

DORMITORY MANAGEMENT SOFTWARE DESIGN DESCRIPTION

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I. Introduction

1. Purpose

This is a detailed description of the dormitory management software design, which is the basis for programming functions as well as scripting testing and program testing.

2. Scope

Documentation is the result of the software design process, the communication basis of the developer, which is the basis for testing, commissioning, maintenance, and providing student point-of-care functions.

3. Glossary

Term	Definition
IT	Information Technology
DMS	Dormitory Management Software
User	Staff and student
Database	The existing membership database
UI	User Interface

4. References

STT	Document Name	File name
1	Software Design Document	Software Design Document.doc

5. Overview of Document

The structure of the document consists of 5 parts:

- Section 1 Introduction: The Basics of Resource Management, Helping People Imagine Content, Benefits and to share documents.
- Section 2: Architectural Design: Constructing Structural Models and Structural Mechanics Models.
- Section 3: Database Design: Design database of system.
- Section 4: Design components: Design subsystems of the system..

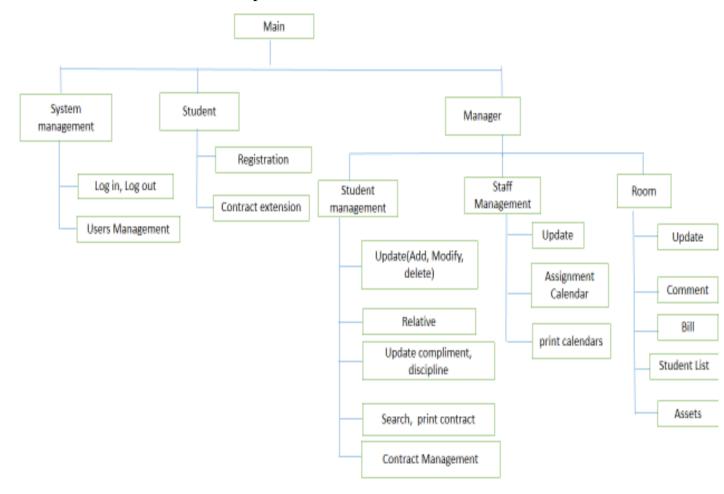
- Section 5: User interface: An overview of the interface, the image, and the accompanying activity.

II. Architectural Design

The software going to be structured consists of 3 parts: Student Management, Staff Management and Dormitory Management.

Dormitory Management software must meet the general requirements as follows:

- Administering users by access.
- Process catalog updating, updating data, updating user information.
- Functional Decomposition
- Possible module decomposition



III. Database Design

1. Relational Database Design

- Entities

Based on the specific activities of the dormitory management system and based on the above functional decomposition model, we identify the entities:

- + Student
- + Staff
- + Dormitory
- + Room
- + Type Room
- + Contract
- + Registration
- + Class
- + Faculty
- + Calendar
- + Assessment Room
- + School Year
- + Relative
- + Bill
- + Compliment
- + Discipline

- Relationship between entities

- + Each dormitory has several rooms.
- + Each room is a room type
- + Each student belongs to 1 class, each class has many students
- + Each class has 1 class, 1 class has many classes
- + Each student has a dormitory hiring contract established by a manager.
- + There is a daily calendar.
- + Each month, each room has a billing statement created by a manager
- + Each room has an annual review

2. Database Design

- Specification tables
 - + Student

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of Student
2	Name	Nvarvhar(50)		student name
3	Gender	Nvarchar(3)		Gender of student
4	Object	Nvarchar(20)		Object of student
5	Address	Nvarchar(100)		Address of student
6	PhoneNumber	Char(20)		Telephone number
7	Nation	Nvarchar(30)		Nation of Student
8	Religion	Nvarchar(20)		religion of student
9	DateOfBirth	Date		date of birth of students
10	IdentityCard	Nvarchar(10)		Identity card of student
11	Class_ID	Int	Foreign keys	ID Class of student
12	Room_ID	Int	Foreign keys	ID room of student

+ Staff

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of staff
2	Name	Nvarchar(50)		Name of Staff
3	Address	Nvarchar(100)		Address of staff
4	PhoneNumber	Char(20)		Telephone number of staff
5	Nation	Nvarchar(20)		

6	Religion	Nvarchar(20)		
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+ Room

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of Room
2	NumberStudent	Nvarchar(50)		Number of student in the room
3	MaxNumber	Nvarchar(100)		largest number of students
4	ID_TypeR	Int	Foreign keys	Type Room
5	ID_Dormitori	Int	Foreign keys	Dormitory ID of room

+ **Dormitory**

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of Dormitory
2	Name	Nvarchar(50)		Name of dormitory
3	NumberRoom	Nvarchar(10)		

+ Relative

Number	Attribute	Data type	constraint	Note
1	Name	Int	Primary Key	Relatives of the students
2	ID_Student	Nvarchar(50)	Primary key	Student ID

4	Relationship	Nvarchar(50)	Relationship with
			students
5	Job	Nvarchar(10)	Work of relatives

+ Type Room

Number	Attribute	Data type	constraint	Note
1	ID	int	Primary Key	ID of type room
2	Name	Nvarchar(50)		Type of room

