

HO CHI MINH UNIVERSITY OF TECHNOLOGY AND EDUCATION



FINAL PROJECT

SUBJECT: WINDOW PROGRAMMING

***TOPIC: STUDENT'S PROJECT
MANAGEMENT***

Lecturer: Huynh Xuan Phung

Members: Phan Vinh Loc 17110049

Nguyen Tan Loc 17110048

Truong Viet Hoang 17110033

Ho Chi Minh, 01/7/2020

Score

Criteria	Content	Presentation	Overall
Score			

Observations of Instructor

.....

.....

.....

.....

Evaluation:

Nguyen Tan Loc:

Truong Viet Hoang:.....

Phan Vinh Loc:.....

Teacher Guide

Phung

Huynh Xuan Phung

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Chapter 1: Program Overview

1.1 About the Project

- *Design and build object-oriented software to create t software which can manage the student's project*

1.1.1 Purpose

- *Help instructor can manage the student's project*
- *We can know the owner of the project*
- *We can know the instructor of the project*
- *We can know the detail of the project*

1.1.2 Requirements

- *Manage student's information*
- *Instructors (Lecture)*
- *Project's information and report*

1.1.3 Project Analysis

- Building object – oriented software
- The output of data is the application

1.1.4 Expected Interface

This project includes the following forms:

- Student
- Lecture
- Project

1.1.5 Technical Requirements

- Fulfilling the requirements set out by the project
- Application of object-oriented programming
- Software capacity is light, stable running

1.1.6 Technology and Tool

- Design Graphical User Interface (GUI) by Visual Studio 2019 (Tool)
- Design View Model and Data Model by Visual Studio 2019 (Code C#)
- Building software on EntityFramework.6.2.0
- SQL Server

Chapter 2: Work Assignment

2.1. Work Plan

<i>Week</i>	<i>Date</i>	<i>Work</i>
Week 10	02/06	Design Data Base But Wrong
Week 11	09/06	Design Data Base
Week 12	16/06	Design Class + GUI
Week 13	23/06	Design View Model and Data Model
Week 14	30/06	Finish

2.2 Work Assignment

<i>Number Order</i>	<i>Name of student</i>	<i>Description</i>	<i>Contribute (%)</i>
1	Nguyen Tan Loc	Design Class	40%
2	Truong Viet Hoang	Design GUI, Function Login	30%
3	Phan Vinh Loc	Design Data Base Install and Test Write Report	30%

