Language	In show, we used query to show the data.																																																		
	<div><div><div>GroupEvaluation</div><div><div>GroupEvaluation</div><div><div><div>GroupId</div><div><input type="text"/></div></div><div><div>EvaluatedId</div><div><input type="text"/></div></div><div><div>ObtainedMarks</div><div><input type="text"/></div></div><div><div>EvaluationDate</div><div><input type="text" value="Saturday, March 5, 2022"/></div></div></div><div><div>Insert</div><div>Update</div><div>Show</div><div>Delete</div><div>Clear</div><div>Search</div><div><input type="text"/></div></div></div></div><table><thead><tr><th></th><th>GroupId</th><th>EvaluationId</th><th>ObtainedMarks</th><th>EvaluationDate</th></tr></thead><tbody><tr><td>▶</td><td>1</td><td>1</td><td>45</td><td>2/23/2020</td></tr><tr><td></td><td>2</td><td>2</td><td>55</td><td>2/24/2020</td></tr><tr><td></td><td>3</td><td>2</td><td>56</td><td>3/3/2022</td></tr><tr><td></td><td>3</td><td>3</td><td>65</td><td>2/25/2020</td></tr><tr><td></td><td>1002</td><td>1004</td><td>68</td><td>3/4/2022</td></tr><tr><td></td><td>1003</td><td>1003</td><td>68</td><td>3/4/2022</td></tr><tr><td></td><td>1004</td><td>1012</td><td>78</td><td>3/8/2022</td></tr><tr><td></td><td>1012</td><td>1008</td><td>67</td><td>3/4/2022</td></tr><tr><td></td><td>1017</td><td>1017</td><td>60</td><td>3/4/2022</td></tr></tbody></table></div>		GroupId	EvaluationId	ObtainedMarks	EvaluationDate	▶	1	1	45	2/23/2020		2	2	55	2/24/2020		3	2	56	3/3/2022		3	3	65	2/25/2020		1002	1004	68	3/4/2022		1003	1003	68	3/4/2022		1004	1012	78	3/8/2022		1012	1008	67	3/4/2022		1017	1017	60	3/4/2022
	GroupId	EvaluationId	ObtainedMarks	EvaluationDate																																															
▶	1	1	45	2/23/2020																																															
	2	2	55	2/24/2020																																															
	3	2	56	3/3/2022																																															
	3	3	65	2/25/2020																																															
	1002	1004	68	3/4/2022																																															
	1003	1003	68	3/4/2022																																															
	1004	1012	78	3/8/2022																																															
	1012	1008	67	3/4/2022																																															
	1017	1017	60	3/4/2022																																															

GUI

[GROUPEVALUATION Search]

Use Case 10 (e)	SEARCH GROUPEVALUATION												
Algebraic Query Language	In SEARCH, we used query to search the data.												
GUI	<div><div><div><div><div>GroupEvaluation</div><div><div>Groupid</div><div>1004</div></div><div><div>EvaluatedId</div><div>1012</div></div><div><div>ObtainedMarks</div><div>78</div></div><div><div>EvaluationDate</div><div>Tuesday , March 8, 2022</div></div><div><div>Insert</div><div>Update</div><div>Show</div><div>Delete</div><div>Clear</div><div><div>Search</div><div>1004</div></div></div></div></div><div><table><tr><th>Groupid</th><th>EvaluationId</th><th>ObtainedMarks</th><th>EvaluationDate</th></tr><tr><td>▶ 1004</td><td>1012</td><td>78</td><td>3/8/2022</td></tr><tr><td>*</td><td></td><td></td><td></td></tr></table></div></div></div>	Groupid	EvaluationId	ObtainedMarks	EvaluationDate	▶ 1004	1012	78	3/8/2022	*			
Groupid	EvaluationId	ObtainedMarks	EvaluationDate										
▶ 1004	1012	78	3/8/2022										
*													

1.6 Future Work

”This project will try to create an online website which make possible the final year projects (FYP) for person. The FYP is a year-long process involving groups of students and their advisors to accomplish project. It is very necessary to allow different parties to communicate more efficiently.

Therefore, i will design and create a desktop application to better support by three users; FYP Committee Organization, project advisors and the project group members. The system is therefore helpful for CO to arrange project selection as well as helping the students to submit their group members information. During the year, the system would provide different purpose for the CO to collect student’s assignments and marks via the submission. Project advisors will also be able check the progress of the projects.

Both the students and advisors will be rewarded from these reasons, Project group members are providing communication tools to allow for discussion on project issues among group members. Moreover, they can exchange about the project including code and files using our online repository.”

1.7 Final Words

This project seems an experience in which I learnt a lot. Yes, I was put a lot of effort in it. I was manage every milestone according to supervisor’s expectations sincerely. I was explore much and think more! And I believe that fruits of human labor do come. INSHAALLAH.