+ RoomAssessment

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of Assessment
2	Purport	Nvarchar(50)		Purport of assessment
3	ID_Staff	Int	Foreign keys	Staff writes reviews
4	ID_Year	Int	Foreign keys	Assessment of the year
5	ID_Room	Int	Foreign keys	Rooms need assessment

+ Bill

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of bill
2	ElectricBill	Nvarchar(10)		monthly electricity charge
3	WaterBill	Nvarchar(10)		monthly water charge
4	Rent	Nvarchar(10)		money of rent room
5	DateFounded	Date		date founded of bill
6	ID_Room	Int	Foreign keys	ID of room
7	ID_Staff	Int	Foreign keys	Staff set up bill

+ Calendar

Number	Attribute	Data type	constraint	Note
1	Day	Date	Primary Key	Day of calendar
2	ID_Staff	Int	Primary Key	Staff must be on duty
3	Time	Nvarchar(10)		Time

+ Contract

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of contract

2	DateStart	Date		Contract start date
3	DateEnd	Date		Contract end date
4	ID_Student	Int	Foreign keys	Contracts of students
5	ID_Room	Int	Foreign keys	Contract of any room
6	ID_Staff	Int	Foreign keys	Staff set up contract

+ Class

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	Id of class
2	Name	Nvarchar(50)		Name of class
3	ID_Faculty	Int	Foreign keys	Class of the
				Faculty

+ Faculty

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of Faculty
2	Name	Nvarchar(50)		Name of Faculty
3	Address	Nvarchar(100)		Address of faculty

+ Registration

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of student
2	Name	Nvarchar(50)		Name of student
3	Address	Nvarchar(50)		Address of student
4	PhoneNumber	Nvarchar(20)		Studenrt's telephone number
5	Nation	Nvarchar(20)		Nation of student
6	Religion	Nvarchar(20)		Religion of student
7	DateOfBirth	Date		Date of birth

+ SchoolYear

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	Id of school year
2	Name	Nvarchar(50)		Name of School year
3	DateStart	Date		
4	DateEnd	Date		

+ Compliment

Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of compliment
2	Reason	Nvarchar(50)		Reward reasons
3	Degree	Date		

4	Date	Date		Date	of
				compliment	
5	Node	Nvarchar(100)			
6	ID_Student	int	Foreign keys	Commendation	of
				any student	

+ Discipline

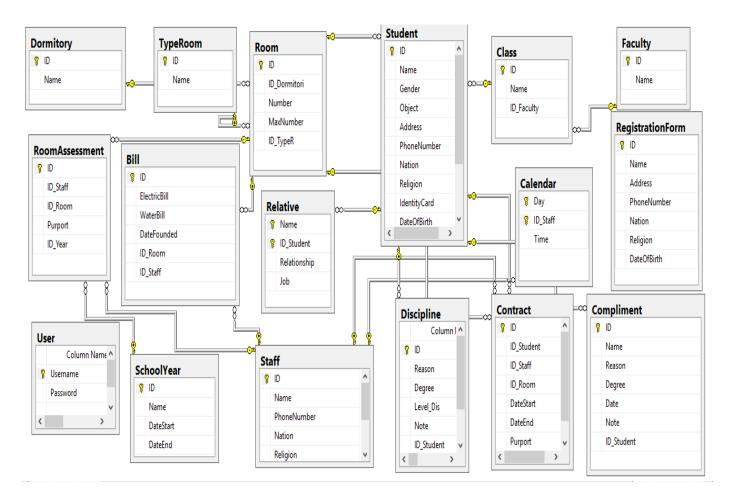
Number	Attribute	Data type	constraint	Note
1	ID	Int	Primary Key	ID of discipline
2	Reason	Nvarchar(50)		Reason of discipline
3	Degree	Date		Degree of discipline
4	Date	Date		Date of discipline
5	Level_dis	Nvarchar(20)		degree of discipline
5	Node	Nvarchar(100)		
6	ID_Student	int	Foreign keys	Discipline of any student

+User

Number	Attribute	Data type	constraint	Note
1	UserName	Nvarchar(20)	Primary Key	

2	PassWord	Nvarchar(20)	

-Diagram



IV. Design Components

1. Student

1.1. Register into the dormitory

- General information function
 - Allows the system user to register at the dormitory
 - Input: Student registration information at the residence
 - Output: application to stay in the dormXử lý:
- Step 1: Display the hostel accommodation interface:

- + Input: user logs in to the system with personal account and password. After successful login, the user selects the registration button.
- + Output: the system will switch to the registration
- Step 2: User enter necessary information: student code, student name, gender ...
- Step 3: Validate information and display results:
 - + Input: Registration information at the residence.
 - + Output: Notice of registration results

1.2. Extension Contract

- General information function
 - Allows the system user to contract
 - + Input: Student renewal information
 - + Data out: Student renewal contract
- Handling:
 - Step 1: Display contract renewal interface:
 - + Input: User log on to the system with personal account and password. After successfully logging in, the user selects the renewal button.
 - + Output: the system will switch to contract extension
 - Step 2: User enter necessary information: Student ID, student name, gender, contract renewal date, ...
 - Step 3: Validate information and display results:
 - + Input: contract renewal information.
 - + Output: Notice of extension of contract.