Chapter 3: Design Software

3.1 Design Interface

3.1.1 Program Interface

Student name: Truong Viet Hoang

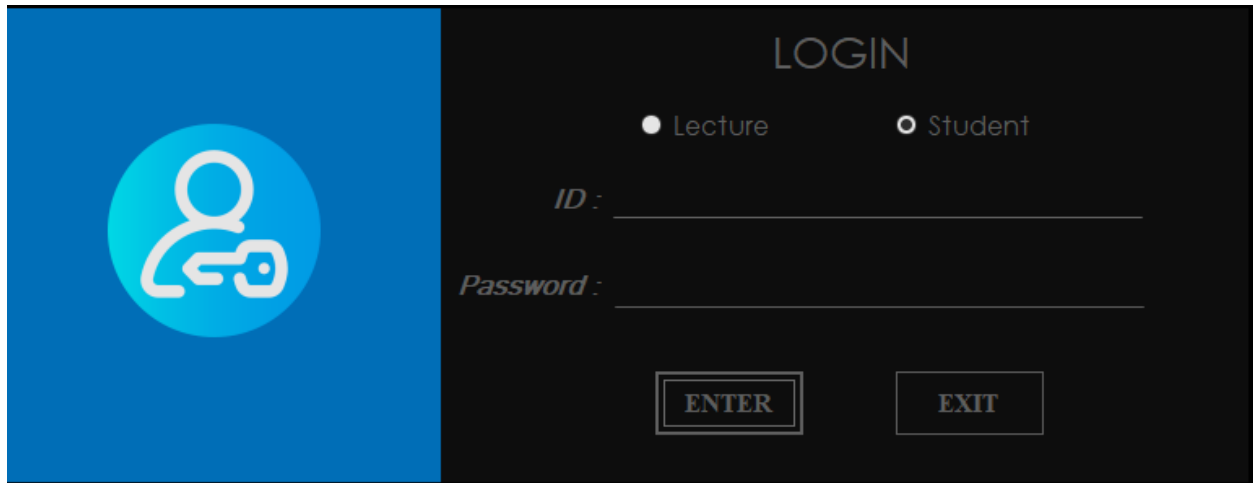


Figure 1: Login Interface

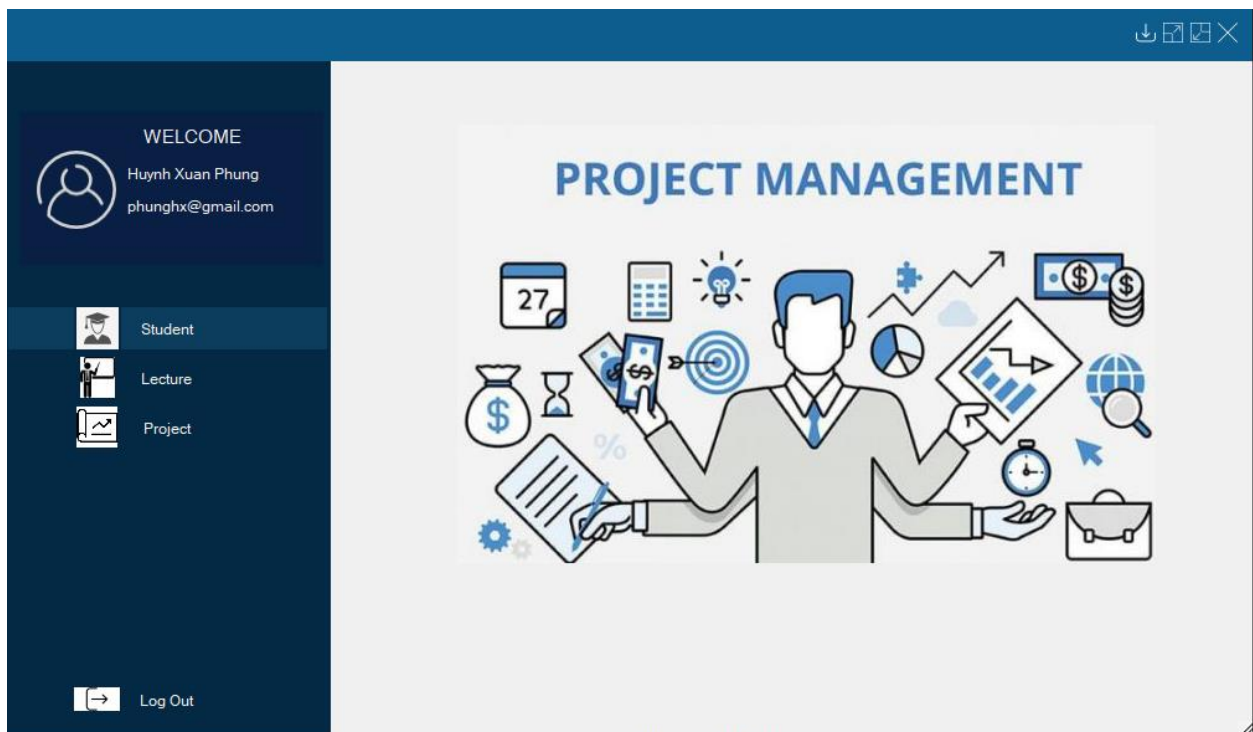


Figure 2: Interface of user when log in successful (Home Page)

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

Student's Information

Students ID:
Majors:

Students Name:
Gender:

Full Name:
Birthday:

Phone:
Email:

Add Student
Update Student
Delete Student

ID	Students Name	Full Name	Majors	Gender	Birthday	Phone	Email
17110010	Dan	Nguyen Van D...	Electronics	Female	6/23/2020	05561611152	@gmail.com
17110030	Hieu	Nguyen Truon...	IT	Male	6/27/2020	0258525852	@gmail.com
17110033	Hoang	Truong Viet H...	IT	Male	6/27/2020	0658523693	@gmail.com
17110048	Loc	Nguyen Tan Loc	IT	Male	6/17/2020	0985236985	@gmail.com
17110049	Loc	Phan Vinh Loc	Mechanical In...	Female	6/27/2020	0985223652	@gmail.com
17110059	Phat	Nguyen Tan P...	IT	Male	6/23/2020	0785236985	@gmail.com
17110080	Thuan	Doan Viet Thu...	Electronics	Female	6/25/2020	0852214785	@gmail.com
*							

Figure 3: Form Student's Information

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

Lecture's Information

Lectures ID:
Department:

Lectures Name:
Gender:

Full Name:
Birthday:

Phone:
Email:

Add Lecture
Update Lecture
Delete Lecture

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV001	Chinh	Huynh Van Chi...	Information Te...	Male	6/23/2020	09852254125	@gmail.com
GV002	Van	Nguyen Tran ...	Information Te...	Male	6/23/2020	0532587412	@gmail.com
GV003	Phung	Huynh Xuan P...	Information Te...	Male	6/23/2020	02547852693	phunghx@gm...
GV004	Chau	Nguyen Le Mi...	Information Te...	Female	6/23/2020	0985475826	@gmail.com
GV005	Long	Hoang Long	Information Te...	Male	6/27/2020	0974523685	@gmail.com
*							

Figure 4: Form Lecture's Information

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

Project's Title

Project's Description

From Time

30/06/20 13:27:19

To Time

30/06/20 13:27:19

Point

Search ID Lecture

GV001

Save Project

Update Project

Delete Project

ID	Title	Description	From Time	To Time	Point	Lecture ID
1	Do An 1	Mo Ta 1	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV003
2	Do An 2	Mo Ta 2	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV004
3	Do An 3	Mo Ta 3	6/23/2020 3:50 PM	6/23/2020 3:50 PM	6	GV005
4	Do An 4	Mo Ta 4	6/23/2020 3:57 PM	6/23/2020 3:57 PM	4	GV002
5	Do An 5	Mo Ta 5	6/23/2020 3:57 PM	6/23/2020 3:57 PM	5	GV001

Figure 5: Form Project

Student Name

Nguyen Van Dan

Add Student

Delete Student

Group Student

Project ID

1

Project Title

Do An 1

Project Description

Mo Ta 1

Lecture ID

GV003

MSSV	Name	Full Name	Major	Gender	Birthday	Phone	Email
17110048	Loc	Nguyen Tan...	IT	Male	6/17/2020	0985236985	@gmail.com

Figure 6: Form Project Detail

Progress of Student

StudentID

ProjectID

Student Name

Progress Content

Note

Link Source

Add Progress

Update

Delete Progress

	STT	Project ID	Student ID	ProgressName	Note	LinkSource
▶	1	1	17110048	Content 1	complete db	...
	2	1	17110048	Content 2	complete form	...

Figure 7: Form Progress of Student

About Interface of Student such as Lecture but can't Add, Update And Delete, etc. The student just can view

3.1.2 Interface Specification

Table 1: Interface Specification

Form	Type of button	Purpose
Login Form	Radio Button (Select Role)	Allow you select type of user to login
	Button (Login)	Check your ID and password after that let you log in
	Button (Exit)	You can exit the program when you don't use
Home page Form	Button (Student)	Let you enter in student form and edit on it
	Button (Lecture)	Let you enter in lecture form and edit on it

	<i>Button (Project)</i>	<i>Let you enter in project form and edit on it</i>
	<i>Button (Log out)</i>	<i>Allow log your account out and you can log in with another account</i>
<i>Student's Information Form</i>	<i>Button (Add Student)</i>	<i>Allow you add information of new student</i>
	<i>Button (Update Student)</i>	<i>Allow you edit information of the student who is added</i>
	<i>Button (Delete Student)</i>	<i>Allow you delete information of the student</i>
<i>Lecture's Information Form</i>	<i>Button (Add lecture)</i>	<i>Allow you add information of new lecture</i>
	<i>Button (Update lecture)</i>	<i>Allow you edit information of the lecture who is added</i>
	<i>Button (Delete lecture)</i>	<i>Allow you delete information of the lecture</i>
<i>Project Form</i>	<i>Button (Add project)</i>	<i>Allow you add information of new project</i>
	<i>Button (Update project)</i>	<i>Allow you edit information of the project which is added</i>
	<i>Button (Delete project)</i>	<i>Allow you delete information of the project</i>
<i>Project Detail Form</i>	<i>Combo box (List of students who are had information in Student Form)</i>	<i>Allow you select the name of student</i>
	<i>Button (Add Student)</i>	<i>Add the student you choose in the combo box into the project which you chosen before</i>
	<i>Button (Delete Student)</i>	<i>Delete the student you choose in the data grid view of the project which you chosen before</i>

