



**MINISTRY OF EDUCATION
AND TRAINING**

FPT UNIVERSITY

Capstone Project Document

Website of Law Firm Management System

Full Report

Website of Law Firm Management System	
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Capstone Project code	LFMS

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LỜI CẢM ƠN,

Chúng em xin phép được viết lời cảm ơn bằng Tiếng Việt để có thể truyền tải được trọn vẹn lời tri ân với quý Thầy Cô.

Không có thành quả nào mà không gắn liền với sự hỗ trợ, sự giúp đỡ dù ít hay nhiều, dù trực tiếp hay gián tiếp của mọi người xung quanh. Trong suốt quá trình học tập tại FU, chúng em đã nhận được rất nhiều sự quan tâm, giúp đỡ của quý Thầy Cô và bạn bè.

Với lòng biết ơn sâu sắc nhất, chúng em xin gửi đến quý Thầy Cô đã cùng với tri thức và tinh huyết của mình để truyền đạt vốn kiến thức quý báu cho chúng em trong suốt thời gian học tập tại trường.

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Khóa luận tốt nghiệp được thực hiện trên cơ sở dự án thực tế, cần phát triển thêm nhiều kỹ năng ngoài những bài học tại trường, cộng thêm kiến thức và kinh nghiệm thực tiễn của chúng em còn hạn chế, do vậy quá trình làm dự án không tránh khỏi những thiếu sót, rất vui khi nhận được những ý kiến đóng góp quý báu từ quý Thầy Cô để chúng em được hoàn thiện kiến thức hơn.

Sau cùng, chúng em kính chúc quý Hội Đồng dồi dào sức khỏe, chúc cho một kỳ bảo vệ đồ án tốt nghiệp thành công rực rỡ.

Nhóm Website of Law Firm Management System

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Report No.1: Introduction

1.1. Introduction

1.1.1. Purpose

This part is the introduction for Website of Law Firm Management System (LFMS) Project – our Capstone Project in FPT University. It is included the overview of existing system, the initial idea of this project, a brief description about our expected system and some potential risks, critical assumptions, constraints, also some benefits for our group and lawyer office.

1.1.2. Acronyms and definitions

Acronym & Abbreviation	Definition	Note
LFMS	Law Firm Management System	
SQL	Structured Query Language	

Table 1-1 :Acronyms and definitions

1.2. Abstract

A law firm system is website designed to manage a law firm's case client records, billing and bookeeping, schedules and appointments, deadlines, computer files and to facilitate any compliance requirements such as with document retention policies.

The benefits of law firm system is remind lawyer every day by notify in every day. Now we no need to store document in cabinet, lawyer can easily find it by storage systems.

It might be hard for accounting in law firm. System will provide some way for do this like statistical in every year.

As all of benefits of law firm system, we think this system will be great. We want to develop a website where lawyer can easily use it.

1.3. Literature review

Thuan Nguyen Lawyer Office currently has a management software that runs on Windows, but it's not good enough.

- **Advantages:**

- User interface is very nice and easy to use
- Quick response for user's action
- Can store the related document
- Can add billing for each case.

- **Disadvantages:**

- Many errors occur during the use.
- Difficult to maintain.
- Limit the number of computer can use
- Lack of some function like statistical and schedules.
- Manage with only text information.

1.4. Proposal

1.4.1. Initial idea of the LFMS

This project get requirements from "Thuan Nguyen Lawyer Office" in Vinh Long City. The majority of this project is to use internal systems used to manage Office, Service, Staff, Customer, Case Management, Consulting, Contract and Reports...

Existing solution is to go for the actual project, met the manager of law office, Mr. Thuan. And then get actual requirements for project.

1.4.2. Objectives

This project is the Capstone Project for all team members. Firstly, we do this project to fulfill the requirements from FPT University studying program. During the time do this, we can learn how to develop a project, how to communicate with other team members, how to control time, how to do teamwork effectively. Therefore, after finishing this project, we can practice what we have learnt in university and learn so many new things. It is very necessary for our future work after graduating from FPT University.

Secondly, we want to create a website for law firm that help lawyers can work more effective, easier and simpler way without remember schedule and operation event.

1.4.3. System features

About the feature of LFMS website, it has main features of existing website such as easy to manage than traditional methods, online data storage and centralized etc... Besides, it has some extra functions: schedule notify each time event occur and statistic in every year. There are the detailed functions of this application:

- **Manage seven components below:**

- Case Management: Manage all information of Case by customers, general information, operation event, lawyer viewpoint, people related, document related and Used Service. Assign one or many lawyer into Case.
- Customer Management: Add new, edit customer information and delete customer. Stored for use in later Cases.
- Staff Management: Add new, edit staff information and deactivate staff. Division of roles in the system used.
- Service Management: Add new, edit service information and delete service. Use for Used Service.
- Office Management: Add new, edit office information and deactivate office.
- Statistical: Statistic revenue each office in every year.
- Schedule: Notify to lawyer when had an event occurred.

1.5. Benefit from project

If this application will be developed and implemented successfully, our group and lawyers will get some benefits from it.

1.5.1. For our group

After developing and implementing this project, our group will get some benefits:

- We have more experiences of managing a software project: how to manage plan, time, and risk. These experiences help us a lot in our future work.
- Know how to communicate with other team members and how to do teamwork efficiently
- If this application is developed, we will get a good mark in Capstone Project. It makes our grade better.

1.5.2. For Law firm

After developing and sending to law firm, lawyer can use it from local host in personal computer.

- Lawyers can work more effective, easier and simpler way without remember schedule and operation event.
- Law firm can manage all information like case, customer, staff service and office easier.
- Accounting easier with auto statistical in every year.

1.6. Critical assumption and constraints

There are some critical assumptions that we realize after analyzing this project. The first assumption is about team members. We assume that all the team members can work with MVC and C#. We do not know anything about it before this project, but we have to study hard for not missing any deadline of project plan. Besides, we also assume all our members do not have any health problems, so they are not absent and can do their works.

There are also some constraints of our project. Firstly, about the time and deadline, we have to finish project on time. It has no extra time for us to complete developing and deliver application to teachers. Besides, the reports need to be submitted before the deadline. Secondly, about the quality, the application must be well enough for users to do main function. Finally, about the technique, our knowledge in C# and MVC is not in the high level. Therefore, with all the expected features that we gave before, we do not know if we can solve all of those or not. However, we will try our best to make our project successfully.

1.7. Potential risks

After analyzing this project, we may be facing some risks:

- With the short duration - about 3 months – we will not have enough time to do all things and miss the delivery deadline.
- We do not have any experiences in software project management such as time management, risk management etc. So maybe we will miss the deadline or have some unknown risks.
- It is the first time we manage big project like this, we do not have much experiences in communicating between the team. So maybe in the

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future, we will have conflict and argument and we will not finish all the works in time.

- Maybe we will lose source code or device during the developed time.

Report No.2: Software Management Plan

2.1. Problem Definition

2.1.1 Name of this Capstone Project

English: Website of Law Firm Management System

Vietnamese: Trang web hệ thống quản lý hồ sơ án tại văn phòng luật sư

Abbreviation: LFMS

2.1.2 Problem Abstract

Today, the emergence of the law office is very popular. Every industry, every job when disputes occur are needed to the law office to advice and resolve. However, current law office management system, mostly using traditional methods. No digitization and no online. Cause difficulties and time-consuming to manage. So, to help law offices can easily manage and store Cases, LFMS born.

2.1.3 Project Overview

2.1.3.1 The Current System

Below are current system of Thuan Nguyen Law Office:

- Advantages:
 - Online data storage and centralized
 - Easy to manage than traditional methods
- Disadvantages:
 - Many errors occur during the use
 - Difficult to maintain
 - Limit the number of computers can use
 - Manage only 1 office.
 - Manage with only text information.

2.1.3.2 The Proposed System

The new system will have seven components:

- Case Management: Manage all information of Case by customers, general information, operation event, lawyer viewpoint, people related, document

related and Used Service. Assign one or many lawyer into Case, payments of each case.

- Manage Calendar: Manage all calendar work of staff.
- Customer Management: Add new, edit customer information and delete customer. Stored for use in later Cases.
- Staff Management: Add new, edit staff information and deactivate staff. Division of roles in the system used.
- Service Management: Add new, edit service information and delete service. Use for Used Service.
- Office Management: Add new, edit office information and deactivate office. Can only be used by “super admin” – the admin user role have StaffId is 1.
- Statistics Management: View all Statistics of system about revenue, number of case received and compare revenue, number of case between offices, staffs.

Advantages over the old system:

- More stable
- Easy upgrade and maintenance
- Multiple computers can use at the same time by web platform
- Many other customer support function
- Manage multiple data.
- Can be used for many types of office.

2.1.3.3 Boundaries of the System

- The system is designed for Thuan Nguyen law offices and the same law office.
- System used internally.
- The language of the system is Vietnamese.
- The system does not include human resource management, budget and attendance.

2.1.3.4 Development Environment

N/A

2.2 Project organization

2.2.1 System Process Model

With the schedule of weekly reports and a huge of information every week, the software will be developed by using Rational Unified Process model which is very simple and easy for a new group want to make a big project. With RUP model, developing process will include four main phases:

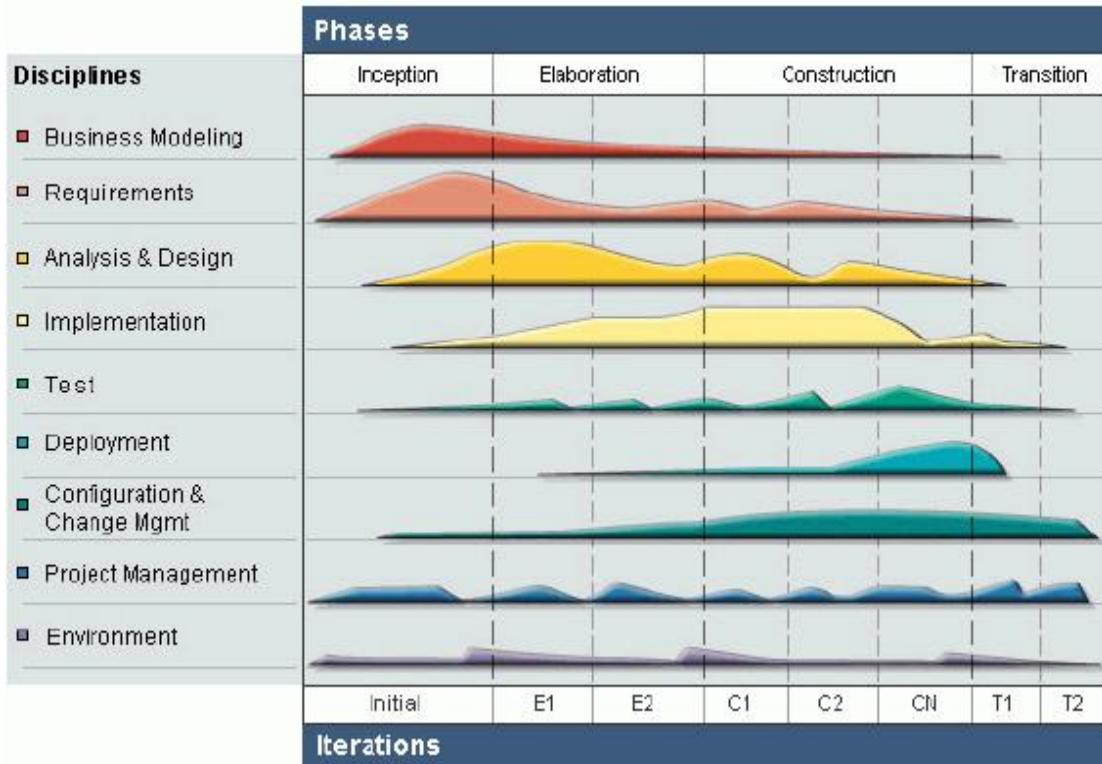


Figure 2-1: Rational Unified Process Process Model

- ❖ **Inception Phase:** This is the first phase of process. In this startup phase, we should provide business case of the system and determine the scope of project. Besides, we have to create the project management plan that has project schedule, effort estimation and risk management etc. At the end of this phase, we should check the objectives of project and decide whether to continue development or not. Hence, Inception phase must be properly planned and done. Based activities of this phase:
 - Study business case and feasibility study of project.
 - Complete draft ERD of system.
 - Complete draft screen prototypes.
 - Complete draft requirements.

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- Determine project scopes.
 - Complete project management plan.
- ❖ **Elaboration Phase:** The objectives of this phase are to determine appropriate architectural and construction plan for the project. The architectural decision needs to be made for the entire system, and to describe most of the requirements of system. At the end of this phase, we must examine the objectives and scopes, the choice of architecture and decide whether to proceed to the next phase. Based activities of this phases:
- Complete user requirement specification.
 - Complete ERD, final prototypes.
 - Complete Software Requirement Specification.
 - Complete database model.
 - Complete System Architecture Design.
- ❖ **Construction Phase:** Construction is the third phase of RUP lifecycle. In this phase, we must have done all the coding and testing work. After coding, developers will do unit test themselves, then test team will do functional test and regression test when finishing all. Based activities of this phase:
- Complete coding and unit test.
 - Complete functional and regression test.
 - Complete user manual.
- ❖ **Transition Phase:** Transition is the final phase of the RUP lifecycle. In this phase, project team has to deploy the application and give it to users. The next step is receiving feedback from users to identify the problems and then complete the system. Based activities of this phase:
- Deploy the system.
 - Deliver source code.
 - Complete all reports and documents.

2.2.2 Roles and Responsibilities

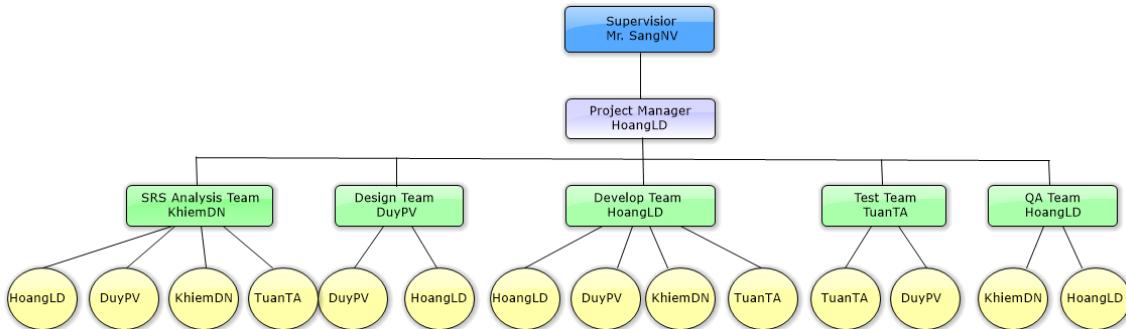


Figure 2-2: Roles and Responsibilities

#	Name	Role	Responsibilities
1	Nguyễn Văn Sang	Supervisor	Support business and solution Tracking and review project
2	Lê Duy Hoàng	Project Manager SRS Analysis Designer Developer Leader QA Leader	<ul style="list-style-type: none"> - PM has responsibilities to develop the project plan and manage project stakeholders, project team, project risk, project schedule, project budget, project conflicts. - Analyze business. - Ensure that the Project Team completes the project. - Provide suitable technology solutions, tools for project development process. - Design and develop interface. - Create coding guidelines, coding convention and standards. - Cooperate with Developer to create software specification requirement (SRS), architectural design (SAD) and software detailed design (SDD). - Review document, product, and reports.

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			<ul style="list-style-type: none"> - Support other team members.
3	Đặng Nguyễn Khiêm	Member SRS Analysis Leader Developer QA	<ul style="list-style-type: none"> - Analyze business. Understand business related to project topic. - Present and explain business information to other members. - Create and review SRS, SAD and SDD documents. - Coding function. - Writing report.
4	Trần Anh Tuấn	Member SRS Analysis Developer Tester Leader	<ul style="list-style-type: none"> - Create software specification requirement (SRS). - Coding function. - Develop the test plan based on project plan and SRS, SDD documents. - Create test data for all functions. - Create test cases for the system, both in document and script. - Execute test to ensure all functions fulfill requirements and make test report.
5	Phạm Văn Duy	Member Designer Leader Developer SRS Analysis Tester	<ul style="list-style-type: none"> - Analyze business, create software specification requirement (SRS). - Develop a plan to draw and control architectural design. - Create and review SRS, SAD and SDD documents. - Design and create database. - Coding function - Execute test to ensure all functions fulfill requirements and make test report. - Support other team members.

Table 2-1: Roles and Responsibilities

2.2.3 Tools and Techniques

2.2.3.1 Tools

- Microsoft Visual Studio 2012: Integrated Development Environment (IDE)
- Microsoft SQL Server 2008: Database Management System (DBMS)
- Microsoft Office: Create documents and reports
- Software Ideas Modeler: Draw diagrams
- TortoiseSVN: Subversion repository for controlling source code
- Firefox: Environment to use and testing project

2.2.3.2 Techniques

- ASP .NET MVC4
- Entity Framework (EF) 5
- Ajax, Jquery

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2.3 Schedule

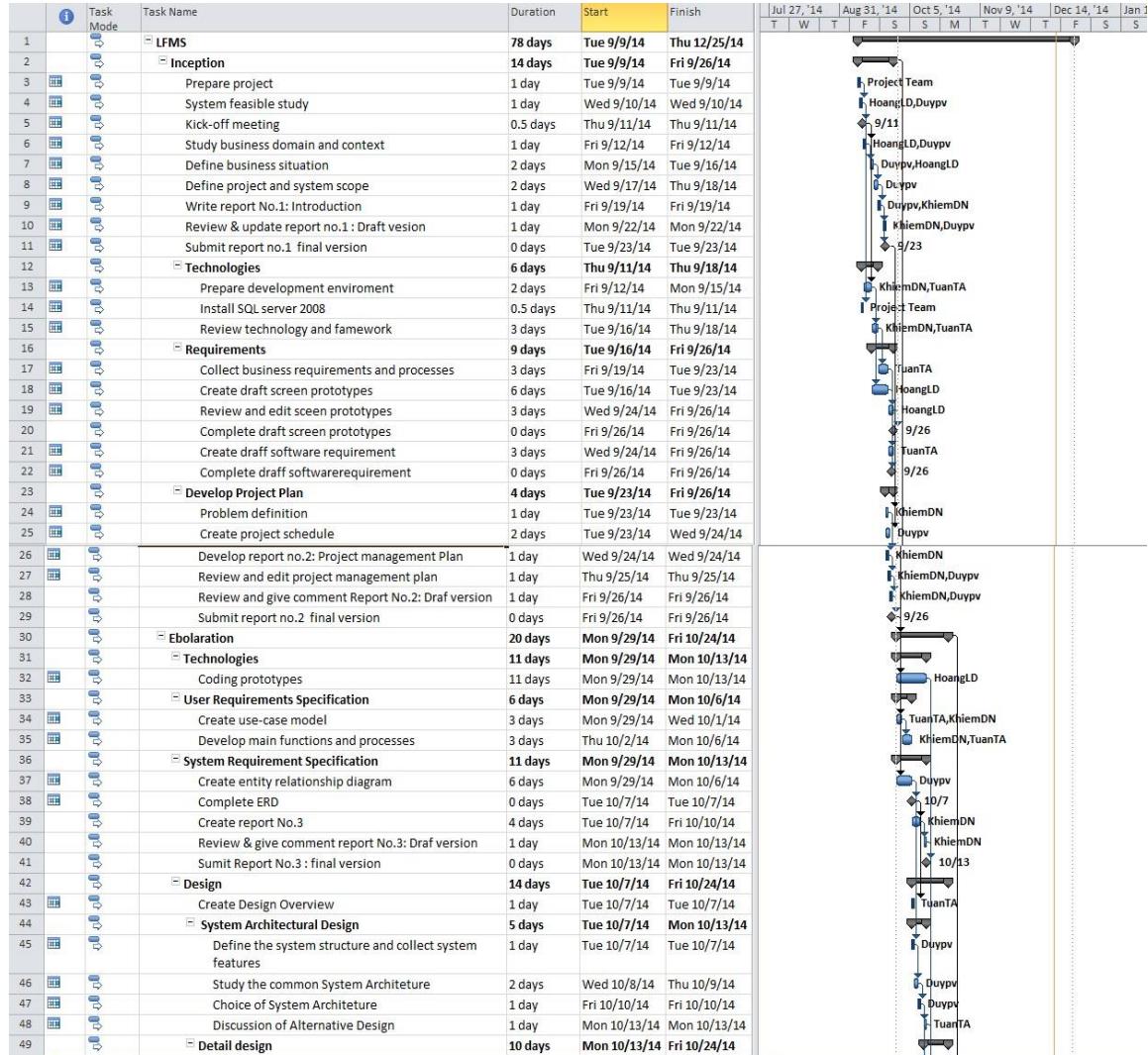


Figure 2-3: Project plan - 1

Capstone Project: LFMS

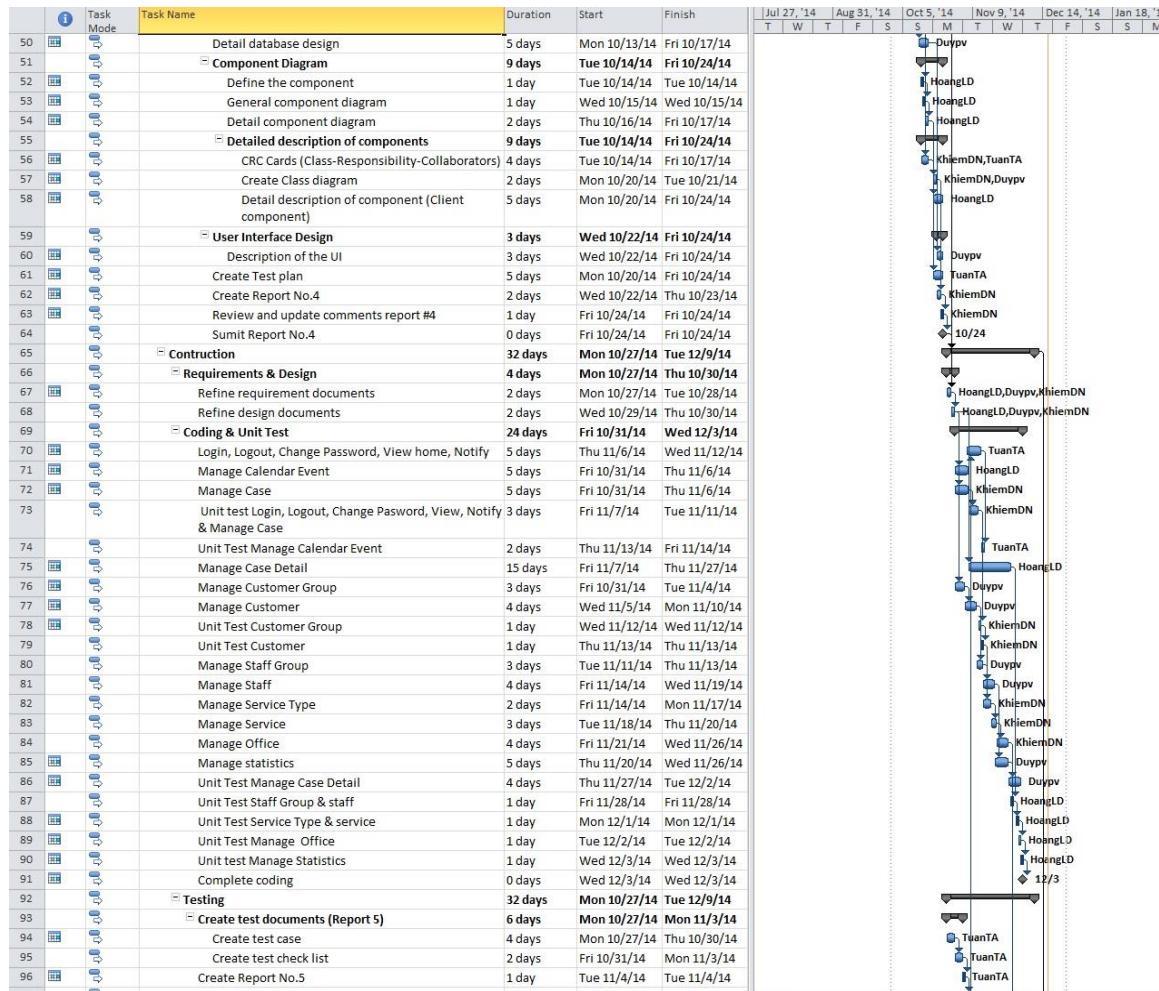


Figure 2-4: Project plan - 2

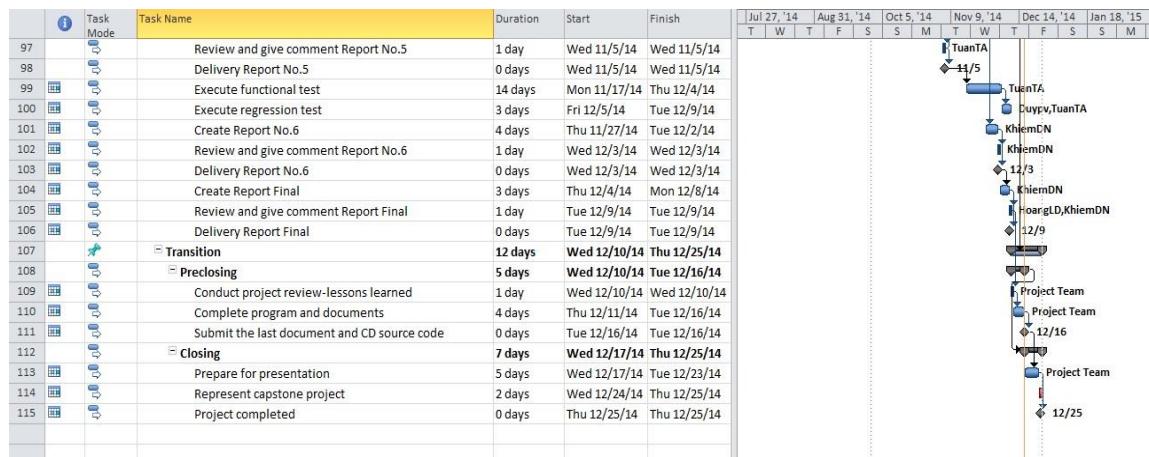


Figure 2-5: Project plan - 3

2.4 Convention Rules

Summary:

- Naming Convention.
- Indentation.
- Declaration.
- Code Examples.

Follow “Code Conventions for the C# Programming Language, by Microsoft:

<http://msdn.microsoft.com/en-us/library/ff926074.aspx>

Report No.3: Software Requirement Specification

3.1. User Requirement Specification

3.1.1. Functional Requirements

3.1.1.1. Case Management:

Access right: All users

- Manage all information of Case by customers, general information, operation event, lawyer viewpoint, people related, document related and Used Service. Assign one or many lawyer into Case, payments of each case.

3.1.1.2. Manage Calendar:

Access right: All users

- Manage all calendar work of staff.

3.1.1.3. Customer Management:

Access right: Administrator

- Add new, edit customer information and delete customer. Stored for use in later Cases.

3.1.1.4. Staff Management:

Access right: Administrator

- Add new, edit staff information and deactivate staff. Division of roles in the system used.

3.1.1.5. Service Management:

Access right: Administrator

- Add new, edit service information and delete service. Use for Used Service.

3.1.1.6. Office Management:

Access right: Administrator

- Add new, edit office information and deactivate office. Can only be used by “super admin” – the admin user role have StaffId is 1.

3.1.1.7. Statistics Management:

Access right: Administrator

- View all Statistics of system about revenue, number of case received and compare revenue, number of case between offices, staffs.

3.1.2. Non-Functional Requirements

The Law Firm Management System (LFMS) is an internal website, which allows management law office system.

- **Learnable:** The user interface must be easy to learn, even at the first time looking at the screen, user may immediately understand the function of each button or icon.
- **Efficiency:** The user interface must minimize the number of steps that the system takes to complete its task.
- **Memorable:** System contains some complex screens. Therefore, interface should be easier to use each time the user interacts with it.
- **Visibility:** Important information (example: text in nodes) should be clearly visible.
- **Consistency:** Like-items should always be displayed and act the same way through the entire application.

3.2. System Requirement Specification (Specific Requirements)

3.2.1. External Interface Requirements

3.2.1.1. User Interfaces

System is designed so friendly and easy to use with users. Home page list all the records of reception Cases. Besides have the calendar, prompted by notification bar at the top.

All functions in menu must be grouped in a meaningful way to make it easy for users to locate and access the features.

3.2.1.2. Communications Protocol

The system is web base so it's should be applied Hypertext Transfer Protocol (HTTP) is main communication protocol.

3.2.2. Functional Requirements

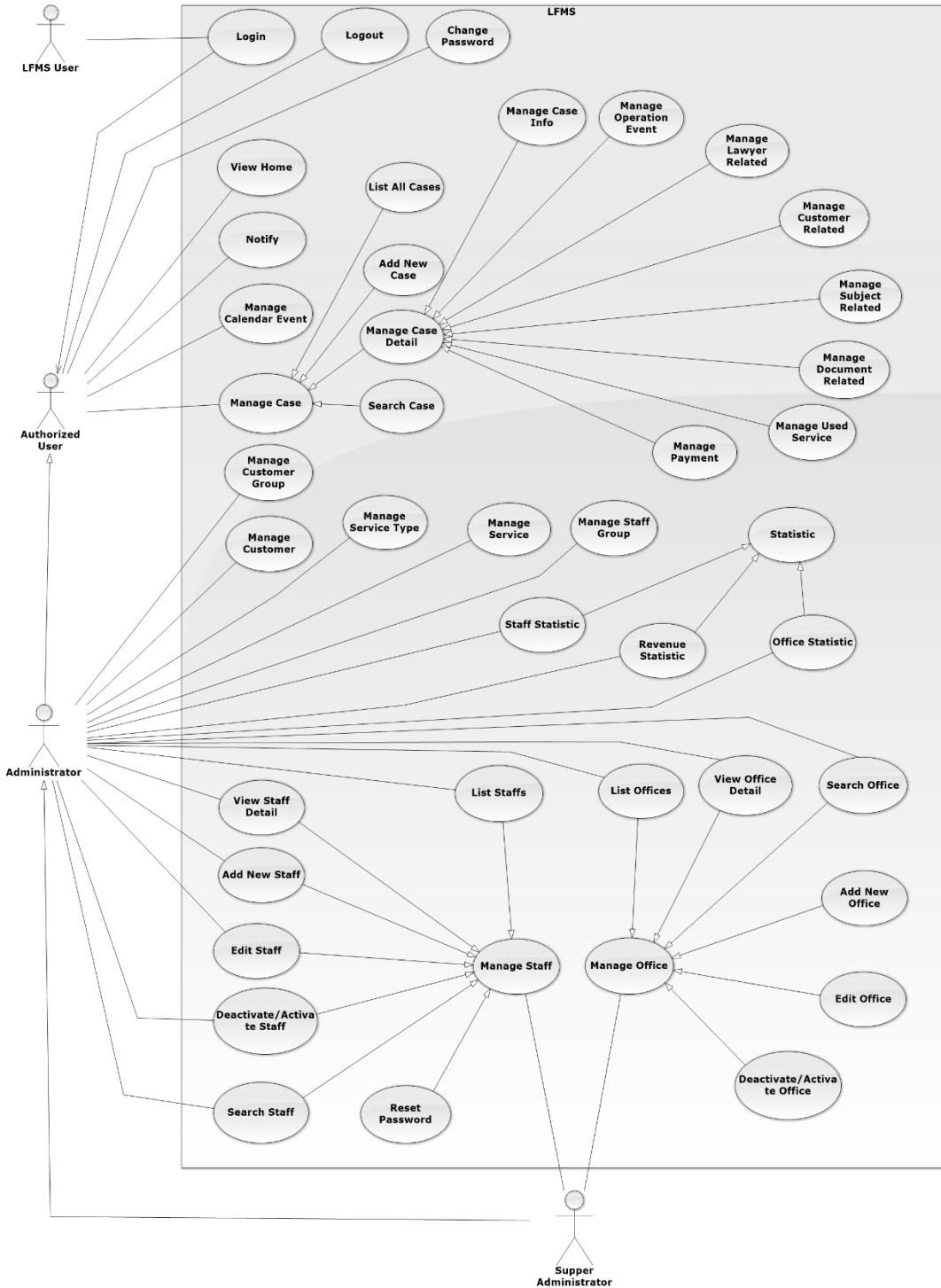


Figure 3-1: Overview Use-Case Diagram

3.2.2.1. UC0001 - Login

3.2.2.1.1. Use-Case Diagram



Figure 3-2: Login Use-Case Diagram

3.2.2.1.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0001	Use-case Version	1.0
Use-case Name	Login		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Staff.			
Summary: This use case allows staff to log on into the system.			
Goal: Authenticate user.			
Triggers: User access website area that is intended staff.			
Preconditions: User has an account and has not logged in yet.			
Post Conditions: Success: User logged in. System redirects user to “Home” page. Failure: System redirects to “Login” page.			

