

***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***

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***Score***

<b>Criteria</b>	<b>Content</b>	<b>Presentation</b>	<b>Overall</b>
<b>Score</b>			

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

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### 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

Week	Date	Work
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

Number Order	Name of student	Description	Contribute (%)
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

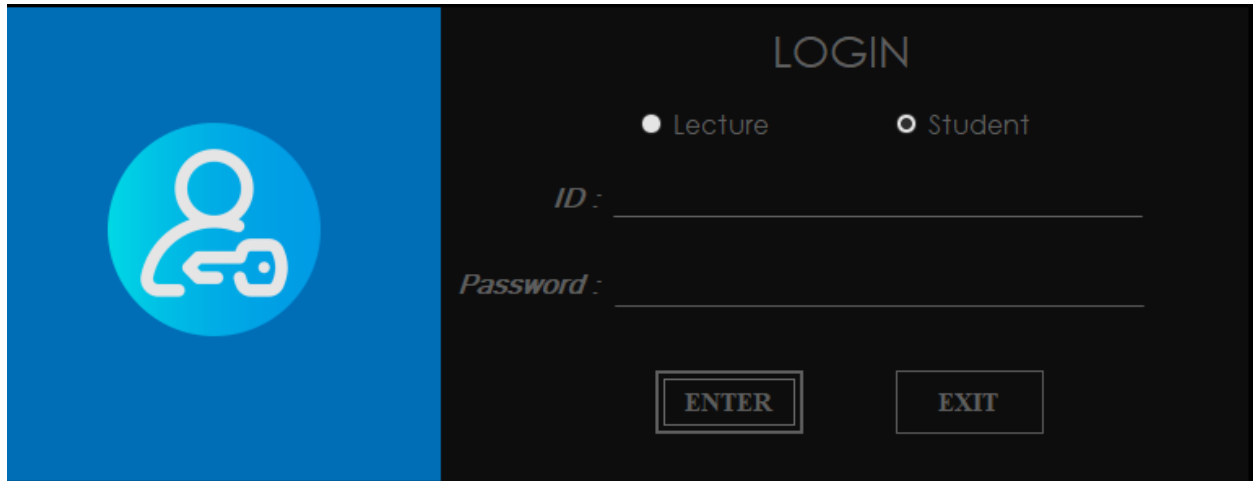


Figure 1: Login Interface

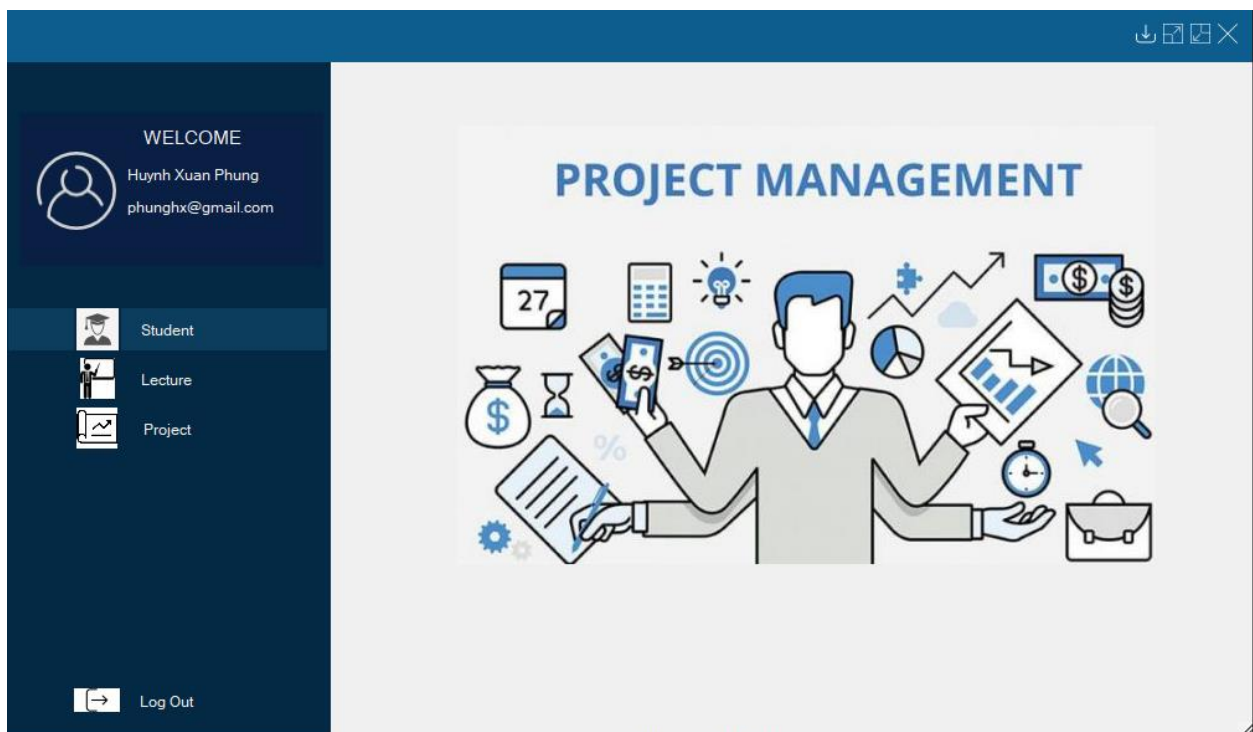


Figure 2: Interface of user when log in successful (Home Page)

WELCOME  
Huynh Xuan Phung  
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

### Student's Information

Students ID:   
Students Name:   
Full Name:   
Phone:

Majors:   
Gender:   
Birthday:   
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:   
Lectures Name:   
Full Name:   
Phone:

Department:   
Gender:   
Birthday:   
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

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

		project which you chosen before
	Button (Delete Student)	Delete the student you choose in the data grid view of the project which you chosen before
Progress of Student Form	Button (Add progress)	Allow you access into the project's progress and add progress for student
	Button (Update progress)	Allow you access into the project's progress and update progress for student
	Button (Delete progress)	Allow you access into the project's progress and delete progress for student