<i>Progress of Student Form</i>	<i>Button (Add progress)</i>	<i>Allow you access into the project's progress and add progress for student</i>
	<i>Button (Update progress)</i>	<i>Allow you access into the project's progress and update progress for student</i>
	<i>Button (Delete progress)</i>	<i>Allow you access into the project's progress and delete progress for student</i>

3.2 Design Class

3.2.1 Sample list of classes used in the program

Student name: Nguyen Tan Loc

Table 2: Design Class

<i>TT</i>	<i>Class name</i> <i>Inheritance or lead</i> <i>export from (specify name</i> <i>base class) – if have</i>	<i>Purpose</i>
<i>1</i>	- <i>Class UserLogin</i>	<i>Before using the program, the user must create a login account</i>
<i>2</i>	- <i>Class Lecture</i> - <i>Foreign Key IDLoginL references UserLogin(ID)</i>	<i>Store information of lecturer and decentralization for teachers when creating accounts (Lecturers have the right to use the add, edit, delete functions)</i>
<i>3</i>	- <i>Class Student</i> - <i>Foreign Key IDLogin references UserLogin(ID)</i>	<i>Store information of students and decentralization for students when creating accounts (Students only have permission to view)</i>

4	<ul style="list-style-type: none"> - Class Project - Foreign Key L_ID references Lecture(L_ID) 	Store information of project and save the name of that project lecturer
5	<ul style="list-style-type: none"> - Class ProjectManagement - Foreign Key P_ID references Project(P_ID) - Foreign Key S_ID references Student(S_ID) - Set P_ID and S_ID is primary key that get all the information of Project and Student 	From this table we can save the project information, know the name of the lecturer and the teacher can create groups for students.
6	<ul style="list-style-type: none"> - Class Progress - Foreign Key P_ID references ProjectManagement (P_ID) - Foreign Key S_ID references ProjectManagement (S_ID) - Set P_ID and S_ID is primary key that get the ID of Project and Student 	Every student needs to record the process of completing the project. Get the ID of Project and Student to know what projects students do, lecturer, and what each student can do

3.2.2 The sample table describes the methods in a class

Student name: Nguyen Tan Loc

Table 3: The sample table describes the method in a class

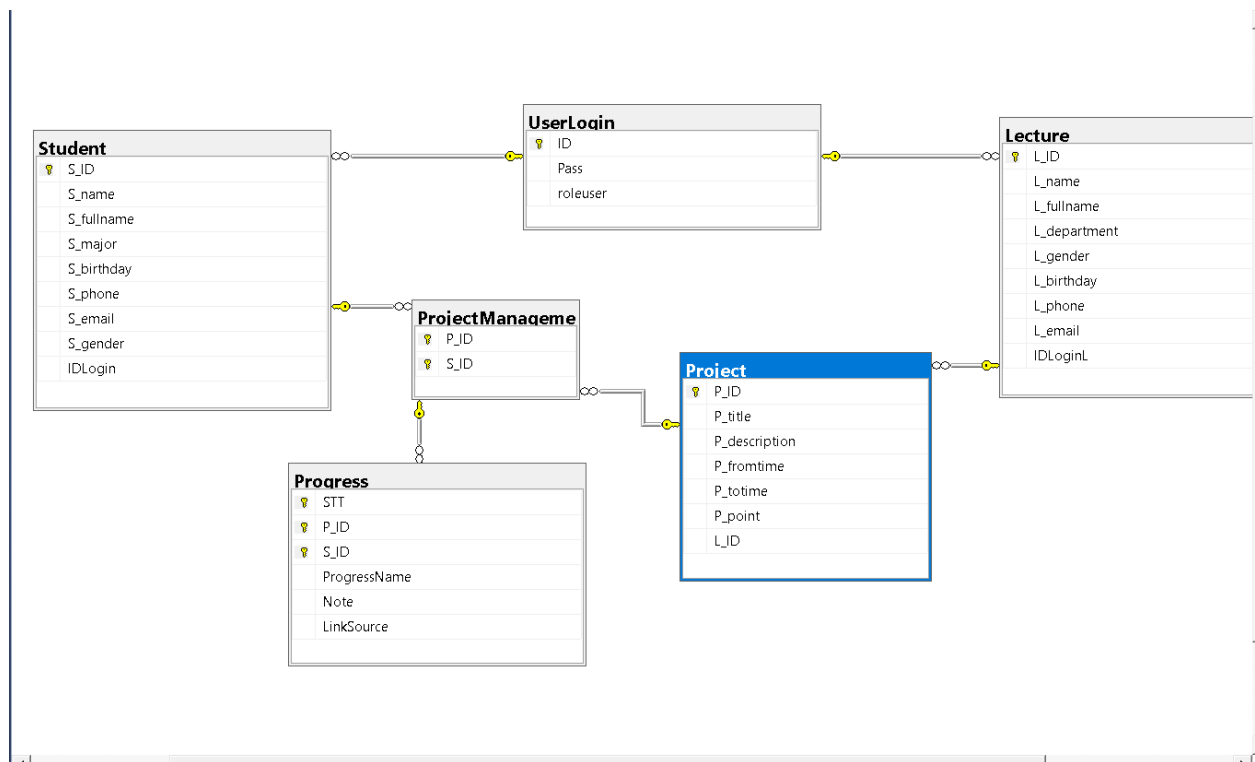
TT	Method	Purpose	File name, line number containing the declaration
1	<pre>public static Student getStudentInfomationAfterLogi n(string idLogin) Input: idLogin Output: If class Students have IDLogin == idLogin => return Student</pre>	<p>Check if the student class has an account that matches the ID of the UserLogin class.</p> <p>If identical then return student</p> <p>Else error note</p>	DBProjectStudent/Controller/StudentController.cs (159)
2	<pre>public static List<Progress> ListProgressOfStudent(int P_ID, string S_ID) Input: P_ID, S_ID Output: List Progress of Student</pre>	Find the ID student done ID project is to record the project completion process	DBProjectStudent/Controller/StudentController.cs (150)