Main Success Scenario:		
Step	User	System
1	User go to website page	Website will show [Login] page
2	User input information into username field and password field	
3	Presses “Đăng nhập” button or click “Enter” key	Checks username and password. Redirect to “Home” page. [Exception 1] [Exception 2]

Alternative Scenario:		
N/A		

Exceptions:		
#	User	System
1	Presses “Login” button. If invalid username or password.	System redirect to “Login” page and display error message “Tên đăng nhập hoặc mật khẩu không đúng!”
2	Presses “Login” button. If have error when connect database	System redirect to “Login” page and display error message “Lỗi kết nối đến máy chủ!”

Relationships:		
N/A		

Business Rules:		
<ul style="list-style-type: none"> - Password must be longer than 6 characters 		

3.2.2.2. UC0002 - Logout

3.2.2.2.1. Use-Case Diagram

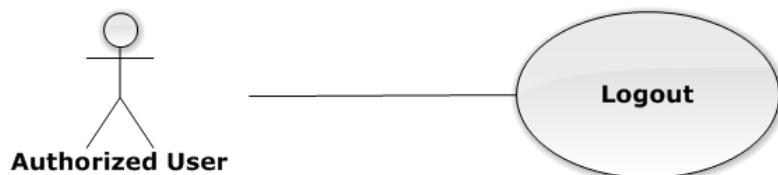


Figure 3-3: Logout Use-Case Diagram

3.2.2.2.2. Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC0003	Use-case Version	1.0						
Use-case Name	Logout								
Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
<p>Actor: Authorized User.</p> <p>Summary: This use case allows staff to logout the system.</p> <p>Goal: The users can log out successful from their roles.</p> <p>Triggers: Staff click on “Đăng xuất” on User Control Panel.</p> <p>Preconditions: Staff has logged in to the website.</p> <p>Post Conditions: Success: Back to login screen Failure: An error message is displayed.</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Staff click “Đăng xuất” button on User Control Panel</td><td>The user name of user will be disappeared on website, Redirect to “Login” page.</td></tr> </tbody> </table> <p>Alternative Scenario: N/A</p> <p>Exceptions: N/A</p>				Step	User	System	1	Staff click “Đăng xuất” button on User Control Panel	The user name of user will be disappeared on website, Redirect to “Login” page.
Step	User	System							
1	Staff click “Đăng xuất” button on User Control Panel	The user name of user will be disappeared on website, Redirect to “Login” page.							

Relationships:

N/A

Business Rules:

N/A

3.2.2.3. UC0004 - Change Password

3.2.2.3.1. Use-Case Diagram

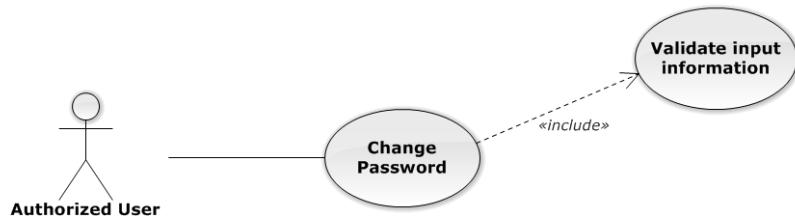


Figure 3-4: Change Password Use-Case Diagram

3.2.2.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0005	Use-case Version	1.0
Use-case Name	Change Password		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User.		
Summary:	This use case allows staff can change password of them.		
Goal:			

<p>Change password.</p> <p>Triggers:</p> <p>User access website area and click on “Đổi mật khẩu”.</p> <p>Preconditions:</p> <p>User has logged in.</p> <p>Post Conditions:</p> <p>Success: The password is changed and display message “Cập nhật mật khẩu nhân viên thành công!”</p> <p>Failure: Password is not changed. Display error message.</p> <p>Main Success Scenario:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Step</th><th style="text-align: center; padding: 5px;">User</th><th style="text-align: center; padding: 5px;">System</th></tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">1</td><td style="padding: 5px;">Staff has logged in, click on “Đổi mật khẩu” on User Control Panel.</td><td style="padding: 5px;">Modal Popup “Thay đổi mật khẩu” is display with three fields: “Mật khẩu cũ”, “Mật khẩu mới” and “Lặp lại mật khẩu mới”. Two button “Đóng”, “Đổi mật khẩu”</td></tr> <tr> <td style="text-align: center; padding: 5px;">2</td><td style="padding: 5px;">User input information, Click “Đổi mật khẩu” button [Alternative 1] [Exception 1]</td><td style="padding: 5px;">Check information validity and change password</td></tr> </tbody> </table> <p>Alternative Scenario:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">#</th><th style="text-align: center; padding: 5px;">User</th><th style="text-align: center; padding: 5px;">System</th></tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">1</td><td style="padding: 5px;">Click on [X] button, “Đóng” button, or click out of modal</td><td style="padding: 5px;">Modal popup is close</td></tr> </tbody> </table> <p>Exceptions:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">#</th><th style="text-align: center; padding: 5px;">User</th><th style="text-align: center; padding: 5px;">System</th></tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">1</td><td style="padding: 5px;">Field “Mật khẩu cũ” are blank</td><td style="padding: 5px;">Shows error message “Hãy nhập lại mật khẩu cũ”</td></tr> <tr> <td style="text-align: center; padding: 5px;"></td><td style="padding: 5px;">Field “Mật khẩu mới”, are blank</td><td style="padding: 5px;">Shows error message “Hãy nhập mật khẩu mới”</td></tr> <tr> <td style="text-align: center; padding: 5px;"></td><td style="padding: 5px;">Field “Lặp lại mật khẩu mới” are blank</td><td style="padding: 5px;">Shows error message “Hãy nhập lại mật khẩu mới”</td></tr> </tbody> </table>	Step	User	System	1	Staff has logged in, click on “Đổi mật khẩu” on User Control Panel.	Modal Popup “Thay đổi mật khẩu” is display with three fields: “Mật khẩu cũ”, “Mật khẩu mới” and “Lặp lại mật khẩu mới”. Two button “Đóng”, “Đổi mật khẩu”	2	User input information, Click “Đổi mật khẩu” button [Alternative 1] [Exception 1]	Check information validity and change password	#	User	System	1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close	#	User	System	1	Field “Mật khẩu cũ” are blank	Shows error message “Hãy nhập lại mật khẩu cũ”		Field “Mật khẩu mới”, are blank	Shows error message “Hãy nhập mật khẩu mới”		Field “Lặp lại mật khẩu mới” are blank	Shows error message “Hãy nhập lại mật khẩu mới”
Step	User	System																									
1	Staff has logged in, click on “Đổi mật khẩu” on User Control Panel.	Modal Popup “Thay đổi mật khẩu” is display with three fields: “Mật khẩu cũ”, “Mật khẩu mới” and “Lặp lại mật khẩu mới”. Two button “Đóng”, “Đổi mật khẩu”																									
2	User input information, Click “Đổi mật khẩu” button [Alternative 1] [Exception 1]	Check information validity and change password																									
#	User	System																									
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close																									
#	User	System																									
1	Field “Mật khẩu cũ” are blank	Shows error message “Hãy nhập lại mật khẩu cũ”																									
	Field “Mật khẩu mới”, are blank	Shows error message “Hãy nhập mật khẩu mới”																									
	Field “Lặp lại mật khẩu mới” are blank	Shows error message “Hãy nhập lại mật khẩu mới”																									

	Input to field “Mật khẩu cũ”, “Mật khẩu mới” and field “Lặp lại mật khẩu mới” regular expression.	Shows error message “Mật khẩu không được có kí tự đặc biệt”
	Input to field “Mật khẩu mới ” and field “Lặp lại mật khẩu mới ” not enough 6 character	Shows error message “Mật khẩu mới phải có ít nhất 6 kí tự”
	Input to field “Mật khẩu mới ” and field “Lặp lại mật khẩu mới ” are different	Shows error message “Mật khẩu 2 không trùng khớp”
	Input to field “Mật khẩu cũ” not the same with database	Shows error message “Mật khẩu cũ không đúng!”.

Relationships:
N/A

Business Rules:

- Password must be longer than 6 characters

3.2.2.4. UC0006 - View Home

3.2.2.4.1. Use-Case Diagram



Figure 3-5: View Home Use-Case Diagram

3.2.2.4.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0007	Use-case Version	1.0
Use-case Name	View Home		

Capstone Project: LFMS

Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
Actor: Authorized User									
Summary: User must be Login before and then redirect them to “Trang Chủ” page.									
Goal: To allowing user to view some information of all Cases, which is operating and assigned by Staff related.									
Triggers: <ul style="list-style-type: none"> User click on logo LFMS Click on “Trang Chủ” link. 									
Preconditions: <ul style="list-style-type: none"> Must be logged-in The page is fully loaded 									
Post Conditions: Success: System redirect user to “Trang Chủ” page and list cases Failure: Do nothing.									
Main Success Scenario: <table border="1"> <thead> <tr> <th>Step</th> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Click on logo LFMS or “Trang Chủ” link</td> <td> <ul style="list-style-type: none"> Redirect to “Trang Chủ” page List Cases by Office filter </td> </tr> </tbody> </table>				Step	User	System	1	Click on logo LFMS or “Trang Chủ” link	<ul style="list-style-type: none"> Redirect to “Trang Chủ” page List Cases by Office filter
Step	User	System							
1	Click on logo LFMS or “Trang Chủ” link	<ul style="list-style-type: none"> Redirect to “Trang Chủ” page List Cases by Office filter 							
Alternative Scenario: N/A									
Exceptions: N/A									
Relationships: N/A									

Business Rules:

N/A

3.2.2.5. UC0008 - Notify

3.2.2.5.1. Use-Case Diagram



Figure 3-6: Notify Use-Case Diagram

3.2.2.5.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0009	Use-case Version	1.0
Use-case Name	Notify		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Authorized User			
Summary: User must be login before and then the system will be show notification in navigation bar.			
Goal: User can see all Today's events.			
Triggers: The notification is always to show.			

<p>Preconditions:</p> <ul style="list-style-type: none">• Must be logged-in• The page is fully loaded <p>Post Conditions:</p> <p>Success: Show to user Failure: Do nothing.</p> <p>Main Success Scenario:</p> <table border="1"><thead><tr><th>Step</th><th>User</th><th>System</th></tr></thead><tbody><tr><td>1</td><td>Login into the system</td><td>User can see notification about all Today's events</td></tr></tbody></table> <p>Alternative Scenario:</p> <p>N/A</p> <p>Exceptions:</p> <p>N/A</p> <p>Relationships:</p> <p>N/A</p> <p>Business Rules:</p> <p>N/A</p>	Step	User	System	1	Login into the system	User can see notification about all Today's events
Step	User	System				
1	Login into the system	User can see notification about all Today's events				

3.2.2.6. Manage Calendar Event

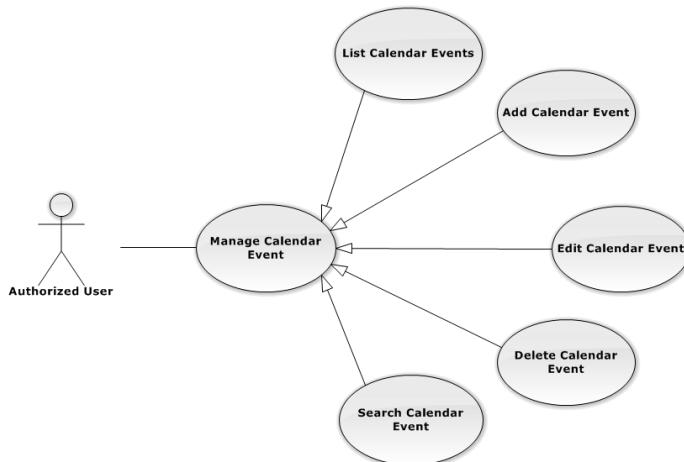


Figure 3-7: Manage Calendar Event Use-Case Diagram

3.2.2.6.1. UC0010 - List Calendar Events

3.2.2.6.1.1. Events Use-Case Diagram



Figure 3-8: List Calendar Event Use-Case Diagram

3.2.2.6.1.2. Events Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0011	Use-case Version	1.0
Use-case Name	List Calendar Events		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Authorized User.			
Summary: List All Calendar Event.			
Goal: The purpose of List Calendar Event use case is allowing User to view all Events in full-calendar.			
Triggers: User choose “Lịch làm việc” tab in Homepage.			
Preconditions: User is authenticated.			
Post Conditions:			

Success: All Calendar Events are listed. Failure: N/A						
Main Success Scenario:						
<table border="1"><thead><tr><th>Step</th><th>User</th><th>System</th></tr></thead><tbody><tr><td>1</td><td>Click “Lịch làm việc” tab in home page.</td><td>All Calendar Events are loaded.</td></tr></tbody></table>	Step	User	System	1	Click “Lịch làm việc” tab in home page.	All Calendar Events are loaded.
Step	User	System				
1	Click “Lịch làm việc” tab in home page.	All Calendar Events are loaded.				
Alternative Scenario:						
N/A						
Exceptions:						
N/A						
Relationships:						
Manage Calendar Event						
Business Rules:						
N/A						

3.2.2.6.2. UC0012 - Add New Calendar Event

3.2.2.6.2.1. Use-Case Diagram



Figure 3-9: Add New Calendar Event

3.2.2.6.2.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0013	Use-case Version	1.0

Capstone Project: LFMS

Use-case Name	Add New Calendar Event														
Author	Trần Anh Tuấn														
Date	09/10/2014	Priority	Normal												
Actor: Authorized User.															
Summary: Add new Calendar Event.															
Goal: The purpose of Add Calendar Event use case is allowing User to add new Calendar Event.															
Triggers: User choose “Lịch làm việc” tab in home page.															
Preconditions: User is authenticated.															
Post Conditions: Success: New Calendar Event is created. Failure: N/A															
Main Success Scenario:															
<table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click anywhere in calendar.</td><td>Show Add new calendar event pop-up.</td></tr> <tr> <td>2</td><td>Enters the Calendar Event Name</td><td></td></tr> <tr> <td>3</td><td>Presses “Thêm Sự kiện” button. [Alternative: 1]</td><td>Add new Calendar Event to database.</td></tr> </tbody> </table>				Step	User	System	1	Click anywhere in calendar.	Show Add new calendar event pop-up.	2	Enters the Calendar Event Name		3	Presses “Thêm Sự kiện” button. [Alternative: 1]	Add new Calendar Event to database.
Step	User	System													
1	Click anywhere in calendar.	Show Add new calendar event pop-up.													
2	Enters the Calendar Event Name														
3	Presses “Thêm Sự kiện” button. [Alternative: 1]	Add new Calendar Event to database.													
Alternative Scenario:															
<table border="1"> <thead> <tr> <th>#</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Presses “Đóng”, “X” button or click outside pop-up.</td><td>The Add New Calendar event pop-up is close.</td></tr> </tbody> </table>				#	User	System	1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Calendar event pop-up is close.						
#	User	System													
1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Calendar event pop-up is close.													
Exceptions:															

N/A
Relationships:
Manage Calendar Event
Business Rules:
N/A

3.2.2.6.3. UC0014 - Edit Calendar Event

3.2.2.6.3.1. Use-Case Diagram



Figure 3-10: Edit Calendar Event Use-Case Diagram

3.2.2.6.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0015	Use-case Version	1.0
Use-case Name	Edit Calendar Event		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User.		

Capstone Project: LFMS

Summary:

Update Calendar Event.

Goal:

The purpose of Update Calendar Event use case is allowing User to edit Calendar Event.

Triggers:

User choose “Lịch làm việc” tab in Homepage.

Preconditions:

User is authenticated.

Post Conditions:

Success: The Calendar Event is Updated.

Failure: N/A

Main Success Scenario:

Step	User	System
1	Click at an exist event.	Show edit calendar event pop-up.
2	Enters the new Calendar Event Name	
3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Update Calendar event to database.
1	Drag and drop an exist event.	Update Calendar event to database.
1	Reside an exist event.	Update Calendar event to database.

Alternative Scenario:

#	User	System
1	Presses “Đóng”, “X” button or click outside pop-up.	The Update Clendar event pop-up is close.

Exceptions:

N/A

Relationships:

Manage Calendar Event

Business Rules:

N/A

3.2.2.6.4. UC0009 - Delete Calendar Event

3.2.2.6.4.1. Use-Case Diagram



Figure 3-11: Delete Calendar Event Use-Case Diagram

3.2.2.6.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0016	Use-case Version	1.0
Use-case Name	Delete Calendar Event		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User.		
Summary:	Delete Calendar Event.		
Goal:	The purpose of Delete Calendar Event use case is allowing User to delete Calendar Event.		

Capstone Project: LFMS

Triggers: User choose “Lịch làm việc” tab in Homepage.									
Preconditions: User is authenticated.									
Post Conditions: Success: The Calendar Event is deleted. Failure: N/A									
Main Success Scenario: <table border="1"><thead><tr><th>Step</th><th>User</th><th>System</th></tr></thead><tbody><tr><td>1</td><td>Click at an exist event.</td><td>Show confirm pop-up</td></tr><tr><td>2</td><td>Presses “Xóa sự kiện” button. [Alternative: 1]</td><td>Delete Calendar Event from database.</td></tr></tbody></table>	Step	User	System	1	Click at an exist event.	Show confirm pop-up	2	Presses “Xóa sự kiện” button. [Alternative: 1]	Delete Calendar Event from database.
Step	User	System							
1	Click at an exist event.	Show confirm pop-up							
2	Presses “Xóa sự kiện” button. [Alternative: 1]	Delete Calendar Event from database.							
Alternative Scenario: <table border="1"><thead><tr><th>#</th><th>User</th><th>System</th></tr></thead><tbody><tr><td>1</td><td>Presses “Đóng”, “X” button or click outside pop-up.</td><td>The confirm pop-up is close.</td></tr></tbody></table>	#	User	System	1	Presses “Đóng”, “X” button or click outside pop-up.	The confirm pop-up is close.			
#	User	System							
1	Presses “Đóng”, “X” button or click outside pop-up.	The confirm pop-up is close.							
Exceptions: N/A									
Relationships: Manage Calendar Event									
Business Rules: N/A									

3.2.2.6.5. UC0017 - Search Calendar Event

3.2.2.6.5.1. Use-Case Diagram



Figure 3-12: Search Calendar Event Use-Case Diagram

3.2.2.6.5.2. Use-Case Specification

USE CASE SPECIFICATION												
Use-case No.	UC0018	Use-case Version	1.0									
Use-case Name	Search Calendar Event											
Author	Trần Anh Tuấn											
Date	09/10/2014	Priority	Normal									
Actor: Authorized User.												
Summary: Show all Calendar Event of a Staff.												
Goal: The purpose of Search Calendar Event use case is allowing User to view Calendar event of other staff.												
Triggers: Click at “Lịch làm việc luật sư khác” button.												
Preconditions: User is authenticated.												
Post Conditions: Success: The Calendar Event is showed. Failure: Do nothing.												
Main Success Scenario: <table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click at “Lịch làm việc luật sư khác” button.</td><td>Show helper frame.</td></tr> <tr> <td>2</td><td>Choose a staff in combo-box</td><td>Show al Calendar Event of these Staff.</td></tr> </tbody> </table>				Step	User	System	1	Click at “Lịch làm việc luật sư khác” button.	Show helper frame.	2	Choose a staff in combo-box	Show al Calendar Event of these Staff.
Step	User	System										
1	Click at “Lịch làm việc luật sư khác” button.	Show helper frame.										
2	Choose a staff in combo-box	Show al Calendar Event of these Staff.										

Alternative Scenario: N/A
Exceptions: N/A
Relationships: Manage calendar event
Business Rules: N/A

3.2.2.7. Manage Case

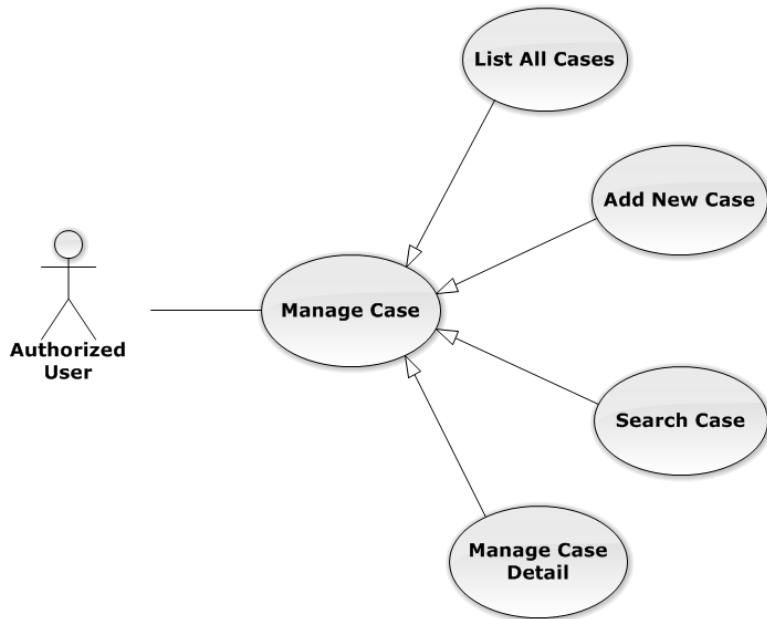


Figure 3-13: Manage Case Use-Case Diagram

3.2.2.7.1. UC0019 - List All Cases

3.2.2.7.1.1. Use-Case Diagram

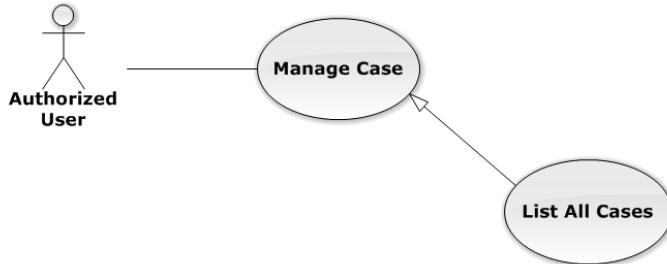


Figure 3-14: List All Cases Use-Case Diagram

3.2.2.7.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0020	Use-case Version	1.0
Use-case Name	List All Cases		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Authorized User			
Summary: Redirect to “Danh sách hồ sơ” page and list all cases.			
Goal: To allowing customer to view any detail information of all Cases			
Triggers: <ul style="list-style-type: none">User click on User Control Panel and then click on “Danh sách hồ sơ” linkClick on “Danh sách hồ sơ” link in Case Detail of each Case			
Preconditions:			

Capstone Project: LFMS

- Must be logged-in
- The page is fully loaded

Post Conditions:

Success: System redirects user to “Danh sách hồ sơ” page.

Failure: Do nothing.

Main Success Scenario:

Step	User	System
1	Click on “Danh sách hồ sơ” link	<ul style="list-style-type: none">• Redirect to “Danh sách hồ sơ” page• Show all Cases by searching condition

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Case

Business Rules:

N/A

3.2.2.7.2. UC0021 - Add New Case

3.2.2.7.2.1. Use-Case Diagram

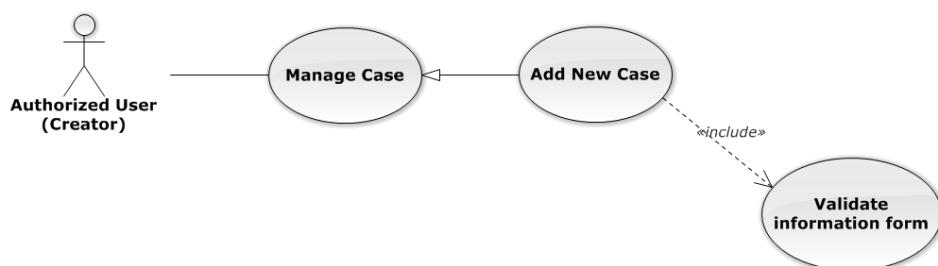


Figure 3-15: Add New Case Use-Case Diagram

3.2.2.7.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0022	Use-case Version	1.0
Use-case Name	Add New Case		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	High
<p>Actor: Authorized User have “Creator” role</p> <p>Summary: Staff can add new case by input data on form modal</p> <p>Goal: Helps Staff input information of a case when they add new one</p> <p>Triggers: Staff click on “Thêm mới” button in modal</p> <p>Preconditions:</p> <ul style="list-style-type: none"> • Must be logged-in with “Creator” role • The page is fully loaded <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> • Add new case successful • Add current Staff to Lawyer Related of the new Case • Redirect to view detail page of new case <p>Failure: System display error message “Thêm hồ sơ thất bại!”</p> <p>Main Success Scenario:</p>			

Step	User	System
1	<ul style="list-style-type: none"> Staff click on icon-plus button in “Trang chủ” page Click on “Thêm hồ sơ tác nghiệp” button in “Danh sách hồ sơ” page 	Modal popup is displayed with fields for input information of new case
2	Input corresponding information in form then click “Thêm mới” button [Alternative 1] [Exception 1]	<ul style="list-style-type: none"> Modal popup is close System display successful message “Thêm hồ sơ thành công!” Update list case on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	Leave empty require fields then click on “Thêm mới” button	Modal popup display validation for needed to input field

Relationships:
Manage Case

Business Rules:

- Authorized User must have “Creator” role to use this function
- After create case successfully, system will be automatically assign Creator into that new case

3.2.2.7.3. UC0023 - Search Case

3.2.2.7.3.1. Use-Case Diagram

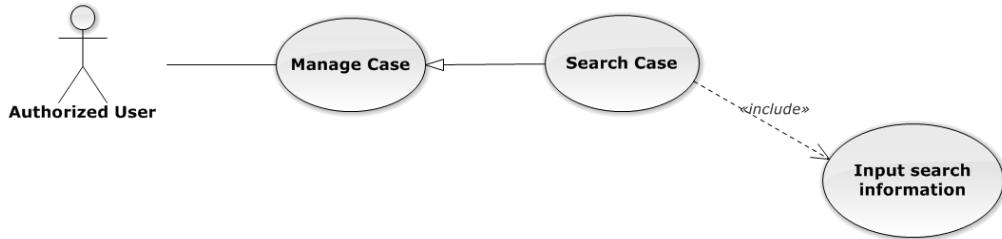


Figure 3-16: Search Case Use-Case Diagram

3.2.2.7.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0024	Use-case Version	1.0
Use-case Name	Search Case		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User		
Summary:	Staff can search Cases by multi condition		
Goal:	Helps Staff to search Cases of system more easy		
Triggers:	Staff inputs key words on “Tìm kiếm” textbox at the top right of case list table to search follow key words inputted. When the key up, system will be automatic search.		
Preconditions:	<ul style="list-style-type: none"> • Must be logged-in 		

Capstone Project: LFMS

- The page is fully loaded
- Inputs key words on “Tìm kiếm” textbox

Post Conditions:

Success: Cases of the system are displayed page by page

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	Input key words into textbox and then key up [Alternative 1] [Alternative 2] [Alternative 3]	Display cases matches key words and multi condition

Alternative Scenario:

#	User	System
1	Select number result in page	Display many cases follow number result in page
2	Click on another page number	Display many cases result in another page
3	Click on “Mã hồ sơ” link	Redirect to view Case detail

Exceptions:

N/A

Relationships:

Manage Case

Business Rules:

N/A

3.2.2.7.4. Manage Case Detail

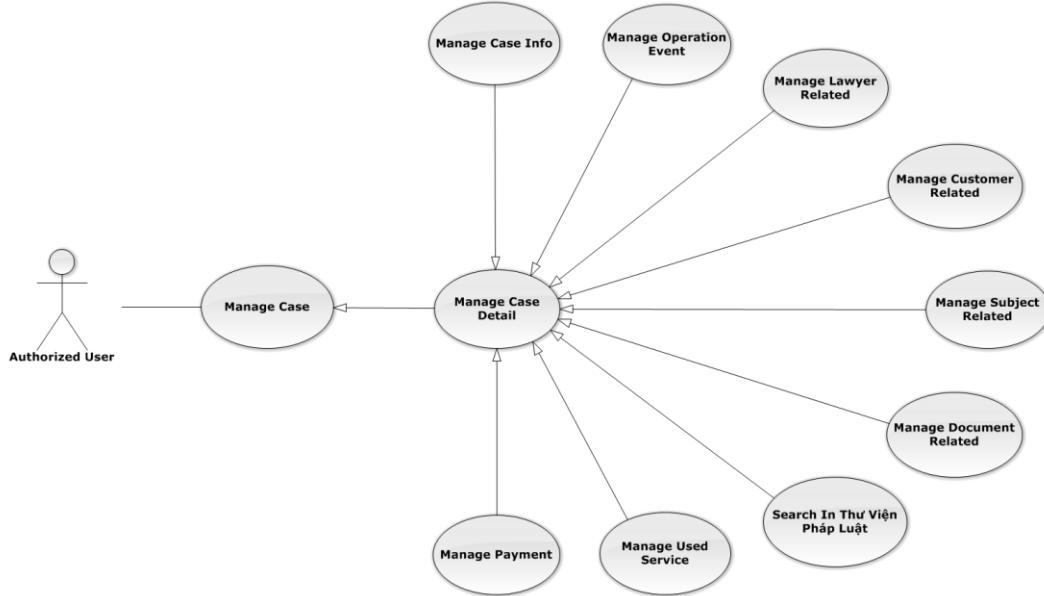


Figure 3-17: Manage Case Detail Use-Case Diagram

3.2.2.7.4.1. Manage Case Info

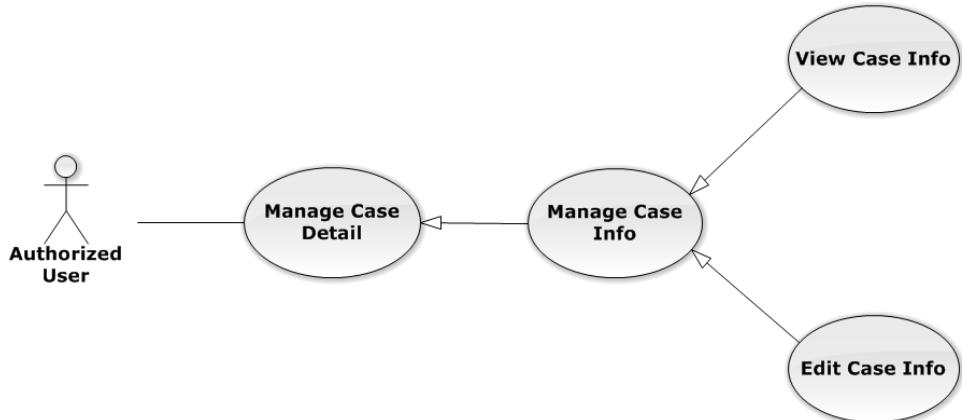


Figure 3-18: Manage Case Info Use-Case Diagram

3.2.2.7.4.1.1. UC0025 - View Case Info

3.2.2.7.4.1.1.1. Use-Case Diagram

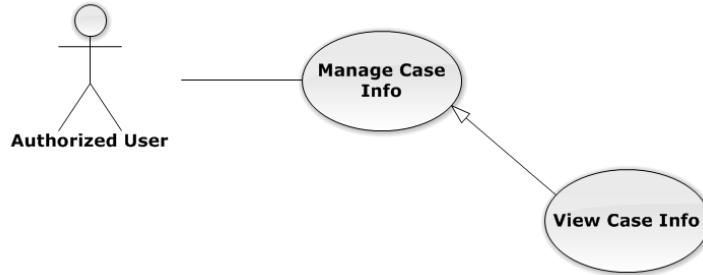


Figure 3-19: View Case Info Use-Case Diagram

3.2.2.7.4.1.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0026	Use-case Version	1.0
Use-case Name	View Case Info		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User		
Summary:	Staff can view current case's information		
Goal:	Helps staff to get detail and main content of the case quickly		
Triggers:	<ul style="list-style-type: none"> • Staff click on “Mã hồ sơ” link in “Danh sách hồ sơ” • Staff click on big button corresponding with each case on “Trang chủ” 		
Preconditions:			