2. Manager

2.1.0. Student Management

2.1.1. Update information of Student

- General information function

Allows system users to update student information

- + Input: Student information in the dorm
- + Output: Student information is updated in the database

- Handling:

- + Step 1: Display the student information view:
 - Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the update button (Add, Edit, Delete).
 - Output: The system will move to the update.
- + Step 2: User enter necessary information: Student ID, student name, gender, ethnicity, religion ...
- + Step 3: Validate information and display results:
 - Input: Student information is updated.
 - Output: Notice of update results

2.1.2. .Update information of student's relative

- General information function

Allows the system user to update the student's relatives information in the dormitory

- + Input: Student's relative information in the dorm
- + Output:Student's relative information is updated in the database

- Handling:

+ Step 1: Display the updated student student's interface:

- o Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the update button (Add, Edit, Delete) the relative.
- Output: The system will move to the update.
- + Step 2: User enter necessary information: Student ID, relative name, date of birth, relationship.
- + Step 3: Validate information and display results
 - Input: The Student's relative information is updated.
 - Output: Notice of update results

2.1.3. Update student's compliment

- General information function

Allows the system user to register at the residence

- + Input: Reward content of students.
- + Output: Student's awards are updated to the database
- Handling:
 - + Step 1: Display the update interface for students:
 - Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the update button (Add, Edit, Delete) to reward the student.
 - Output: The system will move to the update.
- + Step 2: User enter the necessary information: Student Code, Reward Code, Reason for Reward, Notes ...
 - + Step 3: Validate information and display results:
 - + Input: Student feedback is updated.

+ Output: Notice of update results..

2.1.4. Update student's discipline

- General information function

Allows the system user to update the Student Discipline form.

- +Input: Student residence information card information
- + Output: Students' ballot information is updated in the database
- Handling:

+Step 1: Display the updated Student Discipline Information interface:

- Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the Student Discipline button, and then updates the information on the Discipline form.
- Output: The system will move to the update.
- + Step 2: User enter necessary information: Student Code, Disciplinary Reason, Disciplinary Level
 - + Step 3: Validate information and display results:
 - + Input: Student information is updated.
 - + Output: Notice of update results.

2.1.5. Update information of class

- General information function

Allows system users to update class information.

- + Input: Classroom information for students.
- + Data output: Class information is updated in the database
- Handling:

- + Step 1: Display interface update class information:
 - Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the button class, then updates the update.
 - Output: The system will move to the update.
- + Step 2: User enter the necessary information: Class code, class name.
 - + Step 3: Validate information and display results:
 - + Input: Student information is updated.
 - + Output: Notice of update results

2.1.6. Update information of Faculty

- General information function

Allows system users to update department information

- +Input: Department information
- + Output: Department information is updated in the database
- Handling:
 - + Step 1: Show faculty update information:
 - Input: User logs on to the system with personal account and password. After successful login, the user selects the Faculty Button, then proceeds to update the Faculty Information.
 - Output: The system will move to the update.
- + Step 2: User enter the necessary information: Department code, department name.
 - + Step 3: Validate information and display results:

- Input: updated faculty information.
- Output: Notice of update results

2.1.7. Update Comtract

- General information function

Allows the system user to update the contract information

- +Input: Student contract information at the dormitory
- +Output: Student contract information is updated in the database
- Handling:
 - + Step 1: Display the updated student contract interface
 - Input: User logs on to the system with personal account and password. After the login is successful, the user selects the contract button, then selects the contract update.
 - Output: The system will move to the update.
- + Step 2: User enter necessary information: Student ID, relative name, date of birth, relationship.
 - + Step 3: Validate information and display results:
 - Input: Student contract information updated.
 - Output: Notice of update results.

2.2.0 Staff Management

2.2.1. Update information of staff

- General information function

Allows system users to update employee information

- Input: Information on staff working at the dorm
- Output: information of staff is updated in the database
- Handling:

- +Step 1: Display the updated employee information interface
 - Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the update button (Add, Edit, Delete) employees.
 - Output: The system will move to the update.
- +Step 2: User enter the necessary information: Employee code, employee name, address ...
 - + Step 3: Validate information and display results:
 - +Input: Employee information is updated.
 - + Output: Notice of update results.

2.2.2. Update employee schedules

- General information function

Allows system users to schedule dormitories for employees

- Input: Schedule information on daily dormitories
- Output: Schedule information is updated in the database
- Handling:
 - +Step 1: Displays the scheduler interface
 - Input: User logs on to the system with personal account and password. After successful login, users select the calendar button, then proceed to update.
 - Output: The system will move to the update.
- + Step 2: User enter the necessary information: date, employee code, time
 - + Step 3: Validate information and display result

- Input: Employee calendar information updated.
- Output: Notice of update results.

2.3.0. Dormitory Management

2.3.1. Update information of dormitory

- General information function

Allows the system user to update the dormitory information

- Data entry: dormitory information
- Data out: dormitory information is updated in the database
- Handling:
 - +Step 1: Display the updated hostel information interface
 - Input: User logs on to the system with personal account and password.
 After successful login, the user select the button to update the dormitory information.
 - Output: The system will move to the update.
- + Step 2: User enter necessary information: dormitory code, dormitory name.
 - + Step 3: Validate information and display results:

Input: updated dormitory information.

Output: Notice of update results.

2.3.2. Update information of room

- General information function

Allows system users to update room information.