3	<pre>public static List<Student> getStudentDetail() Input: nothing Output: List Student</pre>	Get all full name student that lecturer create group	DBProjectStudent/Controller/StudentController.cs (134)
4	<pre>public static List<Student> getAllStudentbyIDproject(int idproject) Input: idproject Output: List student</pre>	Show the group student working on that project	DBProjectStudent/Controller/ProjectManagementController.cs (42)
5	<pre>public static Lecture getLectureInformationAfterLogin(string idLogin) Input: idLogin Output: If class Lecturer have IDLogin == idLogin => return Lecturer</pre>	<p>Check if the lecturer class has an account that matches the ID of the UserLogin class.</p> <p>If identical then return lecturer</p> <p>Else error note</p>	DBProjectStudent/Controller/LectureController.cs (128)

3.2 Design Database

Student Name: Phan Vinh Loc

3.3.1 Database Diagram



3.3.2 Database Specification and Field Decsription

Table 4: UserLogin

Column name	Data Type	Note
ID	Varchar(20)	
Pass	Varchar(20)	
Roleuser	Varchar(10)	

Table 5: Student

Column name	Data Type	Note
S_ID	Varchar(20)	Student ID
S_Name	Nvarchar(100)	Student Name
S_Fullname	Varchar(50)	Student Fullname
S_Major	Varchar(50)	Student Major
S_Birthday	Varchar(50)	Student Birthday
S_Phone	Varchar(50)	Student Phone
S_Email	Varchar(50)	Student Email
S_Gender	Varchar(50)	Student Gender
ID	int	ID Login

Table 6: Lecture

<i>Column name</i>	<i>Data Type</i>	<i>Note</i>
<i>L_ID</i>	<i>Varchar(20)</i>	<i>Lecture ID</i>
<i>L_Name</i>	<i>Nvarchar(100)</i>	<i>Lecture Name</i>
<i>L_Fullname</i>	<i>Varchar(50)</i>	<i>Lecture Fullname</i>
<i>L_Department</i>	<i>Varchar(50)</i>	<i>Lecture Department</i>
<i>L_Birthday</i>	<i>Datetime</i>	<i>Lecture Birthday</i>
<i>L_Phone</i>	<i>Varchar(50)</i>	<i>Lecture Phone</i>
<i>L_Email</i>	<i>Varchar(50)</i>	<i>Lecture Email</i>
<i>L_Gender</i>	<i>Varchar(50)</i>	<i>Lecture Gender</i>
<i>ID</i>	<i>int</i>	<i>ID Login</i>

Table 7: Project

Column name	Data Type	Note
P_ID	int	Project ID
P_Title	Nvarchar(100)	Project Tile
P_Description	Nvarchar(200)	Project Description
P_Fromtime	datetime	Project Fromtime
P_Totime	datetime	Project Totime
P_Point	Varchar(10)	Project Point
L_ID	Varchar(20)	Lecture ID

Table 8: Progress

Column name	Data Type	Note
STT	Nvarchar(50)	Number order
P_ID	int	
Progress Name	Nvarchar(100)	
Note	Nvarchar(100)	
Link Source	Nvarchar(100)	

Table 9: ProjectManagemnet

Column name	Data Type	Note
P_ID	int	
S_ID	Varchar(20)	

Chapter 4: Install and Test

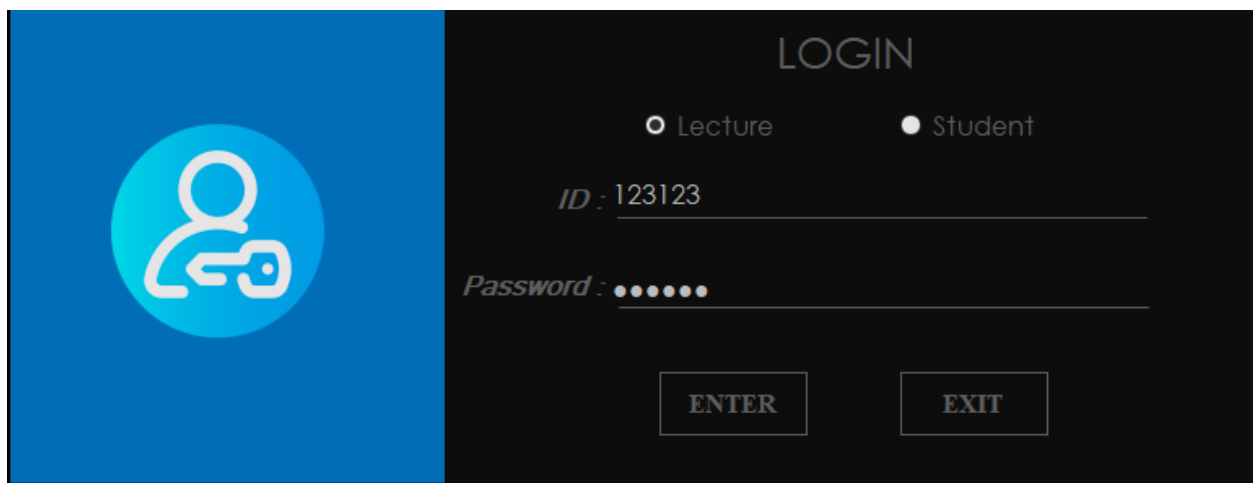


Figure 8: Test 1

Test form Student's Information

Add 1 Student

Before Add

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Student's Information

Students ID: Majors:

Students Name: Gender:

Full Name: Birthday:

Phone: Email:

ID	Students Name	Full Name	Majors	Gender	Birthday	Phone	Email
17110010	Dan	Nguyen Van Dan	Electronics	Female	6/23/2020	05561611152	@gmail.com
17110030	Hieu	Nguyen Truong Hoang ...	IT	Male	6/27/2020	0258525852	@gmail.com
17110033	Hoang	Truong Viet Hoang	IT	Male	6/27/2020	0658523693	@gmail.com
17110048	Loc	Nguyen Tan Loc	IT	Male	6/17/2020	0985236985	@gmail.com
17110049	Loc	Phan Vinh Loc	Mechanical Industry	Female	6/27/2020	0985223652	@gmail.com
17110059	Phat	Nguyen Tan Phat	IT	Male	6/23/2020	0785236985	@gmail.com
17110080	Thuan	Doan Viet Thuan	Electronics	Female	6/25/2020	0852214785	@gmail.com