- Must be logged-in
- The page is fully loaded
- Must be in Case Detail page

Post Conditions:

Success: The case's detail is displayed correctly and successfully

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	<ul style="list-style-type: none"> • Staff click on “Mã hồ sơ” link in “Danh sách hồ sơ” • Staff click on big button on “Trang chủ” 	<ul style="list-style-type: none"> • System redirect to Case Detail page • Show detail of main case content

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Case Info

Business Rules:

N/A

3.2.2.7.4.1.2. UC0027 - Edit Case Info

3.2.2.7.4.1.2.1. Use-Case Diagram

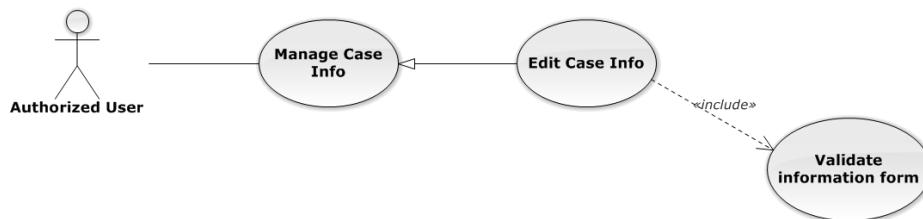


Figure 3-20: Edit Case Info Use-Case Diagram

3.2.2.7.4.1.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0028	Use-case Version	1.0
Use-case Name	Edit Case Info		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Authorized User who is assigned in current case			
Summary: Staff can edit and update case detail			
Goal: Helps Staff easy to update case information			
Triggers: Staff click on “Lưu chỉnh sửa” button			
Preconditions: <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Case Detail page • Click on edit icon beside “Thông tin chung” label before and the case have “Đang thụ lý” status 			
Post Conditions: <p>Success: The case detail will be updated and system display message “Cập nhật chi tiết hồ sơ thành công!”</p> <p>Failure: System display message “Cập nhật chi tiết hồ sơ thất bại!”</p>			
Main Success Scenario:			

Capstone Project: LFMS

Step	User	System
1	Click on edit icon beside “Thông tin chung” label [Exception 1]	<ul style="list-style-type: none"> All off fields will enable to input “Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is display
2	Input information and then click “Lưu chỉnh sửa” button [Alternative 1] [Exception 2]	<ul style="list-style-type: none"> The case detail will be updated System display message “Cập nhật chi tiết hồ sơ thành công!” All off fields will disable “Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is hidden

Alternative Scenario:

#	User	System
1	Click on “Hủy chỉnh sửa” button	<ul style="list-style-type: none"> The case detail will be reloaded All off fields will disable “Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is hidden

Exceptions:

#	User	System
1	Click on edit icon when the case have “Đã thụ lý” status	System display message “Hồ sơ đã thụ lý!”
2	Leave empty require fields then click on “Lưu chỉnh sửa” button	Display validation message for needed to input field

Relationships:
Manage Case Info

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.2. Manage Operation Event

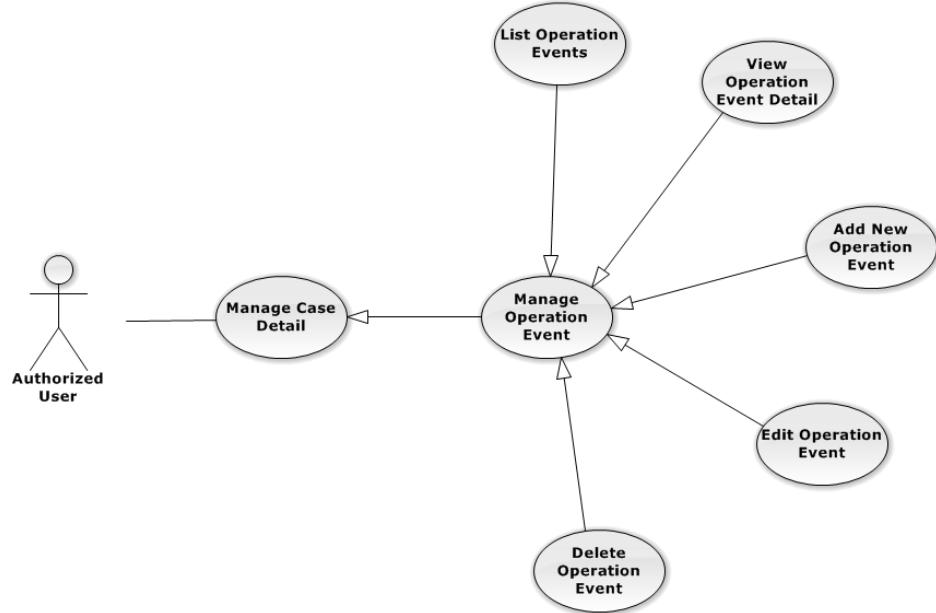


Figure 3-21: Manage Operation Event Use-Case Diagram

3.2.2.7.4.2.1. UC0029 - List Operation Events

3.2.2.7.4.2.1.1. Use-Case Diagram



Figure 3-22: List Operation Events Use-Case Diagram

3.2.2.7.4.2.1.2. Use-Case Specification

USE-CASE SPECIFICATION									
Use-case No.	UC0030	Use-case Version	1.0						
Use-case Name	List Operation Events								
Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
Actor: Authorized User									
Summary: Show all event of case.									
Goal: Help staff to view all event of case.									
Triggers: User click on “Sự kiện” link in Case Detail page									
Preconditions: <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Case Detail page 									
Post Conditions: <p>Success: List all event in current case</p> <p>Failure: Do nothing</p>									
Main Success Scenario: <table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on “Sự kiện” link</td><td>Show all event in current case</td></tr> </tbody> </table>				Step	User	System	1	Click on “Sự kiện” link	Show all event in current case
Step	User	System							
1	Click on “Sự kiện” link	Show all event in current case							
Alternative Scenario: N/A									

<p>Exceptions: N/A</p> <p>Relationships: Manage Operation Event</p> <p>Business Rules: N/A</p>

3.2.2.7.4.2.2. UC0031 - View Operation Event Detail

3.2.2.7.4.2.2.1. Use-Case Diagram



Figure 3-23: View Operation Event Detail Use-Case Diagram

3.2.2.7.4.2.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0032	Use-case Version	1.0
Use-case Name	View operation event detail		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Authorized User			
Summary: Staff can view detail of event information			

Goal:

Helps staff to view event information

Triggers:

- Staff click on “Sự kiện” link
- Click on one event
- Click on “Mở rộng” button

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in Lawyer related page

Post Conditions:

Success: The detail event information is displayed

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	Staff click on event day's link [Alternative 1], [Alternative 2]	The detail event information is displayed

Alternative Scenario:

#	User	System
1	Click on “Mở rộng” button	Display detail of all event of current case
2	Click on “Thu nhỏ” button	Close all detail event of current case, back to list event screen.

Exceptions:

N/A

Relationships:

Manage Operation Event

Business Rules:

N/A

3.2.2.7.4.2.3. UC0033 - Add New Operation Event

3.2.2.7.4.2.3.1. Use-Case Diagram



Figure 3-24: Add New Operation Event Use-Case Diagram

3.2.2.7.4.2.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0034	Use-case Version	1.0
Use-case Name	Add New Operation Event		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	High
Actor: Authorized User, who is assigned in current case			
Summary: Staff can add new event into Case			
Goal: Helps Staff create event into Case			
Triggers: <ul style="list-style-type: none">• Staff click on “Sự kiện” link in Case Detail page• Click on edit icon beside “Sự kiện tác nghiệp” button• Click on “Thêm mới” button to add new event to current case.			
Preconditions:			

- Must be logged-in
- The page is fully loaded
- Must be in event page
- Click on edit icon beside “Sự kiện tác nghiệp” label before

Post Conditions:

Success:

- At new event into current Case
- Show message successfully: “Thêm sự kiện thành công!”

Failure: System display error message “Thêm sự kiện thất bại!”, “hãy kiểm tra lại kết nối database!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Sự kiện tác nghiệp” label	Form, “Thêm sự kiện” and “Hoàn thành” button is display
2	Click on the “Thêm sự kiện” button	Input form display , “Đóng” and “Tạo sự kiện” button is display
3	Input information into fields and click button “Hoàn thành” button [Alternative 1], [Exception 1]	System display message “Thêm sự kiện thành công!”

Alternative Scenario:

#	User	System
1	Click on “Đóng” button	Input form close back to list all event screen.

Exceptions:

#	User	System
1	System cannot insert event to data base.	Shows error message “Tạo sự kiện thất bại, hãy kiểm tra lại kết nối database”.

Relationships:

Manage Operation Event

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.2.4. UC0035 - Edit Operation Event

3.2.2.7.4.2.4.1. Use-Case Diagram



Figure 3-25: Edit Operation Event Use-Case Diagram

3.2.2.7.4.2.4.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0036	Use-case Version	1.0
Use-case Name	Edit Operation Event		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Authorized User, who is assigned in current case			
Summary: Staff can update event into Case			
Goal: Helps Staff update event into Case			
Triggers: <ul style="list-style-type: none">• Staff click on “Sự kiện” link in Case Detail page• Click on edit icon beside “Sự kiện tác nghiệp” button• Click on “Edit” button to update event.			

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in event page
- Click on edit icon beside “Sự kiện tác nghiệp” label before

Post Conditions:

Success:

- Update event into current Case
- Show message successfully: “Sửa sự kiện thành công!”

Failure: System display error message “Sửa sự kiện thất bại!”, “hãy kiểm tra lại kết nối database!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Sự kiện tác nghiệp” label	List all event in current case, “Edit” and “Delete” icon is display, “Thêm sự kiện” and “Hoàn thành” button is display
2	Click on the “Edit” button	Input form display , “Đóng” and “Lưu chỉnh sửa” button is display
3	Edit information into fields and click button “Lưu chỉnh sửa” button [Alternative 1] , [Exception 1]	System display message “Sửa sự kiện thành công!”

Alternative Scenario:

#	User	System
1	Click on “Đóng” button	Input form close back to list all event screen.

Exceptions:

#	User	System
1	While edit information of event click edit icon beside “Sự kiện tác nghiệp” button	Shows error message “Chỉnh sửa chưa hoàn thành! Hãy lưu hoặc đóng chỉnh sửa”.
	System cannot insert event to database.	Shows error message “Chỉnh sửa sự kiện thất bại, hãy kiểm tra lại kết nối database”.

Relationships:

Manage Operation Event

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.2.5. UC0037 - Delete Operation Event

3.2.2.7.4.2.5.1. Use-Case Diagram

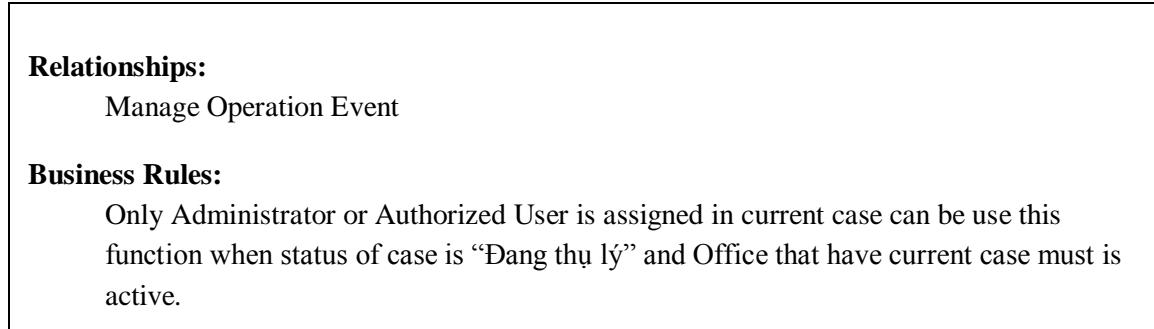


Figure 3-26: Delete Operation Event Use-Case Diagram

3.2.2.7.4.2.5.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0038	Use-case Version	1.0
Use-case Name	Delete Operation Event		
Author	Trần Anh Tuân		
Date	09/10/2014	Priority	Normal

<p>Actor: Authorized User, who is assigned in current case</p> <p>Summary: Staff can remove Event in Case</p> <p>Goal: Helps Staff remove Event in Case</p> <p>Triggers: Staff click on delete icon in the end table list</p> <p>Preconditions:</p> <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Lawyer related page • Click on edit icon beside “Sự kiện tác nghiệp” label before <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> • Remove the Event out of current Case • Show message remove successfully: “Xóa sự kiện thành công!” <p>Failure: System display error message “Xóa sự kiện thất bại!”</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on edit icon beside “Sự kiện tác nghiệp” label</td><td>Icon delete is display</td></tr> <tr> <td>2</td><td>Click on icon delete corresponding with Event want to remove</td><td>Show a modal popup to confirm</td></tr> <tr> <td>3</td><td>Click on “Xác nhận” button [Alternative 1]</td><td>System display message “Xóa sự kiện thành công!”</td></tr> </tbody> </table> <p>Alternative Scenario:</p> <table border="1"> <thead> <tr> <th>#</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on “Bỏ qua” button</td><td>Modal popup is close and system do not remove the Event</td></tr> </tbody> </table> <p>Exceptions: N/A</p>	Step	User	System	1	Click on edit icon beside “Sự kiện tác nghiệp” label	Icon delete is display	2	Click on icon delete corresponding with Event want to remove	Show a modal popup to confirm	3	Click on “Xác nhận” button [Alternative 1]	System display message “Xóa sự kiện thành công!”	#	User	System	1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Event
Step	User	System																
1	Click on edit icon beside “Sự kiện tác nghiệp” label	Icon delete is display																
2	Click on icon delete corresponding with Event want to remove	Show a modal popup to confirm																
3	Click on “Xác nhận” button [Alternative 1]	System display message “Xóa sự kiện thành công!”																
#	User	System																
1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Event																



3.2.2.7.4.3. Manage Lawyer Related

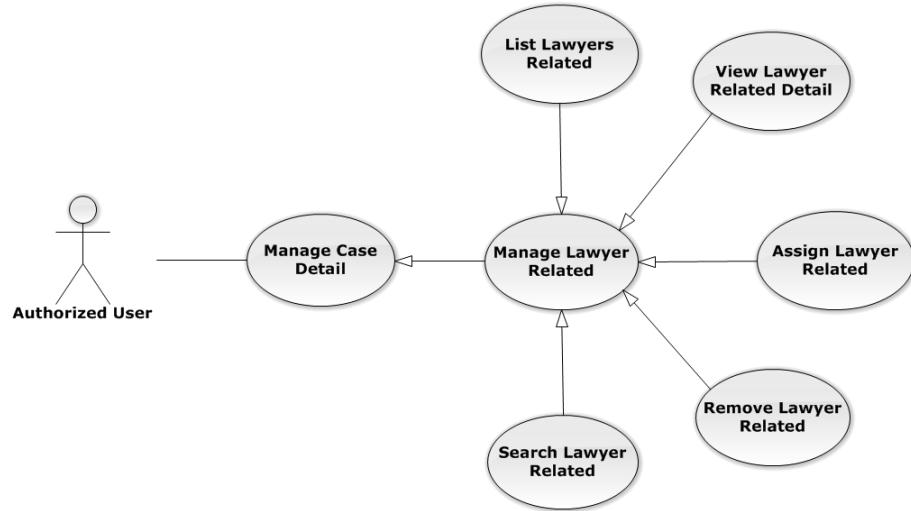


Figure 3-27: Manage Lawyer Related Use-Case Diagram

3.2.2.7.4.3.1. UC0039 - List Lawyers Related

3.2.2.7.4.3.1.1. Use-Case Diagram

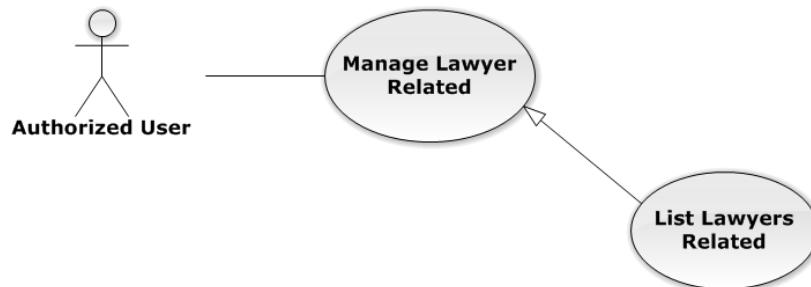


Figure 3-28: List Lawyers Related Use-Case Diagram

3.2.2.7.4.3.1.2. Use-Case Specification

USE-CASE SPECIFICATION									
Use-case No.	UC0040	Use-case Version	1.0						
Use-case Name	List Lawyers Related								
Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
Actor: Authorized User									
Summary: Show all Lawyers, who is assigned in current case									
Goal: Help to view all Lawyers, who is assigned in current case									
Triggers: <ul style="list-style-type: none"> User click on “Người liên quan” link in Case Detail page Click on “Luật sư” link at right top page 									
Preconditions: <ul style="list-style-type: none"> Must be logged-in The page is fully loaded Must be in Case Detail page 									
Post Conditions: Success: List all Staffs is assigned in current case Failure: Do nothing									
Main Success Scenario: <table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on “Người liên quan” link or “Luật sư” link</td><td>Show all Lawyers is assigned in current case</td></tr> </tbody> </table>				Step	User	System	1	Click on “Người liên quan” link or “Luật sư” link	Show all Lawyers is assigned in current case
Step	User	System							
1	Click on “Người liên quan” link or “Luật sư” link	Show all Lawyers is assigned in current case							

Alternative Scenario: N/A
Exceptions: N/A
Relationships: Manage Lawyer Related
Business Rules: N/A

3.2.2.7.4.3.2. UC0041 - View Lawyer Related Detail

3.2.2.7.4.3.2.1. Use-Case Diagram

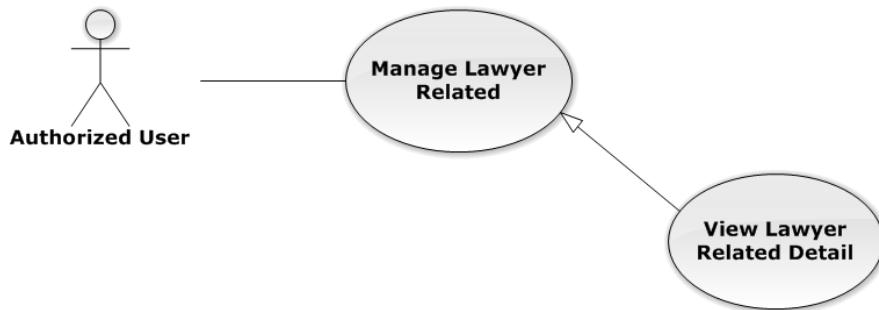


Figure 3-29: View Lawyer Related Detail Use-Case Diagram

3.2.2.7.4.3.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0042	Use-case Version	1.0
Use-case Name	View Lawyer Related Detail		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal

<p>Actor: Authorized User</p> <p>Summary: Staff can view Lawyer related information</p> <p>Goal: Helps staff to view Lawyer related information</p> <p>Triggers:</p> <ul style="list-style-type: none"> • Staff click on “Họ và tên” link • Click on avatar image <p>Preconditions:</p> <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in “Người liên quan” page <p>Post Conditions:</p> <p>Success: The popup modal have lawyer information is displayed Failure: Do nothing</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th>Step</th> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Staff click on “Họ và tên” link or avatar image</td> <td>The popup modal have lawyer information is displayed [Alternative 1]</td> </tr> </tbody> </table> <p>Alternative Scenario:</p> <table border="1"> <thead> <tr> <th>#</th> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Click on [X] button, “Đóng” button, or click out of modal</td> <td>Modal popup is close</td> </tr> </tbody> </table> <p>Exceptions: N/A</p> <p>Relationships: Manage Lawyer Related</p> <p>Business Rules: N/A</p>	Step	User	System	1	Staff click on “Họ và tên” link or avatar image	The popup modal have lawyer information is displayed [Alternative 1]	#	User	System	1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close
Step	User	System										
1	Staff click on “Họ và tên” link or avatar image	The popup modal have lawyer information is displayed [Alternative 1]										
#	User	System										
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close										

3.2.2.7.4.3.3. UC0043 - Assign Lawyer Related

3.2.2.7.4.3.3.1. Use-Case Diagram

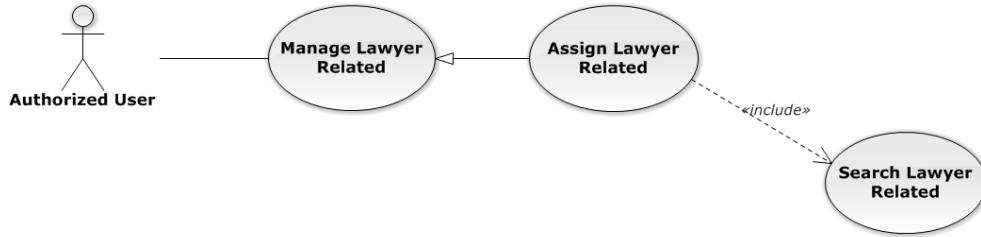


Figure 3-30: Assign Lawyer Related Use-Case Diagram

3.2.2.7.4.3.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0044	Use-case Version	1.0
Use-case Name	Assign Lawyer Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	High
Actor:			
Authorized User, who create the current Case			
Summary:			
Staff can assign Lawyer into Case			
Goal:			
Helps Staff assign any Lawyers into Case			
Triggers:			
Staff click on “Thêm vào danh sách” button after choose Lawyer in search form beside			
Preconditions:			
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded 			

- Must be in “Người liên quan” page
- Click on edit icon beside “Luật sư phụ trách” label and used Search Lawyer Related function before

Post Conditions:

Success:

- Assign the Lawyer in search form to current Case
- Show message assign successfully: “Đã phân công luật sư!”

Failure: System display error message “Phân công luật sư thất bại!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Luật sư phụ trách” label	Search form, “Thêm vào danh sách” and “Hoàn thành” button is display
2	After search and choose a Lawyer, Staff click on “Thêm vào danh sách” button [Alternative 1] [Exception 1] [Exception 2]	System display message “Đã phân công luật sư!”

Alternative Scenario:

#	User	System
1	Click on “Hoàn thành” button	Search form, “Thêm vào danh sách” and “Hoàn thành” button is hidden

Exceptions:

#	User	System
1	Not search lawyer then click on “Thêm vào danh sách” button	Display validation message for needed to search lawyer before: “Hãy chọn 1 luật sư!”
2	Lawyer is exist in list lawyer related	Display message “Đã tồn tại luật sư!”

Relationships:

Manage Lawyer Related
Business Rules:
Only Administrator or Authorized User, who create the current Case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.3.4. UC0045 - Remove Lawyer Related

3.2.2.7.4.3.4.1. Use-Case Diagram



Figure 3-31: Remove Lawyer Related Use-Case Diagram

3.2.2.7.4.3.4.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0046	Use-case Version	1.0
Use-case Name	Remove Lawyer Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User, who create the current Case		
Summary:	Staff can remove Lawyer related in Case		

Goal:

Helps Staff remove Lawyer related in Case

Triggers:

Staff click on delete icon in the end table list

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in “Người liên quan” page
- Click on edit icon beside “Luật sư phụ trách” label before

Post Conditions:

Success:

- Remove the Lawyer out of current Case
- Show message remove successfully: “Loại bỏ luật sư thành công!”

Failure: System display error message “Loại bỏ luật sư thất bại!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Luật sư phụ trách” label	Icon delete is display
2	Click on icon delete corresponding with Lawyer want to remove	Show a modal popup to confirm
3	Click on “Xác nhận” button [Alternative 1]	System display message “Loại bỏ luật sư thành công!”

Alternative Scenario:

#	User	System
1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Lawyer

Exceptions:

N/A

Relationships:

Manage Lawyer Related

Business Rules:

Only Administrator or Authorized User, who create the current Case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.3.5. UC0047 - Search Lawyer Related

3.2.2.7.4.3.5.1. Use-Case Diagram



Figure 3-32: Search Lawyer Related Use-Case Diagram

3.2.2.7.4.3.5.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0048	Use-case Version	1.0
Use-case Name	Search Lawyer Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User, who create the current Case		
Summary:	Staff can search Lawyer for assign into Case		
Goal:			

Helps Staff can assign Lawyer easily

Triggers:

Staff input key word is StaffName or Username of Lawyer. When the key up, system will be automatic search.

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in “Người liên quan” page
- Click on edit icon beside “Luật sư phụ trách” label before

Post Conditions:

Success: The lawyer has been choose in search form by StaffName or Username

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Luật sư phụ trách” label	Search form is display
2	Input key words into search form and then key up	Display lawyers matches key words by StaffName and Username
3	Click on result have lawyer want to assign [Alternative 1]	The lawyer has been choose, wait for assign

Alternative Scenario:

#	User	System
1	Click out of result list	Result list is clear

Exceptions:

N/A

Relationships:

Manage Lawyer Related

Business Rules:

Only Administrator or Authorized User, who create the current Case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.4. Manage Customer Related

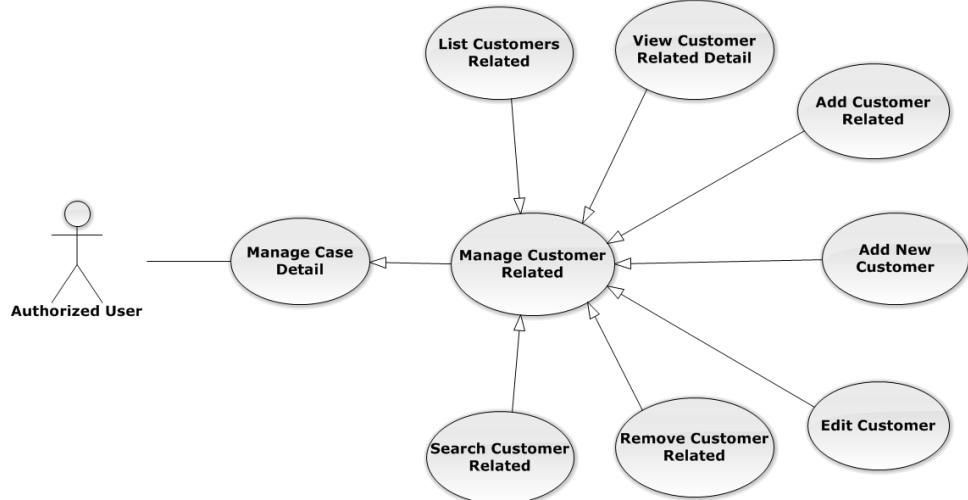


Figure 3-33: Manage Customer Related Use-Case Diagram

3.2.2.7.4.4.1. UC0049 - List Customers Related

3.2.2.7.4.4.1.1. Use-Case Diagram



Figure 3-34: List Customers Related Use-Case Diagram

3.2.2.7.4.4.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0050	Use-case Version	1.0

Use-case Name	List Customers Related								
Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
Actor:									
Authorized User									
Summary:									
List all Customers of current case, each case can have one or more customers									
Goal:									
Help to view all Customers related									
Triggers:									
User click on “Khách hàng” link at right top page									
Preconditions:									
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in “Người liên quan” page 									
Post Conditions:									
Success: Show all Customers of current case in table									
Failure: Do nothing									
Main Success Scenario:									
<table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on “Khách hàng” link</td><td>Show all Customers of current case in table line by line</td></tr> </tbody> </table>				Step	User	System	1	Click on “Khách hàng” link	Show all Customers of current case in table line by line
Step	User	System							
1	Click on “Khách hàng” link	Show all Customers of current case in table line by line							
Alternative Scenario:									
N/A									
Exceptions:									
N/A									
Relationships:									
Manage Customer Related									
Business Rules:									

N/A

3.2.2.7.4.4.2. UC0051 - View Customer Related Detail

3.2.2.7.4.4.2.1. Use-Case Diagram

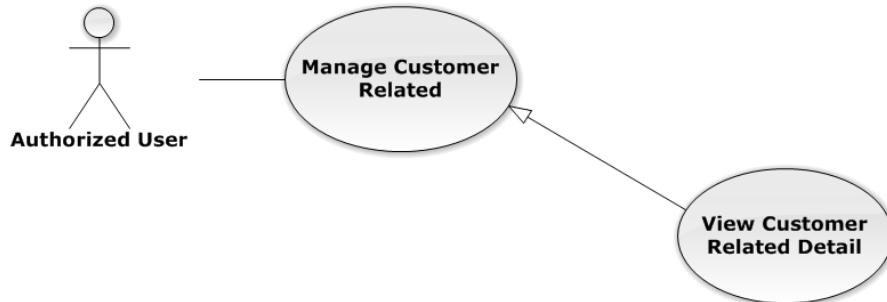


Figure 3-35: View Customer Related Detail Use-Case Diagram

3.2.2.7.4.4.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0052	Use-case Version	1.0
Use-case Name	View Customer Related Detail		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User		
Summary:	Staff can view Customer related information		
Goal:	Helps staff to view Customer related information		
Triggers:			

Staff click on “Họ và tên” link

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in “Khách hàng” page

Post Conditions:

Success: The popup modal have customer information is displayed

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	Staff click on “Họ và tên” link	The popup modal have customer information is displayed [Alternative 1]

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

N/A

Relationships:

Manage Customer Related

Business Rules:

N/A

3.2.2.7.4.4.3. UC0053 - Add Customer Related

3.2.2.7.4.4.3.1. Use-Case Diagram



Figure 3-36: Add Customer Related Use-Case Diagram

3.2.2.7.4.4.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0054	Use-case Version	1.0
Use-case Name	Add Customer Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor: Authorized User, who is assigned in current case			
Summary: Staff can add a available customer on Database into Case			
Goal: Helps Staff add a available customer into Case			
Triggers: Staff click on “Thêm vào danh sách” button after choose Customer in search form beside			

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in “Khách hàng” page
- Click on edit icon beside “Khách hàng” label and used Search Customer Related function before

Post Conditions:

Success:

- Add a customer into Case
- Show message assign successfully: “Thêm khách hàng thành công!”

Failure: System display error message “Thêm khách hàng thất bại!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Khách hàng” label	Search form, “Thêm vào danh sách” and “Hoàn thành” button is display
2	After search and choose a Customer, Staff click on “Thêm vào danh sách” button [Alternative 1] [Exception 1] [Exception 2]	System display message “Thêm khách hàng thành công!”

Alternative Scenario:

#	User	System
1	Click on “Hoàn thành” button	Search form, “Thêm vào danh sách” and “Hoàn thành” button is hidden

Exceptions:

#	User	System
1	Not search customer then click on “Thêm vào danh sách” button	Display validation message for needed to search lawyer before: “Hãy chọn 1 khách hàng!”