## 3.2 Design Class

### 3.2.1 Sample list of classes used in the program

Student name: Nguyen Tan Loc

Table 2: Design Class

TT	Class name Inheritance or lead export from (specify name base class) – if have	Purpose
1	- Class UserLogin	Before using the program, the user must create a login account
2	- Class Lecture - Foreign Key IDLoginL references UserLogin(ID)	Store information of lecturer and decentralization for teachers when creating accounts (Lecturers have

		the right to use the add, edit, delete functions)
3	<ul style="list-style-type: none"> <li>- Class Student</li> <li>- Foreign Key IDLogin references UserLogin(ID)</li> </ul>	Store information of students and decentralization for students when creating accounts (Students only have permission to view)
4	<ul style="list-style-type: none"> <li>- Class Project</li> <li>- Foreign Key L_ID references Lecture(L_ID)</li> </ul>	Store information of project and save the name of that project lecturer
5	<ul style="list-style-type: none"> <li>- Class ProjectManagement</li> <li>- Foreign Key P_ID references Project(P_ID)</li> <li>- Foreign Key S_ID references Student(S_ID)</li> <li>- Set P_ID and S_ID is primary key that get all the information of Project and Student</li> </ul>	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"> <li>- Class Progress</li> <li>- Foreign Key P_ID references ProjectManagement (P_ID)</li> <li>- Foreign Key S_ID references ProjectManagement (S_ID)</li> <li>- Set P_ID and S_ID is primary key that get the ID of Project and Student</li> </ul>	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
----	--------	---------	---