Figure 9: Test 2

After Add

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

Student's Information

Students ID: 17110000
Majors: IT
Add Student

Students Name: ABC
Gender: Male
Update Student

Full Name: ABCXYZ
Birthday: 1/ 2/1999
Delete Student

Phone: 0102030405
Email: abcxyz@gmail.com

ID	Students Name	Full Name	Majors	Gender	Birthday	Phone	Email
17110000	ABC	ABCXYZ	IT	Male	1/2/1999	0102030405	abcxyz@gmail.com
17110010	Dan	Nguyen Van Dan	Electronics	Female	6/23/2020	05561611152	@gmail.com
17110030	Hieu	Nguyen Truong Hoang ...	IT	Male	6/27/2020	0258525852	@gmail.com
17110033	Hoang	Truong Viet Hoang	IT	Male	6/27/2020	0658523693	@gmail.com
17110048	Loc	Nguyen Tan Loc	IT	Male	6/17/2020	0985236985	@gmail.com
17110049	Loc	Phan Vinh Loc	Mechanical Industry	Female	6/27/2020	0985223652	@gmail.com
17110059	Phat	Nguyen Tan Phat	IT	Male	6/23/2020	0785236985	@gmail.com
17110080	Thuan	Doan Viet Thuan	Electronics	Female	6/25/2020	0852214785	@gmail.com

Figure 10: Test 3

Update 1 Student

Student's Information

Students ID: 17110000
Majors: IT
Add Student

Students Name: ABC
Gender: Female
Update Student

Full Name: ABCGGG
Birthday: 1/ 2/1999
Delete Student

Phone: 0607080900
Email: abcggg@gmail.com

ID	Students Name	Full Name	Majors	Gender	Birthday	Phone	Email
17110000	ABC	ABCGGG	IT	Female	1/2/1999 1:49 PM	0607080900	abcggg@gmail.com
17110010	Dan	Nguyen Van Dan	Electronics	Female	6/23/2020	05561611152	@gmail.com
17110030	Hieu	Nguyen Truong Hoang ...	IT	Male	6/27/2020	0258525852	@gmail.com
17110033	Hoang	Truong Viet Hoang	IT	Male	6/27/2020	0658523693	@gmail.com
17110048	Loc	Nguyen Tan Loc	IT	Male	6/17/2020	0985236985	@gmail.com
17110049	Loc	Phan Vinh Loc	Mechanical Industry	Female	6/27/2020	0985223652	@gmail.com
17110059	Phat	Nguyen Tan Phat	IT	Male	6/23/2020	0785236985	@gmail.com
17110080	Thuan	Doan Viet Thuan	Electronics	Female	6/25/2020	0852214785	@gmail.com

Figure 11: Test 4

Delete 1 Student Before Delete

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

Student's Information

Students ID: 17110000
Majors: IT
Add Student

Students Name: ABC
Gender: Female
Update Student

Full Name: ABCGGG
Birthday: 1/ 2/1999
Delete Student

Phone: 0607080900
Email: abcggg@gmail.com

ID	Students Name	Full Name	Majors	Gender	Birthday	Phone	Email
17110000	ABC	ABCGGG	IT	Female	1/2/1999 1:49 PM	0607080900	abcggg@gmail.com
17110010	Dan	Nguyen Van Dan	Electronics	Female	6/23/2020	05561611152	@gmail.com
17110030	Hieu	Nguyen Truong Hoang ...	IT	Male	6/27/2020	0258525852	@gmail.com
17110033	Hoang	Truong Viet Hoang	IT	Male	6/27/2020	0658523693	@gmail.com
17110048	Loc	Nguyen Tan Loc	IT	Male	6/17/2020	0985236985	@gmail.com
17110049	Loc	Phan Vinh Loc	Mechanical Industry	Female	6/27/2020	0985223652	@gmail.com
17110059	Phat	Nguyen Tan Phat	IT	Male	6/23/2020	0785236985	@gmail.com
17110080	Thuan	Doan Viet Thuan	Electronics	Female	6/25/2020	0852214785	@gmail.com

Figure 12: Test 5

After Delete

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

Student's Information

Students ID: 17110000
Majors: IT
Add Student

Students Name: ABC
Gender: Female
Update Student

Full Name: ABCGGG
Birthday: 1/ 2/1999
Delete Student

Phone: 0607080900
Email: abcggg@gmail.com

ID	Students Name	Full Name	Majors	Gender	Birthday	Phone	Email
17110010	Dan	Nguyen Van Dan	Electronics	Female	6/23/2020	05561611152	@gmail.com
17110030	Hieu	Nguyen Truong Hoang ...	IT	Male	6/27/2020	0258525852	@gmail.com
17110033	Hoang	Truong Viet Hoang	IT	Male	6/27/2020	0658523693	@gmail.com
17110048	Loc	Nguyen Tan Loc	IT	Male	6/17/2020	0985236985	@gmail.com
17110049	Loc	Phan Vinh Loc	Mechanical Industry	Female	6/27/2020	0985223652	@gmail.com
17110059	Phat	Nguyen Tan Phat	IT	Male	6/23/2020	0785236985	@gmail.com
17110080	Thuan	Doan Viet Thuan	Electronics	Female	6/25/2020	0852214785	@gmail.com

Figure 13: Test 6

Test form Lecture's Information

Add 1 Lecture

Before Add

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Lecture's Information

Lectures ID:

Lectures Name:

Full Name:

Phone:

Department:

Gender:

Birthday:

Email:

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV001	Chinh	Huynh Van Chinh	Information Technology	Male	6/23/2020	09852254125	@gmail.com
GV002	Van	Nguyen Tran Thi Van	Information Technology	Male	6/23/2020	0532587412	@gmail.com
GV003	Phung	Huynh Xuan Phung	Information Technology	Male	6/23/2020	02547852693	phunghx@gmail.com
GV004	Chau	Nguyen Le Minh Chau	Information Technology	Female	6/23/2020	0985475826	@gmail.com
GV005	Long	Hoang Long	Information Technology	Male	6/27/2020	0974523685	@gmail.com

Figure 14: Test 7

After Add

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Lecture's Information

Lectures ID:

Lectures Name:

Full Name:

Phone:

Department:

Gender:

Birthday:

Email:

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV000	Quang	Nguyen Dang Quang	Computer Engineer	Male	6/30/2020	0700010203	quangdn@gmail.com
GV001	Chinh	Huynh Van Chinh	Information Technology	Male	6/23/2020	09852254125	@gmail.com
GV002	Van	Nguyen Tran Thi Van	Information Technology	Male	6/23/2020	0532587412	@gmail.com
GV003	Phung	Huynh Xuan Phung	Information Technology	Male	6/23/2020	02547852693	phunghx@gmail.com
GV004	Chau	Nguyen Le Minh Chau	Information Technology	Female	6/23/2020	0985475826	@gmail.com
GV005	Long	Hoang Long	Information Technology	Male	6/27/2020	0974523685	@gmail.com

Figure 15: Test 8

Update 1 Lecture

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student

Lecture

Project

Log Out

Lecture's Information

Lectures IDGV000

DepartmentData Science

Add Lecture

Lectures NameQuang

GenderMale

Update Lecture

Full NameNguyen Dang Quang

Birthday6/30/2020

Delete Lecture

Phone0700010203

Emailquangdn@gmail.com

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV000	Quang	Nguyen Dang Quang	Data Science	Male	6/30/2020	0700010203	quangdn@gmail.com
GV001	Chinh	Huynh Van Chinh	Information Technology	Male	6/23/2020	09852254125	@gmail.com
GV002	Van	Nguyen Tran Thi Van	Information Technology	Male	6/23/2020	0532587412	@gmail.com
GV003	Phung	Huynh Xuan Phung	Information Technology	Male	6/23/2020	02547852693	phunghx@gmail.com
GV004	Chau	Nguyen Le Minh Chau	Information Technology	Female	6/23/2020	0985475826	@gmail.com
GV005	Long	Hoang Long	Information Technology	Male	6/27/2020	0974523685	@gmail.com

Figure 16: Test 9

Delete 1 Lecture Before Delete

WELCOME
Huynh Van Chinh
@gmail.com

Student

Lecture

Project

Log Out

Lecture's Information

Lectures IDGV000

DepartmentData Science

Add Lecture

Lectures NameQuang

GenderMale

Update Lecture

Full NameNguyen Dang Quang

Birthday6/30/2020

Delete Lecture

Phone0700010203

Emailquangdn@gmail.com

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV000	Quang	Nguyen Dang Quang	Data Science	Male	6/30/2020	0700010203	quangdn@gmail.com
GV001	Chinh	Huynh Van Chinh	Information Technology	Male	6/23/2020	09852254125	@gmail.com
GV002	Van	Nguyen Tran Thi Van	Information Technology	Male	6/23/2020	0532587412	@gmail.com
GV003	Phung	Huynh Xuan Phung	Information Technology	Male	6/23/2020	02547852693	phunghx@gmail.com
GV004	Chau	Nguyen Le Minh Chau	Information Technology	Female	6/23/2020	0985475826	@gmail.com
GV005	Long	Hoang Long	Information Technology	Male	6/27/2020	0974523685	@gmail.com

Figure 17: Test 10

After Delete

WELCOME
Huynh Van Chinh
@gmail.com

Student
Lecture
Project

Lecture's Information

Lectures ID: Department:

Lectures Name: Gender:

Full Name: Birthday:

Phone: Email:

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV001	Chinh	Huynh Van Chinh	Information Technology	Male	6/23/2020	09852254125	@gmail.com
GV002	Van	Nguyen Tran Thi Van	Information Technology	Male	6/23/2020	0532587412	@gmail.com
GV003	Phung	Huynh Xuan Phung	Information Technology	Male	6/23/2020	02547852693	phunghx@gmail.com
GV004	Chau	Nguyen Le Minh Chau	Information Technology	Female	6/23/2020	0985475826	@gmail.com
GV005	Long	Hoang Long	Information Technology	Male	6/27/2020	0974523685	@gmail.com

Figure 18: Test 11

Test form Project Add 1 project Before Add

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Project's Information

Project's Title: From Time:

Project's Description: To Time:

Point: Search ID Lecture:

ID	Title	Description	From Time	To Time	Point	Lecture ID
1	Do An 1	Mo Ta 1	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV003
2	Do An 2	Mo Ta 2	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV004
3	Do An 3	Mo Ta 3	6/23/2020 3:50 PM	6/23/2020 3:50 PM	6	GV005
4	Do An 4	Mo Ta 4	6/23/2020 3:57 PM	6/23/2020 3:57 PM	4	GV002
5	Do An 5	Mo Ta 5	6/23/2020 3:57 PM	6/23/2020 3:57 PM	5	GV001

Figure 19: Test 12

After Add

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Project's Title: Do An 6

Project's Description: Mo Ta 6

From Time: 30/06/20 14:06:36

To Time: 30/07/20 14:06:36

Point:

Search ID Lecture: GV000

Save Project Update Project Delete Project

ID	Title	Description	From Time	To Time	Point	Lecture ID
1	Do An 1	Mo Ta 1	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV003
2	Do An 2	Mo Ta 2	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV004
3	Do An 3	Mo Ta 3	6/23/2020 3:50 PM	6/23/2020 3:50 PM	6	GV005
4	Do An 4	Mo Ta 4	6/23/2020 3:57 PM	6/23/2020 3:57 PM	4	GV002
5	Do An 5	Mo Ta 5	6/23/2020 3:57 PM	6/23/2020 3:57 PM	5	GV001
7	Do An 6	Mo Ta 6	6/30/2020 2:06 PM	7/30/2020 2:06 PM		GV000

Figure 20: Test 13

Update 1 Project

WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Project's Title: Do An 6

Project's Description: Update Mo ta 6, Change To Time 30/08/20

From Time: 30/06/20 14:06:36

To Time: 30/08/20 14:06:36

Point:

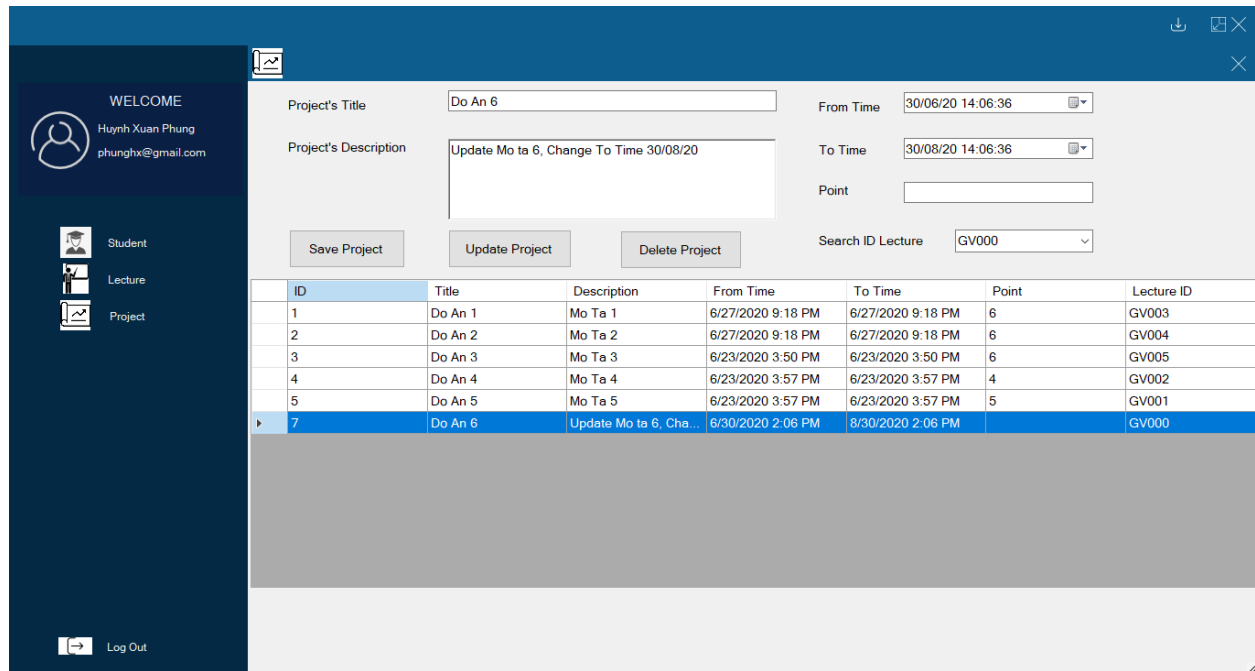
Search ID Lecture: GV000

Save Project Update Project Delete Project

ID	Title	Description	From Time	To Time	Point	Lecture ID
1	Do An 1	Mo Ta 1	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV003
2	Do An 2	Mo Ta 2	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV004
3	Do An 3	Mo Ta 3	6/23/2020 3:50 PM	6/23/2020 3:50 PM	6	GV005
4	Do An 4	Mo Ta 4	6/23/2020 3:57 PM	6/23/2020 3:57 PM	4	GV002
5	Do An 5	Mo Ta 5	6/23/2020 3:57 PM	6/23/2020 3:57 PM	5	GV001
7	Do An 6	Update Mo ta 6, Cha...	6/30/2020 2:06 PM	8/30/2020 2:06 PM		GV000

Figure 21: Test 14

Delete 1 Project Before Delete



WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Project's Title: Do An 6

Project's Description: Update Mo ta 6, Change To Time 30/08/20

From Time: 30/06/20 14:06:36

To Time: 30/08/20 14:06:36

Point:

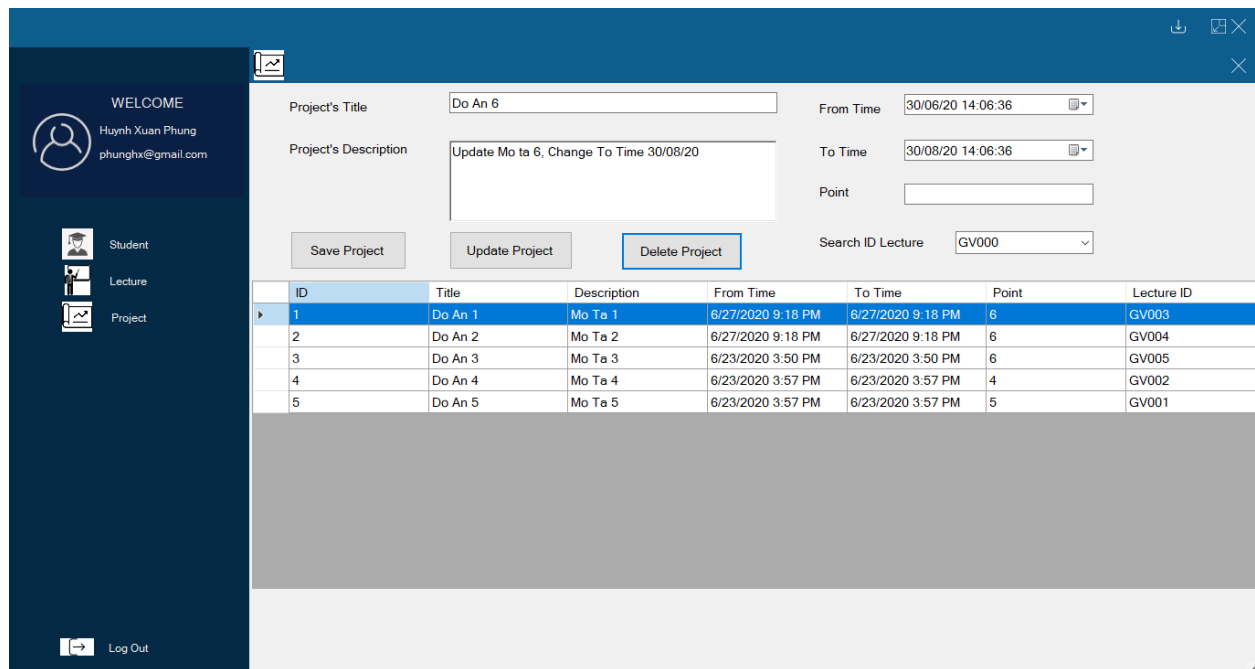
Search ID Lecture: GV000

Save Project Update Project **Delete Project**

ID	Title	Description	From Time	To Time	Point	Lecture ID
1	Do An 1	Mo Ta 1	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV003
2	Do An 2	Mo Ta 2	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV004
3	Do An 3	Mo Ta 3	6/23/2020 3:50 PM	6/23/2020 3:50 PM	6	GV005
4	Do An 4	Mo Ta 4	6/23/2020 3:57 PM	6/23/2020 3:57 PM	4	GV002
5	Do An 5	Mo Ta 5	6/23/2020 3:57 PM	6/23/2020 3:57 PM	5	GV001
7	Do An 6	Update Mo ta 6, Cha...	6/30/2020 2:06 PM	8/30/2020 2:06 PM		GV000