2	Customer is exist in list customer related	Display message “Đã tồn tại khách hàng!”
---	--------------------------------------------	------------------------------------------

Relationships:
Manage Customer Related

Business Rules:
Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.4.4. Add New Customer

Reference to Add New Customer function in Manage Customer

3.2.2.7.4.4.5. Edit Customer

Reference to Edit Customer function in Manage Customer

3.2.2.7.4.4.6. UC0055 - Remove Customer Related

3.2.2.7.4.4.6.1. Use-Case Diagram



Figure 3-37: Remove Customer Related Use-Case Diagram

3.2.2.7.4.4.6.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0056	Use-case Version	1.0

Use-case Name	Remove Customer Related														
Author	Đặng Nguyễn Khiêm														
Date	09/10/2014	Priority	Normal												
Actor:															
Authorized User, who is assigned in current case															
Summary:															
Staff can remove Customer related in Case															
Goal:															
Helps Staff remove Customer related in Case															
Triggers:															
Staff click on delete icon in the end table list															
Preconditions:															
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in “Khách hàng” page • Click on edit icon beside “Khách hàng” label before 															
Post Conditions:															
Success: <ul style="list-style-type: none"> • Remove the Customer out of current Case • Show message remove successfully: “Loại bỏ khách hàng thành công!” 															
Failure: System display error message “Loại bỏ khách hàng thất bại!”															
Main Success Scenario:															
<table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on edit icon beside “Khách hàng” label</td><td>Icon delete is display</td></tr> <tr> <td>2</td><td>Click on icon delete corresponding with Customer want to remove</td><td>Show a modal popup to confirm</td></tr> <tr> <td>3</td><td>Click on “Xác nhận” button [Alternative 1]</td><td>System display message “Loại bỏ khách hàng thành công!”</td></tr> </tbody> </table>				Step	User	System	1	Click on edit icon beside “Khách hàng” label	Icon delete is display	2	Click on icon delete corresponding with Customer want to remove	Show a modal popup to confirm	3	Click on “Xác nhận” button [Alternative 1]	System display message “Loại bỏ khách hàng thành công!”
Step	User	System													
1	Click on edit icon beside “Khách hàng” label	Icon delete is display													
2	Click on icon delete corresponding with Customer want to remove	Show a modal popup to confirm													
3	Click on “Xác nhận” button [Alternative 1]	System display message “Loại bỏ khách hàng thành công!”													
Alternative Scenario:															

#	User	System
1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Customer

Exceptions:
N/A

Relationships:
Manage Customer Related

Business Rules:
Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.4.7. UC0057 - Search Customer Related

3.2.2.7.4.4.7.1. Use-Case Diagram

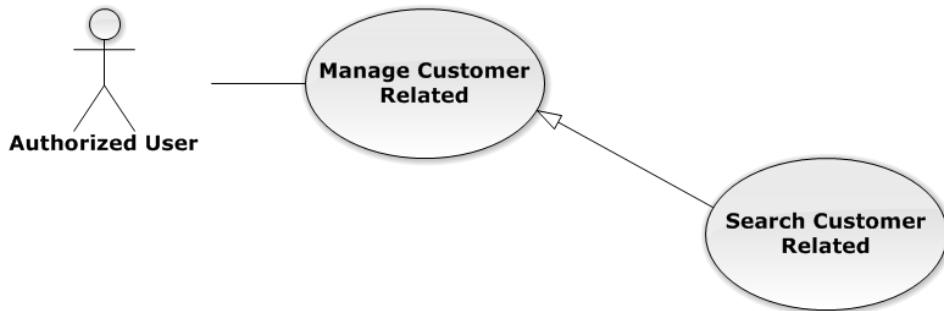


Figure 3-38: Search Customer Related Use-Case Diagram

3.2.2.7.4.4.7.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0058	Use-case Version	1.0
Use-case Name	Search Customer Related		

Author	Đặng Nguyễn Khiêm														
Date	09/10/2014	Priority	Normal												
Actor:															
Authorized User, who is assigned in current case															
Summary:															
Staff can search Customer for add customer related															
Goal:															
Helps Staff can search Customer easily															
Triggers:															
Staff input key word is CustomerName or Address of Customer. When the key up, system will be automatic search after 500ms delay time.															
Preconditions:															
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in “Khách hàng” page • Click on edit icon beside “Khách hàng” label before 															
Post Conditions:															
Success: The customer has been choose in search form by CustomerName or Address															
Failure: Do nothing															
Main Success Scenario:															
<table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on edit icon beside “Khách hàng” label</td><td>Search form is display</td></tr> <tr> <td>2</td><td>Input key words into search form and then key up</td><td>Display customers matches key words by CustomerName or Address</td></tr> <tr> <td>3</td><td>Click on result have customer want to add [Alternative 1]</td><td>The customer has been choose, wait for add</td></tr> </tbody> </table>				Step	User	System	1	Click on edit icon beside “Khách hàng” label	Search form is display	2	Input key words into search form and then key up	Display customers matches key words by CustomerName or Address	3	Click on result have customer want to add [Alternative 1]	The customer has been choose, wait for add
Step	User	System													
1	Click on edit icon beside “Khách hàng” label	Search form is display													
2	Input key words into search form and then key up	Display customers matches key words by CustomerName or Address													
3	Click on result have customer want to add [Alternative 1]	The customer has been choose, wait for add													
Alternative Scenario:															
<table border="1"> <thead> <tr> <th>Step</th><th>User</th><th>System</th></tr> </thead> </table>				Step	User	System									
Step	User	System													

1	Click out of result list	Result list is clear
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Exceptions:
N/A

Relationships:
Manage Customer Related

Business Rules:
Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.5. Manage Subject Related

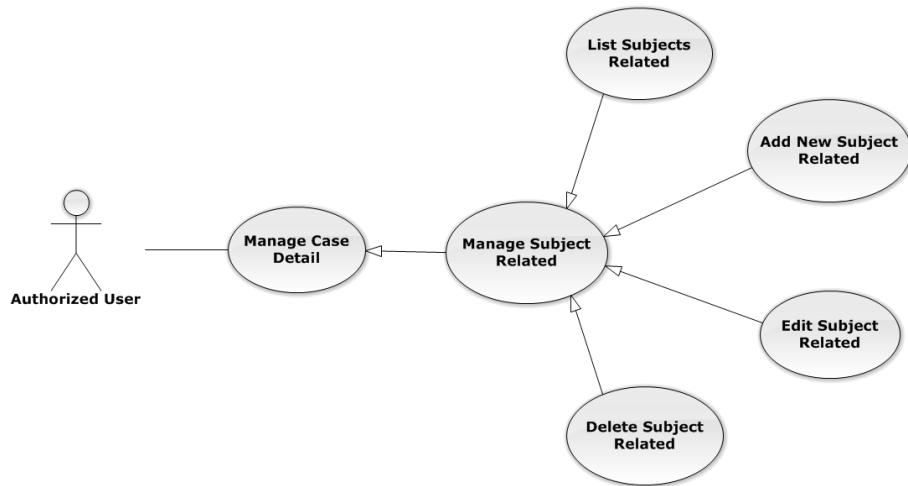


Figure 3-39: Manage Subject Related Use-Case Diagram

3.2.2.7.4.5.1. UC0059 - List Subjects Related

3.2.2.7.4.5.1.1. Use-Case Diagram

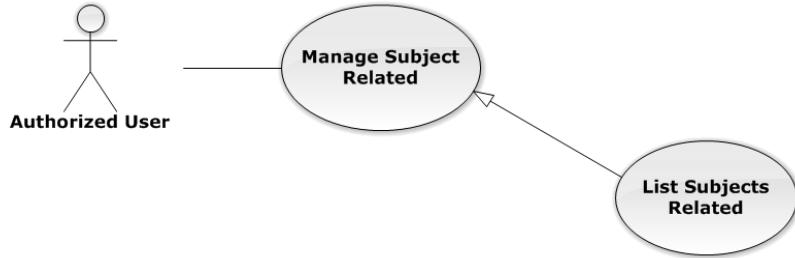


Figure 3-40: List Subjects Related Use-Case Diagram

3.2.2.7.4.5.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0060	Use-case Version	1.0
Use-case Name	List Subjects Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor: Authorized User			
Summary: List all Subjects of current case, each case can have one or more subjects			
Goal: Help to view all Subject related			
Triggers: User click on “Chủ đề” link at right top page			
Preconditions: <ul style="list-style-type: none"> • Must be logged-in 			

- The page is fully loaded
- Must be in “Người liên quan” page

Post Conditions:

Success: Show all Subjects of current case in table

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	Click on “Chủ thẻ” link	Show all Subjects of current case in table line by line

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Subject Related

Business Rules:

N/A

3.2.2.7.4.5.2. UC0061 - Add New Subject Related

3.2.2.7.4.5.2.1. Use-Case Diagram

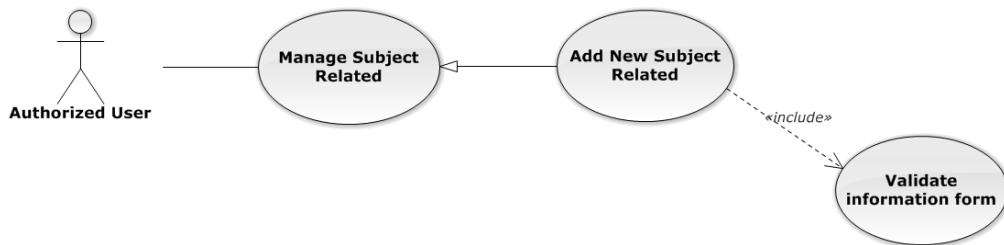


Figure 3-41: Add New Subject Related Use-Case Diagram

3.2.2.7.4.5.2.2. Use-Case Specification

USE-CASE SPECIFICATION						
Use-case No.	UC0062	Use-case Version	1.0			
Use-case Name	Add New Subject Related					
Author	Đặng Nguyễn Khiêm					
Date	09/10/2014	Priority	Normal			
Actor: Authorized User, who is assigned in current case						
Summary: Staff can create new a subject related into case						
Goal: Helps Staff create new a subject easily						
Triggers: Staff click on “Tạo chủ thẻ” button at the bottom of table						
Preconditions: <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in “Chủ thẻ” page • Click on edit icon beside “Chủ thẻ liên quan” label before 						
Post Conditions: <p>Success:</p> <ul style="list-style-type: none"> • Add new a subject into Case • Show message assign successfully: “Thêm chủ thẻ thành công!” <p>Failure: System display error message “Thêm chủ thẻ thất bại!”</p>						
Main Success Scenario: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Step</th><th style="text-align: center; padding: 2px;">User</th><th style="text-align: center; padding: 2px;">System</th></tr> </thead> </table>				Step	User	System
Step	User	System				

1	Click on edit icon beside “Chủ đề liên quan” label	“Thêm chủ đề mới” button is display
2	Staff click on “Tạo chủ đề” button	Modal popup is displayed with fields for input information of new subject [Alternative 1]
3	Input corresponding information in form then click “Thêm mới” button [Exception 1]	<ul style="list-style-type: none"> • Modal popup is close • System display successful message “Thêm chủ đề thành công!” • Update list subject on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	Leave empty require fields then click on “Thêm mới” button	Modal popup display validation for needed to input field

Relationships:
Manage Subject Related

Business Rules:

- Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.
- After create subject successfully, system will be automatically add new subject into that case

3.2.2.7.4.5.3. UC0063 - Edit Subject Related

3.2.2.7.4.5.3.1. Use-Case Diagram

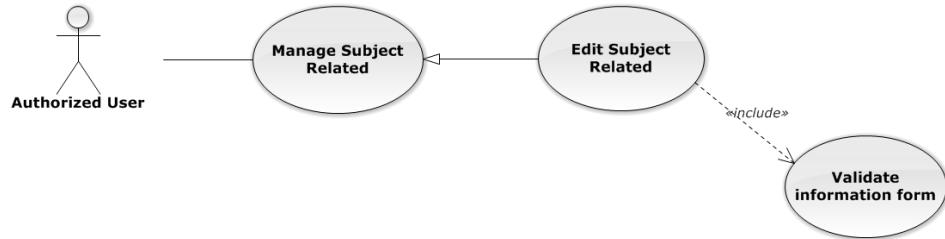


Figure 3-42: Edit Subject Related Use-Case Diagram

3.2.2.7.4.5.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0064	Use-case Version	1.0
Use-case Name	Edit Subject Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:			
Authorized User, who is assigned in current case			
Summary:			
Staff can edit a available subject related			
Goal:			
Helps Staff edit a available subject information			
Triggers:			
Staff click on edit icon at the right table			
Preconditions:			
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded 			

- Must be in “Chủ đề” page
- Click on edit icon beside “Chủ đề liên quan” label before

Post Conditions:

Success:

- Edit a subject information
- Show message assign successfully: “Cập nhật chủ đề thành công!”

Failure: System display error message “Cập nhật chủ đề thất bại!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Chủ đề liên quan” label	The icon to edit subject is display
2	Staff click on edit icon	Modal popup is displayed with fields for input new information of subject [Alternative 1]
3	Input corresponding information in form then click “Lưu chỉnh sửa” button [Exception 1]	<ul style="list-style-type: none"> • Modal popup is close • System display successful message “Cập nhật chủ đề thành công!” • Update list subject on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	Leave empty require fields then click on “Lưu chỉnh sửa” button	Modal popup display validation for needed to input field

Relationships:

Manage Subject Related

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.5.4. UC0065 - Delete Subject Related

3.2.2.7.4.5.4.1. Use-Case Diagram

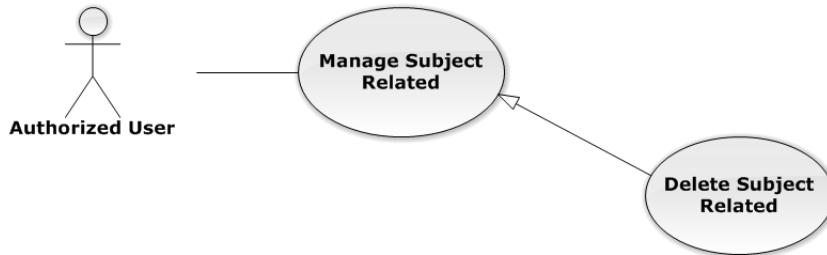


Figure 3-43: Delete Subject Related Use-Case Diagram

3.2.2.7.4.5.4.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0066	Use-case Version	1.0
Use-case Name	Delete Subject Related		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Authorized User, who is assigned in current case		
Summary:	Staff can delete Subject related in Case		
Goal:	Helps Staff delete Subject related		
Triggers:			

Staff click on delete icon in the end table list

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in “Chủ thẻ” page
- Click on edit icon beside “Chủ thẻ liên quan” label before

Post Conditions:

Success:

- Delete the subject out of current Case
- Show message remove successfully: “Xóa chủ thẻ thành công!”

Failure: System display error message “Xóa chủ thẻ hàng thất bại!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Chủ thẻ liên quan” label	Icon delete is display
2	Click on icon delete corresponding with Subject want to delete	Show a modal popup to confirm
3	Click on “Xác nhận” button [Alternative 1]	System display message “Xóa chủ thẻ thành công!”

Alternative Scenario:

#	User	System
1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Subject

Exceptions:

N/A

Relationships:

Manage Subject Related

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.6. Manage Used Service

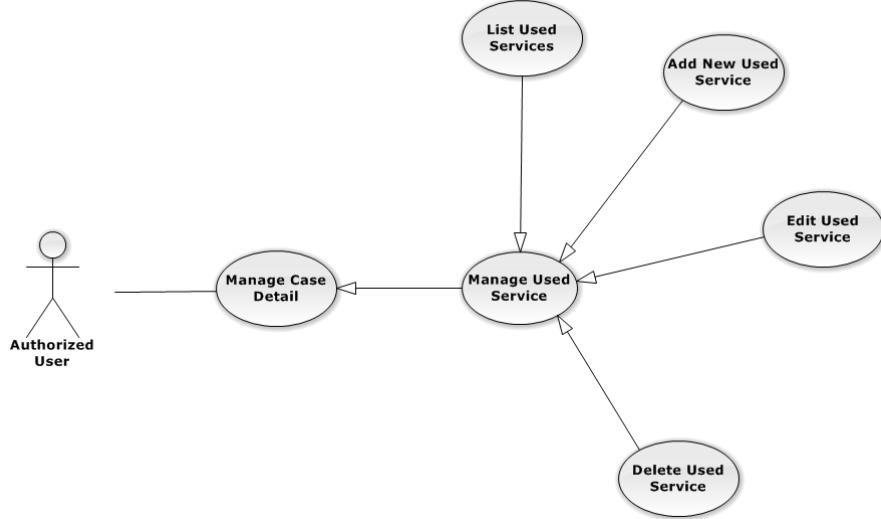


Figure 3-44: Manage Used Service Use-Case Diagram

3.2.2.7.4.6.1. UC0067 - List Used Services

3.2.2.7.4.6.1.1. Use-Case Diagram



Figure 3-45: List Used Services Use-Case Diagram

3.2.2.7.4.6.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0068	Use-case Version	1.0
Use-case Name	List Used Services		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
<p>Actor: Authorized User</p> <p>Summary: Show all Used Service of case.</p> <p>Goal: Help staff to view all Used Service of case.</p> <p>Triggers: User click on “Hóa đơn” link in Case Detail page</p> <p>Preconditions:</p> <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Case Detail page <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> • List all Used Service in current case include company name and customer name. • Display total money of list Used Service <p>Failure: Do nothing</p> <p>Main Success Scenario:</p>			

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click on “Hóa đơn” link	Show all Used Service in current case

Alternative Scenario:
N/A

Exceptions:
N/A

Relationships:
Manage Used Service

Business Rules:
In the end of Used Service table have fill name “Tổng chi phí” display total money of all Used Service.
In the end of table have fill name “Chưa Thanh Toán” display total money of all Used Service.

3.2.2.7.4.6.2. UC0069 - Add New Used Service

3.2.2.7.4.6.2.1. Use-Case Diagram

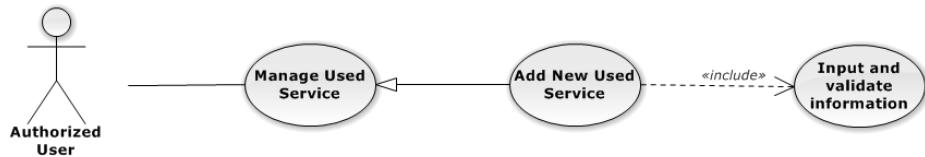


Figure 3-46: Add New Used Service Use-Case Diagram

3.2.2.7.4.6.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0070	Use-case Version	1.0
Use-case Name	Add New Used Service		

Author	Đặng Nguyễn Khiêm											
Date	09/10/2014	Priority	Normal									
Actor:												
Authorized User, who is assigned in current case												
Summary:												
Staff can add new Used Service into Case												
Goal:												
Helps Staff create event into Case												
Triggers:												
<ul style="list-style-type: none"> • Staff click on “Hóa đơn” link in Case Detail page • Click on edit icon beside “Chi phí dịch vụ” button • Click on “Thêm dịch vụ” button to add new Used Service to current case. 												
Preconditions:												
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Used Service page • Click on edit icon beside “Chi phí dịch vụ” label before 												
Post Conditions:												
Success:												
<ul style="list-style-type: none"> • At new Used Service into current Case • Calculation and display the total money of Used Service to “Tổng Chi Phí” field and “Chưa Thanh Toán” fileld. • Show message successfully: “Thêm dịch vụ thành công!” 												
Failure: System display error message “Thêm dịch vụ thất bại!”, “hãy kiểm tra lại kết nối database!”												
Main Success Scenario:												
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on edit icon beside “Chi phí dịch vụ” label, click “Thêm dịch vụ” button</td><td>Pop-up input is display. With two button “Đóng” and “Tạo dịch vụ” is display</td></tr> <tr> <td>2</td><td>Input information into fields and click button “Tạo mới”</td><td>System display message “Thêm dịch vụ thành công!”</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click on edit icon beside “Chi phí dịch vụ” label, click “Thêm dịch vụ” button	Pop-up input is display. With two button “Đóng” and “Tạo dịch vụ” is display	2	Input information into fields and click button “Tạo mới”	System display message “Thêm dịch vụ thành công!”
<i>Step</i>	<i>User</i>	<i>System</i>										
1	Click on edit icon beside “Chi phí dịch vụ” label, click “Thêm dịch vụ” button	Pop-up input is display. With two button “Đóng” and “Tạo dịch vụ” is display										
2	Input information into fields and click button “Tạo mới”	System display message “Thêm dịch vụ thành công!”										

	button [Alternative 1], [Exception 1], [Exception 2]	
Alternative Scenario:		
#	User	System
1	Click on “Đóng” button	Input form close back to list all Used Service screen.
Exceptions:		
#	User	System
1	Field “Loại Dịch Vụ”, are blank	Shows error message “Nhập vào tên dịch vụ!”.
	Field “Tên Dịch Vụ”, are blank	Shows error message “Chọn dịch vụ!”.
	Field “Chi Phí”, are blank	Shows error message “Nhập chi phí!”.
	Field “Nội dung”, are blank	Shows error message “Nhập nội dung!”.
2	System cannot insert Used Service to data base.	Shows error message “Thêm thanh toán thất bại!”, “Hãy kiểm tra lại kết nối database”
Relationships:		
Manage Used Service		
Business Rules:		
Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.		

3.2.2.7.4.6.3. UC0071 - Edit Used Service

3.2.2.7.4.6.3.1. Use-Case Diagram

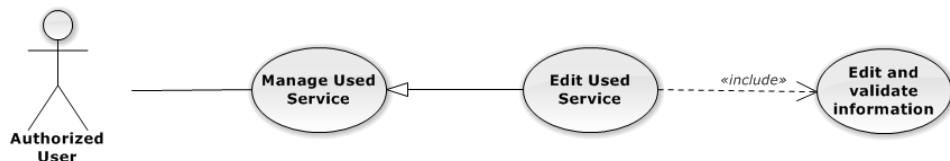


Figure 3-47: Edit Used Service Use-Case Diagram

3.2.2.7.4.6.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0072	Use-case Version	1.0
Use-case Name	Edit Used Service		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
<p>Actor: Authorized User, who is assigned in current case</p> <p>Summary: Staff can update Used Service into Case</p> <p>Goal: Helps Staff update Used Service into Case</p> <p>Triggers:</p> <ul style="list-style-type: none"> • Staff click on “Hóa đơn” link in Case Detail page • Click on edit icon beside “Chi phí dịch vụ” button • Click on “Edit” button to update event. <p>Preconditions:</p> <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Used Service page • Click on edit icon beside “Chi phí dịch vụ” label before <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> • Update Used Service into current Case • Show message successfully: “Sửa dịch vụ thành công!” 			

- Calculation and display the total money of Used Service to “Tổng Chi Phí” field and “Chưa Thanh Toán” fileld

Failure: System display error message “Sửa dịch vụ thất bại!”, “hãy kiểm tra lại kết nối database!”

Main Success Scenario:

Step	User	System
1	Click on edit icon beside “Chi phí dịch vụ” label	List all Used Service in current case, “Edit” and “Delete” icon is display, “Thêm dịch vụ” and “Hoàn thành” button is display
2	Click on the “Edit” button	Pop-up “Sửa chi phí” is display load detail of 1 Used Service, “Đóng” and “Sửa chi phí” button is display
3	Edit information into fields and click button “Sửa chi phí” button [Alternative 1], [Exception 1], [Exception 2]	System display message “Sửa dịch vụ thành công!”

Alternative Scenario:

#	User	System
1	Click on “Đóng” button	Input form close back to list all event screen.

Exceptions:

#	User	System
1	Field “Chi Phí”, are blank	Shows error message “Nhập chi phí!”.
	Field “Nội dung”, are blank	Shows error message “Nhập nội dung!”.
2	System cannot insert event to data base.	Shows error message “Sửa dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database”.

Relationships:

Manage Used Service

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.6.4. UC0073 - Delete Used Service

3.2.2.7.4.6.4.1. Use-Case Diagram



Figure 3-48: Delete Used Service Use-Case Diagram

3.2.2.7.4.6.4.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0074	Use-case Version	1.0
Use-case Name	Delete Used Service		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor: Authorized User, who is assigned in current case			
Summary: Staff can remove Used Service in Case			
Goal: Helps Staff remove Used Service in Case			
Triggers:			

Staff click on delete icon in the end table list

Preconditions:

- Must be logged-in
- The page is fully loaded
- Must be in Lawyer related page
- Click on edit icon beside “Chi phí dịch vụ” label before

Post Conditions:

Success:

- Remove the Event out of current Case
- Show message remove successfully: “Xóa dịch vụ thành công!”
- Calculation and display the total money of Used Service to “Tổng Chi Phí” field and “Chưa Thanh Toán” fileld

Failure: System display error message “Xóa dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database”

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click on edit icon beside “Chi phí dịch vụ” label	Icon delete is display
2	Click on icon delete corresponding with Used Service want to remove	Show a modal popup to confirm
3	Click on “Xác nhận” button [Alternative 1]	System display message “Xóa dịch vụ thành công!”

Alternative Scenario:

#	<i>User</i>	<i>System</i>
1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Event

Exceptions:

N/A

Relationships:

Manage Used Service

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.7. Manage Payment

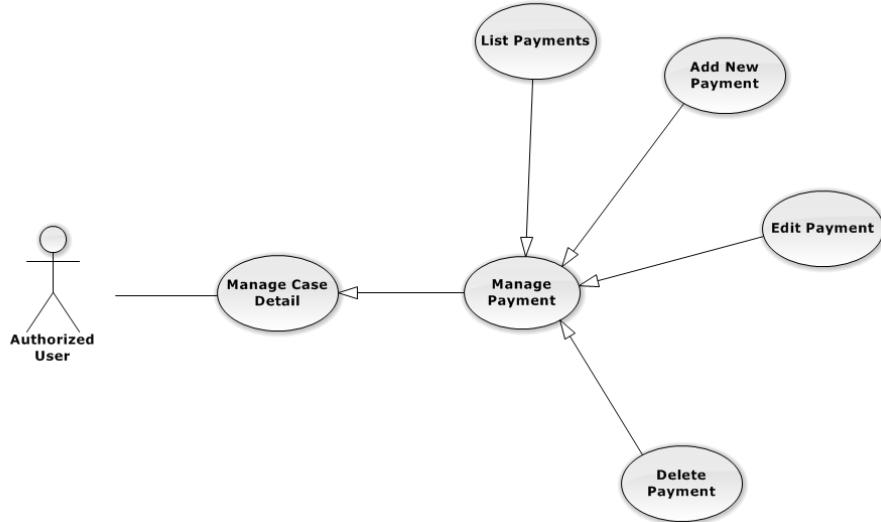


Figure 3-49: Manage Payment Use-Case Diagram

3.2.2.7.4.7.1. UC0075 - List Payments

3.2.2.7.4.7.1.1. Use-Case Diagram



Figure 3-50: List Payments Use-Case Diagram

3.2.2.7.4.7.1.2. Use-Case Specification

USE-CASE SPECIFICATION									
Use-case No.	UC0076	Use-case Version	1.0						
Use-case Name	List Payments								
Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
Actor: Authorized User									
Summary: Show all payment of case.									
Goal: Help staff to view all payment of case.									
Triggers: User click on “Hóa đơn” link in Case Detail page									
Preconditions: <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Case Detail page 									
Post Conditions: <p>Success:</p> <ul style="list-style-type: none"> • List all payment in current case include • Display total money of list payment. <p>Failure: Do nothing</p>									
Main Success Scenario: <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on “Hóa đơn” link [Alternative 1], [Alternative 2]</td><td>Show all payment in current case</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click on “Hóa đơn” link [Alternative 1], [Alternative 2]	Show all payment in current case
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click on “Hóa đơn” link [Alternative 1], [Alternative 2]	Show all payment in current case							

Alternative Scenario:

#	User	System
1	If total Payment > total Used Services	Display total money Unpaid in field “Số dư”
2	If total Payment < total Used Services	Display total money balance in field “Chưa thanh toán”

Exceptions:

N/A

Relationships:

Manage Payment

Business Rules:

In the end of Used Service table have fill name “Tổng chi phí” display total money of all Used Service.

3.2.2.7.4.7.2. UC0077 - Add New Payment

3.2.2.7.4.7.2.1. Use-Case Diagram

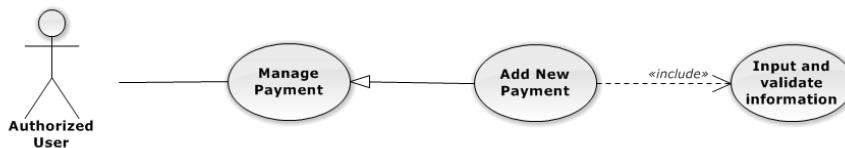


Figure 3-51: Add New Payment Use-Case Diagram

3.2.2.7.4.7.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0078	Use-case Version	1.0
Use-case Name	Add New Payment		
Author	Đặng Nguyễn Khiêm		

Date	09/10/2014	Priority	High
Actor:			
Authorized User, who is assigned in current case			
Summary:			
Staff can add new payment into Case			
Goal:			
Helps Staff create payment into Case			
Triggers:			
<ul style="list-style-type: none"> • Staff click on “Hóa đơn” link in Case Detail page • Click on edit icon beside “Hóa đơn thanh toán” button • Click on “Thêm thanh toán” button to add new payment to current case. 			
Preconditions:			
<ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in payment page • Click on edit icon beside “Hóa đơn thanh toán” label before 			
Post Conditions:			
Success:			
<ul style="list-style-type: none"> • At new Used Service into current Case • Calculation and display the total money of Payment and display total of money unpaid or balance in field “Chưa thanh toán”, “Số dư”. • Show message successfully: “Thêm thanh toán thành công!” 			
Failure: System display error message “Thêm thanh toán thất bại!”, “hãy kiểm tra lại kết nối database!”			
Main Success Scenario:			
Step	User	System	
1	Click on edit icon beside “Hóa đơn thanh toán” label, click “Thêm thanh toán” button	Pop-up input is display.	
2	Input information into fields and click button “Tạo thanh toán” button [Alternative 1], [Exception 1], [Exception 2]	System display message “Thêm thanh toán thành công!”	

Alternative Scenario:

#	User	System
1	Click on “Đóng” button	Input form close back to list all Used Service screen.

Exceptions:

#	User	System
1	Field “Thanh Toán”, are blank	Shows error message “Nhập số tiền thanh toán!”.
	Field “Nội dung”, are blank	Shows error message “Nhập nội dung!”.
2	System cannot insert payment to data base.	Shows error message “Thêm thanh toán thất bại!”, “Hãy kiểm tra lại kết nối database”

Relationships:

Manage Payment

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.7.3. UC0079 - Edit Payment

3.2.2.7.4.7.3.1. Use-Case Diagram

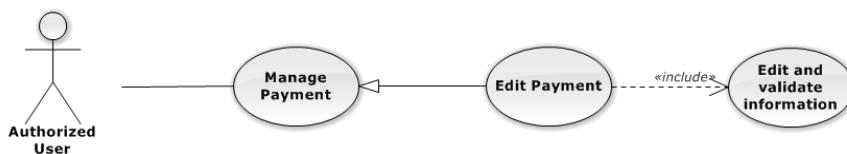


Figure 3-52: Edit Payment Use-Case Diagram

3.2.2.7.4.7.3.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0080	Use-case Version	1.0
Use-case Name	Edit Payment		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
<p>Actor: Authorized User, who is assigned in current case</p> <p>Summary: Staff can update payment service into Case</p> <p>Goal: Helps Staff update payment service into Case</p> <p>Triggers:</p> <ul style="list-style-type: none"> • Staff click on “Hóa đơn” link in Case Detail page • Click on edit icon beside “Hóa đơn thanh toán” button • Click on “Edit” button to update event. <p>Preconditions:</p> <ul style="list-style-type: none"> • Must be logged-in • The page is fully loaded • Must be in Used Service page • Click on edit icon beside “Hóa đơn thanh toán” label before <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> • Update Used Service into current Case • Show message successfully: “Sửa thanh toán thành công!” • Calculation and display the total money of Payment and display total of money unpaid or balance in field “Chưa thanh toán”, “Số dư”. 			

Failure: System display error message “Sửa thanh toán thất bại!”, “hãy kiểm tra lại kết nối database!”

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click on edit icon beside “Hóa đơn thanh toán” label	List all payment in current case, “Edit” and “Delete” icon is display, “Thêm dịch vụ” and “Hoàn thành” button is display
2	Click on the “Edit” button	Pop-up “Sửa thanh toán” is display load detail of 1 Used Service, “Đóng” and “Sửa chi phí” button is display
3	Edit information into fields and click button “Sửa thanh toán” button [Alternative 1], [Exception 1] ,[Exception 2]	System display message “Sửa thanh toán thành công!”

Alternative Scenario:

#	<i>User</i>	<i>System</i>
1	Click on “Đóng” button	Input form close back to list all event screen.

Exceptions:

#	<i>User</i>	<i>System</i>
1	Field “Thanh Toán”, are blank	Shows error message “Nhập số tiền thanh toán!”.
	Field “Nội dung”, are blank	Shows error message “Nhập nội dung!”.
2	System cannot insert event to data base.	Shows error message “Sửa thanh toán thất bại!”, “Hãy kiểm tra lại kết nối database”.

Relationships:

Manage Payment

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.7.4.7.4. UC0081 - Delete Payment

3.2.2.7.4.7.4.1. Use-Case Diagram



Figure 3-53: Delete Payment Use-Case Diagram

3.2.2.7.4.7.4.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0082	Use-case Version	1.0
Use-case Name	Delete Payment		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor: Authorized User, who is assigned in current case			
Summary: Staff can remove payment in Case			
Goal: Helps Staff remove payment in Case			
Triggers: Staff click on delete icon in the end table list			
Preconditions: <ul style="list-style-type: none">• Must be logged-in• The page is fully loaded			

- Must be in Lawyer related page
- Click on edit icon beside “Hóa đơn thanh toán” label before

Post Conditions:

Success:

- Remove the Event out of current Case
- Show message remove successfully: “Xóa thanh toán thành công!”
- Calculation and display the total money of payment

Failure: System display error message “Xóa thanh toán thất bại!”, “Hãy kiểm tra lại kết nối database”

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click on edit icon beside “Chi phí dịch vụ” label	Icon delete is display
2	Click on icon delete corresponding with Used Service want to remove	Show a modal popup to confirm
3	Click on “Xác nhận” button [Alternative 1]	System display message “Xóa thanh toán thành công!”