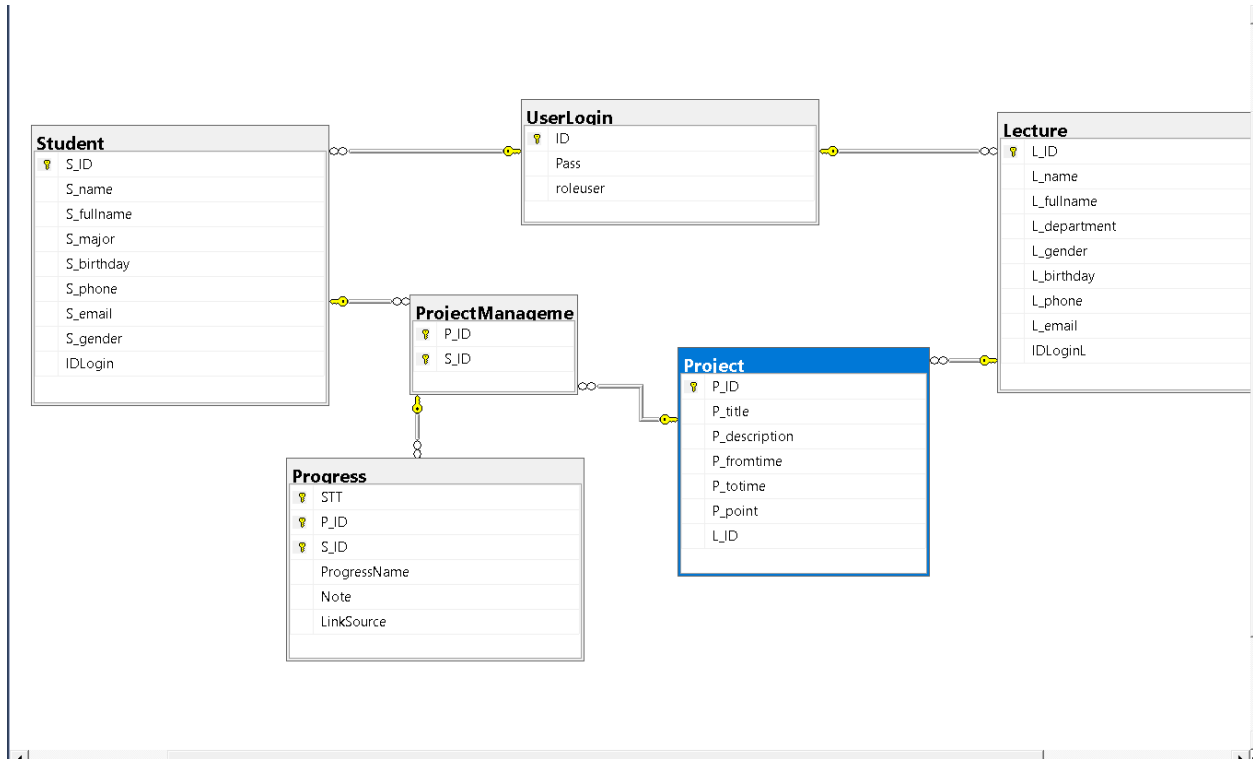
1	<pre>public static Student getStudentInfomationAfter Login(string idLogin) Input: idLogin Output: If class Students have IDLogin == idLogin =&gt; return Student</pre>	<p>Check if the student class has an account that matches the ID of the UserLogin class.</p> <p>If identical then return student</p> <p>Else error note</p>	DBProjectStudent/Controller/StudentController.cs (159)
2	<pre>public static List&lt;Progress&gt; 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&lt;Student&gt; 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&lt;Student&gt; 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 getLectureInfomationAfter Login(string idLogin) Input: idLogin Output: If class Lecturer have IDLogin == idLogin =&gt; 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)

### 3.3 Design Database

Student Name: Phan Vinh Loc



### 3.3.1 Database Diagram



### 3.3.2 Database Specification and Field Description

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

Column name	Data Type	Note
L_ID	Varchar(20)	Lecture ID
L_Name	Nvarchar(100)	Lecture Name
L_Fullname	Varchar(50)	Lecture Fullname
L_Department	Varchar(50)	Lecture Department
L_Birthday	Datetime	Lecture Birthday
L_Phone	Varchar(50)	Lecture Phone

---

L_Email	Varchar(50)	Lecture Email
L_Gender	Varchar(50)	Lecture Gender
ID	int	ID Login