- Input: Accommodation information of the hostels
- Output: Student's room information is updated in the database

- Handling:

- + Step 1: Display the updated room information interface
 - Input: User logs on to the system with personal account and password. After successfully logging in, the user selects the update button (Add, Edit, Delete) the room.
 - Output: The system will move to the update.
- + Step 2: User enter the necessary information: Room code, room name, rent, current student number, student number
 - + Step 3: Validate information and display results:

Input: Room information is updated.

Output: Notice of update results.

2.3.3. Set up bill of month

- General information function

Allows users to bill monthly expenses of rooms

- Input: billing information
- Output: Invoice information is updated in the database
- Handling:
 - + Step 1: Display the bill update interface
 - Input: User logs on to the system with personal account and password. After successful login, the user select the invoice button
 - Output: The system will move to the update.
 - + Step 2: User enter the necessary information: Encode, room code, electricity charge, water bill.
 - + Step 3: Validate information and display results:

Input: Invoice information is updated.

Output: Notice of update results.

V. . Design User Interface

1. General description

Each management interface is organized into two forms: Form list and object details are interested, Form details related objects.

- List form and object details composed of components
- + 1 grid shows the list of updated data objects
- + Add, edit, delete, print
- + 1 frame shows detailed information of the object
- Detailed form of related objects
- + show list of related objects

Possible functions.

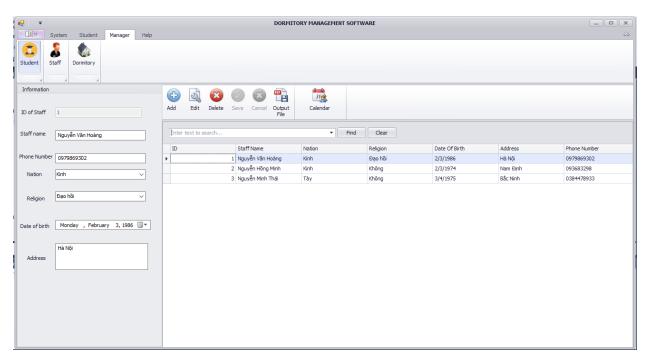
+ detail a specific object

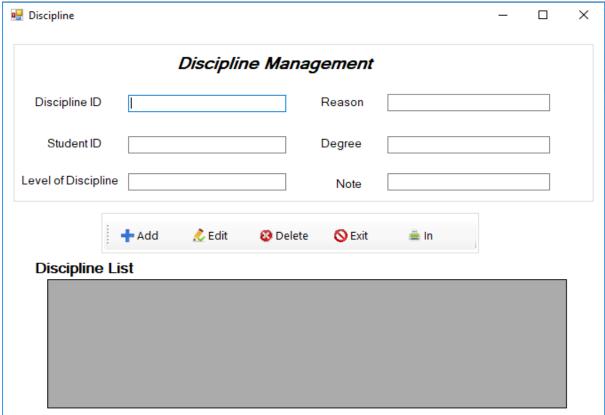
2. Screen Interface

The tool uses the interface designer: DevComponents.DotNetBar2.dll, BaseControlLib_SE.dll.

- Layout list and details:
- Table of functions located at the top of the form, including operations: Add, edit, delete, save, print
- Supports quick search by certain fields.
- Use GridControl to display the data sheet, convenient for manipulation Sort, filter, search, edit. Display data on the DataGridView.
- The left side of the interface is the details of the object
- The upper right is the object involved

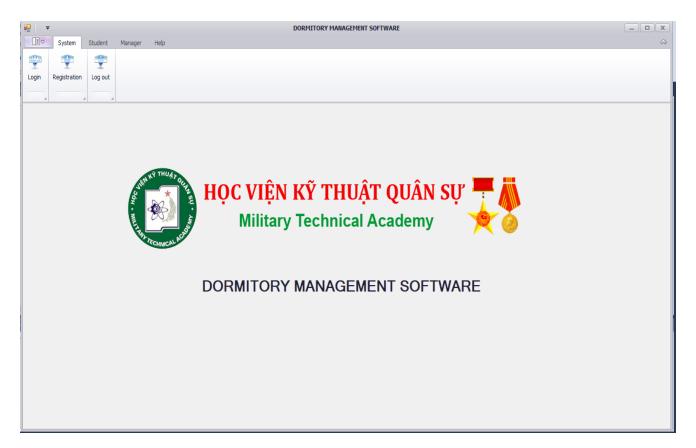
For example:





3. InterFace

Start



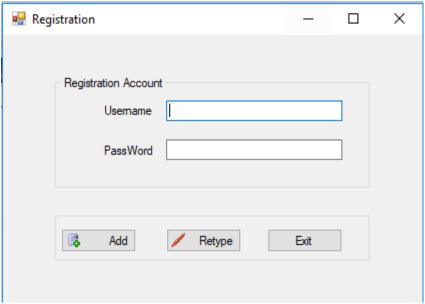
3.1. Log In



ТТ	Component name	Type	Reference	Describe
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1	btnLogIn	Button	System.Windows.Forms.Button	Log In to the system: Clicking this button will check the login account
2	btnCancel	Button	System.Windows.Forms.Button	Exit the program
4	txtName	TextBox	System.Windows.Forms.TextBox	Allows the user to enter the account name
5	txtPassWord	TextBox	System.Windows.Forms.TextBox	Allows the user to enter the account password