Alternative Scenario:

#	<i>User</i>	<i>System</i>
1	Click on “Bỏ qua” button	Modal popup is close and system do not remove the Event

Exceptions:

N/A

Relationships:

Manage Payment

Business Rules:

Only Administrator or Authorized User is assigned in current case can be use this function when status of case is “Đang thụ lý” and Office that have current case must is active.

3.2.2.8. Manage Customer Group

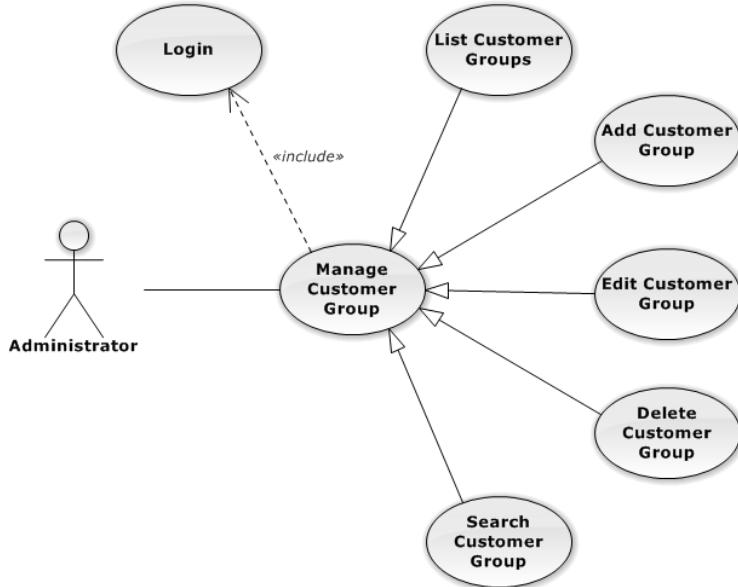


Figure 3-54: Manage Customer Group Use-Case Diagram

3.2.2.8.1. UC008343 - List Customer Groups

3.2.2.8.1.1. Use-Case Diagram

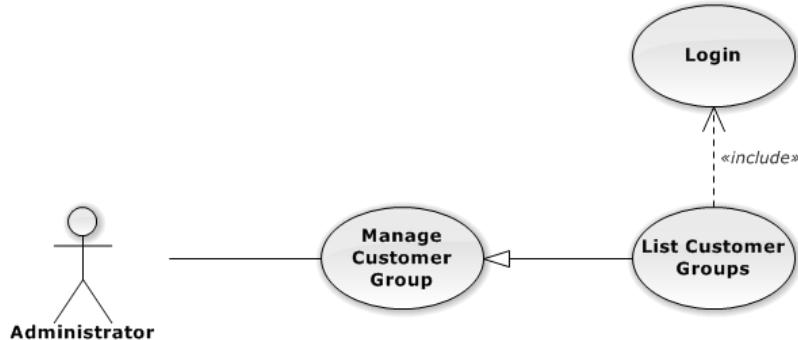


Figure 3-55: List Customer Groups Use-Case Diagram

3.2.2.8.1.2. List Customer Groups Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC008443	Use-case Version	1.0						
Use-case Name	List Customer Groups								
Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
<p>Actor: Administrator</p> <p>Summary: List All Customer Group.</p> <p>Goal: The purpose of List Customer Group use case is allowing Admin to view all Customer Groups.</p> <p>Triggers: User choose “Quản lý Nhóm Khách Hàng” in menu.</p> <p>Preconditions: User is authenticated and has role “admin”. The page is fully loaded.</p> <p>Post Conditions: Success: All Customer Groups are listed. Failure: N/A</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click “Quản lý Nhóm Khách Hàng” in menu.</td><td>All Customer Groups are loaded.</td></tr> </tbody> </table> <p>Alternative Scenario:</p>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Quản lý Nhóm Khách Hàng” in menu.	All Customer Groups are loaded.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click “Quản lý Nhóm Khách Hàng” in menu.	All Customer Groups are loaded.							

N/A
Exceptions:
N/A
Relationships:
Manage Customer Group
Business Rules:
N/A

3.2.2.8.2. UC0044 - Add New Customer Group

3.2.2.8.2.1. Use-Case Diagram

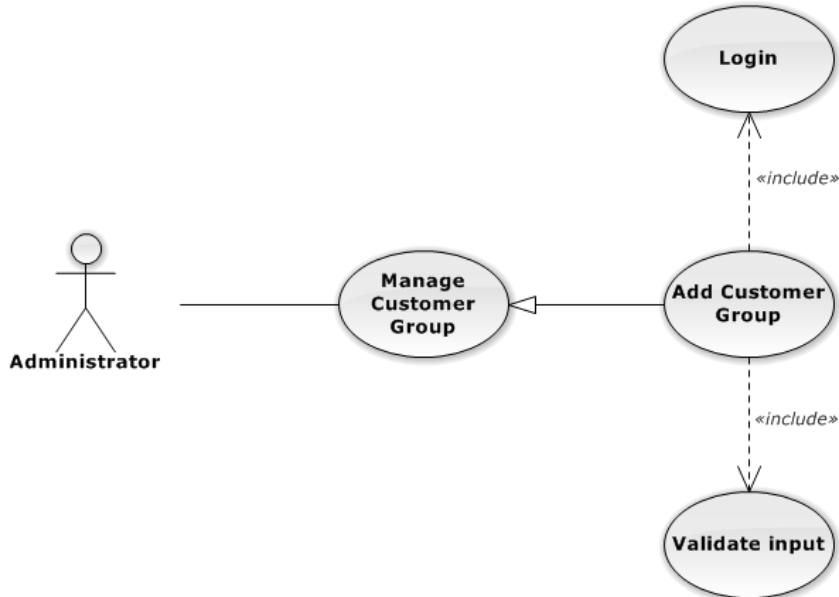


Figure 3-56: Add New Customer Group Use-Case Diagram

3.2.2.8.2.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0044	Use-case Version	1.0

Use-case Name	Add Customer Group											
Author	Đặng Nguyễn Khiêm											
Date	09/10/2014	Priority	Normal									
Actor: Administrator												
Summary: Add new Customer Group.												
Goal: The purpose of Add Customer Group use case is allowing Admin to add new Customer Group.												
Triggers: User choose “Quản lý Nhóm Khách Hàng” in menu.												
Preconditions: User is authenticated and has role “admin”.												
Post Conditions: Success: New Customer Group is created. Failure: No Customer Group is created and Error message will be showed.												
Main Success Scenario:												
<table border="1"> <thead> <tr> <th><i>Step</i></th> <th><i>User</i></th> <th><i>System</i></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Click “Thêm Nhóm Khách Hàng” button.</td> <td>Show add new customer group pop-up.</td> </tr> <tr> <td>2</td> <td>Enters the Customer Group Name and Description</td> <td></td> </tr> <tr> <td>3</td> <td>Presses “Thêm Nhóm Khách Hàng” button. [Alternative: 1]</td> <td>Checks validate, add new Customer Group to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]</td> </tr> </tbody> </table>	<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Thêm Nhóm Khách Hàng” button.	Show add new customer group pop-up.	2	Enters the Customer Group Name and Description		3	Presses “Thêm Nhóm Khách Hàng” button. [Alternative: 1]	Checks validate, add new Customer Group to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]
<i>Step</i>	<i>User</i>	<i>System</i>										
1	Click “Thêm Nhóm Khách Hàng” button.	Show add new customer group pop-up.										
2	Enters the Customer Group Name and Description											
3	Presses “Thêm Nhóm Khách Hàng” button. [Alternative: 1]	Checks validate, add new Customer Group to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]										
Alternative Scenario:												
<table border="1"> <thead> <tr> <th>#</th> <th><i>User</i></th> <th><i>System</i></th> </tr> </thead> </table>	#	<i>User</i>	<i>System</i>									
#	<i>User</i>	<i>System</i>										

1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Customer Group pop-up is close.
Exceptions:		
#	User	System
1	Customer Group Name is missing.	Show error “Nhập tên nhóm khách hàng” to user.
2	Add Customer group fail.	The Add New Customer Group is closed and display error message “Tạo nhóm khách hàng thất bại!”, “Hãy kiểm tra lại kết nối database.”
3	Add Customer group error.	The Add New Customer Group is closed and display error message "Tạo nhóm khách hàng thất bại!", "Có lỗi xảy ra trong quá trình tạo nhóm khách hàng."
Relationships:		
Manage Customer Group		
Business Rules:		
N/A		

3.2.2.8.3. UC0045 - Edit Customer Group

3.2.2.8.3.1. Use-Case Diagram

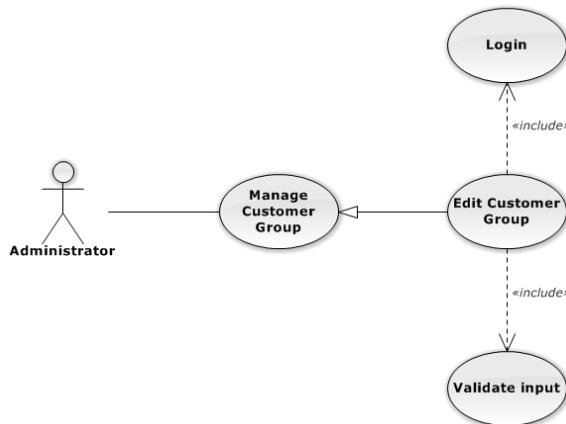


Figure 3-57: Edit Customer Group Use-Case Diagram

3.2.2.8.3.2. Use-Case Specification

USE CASE SPECIFICATION															
Use-case No.	UC0045	Use-case Version	1.0												
Use-case Name	Delete Customer Group														
Author	Đặng Nguyễn Khiêm														
Date	09/10/2014	Priority	Normal												
Actor: Administrator															
Summary: Update Customer Group.															
Goal: The purpose of Update Customer Group use case is allowing Admin to update Customer Group.															
Triggers: User choose “Quản lý Nhóm Dịch Vụ” in menu.															
Preconditions: User is authenticated and has role “admin”.															
Post Conditions: Success: The Customer Group id Updated. Failure: The Customer Group is not updated and Error message will be showed.															
Main Success Scenario: <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click Update icon.</td><td></td></tr> <tr> <td>2</td><td>Enters the new Customer Group Name and Description</td><td></td></tr> <tr> <td>3</td><td>Presses “Lưu chỉnh sửa” button. [Alternative: 1]</td><td>Checks validate, update Customer Group to database.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click Update icon.		2	Enters the new Customer Group Name and Description		3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Checks validate, update Customer Group to database.
<i>Step</i>	<i>User</i>	<i>System</i>													
1	Click Update icon.														
2	Enters the new Customer Group Name and Description														
3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Checks validate, update Customer Group to database.													

		Show success message. [Exception: 1] [Exception: 2] [Exception: 3]
Alternative Scenario:		
#	<i>User</i>	<i>System</i>
1	Presses “Đóng”, “X” button or click outside pop-up.	The Update Customer Group pop-up is close.
Exceptions:		
#	<i>User</i>	<i>System</i>
1	Customer Group Name is missing.	Show error “Nhập tên nhóm khách hàng” to user.
2	Update Customer group fail.	The Update Customer Group is closed and display error message “Chỉnh sửa nhóm khách hàng thất bại!”, “Hãy kiểm tra lại kết nối database.”
3	Update Customer group error.	The Update Customer Group is closed and display error message “Chỉnh sửa nhóm khách hàng thất bại!”, “Có lỗi xảy ra trong quá trình tạo nhóm khách hàng.”
Relationships:		
Manage Customer Group		
Business Rules:		
N/A		

3.2.2.8.4. UC0046 - Delete Customer Group

3.2.2.8.4.1. Use-Case Diagram

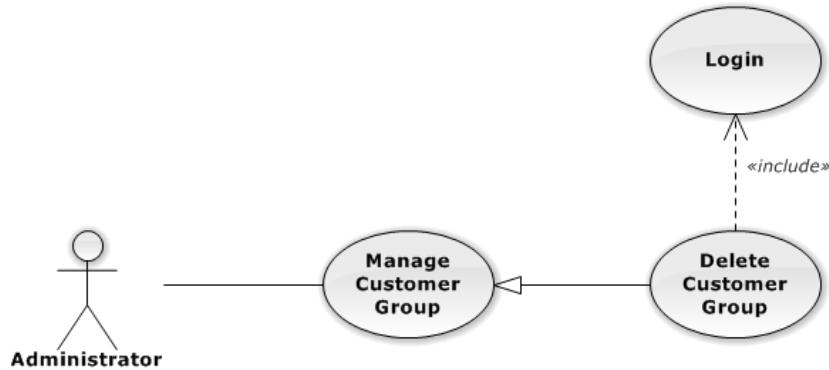


Figure 3-58: Delete Customer Group Use-Case Diagram

3.2.2.8.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0046	Use-case Version	1.0
Use-case Name	Delete Customer Group		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:			
Administrator			
Summary:			
Delete Customer Group.			
Goal:			
The purpose of Delete Customer Group use case is allowing Admin to delete Customer Group.			
Triggers:			

User choose “Quản lý Nhóm Khách Hàng” in menu.

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: The Customer Group is deleted.

Failure: The Customer Group is not delete and Error message will be showed.

Main Success Scenario:

Step	User	System
1	Click Delete icon.	Show confirm pop-up
2	Presses “Đồng ý” button. [Alternative: 1]	Delete Customer Group from database. Show success message. [Exception: 1] [Exception: 2]

Alternative Scenario:

#	User	System
1	Presses “Đóng”, “X” button or click outside pop-up.	The confirm pop-up is close.

Exceptions:

#	User	System
1	Delete Customer group fail.	The Add New Customer Group is closed and display error message “Xóa nhóm khách hàng thất bại!”, “Hãy kiểm tra lại kết nối database.”
2	Delete Customer group error.	The Add New Customer Group is closed and display error message "Xóa nhóm khách hàng thất bại!", "Có lỗi xảy ra trong quá xóa nhóm khách hàng."

Relationships:

Manage Customer Group

3.2.2.8.5. UC0047 - Search Customer Group

3.2.2.8.5.1. Use-Case Diagram

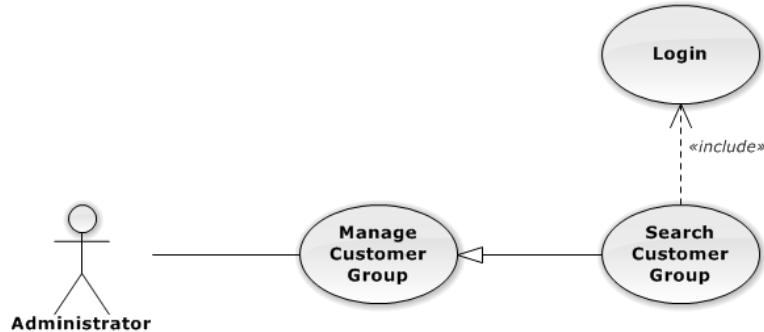


Figure 3-59: Search Customer Group Use-Case Diagram

3.2.2.8.5.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0085	Use-case Version	1.0
Use-case Name	Search Customer Group		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		
Summary:	Search Customer Group.		
Goal:	The purpose of Search Customer Group use case is allowing Admin to search Customer.		
Triggers:	User choose “Quản lý Nhóm khách hàng” in menu.		

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: List of Customer Group with search key words is displayed.

Failure: No record is displayed.

Main Success Scenario:

Step	User	System
1	In “Quản lý Nhóm khách hàng” screen, input key word at “Tìm kiếm” textbox.	List of Customer Group with search key words is displayed.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Customer Group

Business Rules:

N/A

3.2.2.9. Manage Customer

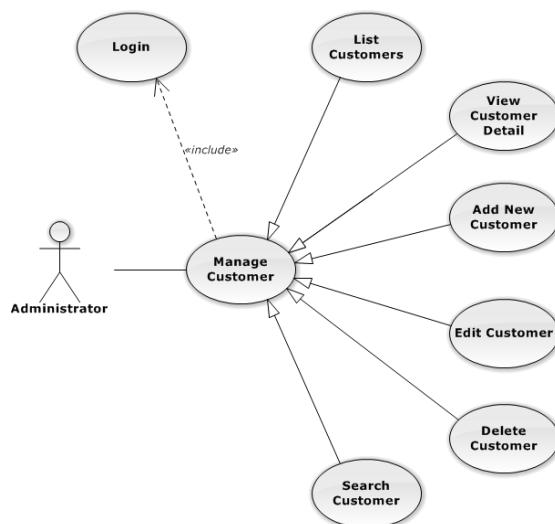


Figure 3-60: Manage Customer Use-Case Diagram

3.2.2.9.1. UC0048 - List Customers

3.2.2.9.1.1. Use-Case Diagram

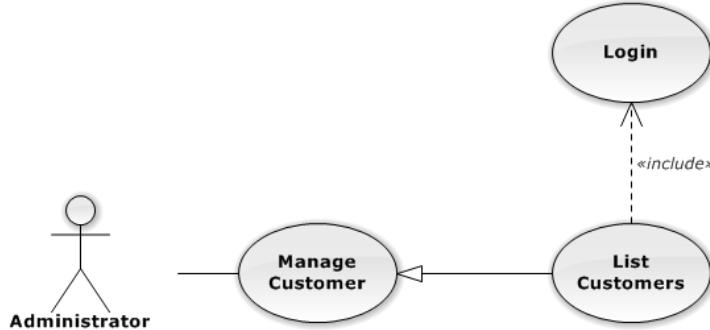


Figure 3-61: List Customers Use-Case Diagram

3.2.2.9.1.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0048	Use-case Version	1.0
Use-case Name	List Customers		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor: Administrator			
Summary: List All Customer.			
Goal: The purpose of List Customers use case is allowing Admin to view all Customers.			
Triggers: User choose “Quản lý Khách Hàng” in menu.			

Preconditions:

User is authenticated and has role “admin”.

The page is fully loaded.

Post Conditions:

Success: All Customer is listed.

Failure: N/A

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click “Quản lý Khách Hàng” in menu.	All Customers are loaded.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Customer

Business Rules:

N/A

3.2.2.9.2. UC0049 - View Customer Detail

3.2.2.9.2.1. Use-Case Diagram

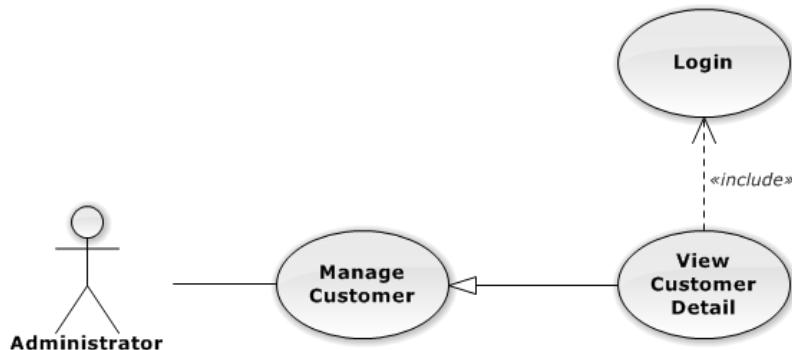


Figure 3-62: View Customer Detail Use-Case Diagram

3.2.2.9.2.2. Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC0049	Use-case Version	1.0						
Use-case Name	View Customer Detail								
Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
<p>Actor: Administrator</p> <p>Summary: View Customer Detail.</p> <p>Goal: The purpose of View Customer Detail use case is allowing Admin to view a Customer detail.</p> <p>Triggers: User choose “Quản lý Khách Hàng” in menu. Then click “View detail” icon.</p> <p>Preconditions: User is authenticated and has role “admin”.</p> <p>Post Conditions: Success: Customer Detail is showed. Failure: Do nothing.</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>In Manage Customer page, click “View detail” icon</td><td>The Customer Detail is showed.</td></tr> </tbody> </table> <p>Alternative Scenario: N/A</p>				<i>Step</i>	<i>User</i>	<i>System</i>	1	In Manage Customer page, click “View detail” icon	The Customer Detail is showed.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	In Manage Customer page, click “View detail” icon	The Customer Detail is showed.							

Exceptions:

N/A

Relationships:

Manage Customer

Business Rules:

N/A

3.2.2.9.3. UC0050 - Add New Customer

3.2.2.9.3.1. Use-Case Diagram

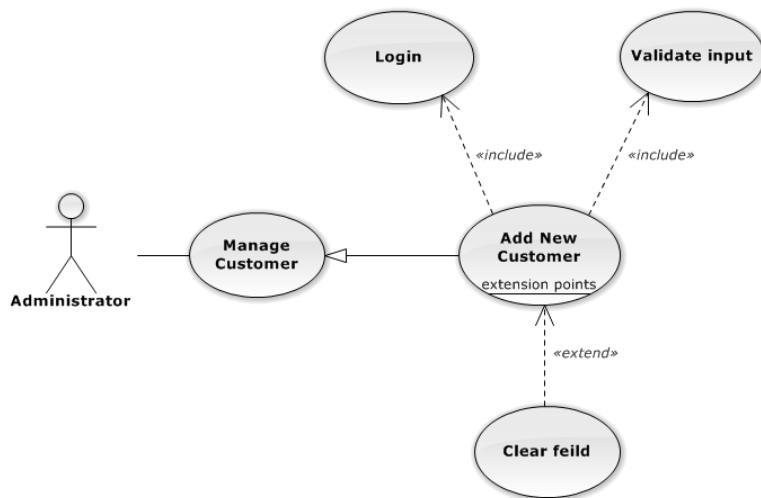


Figure 3-63: Add New Customer Use-Case Diagram

3.2.2.9.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0050	Use-case Version	1.0
Use-case Name	Add New Customer		
Author	Đặng Nguyễn Khiêm		

Capstone Project: LFMS

Date	09/10/2014	Priority	Normal												
Actor: Administrator															
Summary:	Add Customer.														
Goal:	The purpose of Add Customer use case is allowing Admin to add new Customer.														
Triggers:	User choose “Quản lý Khách Hàng” in menu.														
Preconditions:	User is authenticated and has role “admin”.														
Post Conditions:	Success: New Customer is created. Failure: No Customer is created and Error message will be showed.														
Main Success Scenario:															
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click “Thêm Khách Hàng” button.</td><td>Show add Customer pop-up.</td></tr> <tr> <td>2</td><td>Enters the Customer detail.</td><td></td></tr> <tr> <td>3</td><td>Presses “Thêm Khách Hàng” button. [Alternative: 1]</td><td>Checks validate, add new Customer to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Thêm Khách Hàng” button.	Show add Customer pop-up.	2	Enters the Customer detail.		3	Presses “Thêm Khách Hàng” button. [Alternative: 1]	Checks validate, add new Customer to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]
<i>Step</i>	<i>User</i>	<i>System</i>													
1	Click “Thêm Khách Hàng” button.	Show add Customer pop-up.													
2	Enters the Customer detail.														
3	Presses “Thêm Khách Hàng” button. [Alternative: 1]	Checks validate, add new Customer to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]													
Alternative Scenario:															
<table border="1"> <thead> <tr> <th>#</th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Presses “Đóng”, “X” button or click outside pop-up.</td><td>The Add New Customer pop-up is close.</td></tr> </tbody> </table>				#	<i>User</i>	<i>System</i>	1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Customer pop-up is close.						
#	<i>User</i>	<i>System</i>													
1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Customer pop-up is close.													
Exceptions:															
<table border="1"> <thead> <tr> <th>#</th><th><i>User</i></th><th><i>System</i></th></tr> </thead> </table>				#	<i>User</i>	<i>System</i>									
#	<i>User</i>	<i>System</i>													

1	Customer Name is missing.	Show error “Nhập tên khách hàng!” to user.
	Represent-Person is missing.	Show error “Nhập tên người đại diện!” to user.
	Customer Group is not chosen.	Show error “Chọn nhóm khách hàng!” to user.
	Address is missing.	Show error “Nhập địa chỉ!” to user.
	Email format is wrong.	Show error “Email chưa đúng định dạng!” to user.
	Mobile is missing.	Show error “Nhập số điện thoại di động!” to user.
2	Add Customer fail.	The Add New Customer is closed and display error message “Tạo khách hàng thất bại!”, “Hãy kiểm tra lại kết nối database.”
3	Add Customer error.	The Add New Customer is closed and display error message “Tạo khách hàng thất bại!”, “Có lỗi xảy ra trong quá trình tạo khách hàng.”

Relationships:
Manage Customer

Business Rules:
N/A

3.2.2.9.4. UC0051 - Edit Customer

3.2.2.9.4.1. Use-Case Diagram

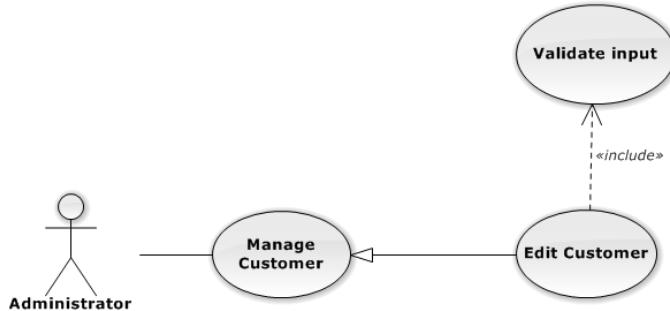


Figure 3-64: Edit Customer Use-Case Diagram

3.2.2.9.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0051	Use-case Version	1.0
Use-case Name	Edit Customer		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		
Summary:	Update Customer.		
Goal:	The purpose of Update Customer use case is allowing Admin to update Customer.		
Triggers:	User choose “Quản lý Khách Hàng” in menu.		
Preconditions:			

User is authenticated and has role “admin”.

Post Conditions:

Success: The Customer is Updated.

Failure: The Customer is not updated and Error message will be showed.

Main Success Scenario:

Step	User	System
1	Click Update icon.	Show update Customer pop-up.
2	Enters the new Customer’s detail.	
3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Checks validate, update Customer to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]

Alternative Scenario:

#	User	System
1	Presses “Đóng”, “X” button or click outside pop-up.	The Update Customer pop-up is close.

Exceptions:

#	User	System
1	Customer Name is missing.	Show error “Nhập tên khách hàng!” to user.
	Represent-Person is missing.	Show error “Nhập tên người đại diện!” to user.
	Customer Group is not chosen.	Show error “Chọn nhóm khách hàng!” to user.
	Address is missing.	Show error “Nhập địa chỉ!” to user.
	Email format is wrong.	Show error “Email chưa đúng định dạng!” to user.
	Mobile is missing.	Show error “Nhập số điện thoại di động!” to user.
2	Update Customer fail.	The Update Customer pop-up is closed and display error message

		“Chỉnh sửa khách hàng thất bại!”, “Hãy kiểm tra lại kết nối database.”
3	Update Customer error.	The Update Customer pop-up is closed and display error message "Chỉnh sửa khách hàng thất bại!", "Có lỗi xảy ra trong quá trình chỉnh sửa khách hàng."

Relationships:
Manage Customer

Business Rules:
N/A

3.2.2.9.5. UC0052 - Delete Customer

3.2.2.9.5.1. Use-Case Diagram

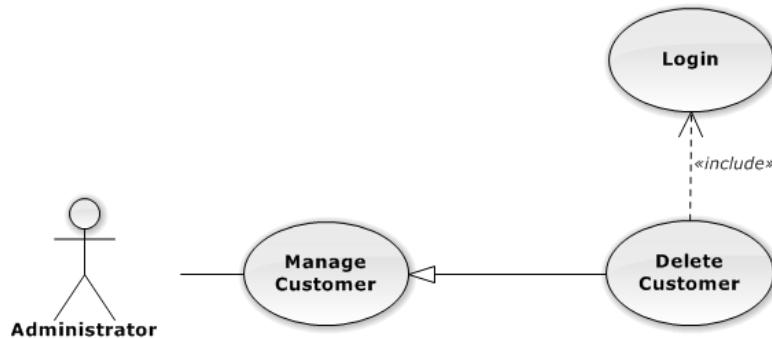


Figure 3-65: Delete Customer Use-Case Diagram

3.2.2.9.5.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0052	Use-case Version	1.0
Use-case Name	Delete Customer		

Capstone Project: LFMS

Author	Đặng Nguyễn Khiêm																							
Date	09/10/2014	Priority	Normal																					
<p>Actor: Administrator</p> <p>Summary: Delete Customer.</p> <p>Goal: The purpose of Delete Customer use case is allowing Admin to delete Customer.</p> <p>Triggers: User choose “Quản lý Khách Hàng” in menu.</p> <p>Preconditions: User is authenticated and has role “admin”.</p> <p>Post Conditions: Success: The Customer is deleted. Failure: The Customer is not deleted and Error message will be showed.</p> <p>Main Success Scenario:</p>																								
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click Delete icon.</td><td>Show confirm pop-up</td></tr> <tr> <td>2</td><td>Presses “Đồng ý” button. [Alternative: 1]</td><td>Delete Customer from database. Show success message. [Exception: 1] [Exception: 2]</td></tr> </tbody> </table> <p>Alternative Scenario:</p> <table border="1"> <thead> <tr> <th>#</th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Presses “Đóng”, “X” button or click outside pop-up.</td><td>The confirm pop-up is closed.</td></tr> </tbody> </table> <p>Exceptions:</p> <table border="1"> <thead> <tr> <th>#</th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Delete Customer fail.</td><td>The confirm pop-up is closed and display error message “Xóa nhóm</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click Delete icon.	Show confirm pop-up	2	Presses “Đồng ý” button. [Alternative: 1]	Delete Customer from database. Show success message. [Exception: 1] [Exception: 2]	#	<i>User</i>	<i>System</i>	1	Presses “Đóng”, “X” button or click outside pop-up.	The confirm pop-up is closed.	#	<i>User</i>	<i>System</i>	1	Delete Customer fail.	The confirm pop-up is closed and display error message “Xóa nhóm
<i>Step</i>	<i>User</i>	<i>System</i>																						
1	Click Delete icon.	Show confirm pop-up																						
2	Presses “Đồng ý” button. [Alternative: 1]	Delete Customer from database. Show success message. [Exception: 1] [Exception: 2]																						
#	<i>User</i>	<i>System</i>																						
1	Presses “Đóng”, “X” button or click outside pop-up.	The confirm pop-up is closed.																						
#	<i>User</i>	<i>System</i>																						
1	Delete Customer fail.	The confirm pop-up is closed and display error message “Xóa nhóm																						

		dịch vụ thất bại!", "Hãy kiểm tra lại kết nối database."
2	Delete Customer error.	The confirm pop-up is closed and display error message "Xóa nhóm dịch vụ thất bại!", "Có lỗi xảy ra trong quá trình xóa khách hàng."