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

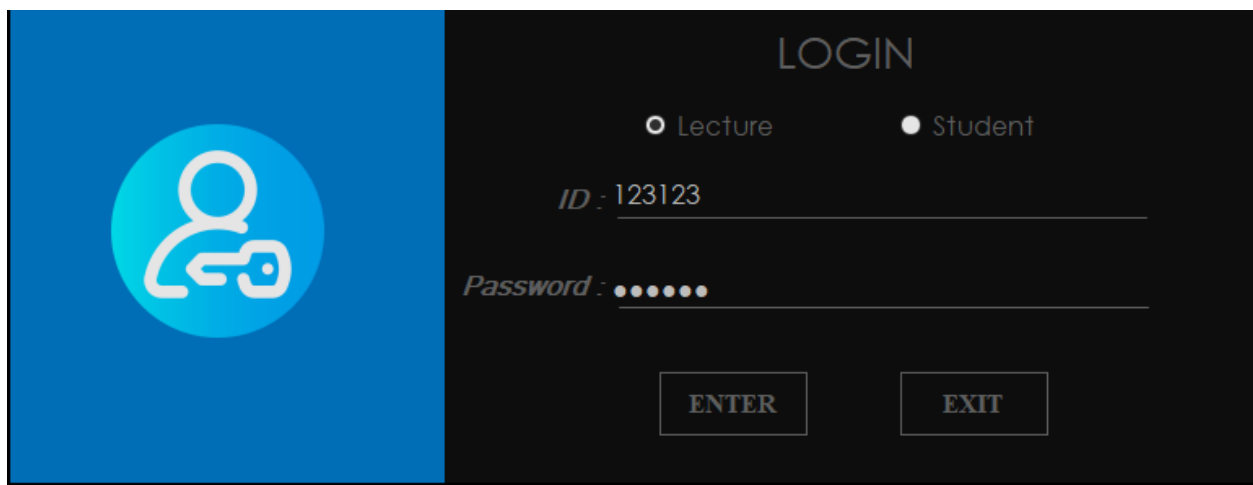


Figure 8: Test 1

Figure 8: Test 1 shows the login interface. Account you can add and allow role user in the data base (SQL server). In this case I log in by account lecture which have ID: 123123 and pass:123123

Test form Student's Information

Add 1 Student who have ID: 17110000, Student's Name: ABC, Full Name: ABCXYZ, Phone: 0102030405, Major: IT, Gender: Male, Birthday: 1/2/1999, Email: abcxyz@gmail.com  
Before Add

The screenshot shows a web application interface for managing student information. On the left is a dark sidebar with a 'WELCOME' message to 'Huynh Xuan Phung' and a 'Log Out' button at the bottom. The main area is titled 'Student's Information' and contains a form with fields for 'Students ID', 'Students Name', 'Full Name', 'Phone', 'Majors' (a dropdown menu), 'Gender' (a dropdown menu), 'Birthday' (a date picker), and 'Email'. There are three buttons: 'Add Student', 'Update Student', and 'Delete Student'. Below the form is a table with 8 columns: ID, Students Name, Full Name, Majors, Gender, Birthday, Phone, and Email. The table contains 8 rows of student data, with the first row (ID 17110010) highlighted in blue.

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

Students Name

ABC

Full Name

ABCXYZ

Phone

0102030405

Majors

IT

Gender

Male

Birthday

1/ 2/1999

Email

abcxyz@gmail.com

Add Student

Update Student


Delete Student

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 who have ID: 17110000, Student's Name: ABC, Full Name: ABCGGG, Phone: 0607080900, Major: IT, Gender: Female, Birthday: 1/2/1999, Email:

abcggg@gmail.com



Student's Information

Students ID

17110000

Students Name

ABC

Full Name

ABCGGG

Phone

0607080900

Majors

IT

Gender

Female

Birthday

1/ 2/1999

Email

abcggg@gmail.com

Add Student

Update Student

Delete Student

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

I will delete student who have ID:17110000

Before Delete

WELCOME  
Huynh Xuan Phung  
phunghx@gmail.com

- Student
- Lecture
- Project

Log Out

### Student's Information

Students ID: 
Majors: 
Add Student

Students Name: 
Gender: 
Update Student

Full Name: 
Birthday: 
Delete Student

Phone: 
Email:

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: 
Majors: 
Add Student

Students Name: 
Gender: 
Update Student

Full Name: 
Birthday: 
Delete Student

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 13: Test 6

The student have ID: 17110000 is deleted



## Test form Lecture's Information

### Add 1 Lecture

I will add 1 lecture have Lectures ID: GV000 , Lectures Name: Quang, Fullname: Nguyen Dang Quang , Phone:0700010203 , Department: Computer Engineer, Gender: Male, Birthday: 6/30/2020, Email: quangdn@gmail.com