3.2. Registration account

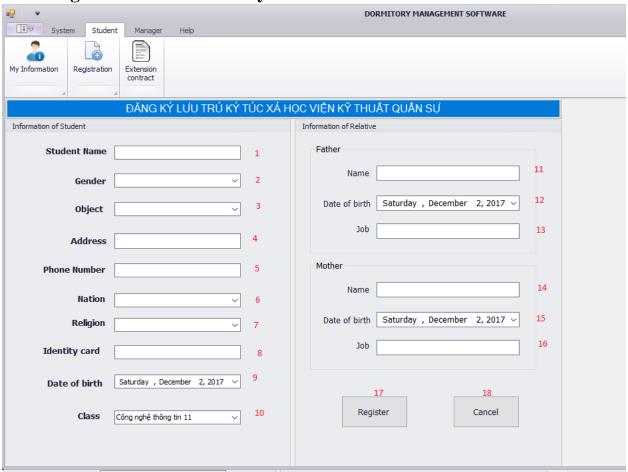


T T	Compone nt name	Туре	Reference	Describe

1	btnAdd	Button	System.Windows.Forms.Butt on	Add Account: When the button is clicked, the account is added
2	btnRetype	Button	System.Windows.Forms.Butt on	Retype Account: When you click the button, the user enters the account information again
4	txtName	TextBox	System.Windows.Forms.Text Box	Allows the user to enter the account name
5	txtPassWo rd	TextBox	System.Windows.Forms.Text Box	Allows the user to enter the account password

3.3.0. Student Interface

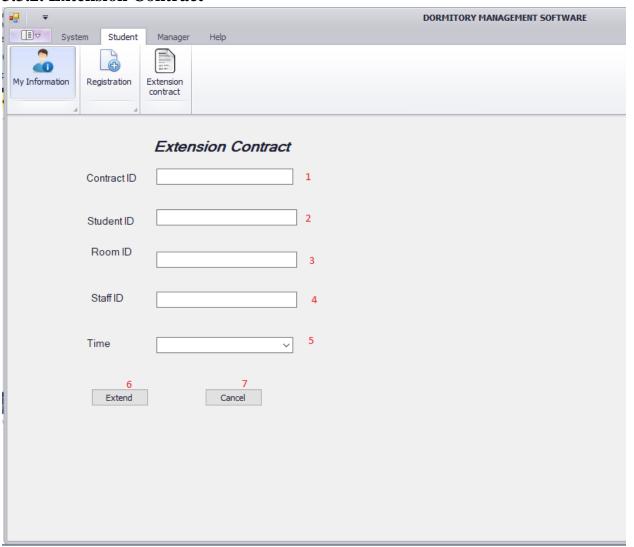
3.3.1. Register into the dormitory



TT	Component name	Туре	Reference	Describe
1	txtName	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter the Student name
2	cbbGender	ComboBox	System.Windows.Forms.Combo Box	Allows the user to enter the student gender
3	cbbObject	ComboBox	System.Windows.Forms.Combo Box	Allows the user to enter the student Object
4	txtAddress	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter the Student Adress
5	txtPhone	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter telephone number of student
6	cbbNation	ComboBox	System.Windows.Forms.Combo Box	Allows the user select Nation of student
7	cbbReligion	ComboBox	System.Windows.Forms.Combo Box	Allows the user select religion of Student
8	txtIdentity	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter the identity card of student
9	dateDOB	DateTime	System.Windows.Forms.DateTi me	Allows the user to enter the date of birth

10	cbbClass	ComboBox	System.Windows.Forms.Combo Box	Allows the user to enter class name
11	txtNameFath er	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter Father name of student
12	dateBirthFat her	Datetime	System.Windows.Forms.Datetim e	Allows the user to enter the date of birth of the student'father
13	txtJobFather	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter Job of father
14	txtNameMot her	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter mother name of student
15	txtBirthMoth er	Datetime	System.Windows.Forms.Datetim e	Allows the user to enter the date of birth of the student'mother
16	txtJobMothe r	TextBox	System.Windows.Forms.TextBo x	Allows the user to enter Job of mother
17	btnRegister	Button	System.Windows.Forms.Button	When clicked on the system button allows registration
18	btnCancel	Button	System.Windows.Forms.Button	Stop to register

3.3.2. Extension Contract

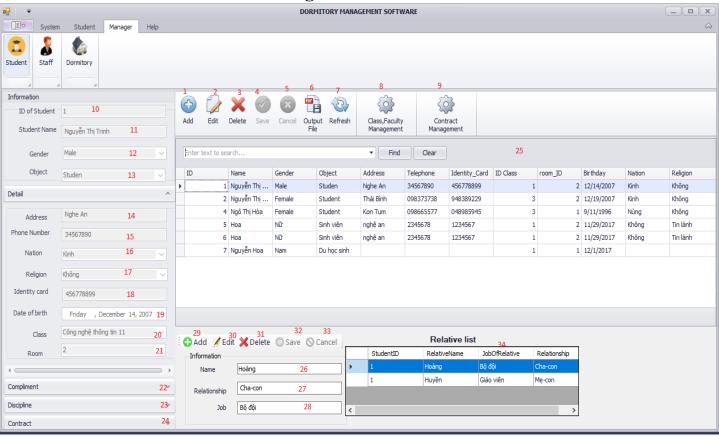


T T	Component name	Type	Reference	Describe
1	txtID	TextBo x	System.Windows.Forms.Butt on	Allows the user to enter the Contract ID
2	txtStudentID	TextBo x	System.Windows.Forms.Butt on	Allows the user to enter the student ID
3	txtRoomID	TextBo x	System.Windows.Forms.Text Box	Allows the user to enter the Room ID
4	txtStaffID	TextBo x	System.Windows.Forms.Text Box	Allows the user to enter the Staff ID