Relationships:
Manage Customer

Business Rules:
N/A

3.2.2.9.6. UC0053 - Search Customer

3.2.2.9.6.1. Use-Case Diagram

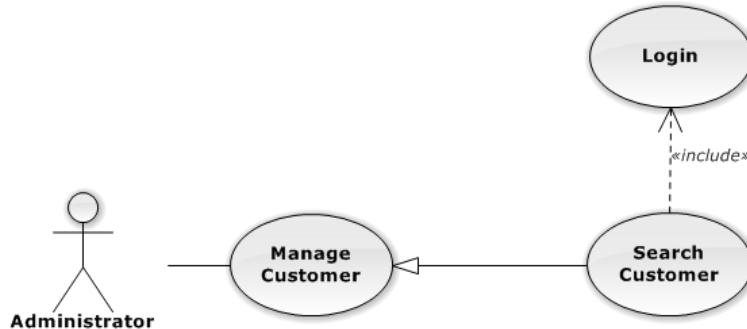


Figure 3-66: Search Customer Use-Case Diagram

3.2.2.9.6.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0053	Use-case Version	1.0
Use-case Name	Search Customer		
Author	Đặng Nguyễn Khiêm		

Capstone Project: LFMS

Date	09/10/2014	Priority	Normal						
Actor: Administrator									
Summary: Search Customer.									
Goal: The purpose of Search Customer use case is allowing Admin to search Customer.									
Triggers: User choose “Quản lý Khách hàng” in menu.									
Preconditions: User is authenticated and has role “admin”.									
Post Conditions: Success: List of Customer with search key words is displayed. Failure: No record is displayed.									
Main Success Scenario:									
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>In “Quản lý Khách hàng” screen, input key word at “Tìm kiếm” textbox.</td><td>List of Customer with search key words is displayed.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	In “Quản lý Khách hàng” screen, input key word at “Tìm kiếm” textbox.	List of Customer with search key words is displayed.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	In “Quản lý Khách hàng” screen, input key word at “Tìm kiếm” textbox.	List of Customer with search key words is displayed.							
Alternative Scenario: N/A									
Exceptions: N/A									
Relationships: N/A									
Business Rules: N/A									

3.2.2.10. Manage Staff Group

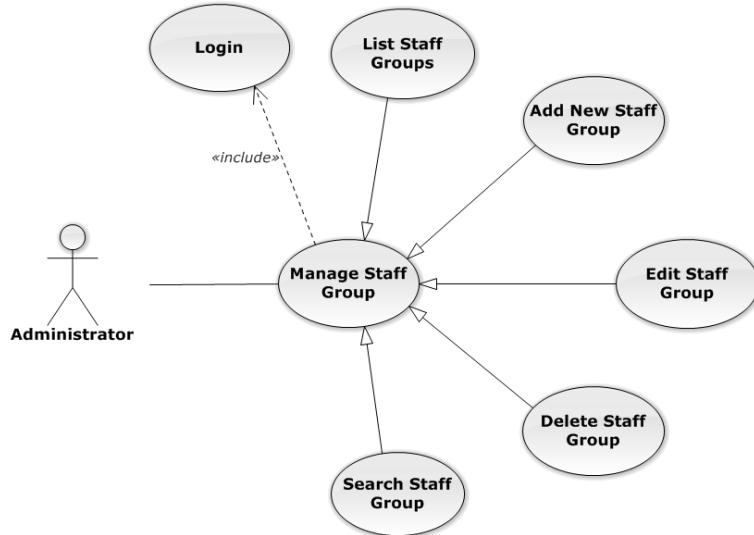


Figure 3-67: Manage Staff Group Use-Case Diagram

3.2.2.10.1. UC0054 - List Staff Groups

3.2.2.10.1.1. Use-Case Diagram

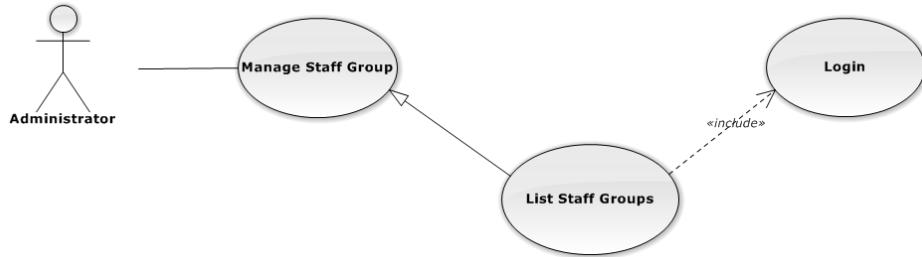


Figure 3-68: List Staff Groups Use-Case Diagram

3.2.2.10.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0054	Use-case Version	1.0
Use-case Name	List Staff Groups		

Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
Actor: Administrator									
Summary: Redirect user to “Quản lý nhóm nhân viên” page and list all staff group.									
Goal: To allowing Administrator view any detail information of all staff group.									
Triggers: <ul style="list-style-type: none"> User click on User Control Panel and then click on “Quản lý nhân viên” link On sub menu click on “nhóm nhân viên”. 									
Preconditions: <ul style="list-style-type: none"> Must be logged-in with “Admin” role. The page is fully loaded 									
Post Conditions: Success: System redirects user to “Quản lý nhóm nhân viên” page. Failure: Do nothing.									
Main Success Scenario:									
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on “Quản lý nhóm nhân viên” link</td><td>Redirect to “Quản lý nhóm nhân viên” page Show all staff group.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click on “Quản lý nhóm nhân viên” link	Redirect to “Quản lý nhóm nhân viên” page Show all staff group.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click on “Quản lý nhóm nhân viên” link	Redirect to “Quản lý nhóm nhân viên” page Show all staff group.							
Alternative Scenario: N/A									
Exceptions: N/A									
Relationships: Manage Staff Group									
Business Rules: Only Staff with role =”Admin” can be use this function.									

3.2.2.10.2. UC0055 - Add New Staff Group

3.2.2.10.2.1. Use-Case Diagram

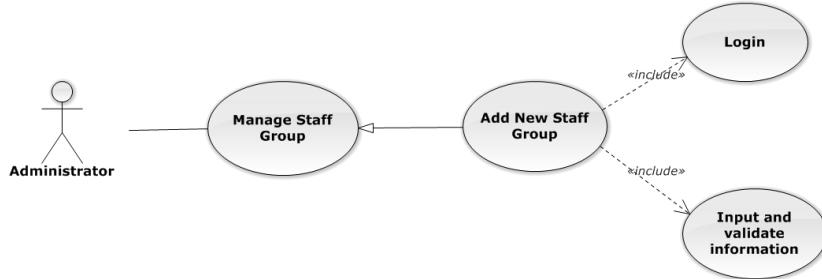


Figure 3-69: Add New Staff Group Use-Case Diagram

3.2.2.10.2.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0055	Use-case Version	1.0
Use-case Name	Add New Staff Group		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Administrator.		
Summary:	Administrator can insert new staff group in the system.		
Goal:	Add new staff group.		
Triggers:	At “Quản lý nhóm nhân viên” page click “Thêm nhóm nhân viên” button, fill information and click button “Thêm mới”.		
Preconditions:	<ul style="list-style-type: none"> Logged-in as “Admin” role. 		

- The page is fully loaded

Post Conditions:

Success: New staff group is inserted into database, message show “Tạo nhóm nhân viên mới thành công!” and display on “Quản lý nhân viên” screen.

Failure: Show message “Tạo nhóm nhân viên mới thất bại!”

Main Success Scenario:

Step	User	System
1	Administrator click on “Thêm nhóm nhân viên” button at “Quản lý Nhóm nhân viên” page.	Modal popup is displayed with fields for input information of new staff group.
	Fill information into fields and click button “Thêm mới” [Alternative 1] [Exception 1], [Exception 2], [Exception 3]	Modal popup is close System display successful message “Tạo nhóm nhân viên mới thành công!” Update list staff group on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	Field “Tên nhóm nhân viên” are blank	Shows error message “Nhập tên nhóm nhân viên!”.
	Field “Chi tiết nhóm nhân viên”, are blank	Shows error message “Nhập chi tiết chi tiết nhân viên!”
2	System cannot insert staff group to data base.	Shows error message “Tạo nhóm nhân viên thất bại!”
3	System fail insert staff group to data base.	Shows error message “Tạo nhóm nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database!”.

Relationships:

<p>Manage Staff Group</p> <p>Business Rules:</p> <p>Only Staff with role="Admin" can be use this function.</p>

3.2.2.10.3. UC0056 - Edit Staff Group

3.2.2.10.3.1. Use-Case Diagram

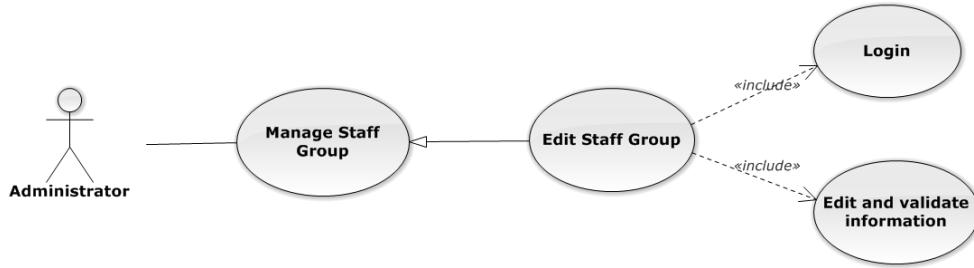


Figure 3-70: Edit Staff Group Use-Case Diagram

3.2.2.10.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0056	Use-case Version	1.0
Use-case Name	Edit Staff Group		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Administrator.		
Summary:	Administrator can update information of staff group.		
Goal:	Administrator can update information of staff group and save to database system.		

Triggers:

- Administrator goes to “Chi tiết nhóm nhân viên” Popup and click “Chỉnh Sửa” button and modify information, after that click button “Lưu Chính Sửa”.
- Administrator goes to “Nhóm nhân viên” screen, click “Chỉnh Sửa” button and modify information, after that click button “Lưu Chính Sửa”.

Preconditions:

- User has logged-in as “Admin” role.
- The page is fully loaded

Post Conditions:

Success:

Information of staff group is updated and saves to database, message show “Cập nhật chi tiết nhóm nhân viên thành công!” and display information after update on “Quản lý nhóm nhân viên” screen.

Failure:

Show message “Cập nhật chi tiết nhóm nhân viên thất bại!”

Main Success Scenario:

Step	User	System
1	Manager click on “Chỉnh sửa” button at “Quản lý nhóm nhân viên” screen.	Modal popup is displayed with fields for detail information of staff group.
2	Edit information into fields and click button “Lưu chỉnh sửa” [Alternative 1] [Exception 1], [Exception 1], [Exception 3]	Modal popup is closed System displays successful message “Cập nhật chi tiết nhóm nhân viên thành công!” Update list staff group on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is closed

Exceptions:

#	User	System

1	Field “Tên nhóm nhân viên” are blank	Shows error message “Nhập tên nhóm nhân viên!”.
	Field “Chi tiết nhóm nhân viên”, are blank	Shows error message “Nhập chi tiết chi tiết nhân viên!”.
2	System cannot update staff to data base.	Shows error message “Cập nhật chi tiết nhóm nhân viên thất bại!”.
3	System fail insert staff to data base.	Shows error message “Cập nhật chi tiết nhóm nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database!”.

Relationships:
Manage Staff Group

Business Rules:
Only Staff with role=”Admin” can be use this function.

3.2.2.10.4. UC0057 - Delete Staff Group

3.2.2.10.4.1. Use-Case Diagram

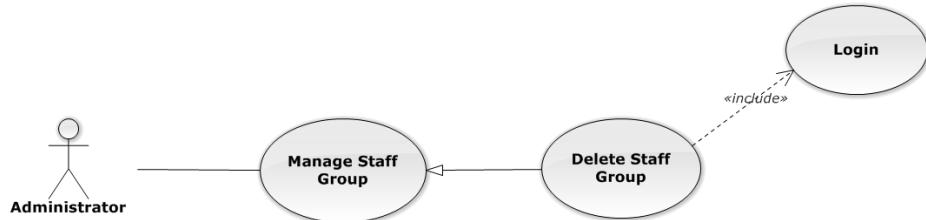


Figure 3-71: Delete Staff Group Use-Case Diagram

3.2.2.10.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0057	Use-case Version	1.0

Use-case Name	Delete Staff Group		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal

Actor:

Administrator.

Summary:

Administrator can delete staff group.

Goal:

Helps Administrator delete staff group if it didn't use in Staff manager and save to database system.

Triggers:

Administrator goes to “Quản lí nhóm nhân viên” page click button “Xóa”. After that click on “Bỏ qua” or “Xác nhận” button to confirm delete staff group.

Preconditions:

- User has logged-in as Admin role.
- The page is fully loaded

Post Conditions:

Success:

Delete staff group and save to database system, display message “Xóa nhóm nhân viên thành công!”

Failure:

Show message “Xóa nhóm nhân viên thất bại!”, “Nhóm nhân viên này hiện đang được sử dụng!”.

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Supper admin click on “Xóa” button at “Quản lí nhóm nhân viên” screen.	Show Pop-up confirm “Bạn có muốn thực hiện thao tác này” with two button “Xác nhận” and “Bỏ qua”
2	User click “Bỏ qua” button	Staff group not delete, comeback to “Chi tiết nhóm nhân viên” screen.

3	User click “ Xác nhận” button [Exception 1], [Exception 2]	Show message “Xóa nhóm nhân viên thành công!”									
Alternative Scenario:											
N/A											
Exceptions:											
<table border="1"> <thead> <tr> <th>#</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Delete staff group fail because staff group is use.</td><td>Shows error message “Xóa nhóm nhân viên thất bại!”, “Nhóm nhân viên này hiện đang được sử dụng!”</td></tr> <tr> <td>2</td><td>Delete staff group error because staff group is use.</td><td>Shows error message “Xóa nhóm nhân viên thất bại!”, “Có lỗi xảy ra trong quá trình xóa nhóm nhân viên”.</td></tr> </tbody> </table>			#	User	System	1	Delete staff group fail because staff group is use.	Shows error message “Xóa nhóm nhân viên thất bại!”, “Nhóm nhân viên này hiện đang được sử dụng!”	2	Delete staff group error because staff group is use.	Shows error message “Xóa nhóm nhân viên thất bại!”, “Có lỗi xảy ra trong quá trình xóa nhóm nhân viên”.
#	User	System									
1	Delete staff group fail because staff group is use.	Shows error message “Xóa nhóm nhân viên thất bại!”, “Nhóm nhân viên này hiện đang được sử dụng!”									
2	Delete staff group error because staff group is use.	Shows error message “Xóa nhóm nhân viên thất bại!”, “Có lỗi xảy ra trong quá trình xóa nhóm nhân viên”.									
Relationships:											
Manage Staff Group											
Business Rules:											
Only Staff with role=“Admin” can be use this function.											

3.2.2.10.5. UC0058 - Search Staff Group

3.2.2.10.5.1. Use-Case Diagram

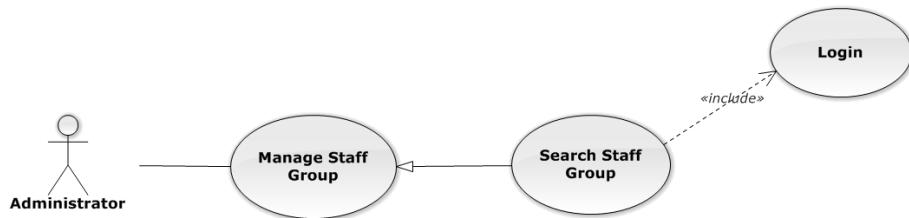


Figure 3-72: Search Staff Group Use-Case Diagram

3.2.2.10.5.2. Use-Case Specification

USE CASE SPECIFICATION						
Use-case No.	UC0058	Use-case Version	1.0			
Use-case Name	Search Staff Group					
Author	Đặng Nguyễn Khiêm					
Date	09/10/2014	Priority	Normal			
<p>Actor: Administrator.</p> <p>Summary: Administrator search staff in list of staff group.</p> <p>Goal: Helps Administrator search staff group.</p> <p>Triggers:</p> <ul style="list-style-type: none"> Administrator wants to search staff group. Administrator goes to “Quản lý nhóm nhân viên” screen, input word into “Tìm Kiếm” textbox. <p>Preconditions:</p> <ul style="list-style-type: none"> User has logged-in as Admin role. The page is fully loaded <p>Post Conditions:</p> <p>Success: List of staff group map with word search is displayed.</p> <p>Failure: Do nothing</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> </table>				<i>Step</i>	<i>User</i>	<i>System</i>
<i>Step</i>	<i>User</i>	<i>System</i>				

1	In “Quản lý nhóm nhân viên” screen, input key word at “Tìm kiếm” textbox.	List of staff group mapping with word search is display.
---	---------------------------------------------------------------------------	----------------------------------------------------------

Alternative Scenario:
N/A

Exceptions:
N/A

Relationships:
Manage Staff Group

Business Rules:
Only Staff with role="Admin" can be use this function.

3.2.2.11. Manage Staff

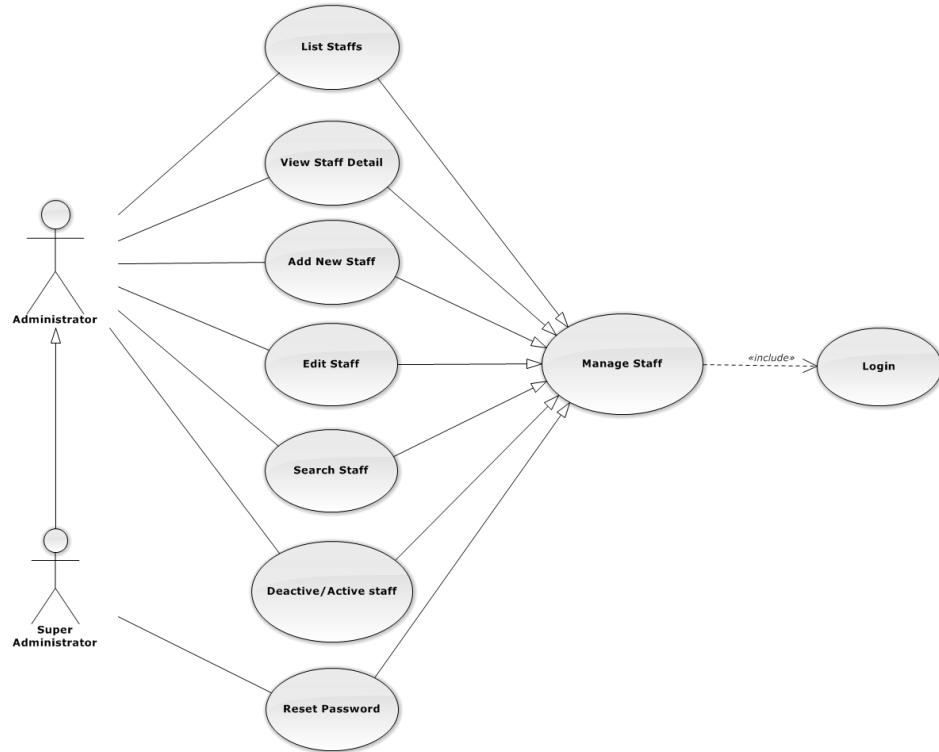


Figure 3-73: Manage Staff Use-Case Diagram

3.2.2.11.1. UC0059 - List Staffs

3.2.2.11.1.1. Use-Case Diagram

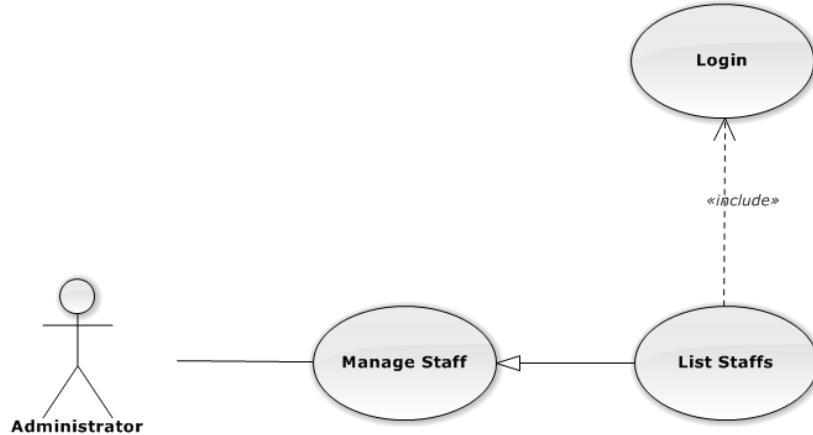


Figure 3-74: List Staffs Use-Case Diagram

3.2.2.11.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0059	Use-case Version	1.0
Use-case Name	List Staffs		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:			
Administrator			
Summary:			
Redirect user to “Quản lý nhân viên” page and list all staff.			
Goal:			
To allowing Administrator view any detail information of all staff.			

Triggers:

User click on User Control Panel and then click on “Quản lý nhân viên” link

Preconditions:

- Must be logged-in with “Admin” role.
- The page is fully loaded

Post Conditions:

Success: System redirects user to “Quản lý nhân viên” page.

Failure: Do nothing.

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click on “Quản lý nhân viên” link	Redirect to “Quản lý nhân viên” page. Show all staff.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Staff

Business Rules:

Only Staff login with role “Admin” can be use this function.

3.2.2.11.2. UC0060 - View Staff Detail

3.2.2.11.2.1. Use-Case Diagram

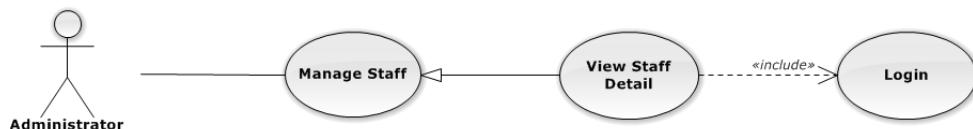


Figure 3-75: View Staff Detail Use-Case Diagram

3.2.2.11.2.2. Use-Case Specification

USE-CASE SPECIFICATION						
Use-case No.	UC0060	Use-case Version	1.0			
Use-case Name	View Staff Detail					
Author	Đặng Nguyễn Khiêm					
Date	09/10/2014	Priority	Normal			
Actor:						
Administrator						
Summary:						
Administrator can view detail of staff information						
Goal:						
Helps Administrator view staff information						
Triggers:						
<ul style="list-style-type: none"> • On User Control Panel click on “Quản lý nhân viên”, • Click click on “Chi tiết” button • Click on image staff. 						
Preconditions:						
<ul style="list-style-type: none"> • Must be logged-in with “Admin” role • The page is fully loaded 						
Post Conditions:						
Success: The detail staff information is displayed						
Failure: Do nothing						
Main Success Scenario:						
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Staff click on “chi tiết” button or click on image link [Alternative 1] ,[Alternative 2]</td><td>The detail staff information is displayed.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>
<i>Step</i>	<i>User</i>	<i>System</i>				
1	Staff click on “chi tiết” button or click on image link [Alternative 1] ,[Alternative 2]	The detail staff information is displayed.				

	[Alternative 3] ,[Alternative 4]																
Alternative Scenario:																	
<table border="1"> <thead> <tr> <th>#</th><th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on [X] button, “Đóng” button, or click out of modal</td><td>Modal popup is close</td></tr> <tr> <td>2</td><td>If staff login with Id=”1”, Click on “Chỉnh sửa” button</td><td>Administrator can update information of office (ref 3.2.2.4. Update staff)</td></tr> <tr> <td>3</td><td>If staff login with Id=”1”, Click on “Hoạt động lại” or “Ngừng hoạt động” link</td><td>Administrator can Deactivate/Activate staff (ref 3.2.2.5. Deactivate/Activate staff)</td></tr> <tr> <td>4</td><td>If staff login with Id=”1”, Click on “Đặt lại mật khẩu” link</td><td>Administrator can reset password staff (ref 3.2.2.7. Reset Password staff)</td></tr> </tbody> </table>			#	User	System	1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close	2	If staff login with Id=”1”, Click on “Chỉnh sửa” button	Administrator can update information of office (ref 3.2.2.4. Update staff)	3	If staff login with Id=”1”, Click on “Hoạt động lại” or “Ngừng hoạt động” link	Administrator can Deactivate/Activate staff (ref 3.2.2.5. Deactivate/Activate staff)	4	If staff login with Id=”1”, Click on “Đặt lại mật khẩu” link	Administrator can reset password staff (ref 3.2.2.7. Reset Password staff)
#	User	System															
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close															
2	If staff login with Id=”1”, Click on “Chỉnh sửa” button	Administrator can update information of office (ref 3.2.2.4. Update staff)															
3	If staff login with Id=”1”, Click on “Hoạt động lại” or “Ngừng hoạt động” link	Administrator can Deactivate/Activate staff (ref 3.2.2.5. Deactivate/Activate staff)															
4	If staff login with Id=”1”, Click on “Đặt lại mật khẩu” link	Administrator can reset password staff (ref 3.2.2.7. Reset Password staff)															
Exceptions: N/A																	
Relationships: Manage Staff																	
Business Rules: Only Staff login with role “Admin” can be use this function.																	

3.2.2.11.3. UC0061 - Add New Staff

3.2.2.11.3.1. Use-Case Diagram

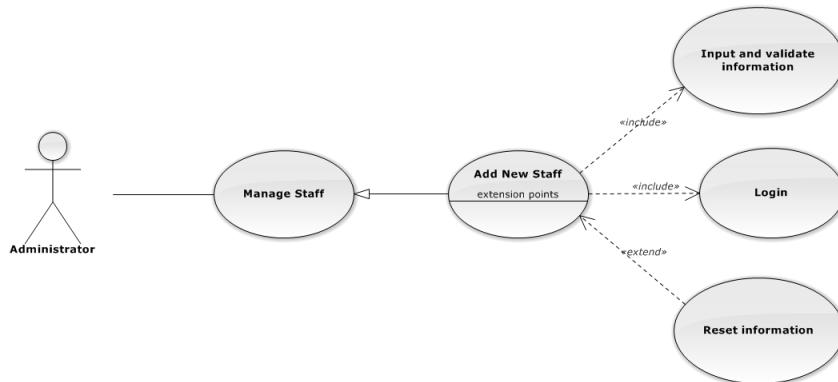


Figure 3-76: Add New Staff Use-Case Diagram

3.2.2.11.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0061	Use-case Version	1.0
Use-case Name	Add New Staff		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	High
<p>Actor: Administrator.</p> <p>Summary: Administrator can insert new staff into the system.</p> <p>Goal: Add new staff.</p> <p>Triggers: At “Quản lý nhân viên” page, Administrator click on “Thêm nhân viên” button and fill information after that click button “Thêm mới” button.</p> <p>Preconditions:</p> <ul style="list-style-type: none"> • User has logged-in as “Admin” role. • The page is fully loaded <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> • Add new case successful and message show “Thêm nhân viên thành công”. • Add current staff’s office to data system. • New staff’s status is “Đang hoạt động”. • Add current with username and default password is “123456” to data system. <p>Failure:</p> <p>Show message “Thêm nhân viên thất bại, hãy kiểm tra lại kết nối database”.</p> <p>Main Success Scenario:</p>			

Step	User	System
1	Administrator click on “Thêm nhân viên” button at “Quản lý nhân viên” page.	Modal popup is displayed with fields for input information of new staff.
2	Fill information into fields and click button “Thêm mới” [Alternative 1] [Exception 1], [Exception 2], [Exception 3], [Exception 4]	Modal popup is closed. System display successful message “Thêm nhân viên thành công!” Update list staff on page

Alternative Scenario:

#	User	System
1	Click “Làm trống” button	All input field reset to blank.

Exceptions:

#	User	System
1	Field “Tên nhân viên” are blank	Shows error message “Nhập tên nhân viên!”.
	Field “Tên đăng nhập”, are blank	Shows error message “Nhập vào tên đăng nhập!”.
	Field “Nhóm nhân viên” are blank	Shows error message “Chọn nhóm cho nhân viên!”.
	Field “Ngày sinh” are blank	Shows error message “Chọn ngày sinh của nhân viên!”.
	Field “Điện thoại di động” are blank	Shows error message “Nhập vào số điện thoại nhân viên!”.
	Field “Email” are blank	Shows error message “Hãy nhập Email của nhân viên!”.
	Input “Email” not follow the rule	Shows error message “Hãy nhập địa chỉ email đúng!”.
	Field “Địa chỉ liên hệ” are blank	Shows error message “Nhập địa chỉ của nhân viên!”.
	Field “Thuộc văn phòng” are blank	Shows error message “Chọn một văn phòng!”.
	Field “Vai trò nhân viên” are blank	Shows error message “Chọn vai trò cho nhân viên!”.
	Field “CMND” are blank	Shows error message “Nhập vào số chứng minh nhân dân!”.

	Field “Ngày cấp CMND” are blank	Shows error message “Chọn ngày cấp chứng minh nhân dân!“.
	Field “Nơi cấp CMND” are blank	Shows error message “Nhập vào nơi cấp chứng minh nhân dân!“.
	Input “Tên đăng nhập” not follow the rule	Shows error message “Tên đăng nhập không được chứa ký tự đặc biệt!“.
2	Input “Tên đăng nhập” is existed in Database	Shows error message “Tên đăng nhập nhân viên đã tồn tại!“.
3	System cannot insert staff to data base.	Shows error message “Tạo nhân viên thất bại!”
4	System error insert staff to data base.	Shows error message “Tạo nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database!“.

Relationships:

- Manage Staff.
- Manage Staff Group

Business Rules:

- Only Staff login with role “Admin” can be use this function.

3.2.2.11.4. UC0062 - Edit Staff

3.2.2.11.4.1. Use-Case Diagram

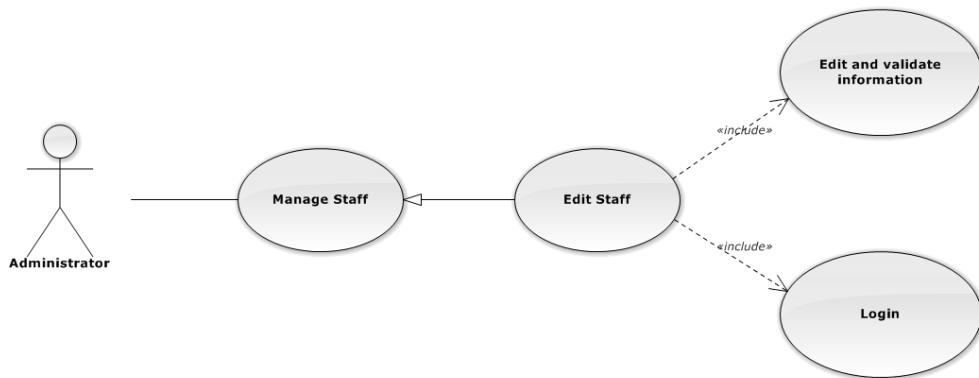


Figure 3-77: Edit Staff Use-Case Diagram

3.2.2.11.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0062	Use-case Version	1.0
Use-case Name	Edit Staff		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
<p>Actor: Administrator.</p> <p>Summary: Administrator can update information of staff.</p> <p>Goal: Administrator can update information of staff and save to database system.</p> <p>Triggers:</p> <ul style="list-style-type: none"> Administrator goes to “Quản lý nhân viên” screen, click button “Chỉnh Sửa” button and modify information, after that click button “Lưu Chính Sửa”. Manager goes to “Chi tiết nhân viên” Popup screen, click on “Chỉnh Sửa” button and modify information, after that click button “Lưu Chính Sửa”. <p>Preconditions:</p> <ul style="list-style-type: none"> Logged-in as “Admin” role. The page is fully loaded <p>Post Conditions:</p> <p>Success:</p> <ul style="list-style-type: none"> Information of Office is updated and saves to database Message show “Cập nhật chi tiết nhân viên thành công” and display information after update on “Quản lý nhân viên” screen. <p>Failure:</p>			

Show message “Cập nhật chi tiết nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database.”

Main Success Scenario:

Step	User	System
1	Manager click on “Chỉnh sửa” button at “Quản lý nhân viên” screen.	Modal popup is displayed with fields for detail information of new staff.
2	Edit information into fields and click button “Lưu chỉnh sửa” [Alternative 1] [Exception 1], [Exception 2], [Exception 3]	Modal popup is close System display successful message “Cập nhật chi tiết nhân viên thành công!” Update list staff on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	Field “Tên nhân viên” are blank	Shows error message “Nhập tên nhân viên!”.
	Field “Tên đăng nhập”, are blank	Shows error message “Nhập vào tên đăng nhập!”.
	Field “Nhóm nhân viên” are blank	Shows error message “Chọn nhóm cho nhân viên!”.
	Field “Ngày sinh” are blank	Shows error message “Chọn ngày sinh của nhân viên!”.
	Field “Điện thoại di động” are blank	Shows error message “Nhập vào số điện thoại nhân viên!”.
	Field “Email” are blank	Shows error message “Hãy nhập Email của nhân viên!”
	Input “Email” not a regular expression	Shows error message “Hãy nhập địa chỉ email đúng!”

	Field “Địa chỉ liên hệ” are blank	Shows error message “Nhập địa chỉ của nhân viên!”.
	Field “Thuộc văn phòng” are blank	Shows error message “Chọn một văn phòng!”.
	Field “Vai trò nhân viên” are blank	Shows error message “Chọn vai trò cho nhân viên!”.
	Field “CMND” are blank	Shows error message “Nhập vào số chứng minh nhân dân!”
	Field “Ngày cấp CMND” are blank	Shows error message “Chọn ngày cấp chứng minh nhân dân!”
	Field “Nơi cấp CMND” are blank	Shows error message “Nhập vào nơi cấp chứng minh nhân dân!”
2	System cannot insert staff to data base.	Shows error message “Cập nhật chi tiết nhân viên thất bại!”
3	System error insert staff to data base.	Shows error message “Cập nhật chi tiết nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database!”

Relationships:
Manage Staff

Business Rules:
Only Staff login with role “Admin” can be use this function.