### Before Add

The screenshot shows a web application titled "Lecture's Information". On the left is a dark blue sidebar with a "WELCOME" message to "Huyth Xuan Phung" (phunghx@gmail.com) and navigation icons for "Student", "Lecture", and "Project". The main area contains a form for adding or editing lecture information. The form fields are: Lectures ID (empty), Lectures Name (empty), Full Name (empty), Phone (empty), Department (dropdown menu showing "Information Technology"), Gender (dropdown menu showing "Male"), Birthday (calendar icon showing "6/30/2020"), and Email (empty). To the right of the form are three buttons: "Add Lecture", "Update Lecture", and "Delete Lecture". Below the form is a table listing existing lectures.

ID	Lecture Name	Full Name	Department	Gender	Birthday	Phone	Email
GV001	Chinh	Huyth 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	Huyth 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

Huyhn Xuan Phung  
phunghx@gmail.com

Student

Lecture

Project

Log Out

Lecture's Information

Lectures ID

GV000

Department

Computer Engineer

Add Lecture

Lectures Name

Quang

Gender

Male

Update Lecture

Full Name

Nguyen Dang Quang

Birthday

6/30/2020

Delete Lecture

Phone

0700010203

Email

quangdn@gmail.com

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	Huyhn 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	Huyhn 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

I will update the lecture who have ID: GV000, Department from Computer Engineer to Data Science

WELCOME

Huyhn Xuan Phung  
phunghx@gmail.com

Student

Lecture

Project

Log Out

Lecture's Information

Lectures ID

GV000

Department

Data Science

Add Lecture

Lectures Name

Quang

Gender

Male

Update Lecture

Full Name

Nguyen Dang Quang

Birthday

6/30/2020

Delete Lecture

Phone

0700010203

Email

quangdn@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	Huyhn 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	Huyhn 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

I will delete the lecture who have ID: GV000

Before Delete

WELCOME  
Huynh Van Chinh  
@gmail.com

Student  
Lecture  
Project

Log Out

### Lecture's Information

Lectures ID:  Department:

Lectures Name:  Gender:

Full Name:  Birthday:

Phone:  Email:

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

Log Out

### 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

The lecture who have ID: GV000 is deleted

Test form Project

Add 1 project

I will add 1 project which have Project's Title: Do An 6, Project's Description: Mo Ta 6, Form Time: 6/30/2020, To Time: 7/30/2020, Point: Lack, Lecture ID: GV000

Before Add

WELCOME  
Huynh Xuan Phung  
phunghx@gmail.com

Student  
Lecture  
Project

Log Out

Project's Title:

Project's Description:

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

To Time: 30/06/20 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 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

I will update project which Title: Do An 6 and change the Description to Update Mo ta 6, Change time 6/30/2020 to 8/30/2020

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, Che...	6/30/2020 2:06 PM	8/30/2020 2:06 PM		GV000

Figure 21: Test 14

Delete 1 Project  
I will delete project which have Title: Do An 6  
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

The project which have title: Do An 6 is deleted

Test form Project Detail

Add 1 Student in Project Detail

I will add 1 more student in project detail. You can select the student in list Student Name that I added before


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 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 25: Test 18

Delete 1 Student in Project Detail

I will add the student Nguyen Tan Loc




## 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 ID1

Project TitleDo An 1

Project DescriptionMo Ta 1

Lecture IDGV003

	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

I will add more progress at the project id 1 with Progress Content: Content 3 and Note: complete report

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	LinkSource
▶	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 SourceanLoc1999/ProjectStudent

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	...
	8	1	17110048	Content 3	complete report	https://github.com/Ng...

Figure 29: Test 22

## Update 1 Progress

I will change the note of the project id 1 from complete db to update change link source

### 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

I will delete the progress name Content3, STT: 1

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 fom	...
	8	1	17110048	Content 3	complete report	https://github.com/Ng...

Figure 31: Test 24

After Delete

### Progress of Student

StudentID17110048

ProjectID1

Student NameNguyen Tan Loc

Progress ContentContent 3

NoteUpdate change link source

Link Sourcehttps://github.com/PVL

Add Progress

Update

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

The progress have STT:1 is deleted

## 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](http://google.com)
- The specifically is on the website: [stackoverflow.com](http://stackoverflow.com)