Figure 22: Test 15

After Delete



WELCOME
Huynh Xuan Phung
phunghx@gmail.com

Student
Lecture
Project

Log Out

Project's Title: Do An 6

Project's Description: Update Mo ta 6, Change To Time 30/08/20

From Time: 30/06/20 14:06:36

To Time: 30/08/20 14:06:36

Point:

Search ID Lecture: GV000

Save Project Update Project Delete Project

ID	Title	Description	From Time	To Time	Point	Lecture ID
1	Do An 1	Mo Ta 1	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV003
2	Do An 2	Mo Ta 2	6/27/2020 9:18 PM	6/27/2020 9:18 PM	6	GV004
3	Do An 3	Mo Ta 3	6/23/2020 3:50 PM	6/23/2020 3:50 PM	6	GV005
4	Do An 4	Mo Ta 4	6/23/2020 3:57 PM	6/23/2020 3:57 PM	4	GV002
5	Do An 5	Mo Ta 5	6/23/2020 3:57 PM	6/23/2020 3:57 PM	5	GV001

Figure 23: Test 16


Test form Project Detail
Add 1 Student in Project Detail
Before Add

Student Name

Nguyen Van Dan

Add Student

Delete Student



Group Student

Project ID1

Project TitleDo An 1

Project DescriptionMo Ta 1

Lecture IDGV003

	MSSV	Name	Full Name	Major	Gender	Birthday	Phone	Email
▶	17110048	Loc	Nguyen Tan...	IT	Male	6/17/2020	0985236985	@gmail.com

Figure 24: Test 17


After Add

Student Name

Phan Vinh Loc

Add Student

Delete Student



Group Student

Project ID

1

Project Title

Do An 1

Project Description

Mo Ta 1

Lecture ID

GV003

	MSSV	Name	Full Name	Major	Gender	Birthday	Phone	Email
▶	17110048	Loc	Nguyen Tan...	IT	Male	6/17/2020	0985236985	@gmail.com
	17110049	Loc	Phan Vinh L...	Mechanical ...	Female	6/27/2020	0985223652	@gmail.com

Figure 25: Test 18


Delete 1 Student in Project Detail
Before Delete

Student Name

Nguyen Van Dan

Add Student

Delete Student



Group Student

Project ID1

Project TitleDo An 1

Project DescriptionMo Ta 1

Lecture IDGV003

	MSSV	Name	Full Name	Major	Gender	Birthday	Phone	Email
▶	17110048	Loc	Nguyen Tan...	IT	Male	6/17/2020	0985236985	@gmail.com
	17110049	Loc	Phan Vinh L...	Mechanical ...	Female	6/27/2020	0985223652	@gmail.com

Figure 26: Test 19


After Delete

Student Name

Nguyen Van Dan

Add Student

Delete Student



Group Student

Project ID

1

Project Title

Do An 1

Project Description

Mo Ta 1

Lecture ID

GV003

	MSSV	Name	Full Name	Major	Gender	Birthday	Phone	Email
▶	17110049	Loc	Phan Vinh L...	Mechanical ...	Female	6/27/2020	0985223652	@gmail.com

Figure 27: Test 20

Test form Progress Detail

Add 1 Progress

Before Add

Progress of Student

StudentID17110048

Progress Content

Add Progress

ProjectID1

Note

Update

Student NameNguyen Tan Loc

Link Source

Delete Progress

	STT	Project ID	Student ID	ProgressName	Note	Link Source
▶	1	1	17110048	Content 1	complete db	...
	2	1	17110048	Content 2	complete form	...

Figure 28: Test 21

After Add

Progress of Student

StudentID17110048

Progress ContentContent 3

Add Progress

ProjectID1

Notecomplete report

Update

Student NameNguyen Tan Loc

Link Source`anLoc1999/ProjectStudent

Delete Progress

	STT	Project ID	Student ID	ProgressName	Note	LinkSource
▶	1	1	17110048	Content 1	complete db	...
	2	1	17110048	Content 2	complete form	...
	8	1	17110048	Content 3	complete report	https://github.com/Ng...

Figure 29: Test 22

Update 1 Progress

Progress of Student

StudentID17110048

Progress ContentContent 3

Add Progress

ProjectID1

NoteUpdate change link source

Update

Student NameNguyen Tan Loc

Link Sourcehttps://github.com/PVL

Delete Progress

	STT	Project ID	Student ID	ProgressName	Note	LinkSource
▶	1	1	17110048	Content 3	Update change link so...	https://github.com/PVL
	2	1	17110048	Content 2	complete fom	...
	8	1	17110048	Content 3	complete report	https://github.com/Ng...

Figure 30: Test 23

Delete 1 Progress
Before Delete

Progress of Student

StudentID17110048

Progress ContentContent 3

Add Progress

ProjectID1

NoteUpdate change link source

Update

Student NameNguyen Tan Loc

Link Sourcehttps://github.com/PVL

Delete Progress

	STT	Project ID	Student ID	ProgressName	Note	LinkSource
▶	1	1	17110048	Content 3	Update change link so...	https://github.com/PVL
	2	1	17110048	Content 2	complete form	...
	8	1	17110048	Content 3	complete report	https://github.com/Ng...

Figure 31: Test 24

After Delete

Progress of Student

StudentID17110048

Progress ContentContent 3

Add Progress

ProjectID1

NoteUpdate change link source

Update

Student NameNguyen Tan Loc

Link Sourcehttps://github.com/PVL

Delete Progress

	STT	Project ID	Student ID	ProgressName	Note	Link Source
▶	2	1	17110048	Content 2	complete fom	...
	8	1	17110048	Content 3	complete report	https://github.com/Ng...

Figure 32: Test 25

Chapter 5: Conclusion and Development Direction

5.1 Conclusion

Basically, the team commented that its software solved 95% of the requirements set by the project. Following are the advantages and disadvantages of the software:

- Advantages:

The interface is neat, accessible, and easy to get acquainted.

Capacity quite light

The program consumes very little system resources when operating.

The program runs stably, gives accurate results, does not crash in the process of executing user requests.

- Disadvantages:

Hard to use LinQ

Lack of Report in part Requirements

5.2 Development Direction

- - Write more function Report in part Requirements
- Write more function which can show all the project of any student/lecture in 1 course

Reference

- We used the knowledge Mr. Phung taught to complete the project.
- There are references sql query on [google.com](https://www.google.com)
- The specifically is on the website: stackoverflow.com