3.2.2.11.5. UC0063 - Deactivate/Activate staff

3.2.2.11.5.1. Use-CaseDiagram

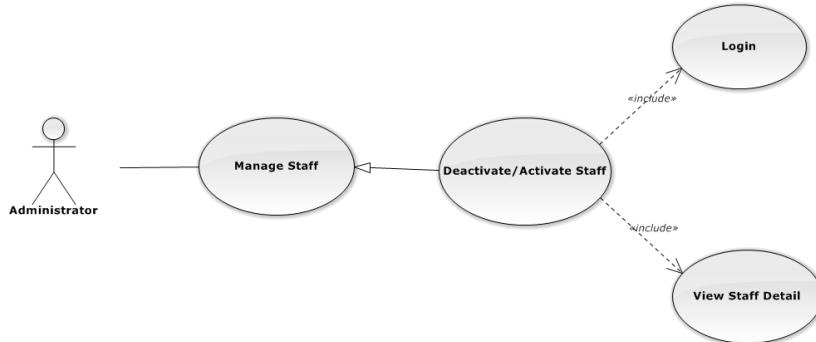


Figure 3-78: Deactivate/Activate Staff Use-Case Diagram

3.2.2.11.5.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0063	Use-case Version	1.0
Use-case Name	Deactivate/Activate staff		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
<p>Actor: Administrator.</p> <p>Summary: Administrator can change status of Staff.</p> <p>Goal: Helps Administrator update Status of staff and save to database system.</p> <p>Triggers: Administrator goes “Chi tiết nhân viên” Pop-Up screen , Click button “Ngừng hoạt động” or “Hoạt động lại”. After that click on “Bỏ qua” or “Xác nhận” button to confirm change status Staff.</p> <p>Preconditions:</p> <ul style="list-style-type: none"> • Logged-in as “Admin” role • The page is fully loaded <p>Post Conditions:</p> <p>Success: Information of Staff is updated and saves to database, message show “[...] đã hoạt động lại!” or “[...] đã ngừng hoạt động!” and display information after update on “Quản lý nhân viên” screen.</p> <p>Failure: Show message “Thay đổi hoạt động nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database”.</p>			

Main Success Scenario:

Step	User	System
1	Supper admin click on “Chỉnh sửa” button at “Quản lí nhân viên” screen.	Show “Chi tiết nhân viên” Pop-up information.
2	On “Chi tiết văn phòng” Pop-up click button “Ngừng hoạt động” if Staff have status “Đang hoạt động” or Click button “Hoạt động lại” if staff have status “Ngừng hoạt động”. [Alternative 1]	Display message box confirm “Bạn có muốn thực hiện thao tác này” with two button “Xác nhận” and “Bỏ qua”
3	User click “Bỏ qua” button	Status of staff not change comeback to “Chi tiết nhân viên” Pop-up screen.
4	User click “ Xác nhận” button [Exception 1] ,[Exception 2]	Status of staff is change and comeback to “Quản lí nhân viên”screen

Alternative Scenario:

Alternative:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	System fail change status of staff	Shows error message “Thay đổi hoạt động nhân viên thất bại!”, “Có lỗi xảy ra trong quá trình xóa nhân viên.”.
2	System error change status of staff.	Shows error message “Thay đổi hoạt động nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database”.

Relationships:

Manage Staff

Business Rules:

Only Staff login with role “Admin” can be use this function.

3.2.2.11.6. UC0064 - Search Staff

3.2.2.11.6.1. Use-Case Diagram

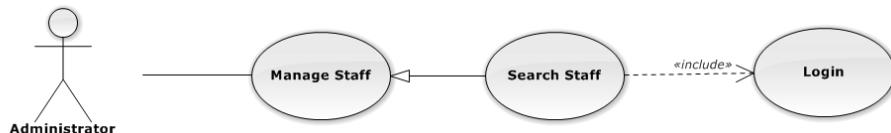


Figure 3-79: Search Staff Use-Case Diagram

3.2.2.11.6.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0064	Use-case Version	1.0
Use-case Name	Search Staff		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Administrator.		
Summary:	Administrator search staff in list of staff		
Goal:	Helps Administrator search staff.		
Triggers:			

- Administrator wants to search staff.
- Administrator input key word is StaffName. When the key up, system will be automatic search.

Preconditions:

- Logged-in as “Admin” role.
- The page is fully loaded

Post Conditions:

Success: List of staff map with word search is displayed.

Failure: Do nothing.

Main Success Scenario:

Step	User	System
1	In “Quản lý nhân viên” screen, input key word at “Tìm kiếm” textbox.	List of staff mapping with word search is display.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Staff

Business Rules:

Only Staff with role=“Admin” can be use this function.

3.2.2.11.7. UC0065 - Reset Password

3.2.2.11.7.1. Use-Case Diagram

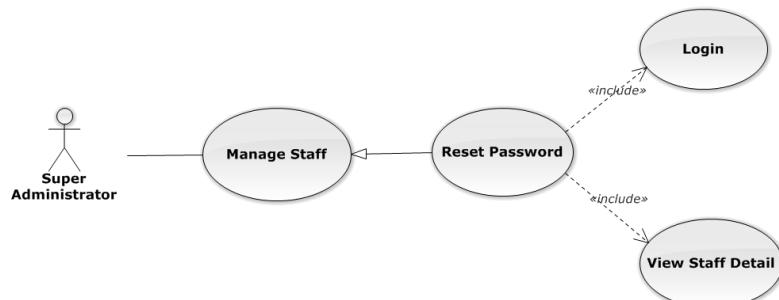


Figure 3-80: Reset Password Use-Case Diagram

3.2.2.11.7.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0065	Use-case Version	1.0
Use-case Name	Reset Password		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
<p>Actor: Supper Administrator.</p> <p>Summary: Supper Administrator can reset password of all staff to default.</p> <p>Goal: Helps Supper Administrator reset password to default is “123456”.</p> <p>Triggers: Supper Supper Administrator wants to reset password staff. Supper Administrator goes to “Staff detail” screen, and click to button “Đặt lại mật khẩu”</p> <p>Preconditions:</p> <ul style="list-style-type: none"> • Logged-in to system. • The page is fully loaded <p>Post Conditions: Success: Default password “123456” is save to database, message show “Khôi phục mật khẩu thành công” Failure:</p> <ul style="list-style-type: none"> • The user is presented with an error message on screen. • Show message “Khôi phục mật khẩu thất bại!”. <p>Main Success Scenario:</p>			

<i>Step</i>	<i>User</i>	<i>System</i>
1	Supper admin click on “Chi tiết” button at “Quản lí nhân viên” screen.	Show “Chi tiết nhân viên” Pop-up information.
2	On “Chi tiết văn phòng” Pop-up click button “Đặt lại mật khẩu” [Alternative 1]	Display message box confirm “Bạn muốn khôi phục mật khẩu nhân viên này về mặc định?” with two button “Xác nhận” and “Bỏ qua”
3	User click “Bỏ qua” button	Password of staff not change comeback to “Chi tiết nhân viên” Pop-up screen.
4	User click “ Xác nhận” button [Exception 1], [Exception 2]	Password of staff is reset to default “123456” and comeback to “Quản lí nhân viên” screen

Alternative Scenario:

#	<i>User</i>	<i>System</i>
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	<i>User</i>	<i>System</i>
1	System cannot reset password staff.	Shows error message “Khôi phục mật khẩu thất bại!”
2	System fail reset password staff.	Shows error message ““Khôi phục mật khẩu thất bại”, “Hãy kiểm tra lại kết nối database.””

Relationships:

Manage Staff

Business Rules:

Only Staff with id=”1” (Super Administrator) can be use this function.

3.2.2.12. Manage Service Type

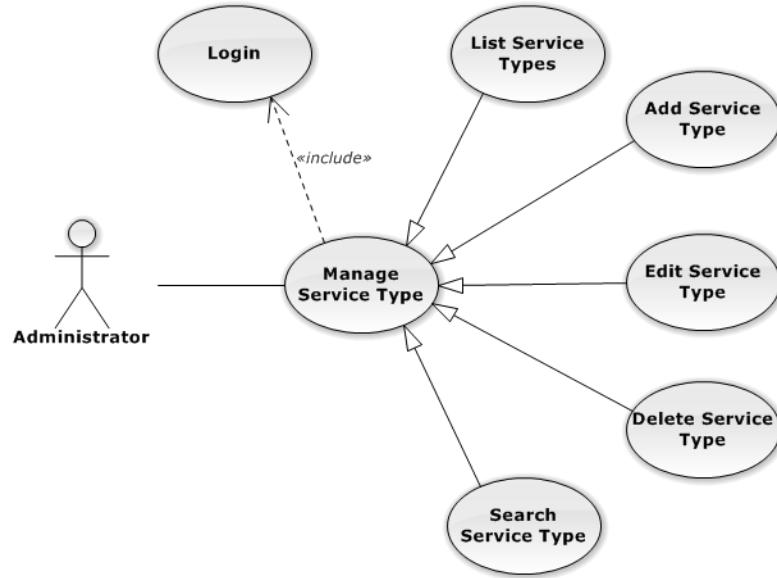


Figure 3-81: Manage Service Type Use-Case Diagram

3.2.2.12.1. UC0066 - List Service Types

3.2.2.12.1.1. Use-Case Diagram

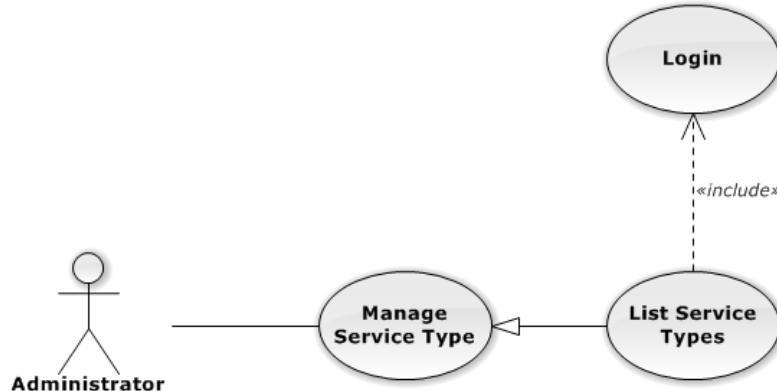


Figure 3-82: List Service Types Use-Case Diagram

3.2.2.12.1.2. Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC0066	Use-case Version	1.0						
Use-case Name	List Service Types								
Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
<p>Actor: Administrator</p> <p>Summary: List All Service Type.</p> <p>Goal: The purpose of List Service Type use case is allowing Admin to view all Services Type.</p> <p>Triggers: User choose “Quản lý Loại Dịch Vụ” in menu.</p> <p>Preconditions: User is authenticated and has role “admin”. The page is fully loaded.</p> <p>Post Conditions: Success: All Services Type is listed. Failure: Do nothing.</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click “Quản lý Loại Dịch Vụ” in menu.</td><td>All Service Types are loaded.</td></tr> </tbody> </table> <p>Alternative Scenario: N/A</p>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Quản lý Loại Dịch Vụ” in menu.	All Service Types are loaded.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click “Quản lý Loại Dịch Vụ” in menu.	All Service Types are loaded.							

Exceptions:

N/A

Relationships:

Manage Service Type

Business Rules:

N/A

3.2.2.12.2. UC0067 - Add New Service Type

3.2.2.12.2.1. Use-Case Diagram

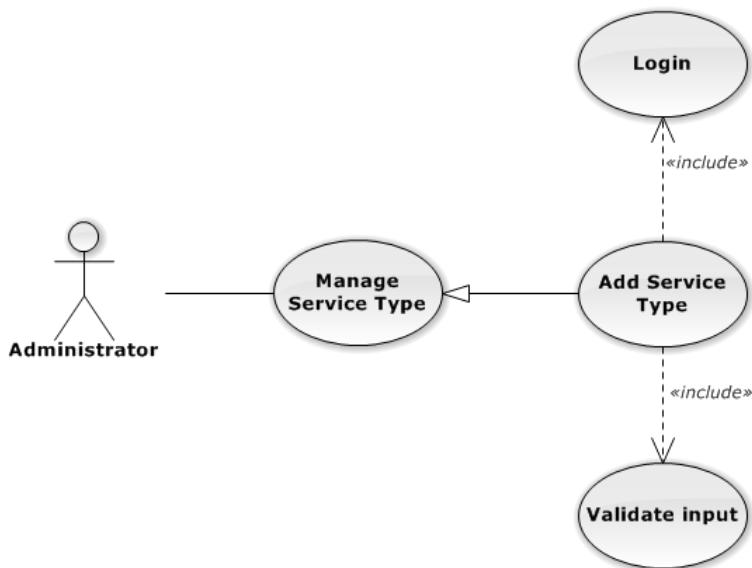


Figure 3-83: Add New Service Type Use-Case Diagram

3.2.2.12.2.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0067	Use-case Version	1.0
Use-case Name	Add New Service Type		

Author	Trần Anh Tuấn														
Date	09/10/2014	Priority	Normal												
Actor: Administrator															
Summary: Add Service Type.															
Goal: The purpose of Add Service Type use case is allowing Admin to add Service Type.															
Triggers: User choose “Quản lý Nhóm Dịch Vụ” in menu. Then click “Thêm loại dịch vụ” button.															
Preconditions: User is authenticated and has role “admin”.															
Post Conditions: Success: New Service Type is created. Failure: No Service Type is created and Error message will be showed.															
Main Success Scenario:															
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click “Thêm loại dịch vụ” button.</td><td>Show add Service type pop-up.</td></tr> <tr> <td>2</td><td>Enters the Service Type Name and Description</td><td></td></tr> <tr> <td>3</td><td>Presses “Thêm mới” button. [Alternative: 1]</td><td>Checks validate, add new Service Type to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Thêm loại dịch vụ” button.	Show add Service type pop-up.	2	Enters the Service Type Name and Description		3	Presses “Thêm mới” button. [Alternative: 1]	Checks validate, add new Service Type to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]
<i>Step</i>	<i>User</i>	<i>System</i>													
1	Click “Thêm loại dịch vụ” button.	Show add Service type pop-up.													
2	Enters the Service Type Name and Description														
3	Presses “Thêm mới” button. [Alternative: 1]	Checks validate, add new Service Type to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]													
Alternative Scenario:															
<table border="1"> <thead> <tr> <th>#</th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Presses “Đóng”, “X” button or click outside pop-up.</td><td>The Add New Service Type pop-up is close.</td></tr> </tbody> </table>				#	<i>User</i>	<i>System</i>	1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Service Type pop-up is close.						
#	<i>User</i>	<i>System</i>													
1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Service Type pop-up is close.													

Exceptions:

#	User	System
1	Service Type Name is missing.	Show error “Nhập tên loại dịch vụ”
2	Add Service type fail.	The Add New Service Type is closed and display error message “Tạo loại dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database.”
1	Add Service type error.	The Add New Service Type is closed and display error message "Tạo loại dịch vụ thất bại!", "Có lỗi xảy ra trong quá trình tạo loại dịch vụ."

Relationships:

Manage Service Type

Business Rules:

N/A

3.2.2.12.3. UC0068 - Edit Service Type

3.2.2.12.3.1. Use-Case Diagram

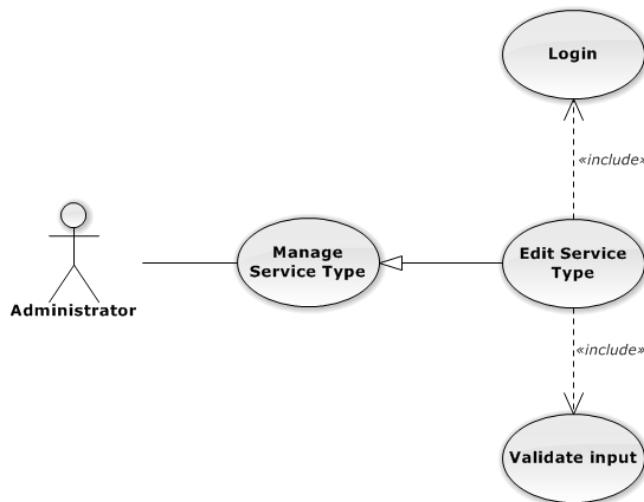


Figure 3-84: Edit Service Type Use-Case Diagram

3.2.2.12.3.2. Use-Case Specification

USE CASE SPECIFICATION												
Use-case No.	UC0068	Use-case Version	1.0									
Use-case Name	Edit Service Type											
Author	Trần Anh Tuấn											
Date	09/10/2014	Priority	Normal									
Actor:												
Administrator												
Summary:												
Update Service Type.												
Goal:												
The purpose of Update Service Type use case is allowing Admin to update Service Type.												
Triggers:												
User choose “Quản lý Loại Dịch Vụ” in menu. Then click update icon.												
Preconditions:												
User is authenticated and has role “admin”.												
Post Conditions:												
Success: The Service Type is Updated.												
Failure: The Service Type is not updated and Error message will be showed.												
Main Success Scenario:												
<table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click Update icon.</td><td>Show update Service type pop-up.</td></tr> <tr> <td>2</td><td>Enters the new Service Type Name and Description</td><td></td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click Update icon.	Show update Service type pop-up.	2	Enters the new Service Type Name and Description	
<i>Step</i>	<i>User</i>	<i>System</i>										
1	Click Update icon.	Show update Service type pop-up.										
2	Enters the new Service Type Name and Description											

3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Checks validate, update Service Type to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]
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Alternative Scenario:

#	User	System
1	Presses “Đóng”, “X” button or click outside pop-up.	The Update Service Type pop-up is close.

Exceptions:

#	User	System
1	Service Type Name is missing.	Show error “Nhập tên loại dịch vụ!” to user.
2	Update Service type fail.	The Add New Service Type is closed and display error message “Chỉnh sửa loại dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database.”
3	Update Service type error.	The Add New Service Type is closed and display error message "Chỉnh sửa loại dịch vụ thất bại!", "Có lỗi xảy ra trong quá trình tạo loại dịch vụ."

Relationships:

Manage Service Type

Business Rules:

N/A

3.2.2.12.4. UC0069 - Delete Service Type

3.2.2.12.4.1. Use-Case Diagram

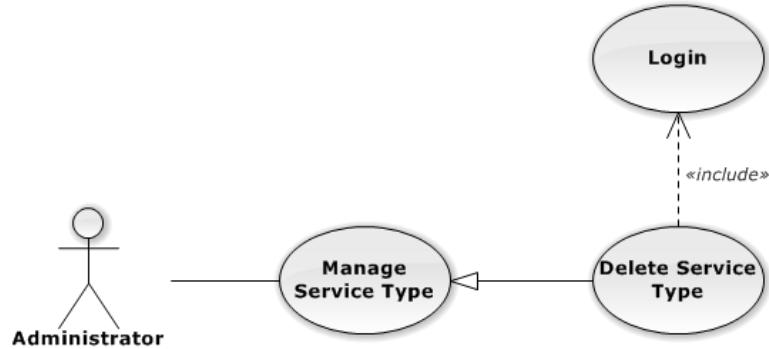


Figure 3-85: Delete Service Type Use-Case Diagram

3.2.2.12.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0069	Use-case Version	1.0
Use-case Name	Delete Service Type		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		
Summary:	Delete Service Type.		
Goal:	The purpose of Delete Service Type use case is allowing Admin to delete Service Type.		
Triggers:	User choose “Quản lý Dịch Vụ” in menu.		

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: The Service Type is deleted.

Failure: The Service Type is not delete and Error message will be showed.

Main Success Scenario:

Step	User	System
1	Click Delete icon.	Show confirm pop-up
2	Presses “Đồng ý” button. [Alternative: 1]	Delete Service Type from database. Show success message. [Exception: 1] [Exception: 2]

Alternative Scenario:

#	User	System
1	Presses “Hủy bỏ”, “X” button.	The confirm pop-up is close.

Exceptions:

#	User	System
1	Delete Service type fail.	The Add New Service Type is closed and display error message “Xóa loại dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database.”
2	Delete Service type error.	The Add New Service is closed and display error message "Xóa loại dịch vụ thất bại!", "Có lỗi xảy ra trong quá trình xóa loại dịch vụ."

Relationships:

Manage Service Type

Business Rules:

N/A

3.2.2.12.5. UC0070 - Search Service Type

3.2.2.12.5.1. Use-Case Diagram

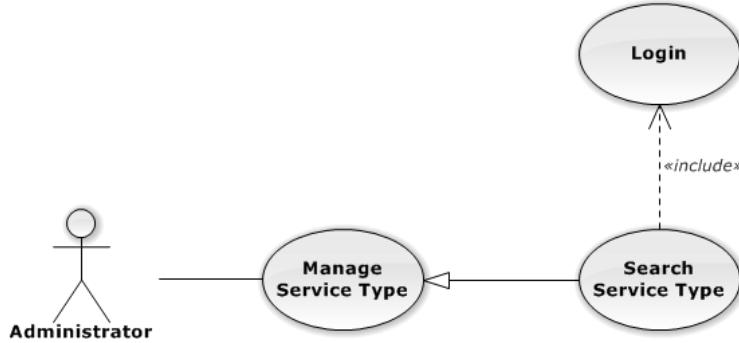


Figure 3-86: Search Service Type Use-Case Diagram

3.2.2.12.5.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0070	Use-case Version	1.0
Use-case Name	Search Service Type		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Administrator			
Summary: Search Service Type.			
Goal: The purpose of Search Service Type use case is allowing Admin to search Service Type.			
Triggers:			

User choose “Quản lý Dịch Vụ” in menu.

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: List of Service Type with search key words is displayed.

Failure: No record is displayed.

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	In “Quản lý loại dịch vụ” screen, input key word at “Tìm kiếm” textbox.	List of Service Type with search key words is displayed.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Service Type

Business Rules:

N/A

3.2.2.13. Manage Service

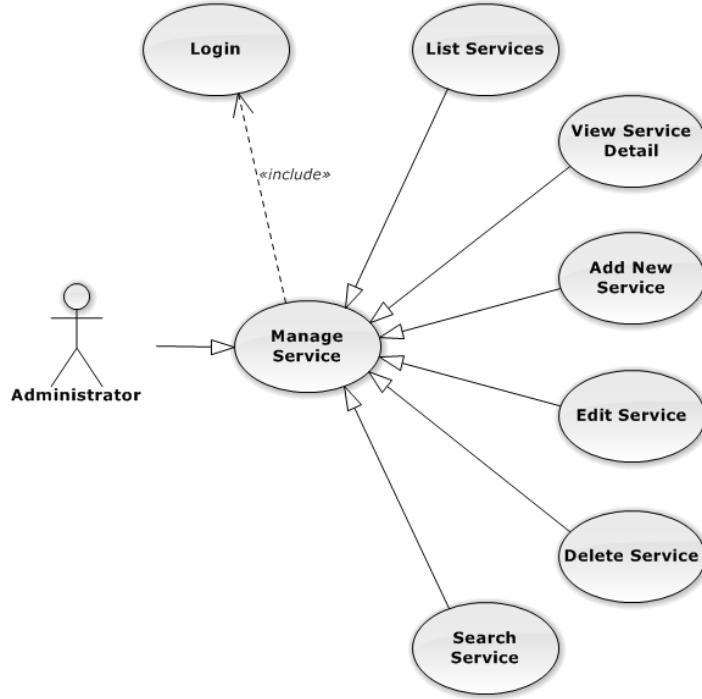


Figure 3-87: Manage Service Use-Case Diagram

3.2.2.13.1. UC0071 - List Services

3.2.2.13.1.1. Use-Case Diagram

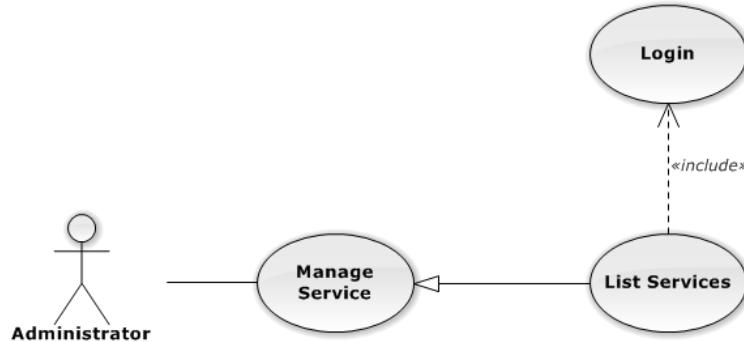


Figure 3-88: List Services Use-Case Diagram

3.2.2.13.1.2. Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC0071	Use-case Version	1.0						
Use-case Name	List Services								
Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
<p>Actor: Administrator</p> <p>Summary: List All Service.</p> <p>Goal: The purpose of List Service use case is allowing Admin to view all Services.</p> <p>Triggers: User choose “Quản lý Dịch Vụ” in menu.</p> <p>Preconditions: User is authenticated and has role “admin”. The page is fully loaded.</p> <p>Post Conditions: Success: All Services is listed. Failure: Do nothing.</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click “Quản lý Dịch Vụ” in menu.</td><td>All Services are loaded.</td></tr> </tbody> </table> <p>Alternative Scenario: N/A</p> <p>Exceptions:</p>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Quản lý Dịch Vụ” in menu.	All Services are loaded.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click “Quản lý Dịch Vụ” in menu.	All Services are loaded.							

N/A
Relationships:
Manage Service
Business Rules:
N/A

3.2.2.13.2. UC0072 - View Service Detail

3.2.2.13.2.1. Use-Case Diagram

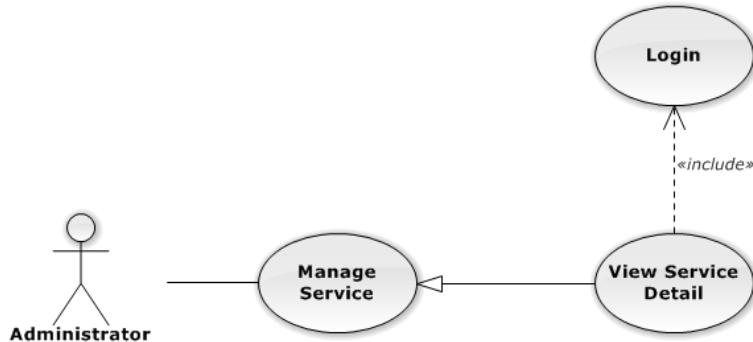


Figure 3-89: View Service Detail Use-Case Diagram

3.2.2.13.2.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0072	Use-case Version	1.0
Use-case Name	View Service Detail		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		

Summary:

View Service Detail.

Goal:

The purpose of View Service Detail use case is allowing Admin to view a Service detail.

Triggers:

User choose “Quản lý Dịch Vụ” in menu. Then click “View detail” icon.

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: Service Detail is showed.

Failure: Do nothing.

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	In Manage Service page, click “View detail” icon	The Service Detail is showed.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Service

Business Rules:

N/A

3.2.2.13.3. UC0073 - Add New Service

3.2.2.13.3.1. Use-Case Diagram

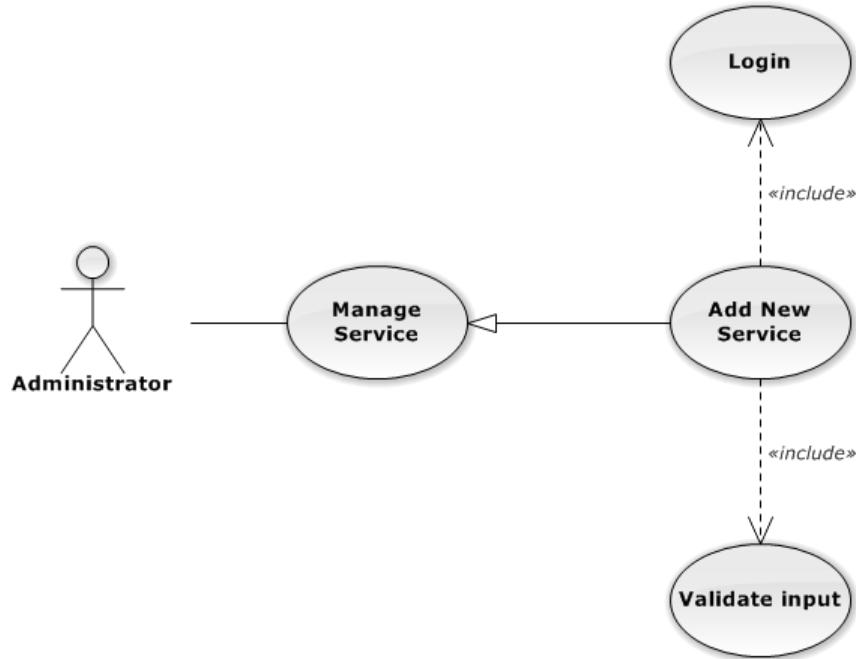


Figure 3-90: Add New Service Use-Case Diagram

3.2.2.13.3.2. Use-Case Specification

USE CASE-n SPECIFICATION			
Use-case No.	UC0073	Use-case Version	1.0
Use-case Name	Add New Service		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		

Summary:

Add new Service.

Goal:

The purpose of Add Service use case is allowing Admin to add new Service.

Triggers:

User choose “Quản lý Dịch Vụ” in menu. Then click “Thêm dịch vụ mới” button.

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: New Service is created.

Failure: No Service is created and Error message will be showed.

Main Success Scenario:

Step	User	System
1	Click “Thêm dịch vụ mới” button.	Show add Service pop-up.
2	Enters the Service Name and Description	
3	Presses “Thêm mới” button. [Alternative: 1]	Checks validate, add new Service to database. Show success message. [Exception: 1] [Exception: 2] [Exception: 3]

Alternative Scenario:

#	User	System
1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Service pop-up is close.

Exceptions:

#	User	System
1	Service Name is missing.	Show error “Nhập tên dịch vụ!” to user.

	Service Group is not chosen.	Show error "Chọn loại dịch vụ!" to user.
2	Add Service fail.	The Add New Service is closed and display error message "Tạo dịch vụ thất bại!", "Hãy kiểm tra lại kết nối database."
3	Add Service error.	The Add New Service is closed and display error message "Tạo dịch vụ thất bại!", "Có lỗi xảy ra trong quá trình tạo dịch vụ."

Relationships:
Manage Service

Business Rules:
N/A

3.2.2.13.4. UC0074 - Edit Service

3.2.2.13.4.1. Use-Case Diagram

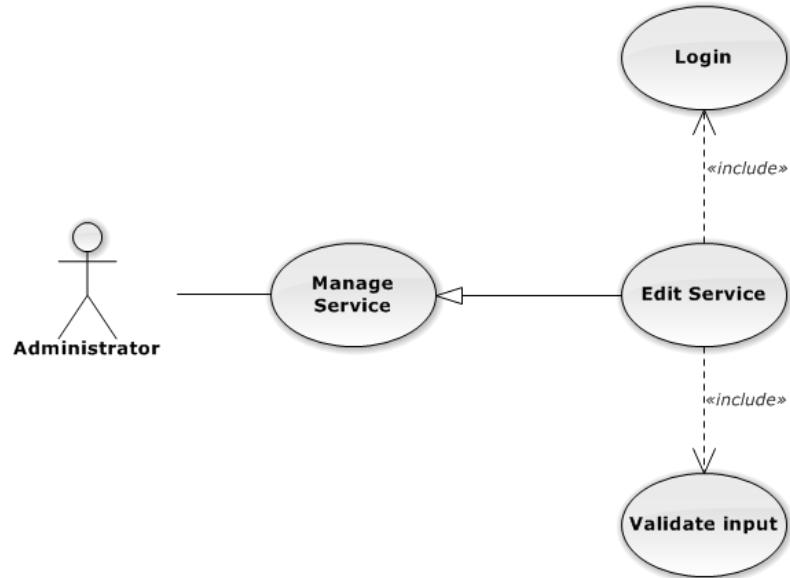


Figure 3-91: Edit Service Use-Case Diagram

3.2.2.13.4.2. Use-Case Specification

USE CASE SPECIFICATION															
Use-case No.	UC0074	Use-case Version	1.0												
Use-case Name	Edit Service														
Author	Trần Anh Tuấn														
Date	09/10/2014	Priority	Normal												
Actor: Administrator															
Summary: Update Service.															
Goal: The purpose of Update Service use case is allowing Admin to update Service.															
Triggers: User choose “Quản lý Dịch Vụ” in menu. Then click update icon.															
Preconditions: User is authenticated and has role “admin”.															
Post Conditions: Success: The Service is Updated. Failure: The Service is not updated and Error message will be showed.															
Main Success Scenario: <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click Update icon.</td><td>Show update Service pop-up.</td></tr> <tr> <td>2</td><td>Enters the new Service Name and Description</td><td></td></tr> <tr> <td>3</td><td>Presses “Lưu chỉnh sửa” button. [Alternative: 1]</td><td>Checks validate, update Service to database. Show success message.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click Update icon.	Show update Service pop-up.	2	Enters the new Service Name and Description		3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Checks validate, update Service to database. Show success message.
<i>Step</i>	<i>User</i>	<i>System</i>													
1	Click Update icon.	Show update Service pop-up.													
2	Enters the new Service Name and Description														
3	Presses “Lưu chỉnh sửa” button. [Alternative: 1]	Checks validate, update Service to database. Show success message.													