5	txtTime	TextBo x	System.Windows.Forms.Text Box	Allows the user to enter the Time of contract
6	btnExtension	Button	System.Windows.Forms.Butt on	When clicked on the system button allows extension
7	btnCancel	Button	System.Windows.Forms.Butt on	Stop to extension

3.4. Student Management

3.4.1. Main Interface of Student Management



ТТ	Component name	Туре	Reference	Describe
1	barAdd	BarButton	DevComponents.DotNetB ar	When you click on the system button will display the list of students registered in

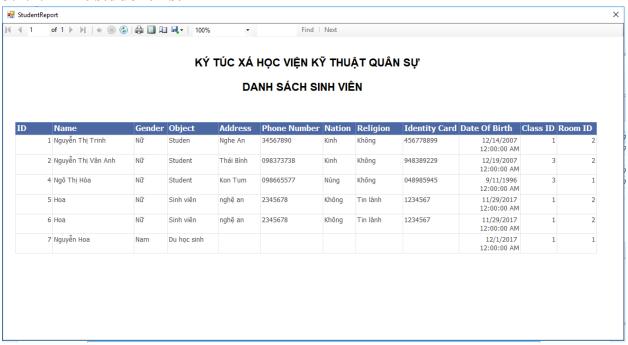
				the dormitory for the user to add options.
2	barEdit	BarButton	DevComponents.DotNetB ar	Clicking on the system button allows you to edit student information
3	barDelete	BarButton	DevComponents.DotNetB ar	Clicking on the system button allows you to delete student information
4	barSave	BarButton	DevComponents.DotNetB ar	Clicking on the system button allows you to save student information
5	barCancel	BarButton	DevComponents.DotNetB ar	Clicking on the button allows the user to stop performing actions such as editing or deleting
6	barOutPut	BarButton	DevComponents.DotNetB ar	Clicking on the system button allows you to export the student list to the file(part 3.4.2)
7	BarRefresh	BarButton	DevComponents.DotNetB ar	Clicking on the button will automatically update the new student information
8	barCFM	BarButton	DevComponents.DotNetB ar	Click on the system button to display the class and faculty management form (part 3.3.3)
9	barContractM	BarButton	DevComponents.DotNetB ar	Click on the system button to display contract form(part

				3.4.4) allowing the user to update the reward information for the selected student
10	txtID	TextBox	System.Windows.Forms.T extBox	Allows the user to enter the Student ID
11	txtName	TextBox	System.Windows.Forms.T extBox	Allows the user to enter the Student name
12	cbbGender	ComboBox	System.Windows.Forms.C omboBox	Allows the user select the student gender
13	cbbObject	ComboBox	System.Windows.Forms.C omboBox	Allows the user select the student Object
14	txtAddress	TextBox	System.Windows.Forms.T extBox	Allows the user to enter the Student Adress
15	txtPhone	TextBox	System.Windows.Forms.T extBox	Allows the user to enter telephone number of student
16	cbbNation	ComboBox	System.Windows.Forms.C omboBox	Allows the user select student nation
17	cbbReligion	ComboBox	System.Windows.Forms.C omboBox	Allows the user select Student Religion
18	txtIdentity	TextBox	System.Windows.Forms.T extBox	Allows the user to enter the identity card of student
19	dateDOB	DateTime	System.Windows.Forms.D ateTimePicker	Allows the user to enter the date of birth
20	cbbClass	ComboBox	System.Windows.Forms.C omboBox	Allows the user select class name
21	cbbRoom	ComboBox	System.Windows.Forms.C omboBox	Allows the user select the Room name

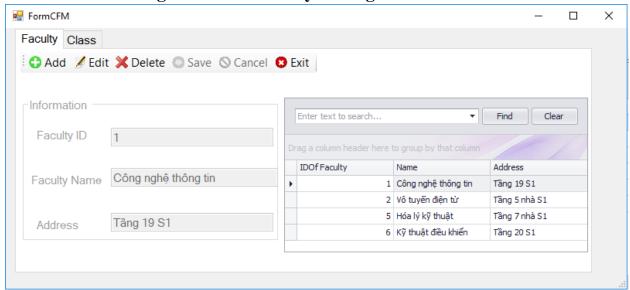
22	btnCompliment	Button	System.Windows.Forms.B utton	Click on the system button to display the form compliment allowing the user to update the reward information for the selected student(part 3.4.6)
23	btnDiscipline	Button	System.Windows.Forms.B utton	Click on the system button to display the form discipline allowing the user to update the reward information for the selected student(part 3.4.5)
24	btnContract	Button	System.Windows.Forms.B utton	then user can print contract(Part 3.4.7)
25	gridStudent	Gridcontrol	DevComponents.DotNetB ar	Show student list. When clicked on a line on the gridview will display student information details
26	txtName	TextBox	System.Windows.Forms.T extBox	Displays or allows the user to enter a relative's name
27	txtRelationship	TextBox	System.Windows.Forms.T extBox	Show or allow users to enter relationships with relatives
28	txtJob	TextBox	System.Windows.Forms.T extBox	Show or allow users to enter relatives' job
29	btnAdd	Button	System.Windows.Forms.B utton	Clicking on the system button allows users you to enter your relative's information

30	btnEdit	Button	System.Windows.Forms.B utton	Clicking on the system button allows user you to edit your relative's information
31	btnDelete	Button	System.Windows.Forms.B utton	When clicked on the system button allows the user to delete relatives
32	btnSave	Button	System.Windows.Forms.B utton	Clicking on the system button saves changes of information
33	btnCancel	Button	System.Windows.Forms.B utton	Stop operation is ongoing
34	dgvRelative	Datagridvie w	System.Windows.Forms.D ataGridView	Show relatives of students

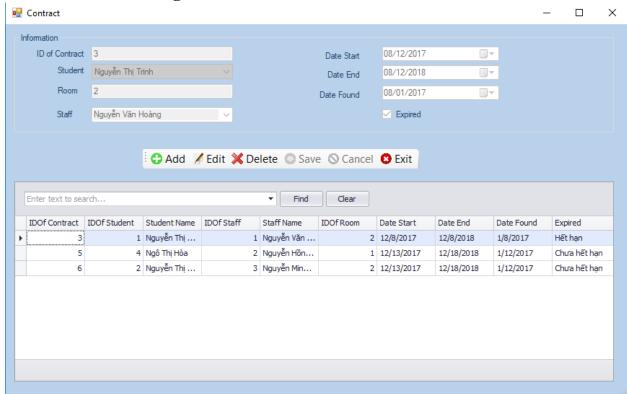
3.4.2. Print student list



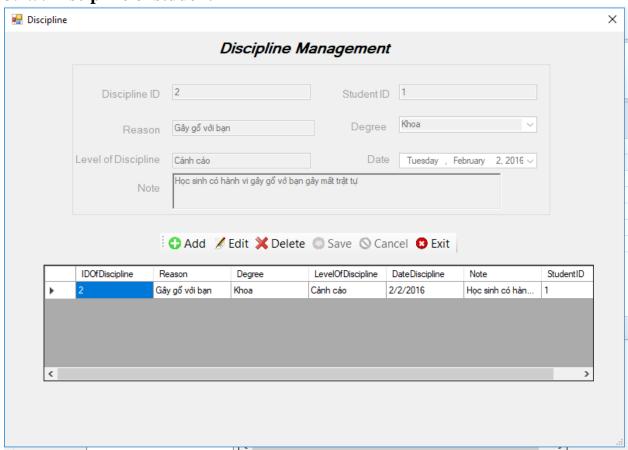
3.4.3. Class Management and Faculty Management



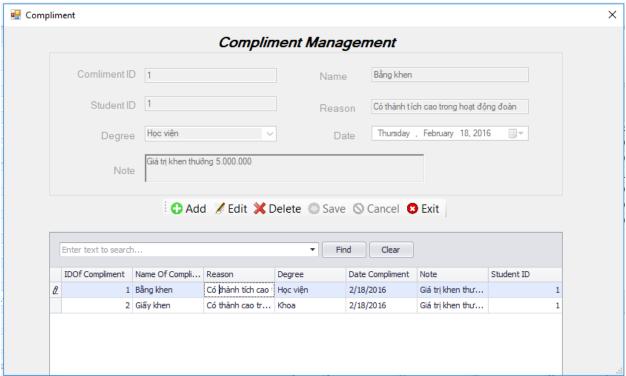
3.4.4. Contract management



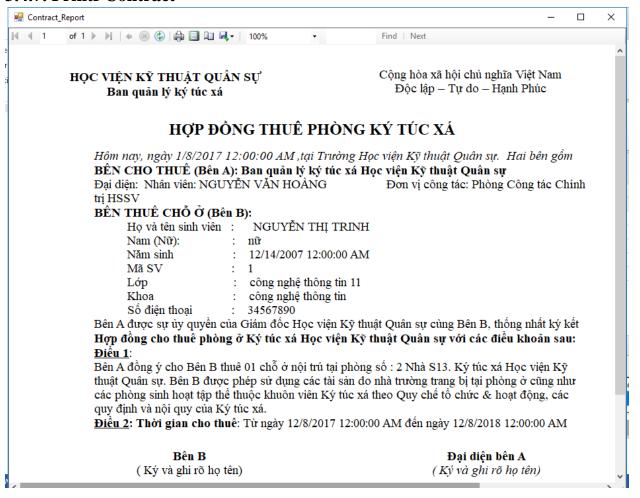
3.4.5. Discipline of student



3.4.6. Compliment of Student

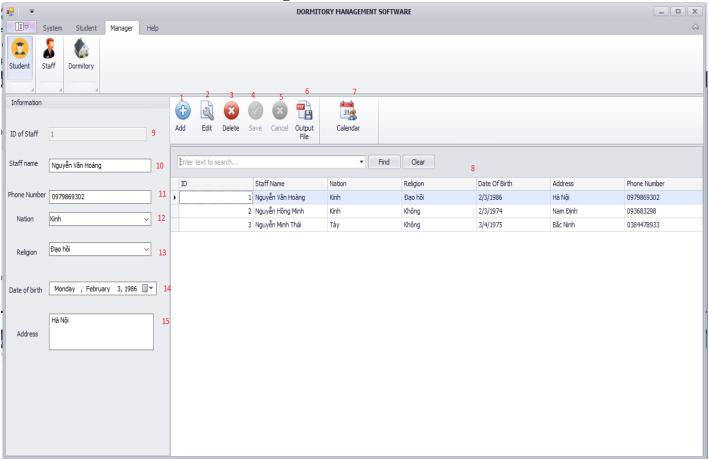


3.4.7. Printf Contract



3.5. Staff Management

3.5.1. Main Interface of Staff Management



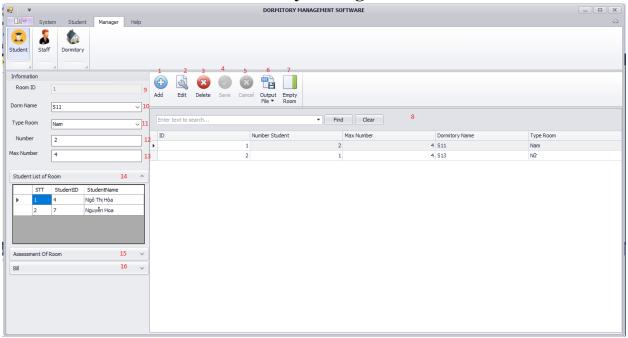
TT	Component name	Туре	Reference	Describe
1	barAdd	BarButton	DevComponents.DotNetBar	Clicking on the system button allows you to add staff information
2	barEdit	BarButton	DevComponents.DotNetBar	Clicking on the system button allows you to edit staff information
3	barDelete	BarButton	DevComponents.DotNetBar	Clicking on the system button allows

				you to delete staff information
4	barSave	BarButton	DevComponents.DotNetBar	Clicking on the system button allows you to save staff information
5	barCancel	BarButton	DevComponents.DotNetBar	Clicking on the button allows the user to stop performing actions such as editing or deleting
6	barOutPut	BarButton	DevComponents.DotNetBar	Clicking on the system button allows you to export the staff list to the file(part 3.5.2)
7	BarCalendar	BarButton	DevComponents.DotNetBar	Allows users to add a dormitory calendar
8	gridStaff	GridControl	DevComponents.DotNetBar	Show staff list. When clicked on a line on the gridview will display staff information details
9	txtID	TextBox	System.Windows.Forms.Text Box	Allows the user to enter the Staff ID
10	txtName	TextBox	System.Windows.Forms.Text Box	Allows the user to enter the Staff name
11	txtPhone	TextBox	System.Windows.Forms.Text Box	Allows the user to enter telephone number of staff
12	cbbNation	ComboBox	System.Windows.Forms.Com boBox	Allows the user select staff nation

13	cbbReligion	ComboBox	System.Windows.Forms.Com boBox	Allows the user select Staff Religion
14	dateDOB	DateTime	System.Windows.Forms.Date TimePicker	Allows the user to enter the date of birth
15	txtAddress	Textbox	System.Windows.Forms.Text Box	Allows the user to enter the Student Adress

3.6. Dormitory Management

3.6.1. Main interface Dormitory Management



TT	Component name	Туре	Reference	Describe
1	barAdd	BarButton	DevComponents.Dot NetBar	Clicking on the system button allows you to add room information
2	barEdit	BarButton	DevComponents.Dot NetBar	Clicking on the system button allows

				you to edit room information
3	barDelete	BarButton	DevComponents.Dot NetBar	Clicking on the system button allows you to delete room information
4	barSave	BarButton	DevComponents.Dot NetBar	Clicking on the system button allows you to save room information
5	barCancel	BarButton	DevComponents.Dot NetBar	Clicking on the button allows the user to stop performing actions such as editing or deleting
6	barOutPut	BarButton	DevComponents.Dot NetBar	Clicking on the system button allows you to export the room list to the file
7	barCalendar	BarButton	DevComponents.Dot NetBar	Allows users to add calendars to employees
8	gridRoom	GridControl	DevComponents.Dot NetBar	Show room list. When clicked on a line on the gridview will display room information details
9	txtID	TextBox	System.Windows.For ms.TextBox	Allows the user to enter the Room ID
10	txtName	TextBox	System.Windows.For ms.TextBox	Allows the user to enter the Staff name
11	cbbTypeRoom	ComboBox	System.Windows.For ms.ComboBox	Allows the user select Type room

12	txtNumber	TextBox	System.Windows.For ms.TextBox	Number of students are currently in room
13	txtMaxNumber	ComboBox	System.Windows.For ms.TextBox	Number of students to maximum room
14	navStudentOfRoom	navBarGroup	DevComponents.Dot NetBar	Display the student list in the room
15	navAssessment	navBarGroup	DevComponents.Dot NetBar	Click on the system button to display Assessment form (part 3.6.3)
16	navBill	navBarGroup	DevComponents.Dot NetBar	Click on the system button to display Bill form (part 3.6.2)

3.6.2. Bill