		[Exception: 1] [Exception: 2] [Exception: 3]
Alternative Scenario:		
#	<i>User</i>	<i>System</i>
1	Presses “Đóng”, “X” button or click outside pop-up.	The Update Service pop-up is close.
Exceptions:		
#	<i>User</i>	<i>System</i>
1	Service Name is missing.	Show error “Nhập tên dịch vụ!” to user.
2	Update Service fail.	The Add New Service is closed and display error message “Chỉnh sửa dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database.”
1	Update Service error.	The Add New Service is closed and display error message “Chỉnh sửa dịch vụ thất bại!”, “Có lỗi xảy ra trong quá trình chỉnh sửa dịch vụ.”
Relationships:		
Manage Service		
Business Rules:		
N/A		

3.2.2.13.5. UC0075 - Delete Service

3.2.2.13.5.1. Use-Case Diagram

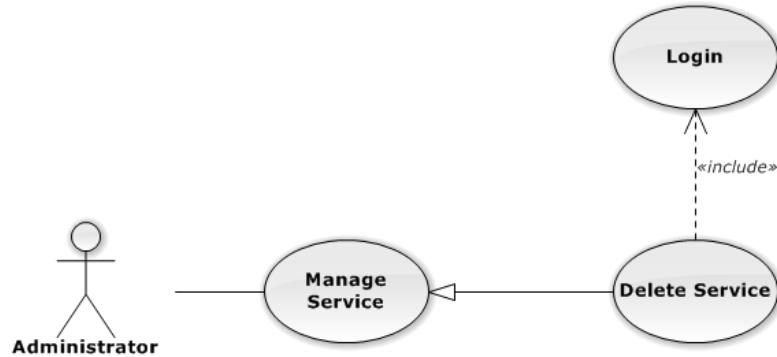


Figure 3-92: Delete Service Use-Case Diagram

3.2.2.13.5.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0075	Use-case Version	1.0
Use-case Name	Delete Service		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor: Administrator			
Summary: Delete Service.			
Goal: The purpose of Delete Service use case is allowing Admin to delete Service.			
Triggers: User choose “Quản lý Dịch Vụ” in menu. Then click delete icon.			

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: The Service is deleted.

Failure: The Service is not delete and Error message will be showed.

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click Delete icon.	Show confirm pop-up
2	Presses “Xác nhận” button. [Alternative: 1]	Delete Service from database. Show success message. [Exception: 1] [Exception: 2]

Alternative Scenario:

#	<i>User</i>	<i>System</i>
1	Presses “Bỏ qua” or “X” button.	The confirm pop-up is close.

Exceptions:

#	<i>User</i>	<i>System</i>
1	Delete Service fail.	The Add New Service is closed and display error message “Xóa dịch vụ thất bại!”, “Hãy kiểm tra lại kết nối database.”
2	Delete Service error.	The Add New Service is closed and display error message “Xóa dịch vụ thất bại!”, “Có lỗi xảy ra trong quá trình xóa dịch vụ.”

Relationships:

Manage Service

Business Rules:

N/A

3.2.2.13.6. UC0076 - Search Service

3.2.2.13.6.1. Use-Case Diagram

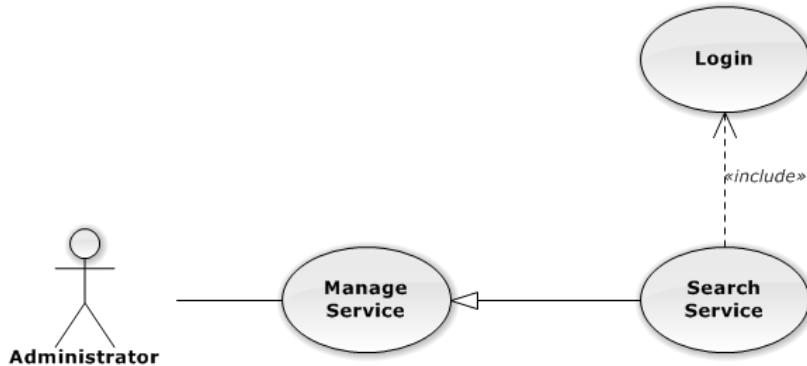


Figure 3-93: Search Service Use-Case Diagram

3.2.2.13.6.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0076	Use-case Version	1.0
Use-case Name	Search Service		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		
Summary:	Search Service.		
Goal:	The purpose of Search Service use case is allowing Admin to search Service.		
Triggers:	User choose “Quản lý Dịch Vụ” in menu.		

Preconditions:

User is authenticated and has role “admin”.

Post Conditions:

Success: List of Service with search key words is displayed.

Failure: No record is displayed.

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	In “Quản lý dịch vụ” screen, input key word at “Tìm kiếm” textbox.	List of Service with search key words is displayed.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Manage Service

Business Rules:

N/A

3.2.2.14. Manage Office

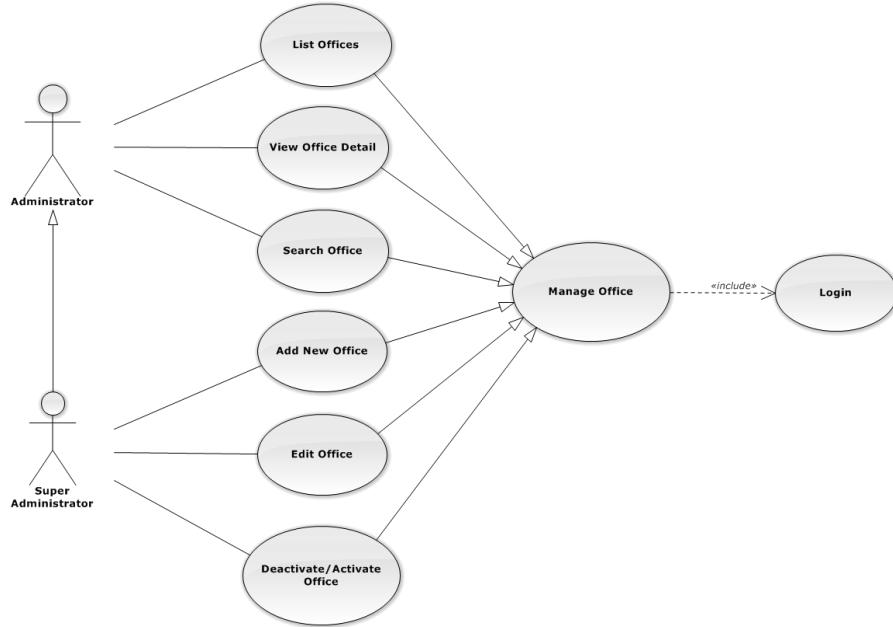


Figure 3-94: Manage Office Use-Case Diagram

3.2.2.14.1. UC0077 - List Offices

3.2.2.14.1.1. Use-Case Diagram

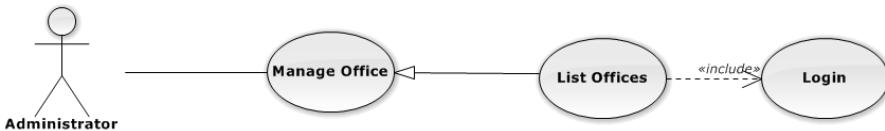


Figure 3-95: List Offices Use-Case Diagram

3.2.2.14.1.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0077	Use-case Version	1.0
Use-case Name	List Offices		

Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
Actor: Administrator									
Summary: Redirect user to “Quản lí văn phòng” page and list all office.									
Goal: To allowing Administrator view any detail information of all Office.									
Triggers: <ul style="list-style-type: none"> User click on User Control Panel and then click on “Quản lí văn phòng” link 									
Preconditions: <ul style="list-style-type: none"> Must be logged-in with “Admin” role. The page is fully loaded 									
Post Conditions: Success: System redirects user to “Quản lí văn phòng” page. Failure: Do nothing.									
Main Success Scenario: <table border="1"> <thead> <tr> <th><i>Step</i></th> <th><i>User</i></th> <th><i>System</i></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Click on “Quản lí văn phòng” link</td> <td>Redirect to “Quản lí văn phòng” page. Show all Office</td> </tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click on “Quản lí văn phòng” link	Redirect to “Quản lí văn phòng” page. Show all Office
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click on “Quản lí văn phòng” link	Redirect to “Quản lí văn phòng” page. Show all Office							
Alternative Scenario: N/A									
Exceptions: N/A									
Relationships: Management Office									
Business Rules: Only Staff with role =”Admin” can be use this function.									

3.2.2.14.2. UC0078 - View Office Detail

3.2.2.14.2.1. Use-Case Diagram

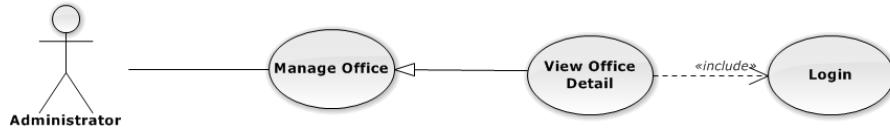


Figure 3-96: View Office Detail Use-Case Diagram

3.2.2.14.2.2. Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0078	Use-case Version	1.0
Use-case Name	View Office Detail		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Administrator		
Summary:	Staff can view detail of office information		
Goal:	Helps staff to view offfce information		
Triggers:	<ul style="list-style-type: none"> On User Control Panel click on “Quản lí văn phòng”, Click click on “Chi tiết” button Click on name’s office link. 		
Preconditions:	<ul style="list-style-type: none"> Must be logged-in The page is fully loaded 		

Post Conditions:

Success: The detail office information is displayed

Failure: Do nothing

Main Success Scenario:

Step	User	System
1	Staff click on “chi tiết” button or click on name’s offfce link [Alternative 1], [Alternative 2], [Alternative 3]	The detail offfce information is displayed

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close
2	If staff login with Id=”1”, Click on “Chỉnh sửa” button	Staff can update information of office (ref 3.2.2.2.4. Update office)
3	If staff login with Id=”1”, Click on “Hoạt động lại” or “Ngừng hoạt động” link	Staff can Deactivate/Activate office (ref 3.2.2.2.5. Deactivate/Activate office)

Exceptions:

N/A

Relationships:

Management office.

Business Rules:

Only Staff login with role “Admin” can be use this function.

3.2.2.14.3. UC0079 - Add New Office

3.2.2.14.3.1. Use-Case Diagram

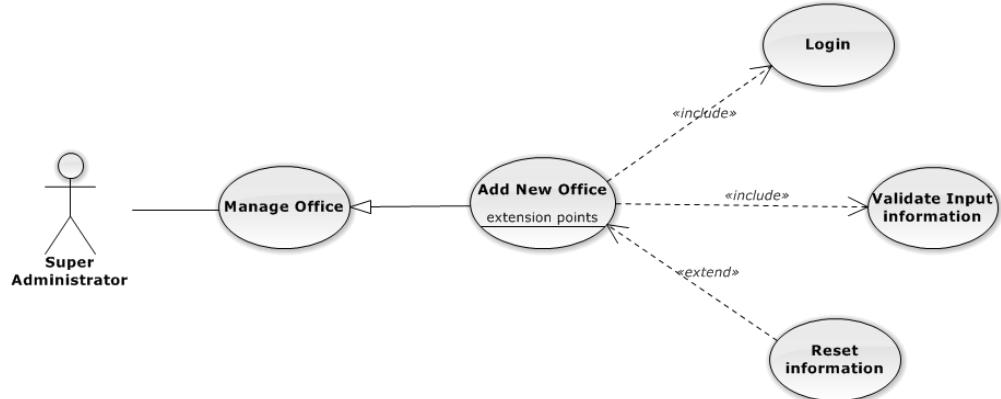


Figure 3-97: Add New Office Use-Case Diagram

3.2.2.14.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0079	Use-case Version	1.0
Use-case Name	Add New Office		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
Actor:	Supper Administrator.		
Summary:	Insert new office in the system.		
Goal:	Add new office.		
Triggers:			

On User Control Panel click on “Quản lý nhân viên” link, at “Quản lý nhân viên” page click on “Thêm văn phòng” button.

Preconditions:

- Logged-in to system.
- The page is fully loaded

Post Conditions:

Success:

- New office is inserted into database, message show “Thêm văn phòng thành công” and display on “Quản lý văn phòng” screen.
- New office’s status is “Đang hoạt động”.

Failure:

Show error message “Thêm văn phòng thất bại, hãy kiểm tra lại kết nối database”.

Main Success Scenario:

Step	User	System
1	Administrator click on “Thêm văn phòng” button at “Quản lý văn phòng” page.	Modal popup is displayed with fields for input information of new office.
2	Fill information into fields and click button “Thêm mới” [Alternative 1] [Exception 2], [Exception 3]	Modal popup is close System display successful message “Thêm văn phòng thành công!” Update list office on page

Alternative Scenario:

#	User	System
1	Click “Làm trống” button	All input field reset to blank.

Exceptions:

Step	User	System
1	Field “Tên văn phòng” are blank	Shows error message “Nhập tên văn phòng!”
	Field “Địa chỉ văn phòng”, are blank	Shows error message “Nhập địa chỉ văn phòng!”

	Field “Người quản lí” are blank	Shows error message “Nhập tên người quản lí văn phòng!”
	Field “Điện thoại” are blank	Shows error message “Nhập số điện thoại văn phòng!”
	Field “Email” are blank	Shows error message “Hãy nhập Email của văn phòng!”
	Input “Email” not follow the rule	Shows error message “Hãy nhập địa chỉ email đúng!”
2	System cannot insert office to data base.	Shows error message “Thêm văn phòng thất bại!”
3	System error insert office to data base.	Shows error message “Thêm văn phòng thất bại!”, “Hãy kiểm tra lại kết nối data base”.

Relationships:
Manage Office

Business Rules:
Only Staff with id=”1” (Supper Administrator) can be use this function.

3.2.2.14.4. UC0080- Edit Office

3.2.2.14.4.1. Use-Case Diagram

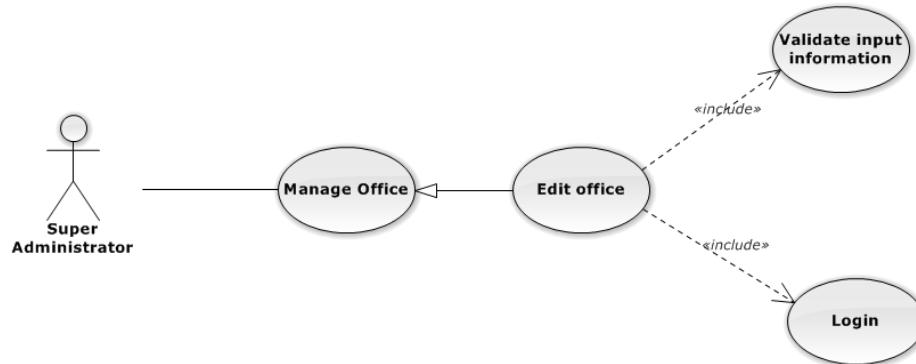


Figure 3-98: Edit Office Use-Case Diagram

3.2.2.14.4.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0080	Use-case Version	1.0
Use-case Name	Edit Office		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal
<p>Actor: Supper Administrator.</p> <p>Summary: Supper Administrator can update information of office.</p> <p>Goal: Helps Supper Administrator update information of office and save to database system.</p> <p>Triggers:</p> <ul style="list-style-type: none"> • Supper Administrator goes to “Quản lý văn phòng” screen, click button “Chỉnh Sửa” and modify information, after that click button “Lưu Chính Sửa”. • Supper Administrator goes to “Chi tiết nhân viên” Popup screen, click on “Chỉnh Sửa” button and modify information, after that click button “Lưu Chính Sửa”. <p>Preconditions:</p> <ul style="list-style-type: none"> • Logged-in to system. • The page is fully loaded <p>Post Conditions:</p> <p>Success:</p> <p>Information of office is updated and saves to database, message show “Cập nhật chi tiết văn phòng thành công” and display information after update on “Quản lý văn phòng” screen.</p> <p>Failure:</p>			

Show error message “Cập nhật chi tiết văn phòng thất bại!”

Main Success Scenario:

Step	User	System
1	Administrator click on “Chỉnh sửa” button at “Quản lý văn phòng” screen.	Modal popup is displayed with fields for input information of new office.
2	Edit information into fields and click button “Lưu chỉnh sửa” [Alternative 1] [Exception 1], [Exception 2], [Exception 3]	Modal popup is close System display successful message “Cập nhật chi tiết văn phòng thành công!” Update list office on page

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close.

Exceptions:

Step	User	System
1	Field “Tên văn phòng” are blank	Shows error message “Nhập tên văn phòng!”
	Field “Địa chỉ văn phòng”, are blank	Shows error message “Nhập địa chỉ văn phòng!”
	Field “Người quản lí” are blank	Shows error message “Nhập tên người quản lí văn phòng!”
	Field “Điện thoại” are blank	Shows error message “Nhập số điện thoại văn phòng!”
	Field “Email” are blank	Shows error message “Hãy nhập Email của văn phòng!”
	Input “Email” not follow the rule	Shows error message “Hãy nhập địa chỉ email đúng!”
2	System cannot update office to data base.	Shows error message “Cập nhật chi tiết văn phòng thất bại!”

3	System error update office to data base.	Shows error message “Cập nhật chi tiết văn phòng thất bại! ”, “Hãy kiểm tra lại kết nối database”.
Relationships:		
Manage Office		
Business Rules:		
Only Staff with id="1"(Supper Administrator) can be use this function.		

3.2.2.14.5. UC0081 - Deactivate/Activate Office

3.2.2.14.5.1. Use-Case Diagram

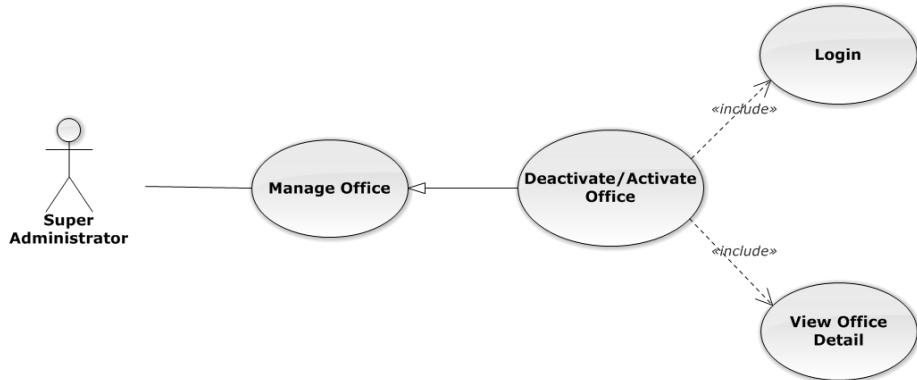


Figure 3-99: Deactivate/Activate Office Use-Case Diagram

3.2.2.14.5.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0081	Use-case Version	1.0
Use-case Name	Deactivate/Activate office		
Author	Trần Anh Tuấn		
Date	09/10/2014	Priority	Normal

Actor:

Supper Administrator.

Summary:

Supper Administrator can change status of Office to De active or Active.

Goal:

Helps Supper Administrator update Status of Office and save to database system.

Triggers:

- Supper Administrator wants to update Status of office.
- Supper Administrator goes “Chi tiết văn phòng” screen Pop-Up, Click button “Ngừng hoạt động văn phòng” or “Hoạt động lại”. After that click on “Bỏ qua” or “Xác nhận” button to confirm change status Office.

Preconditions:

- Logged-in to system.
- The page is fully loaded

Post Conditions:

Success:

Information of Office is updated and saves to database, message show “Văn phòng đã hoạt động lại!” or “Văn phòng đã ngừng hoạt động!” and display information after update on “Quản lý văn phòng” screen.

Failure:

Show error message “Chỉnh hoạt động văn phòng thất bại!

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Administrator click on “Chỉnh sửa” button at “Quản lý văn phòng” screen.	Show “Chi tiết văn phòng” Pop-up information.
2	On “Chi tiết văn phòng” Pop-up click button “Ngừng hoạt động văn phòng” if Office have status “Đang hoạt động” or Click button “Hoạt động lại” if Office have status “Ngừng hoạt động”. [Alternative 1]	Display message box confirm “Bạn có muốn thực hiện thao tác này” with two button “Xác nhận” and “Bỏ qua”

3	User click “Bỏ qua” button	Status of Office not change comeback to “Chi tiết văn phòng” Pop-up screen.
4	User click “Xác nhận” button [Exception 1], [Exception 2]	Status of Office is change and comeback to “Quản lý văn phòng” screen

Alternative Scenario:

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close

Exceptions:

#	User	System
1	System error update status office to data base.	Shows error message “Chỉnh hoạt động văn phòng thất bại!”, “Hãy kiểm tra lại kết nối database!”.
2	System error update status office to data base.	Shows error message “Chinh hoạt động văn phòng thất bại!”, “Có lỗi xảy ra trong quá trình xóa văn phòng!”.

Relationships:

Manage Office

Business Rules:

Only Staff with id=”1”(Supper Administrator) can be use this function.

3.2.2.14.6. UC0082 - Search Office

3.2.2.14.6.1. Use-Case Diagram

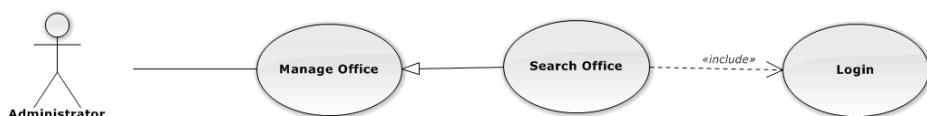


Figure 3-100: Search Office Use-Case Diagram

3.2.2.14.6.2. Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC0082	Use-case Version	1.0						
Use-case Name	Search Office								
Author	Trần Anh Tuấn								
Date	09/10/2014	Priority	Normal						
<p>Actor: Administrator.</p> <p>Summary: Administrator search Office in list of office</p> <p>Goal: Helps Administrator search Office.</p> <p>Triggers:</p> <ul style="list-style-type: none"> • Manager wants to search office. • Manager goes to “Quản lý văn phòng” screen, input word into “Tìm Kiếm” textbox. <p>Preconditions:</p> <ul style="list-style-type: none"> • Logged-in as “Admin” role. • The page is fully loaded <p>Post Conditions:</p> <p>Success: List of Office map with word search is displayed. Failure: Do nothing</p> <p>Main Success Scenario:</p> <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>In “Quản lý văn phòng” screen, input key word at “Tim kiem” textbox.</td><td>List of office mapping with word search is display.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	In “Quản lý văn phòng” screen, input key word at “Tim kiem” textbox.	List of office mapping with word search is display.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	In “Quản lý văn phòng” screen, input key word at “Tim kiem” textbox.	List of office mapping with word search is display.							

Alternative Scenario: N/A
Exceptions: N/A
Relationships: Manage Office
Business Rules: N/A

3.2.2.15. Statistic

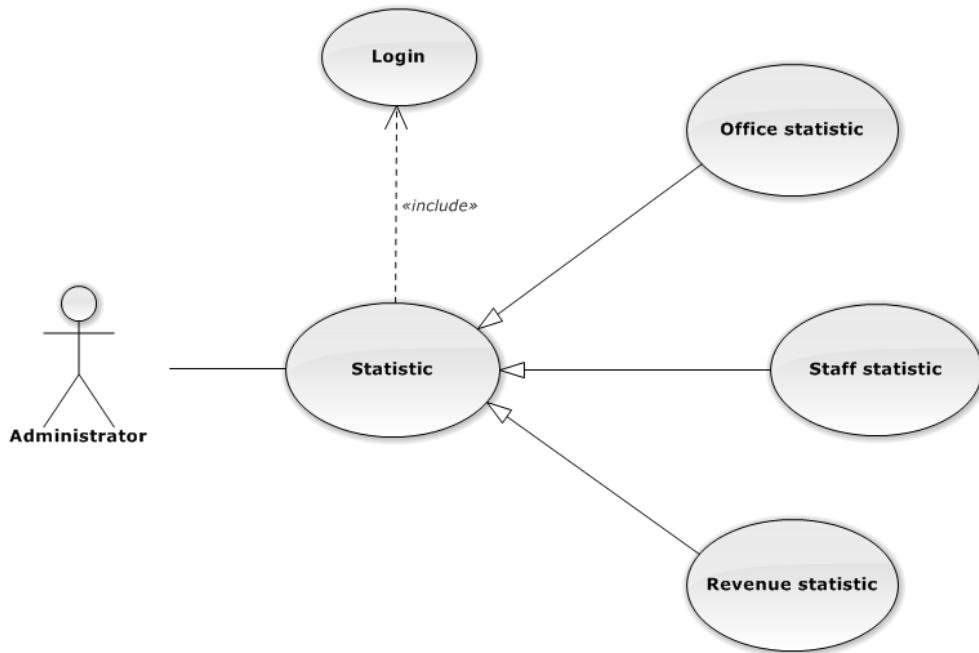


Figure 3-101: Statistic Use-Case Diagram

3.2.2.15.1. UC0083 - Office Statistic

3.2.2.15.1.1. Use-Case Diagram

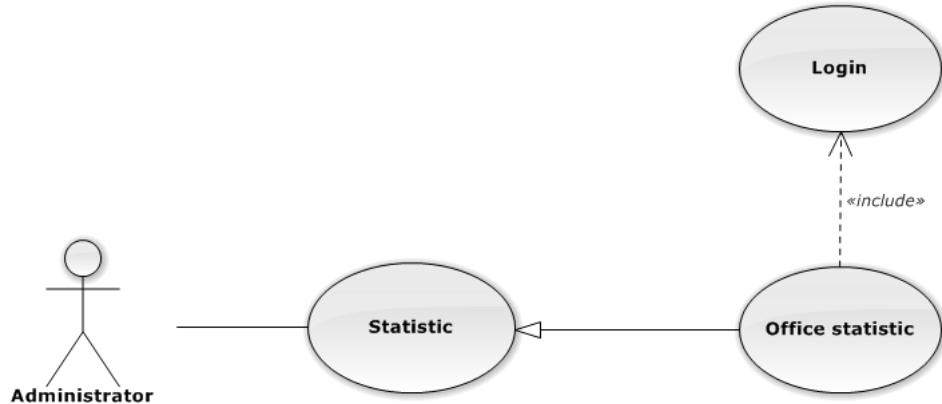


Figure 3-102: Office Statistic Use-Case Diagram

3.2.2.15.1.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0083	Use-case Version	1.0
Use-case Name	Office Statistic		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:	Administrator.		
Summary:	The statistic about office.		
Goal:	The purpose of Office Statistic use case is allowing User to view Office index in graphs.		

Triggers:

User choose “Thông kê” link in menu.

Preconditions:

User is authenticated.

Post Conditions:

Success: The graphs are showed.

Failure: N/A

Main Success Scenario:

Step	User	System
1	Click “Văn phòng” tab in statistic page.	The graphs are loaded.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Statistic

Business Rules:

N/A

3.2.2.15.2. UC0084 - Staff Statistic

3.2.2.15.2.1. Use-Case Diagram

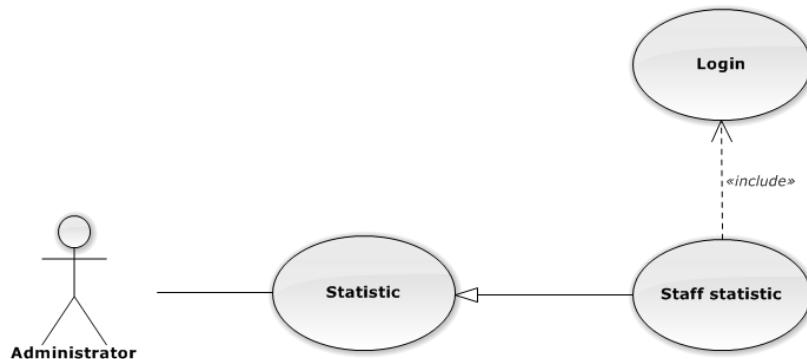


Figure 3-103: Staff Statistic Use-Case Diagram

3.2.2.15.2.2. Use-Case Specification

USE CASE SPECIFICATION									
Use-case No.	UC0084	Use-case Version	1.0						
Use-case Name	Staff Statistic								
Author	Đặng Nguyễn Khiêm								
Date	09/10/2014	Priority	Normal						
Actor: Administrator.									
Summary: The statistic about staffs.									
Goal: The purpose of Staff Statistic use case is allowing User to view Staff index in graphs.									
Triggers: User choose “Thông kê” link in menu.									
Preconditions: User is authenticated.									
Post Conditions: Success: The graphs are showed. Failure: N/A									
Main Success Scenario: <table border="1"> <thead> <tr> <th><i>Step</i></th><th><i>User</i></th><th><i>System</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click “Nhân viên” tab in statistic page.</td><td>The graphs are loaded.</td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click “Nhân viên” tab in statistic page.	The graphs are loaded.
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click “Nhân viên” tab in statistic page.	The graphs are loaded.							
Alternative Scenario: N/A									
Exceptions:									

N/A
Relationships:
Statistic
Business Rules:
N/A

3.2.2.15.3. UC0085 - Revenue Statistic

3.2.2.15.3.1. Use-Case Diagram

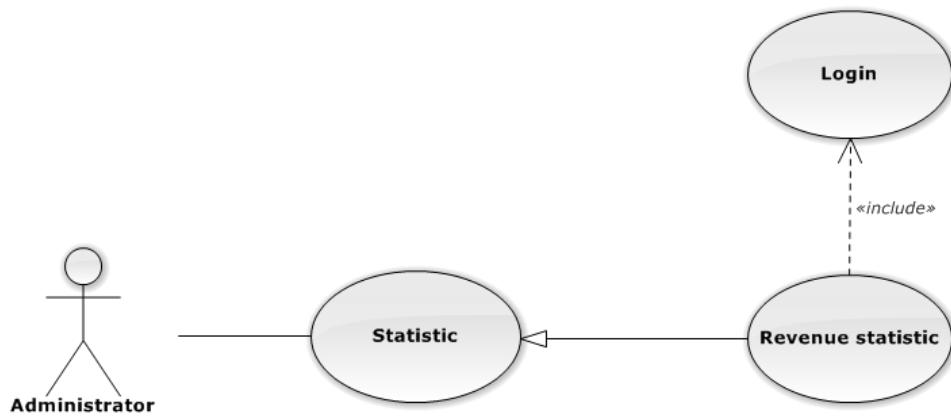


Figure 3-104: Revenue Statistic Use-Case Diagram

3.2.2.15.3.2. Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0085	Use-case Version	1.0
Use-case Name	Revenue Statistic		
Author	Đặng Nguyễn Khiêm		
Date	09/10/2014	Priority	Normal
Actor:			

Administrator.

Summary:

The statistic about revenue.

Goal:

The purpose of Revenue Statistic use case is allowing User to view Revenue index in graphs.

Triggers:

User choose “Thông kê” link in menu.

Preconditions:

User is authenticated.

Post Conditions:

Success: The graphs are showed.

Failure: N/A

Main Success Scenario:

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click “Doanh thu” tab in statistic page.	The graphs are loaded.

Alternative Scenario:

N/A

Exceptions:

N/A

Relationships:

Statistic

Business Rules:

N/A

3.2.3. Non-Functional Requirements

3.2.3.1. Reliability

The systems with high reliability, can be used like “always on” system. However, if exist accident, it's not need require immediate repair. All information and Cases can be updated later.

3.2.3.2. Availability

The system always responds to every user who got permission. The expected downtime for maintenance is about 5 minutes each time.

3.2.3.3. Security

Users must login for using the system. The user passwords are MD5 encrypted before being put into Database. Staff are restricted to view other user's information and any function. Super Administrator has full permission to use the system.

3.2.3.4. Maintainability

Each component only perform specific functions so the modification of a component will not affect other components.

3.2.3.5. Portability

The system can be accessed anywhere with a web browser and Internet connection. It can be run on any browser, but recommend for user is Mozilla Firefox with highest version.

3.2.3.6. Performance

N/A

3.3. Entity Relationship Diagram

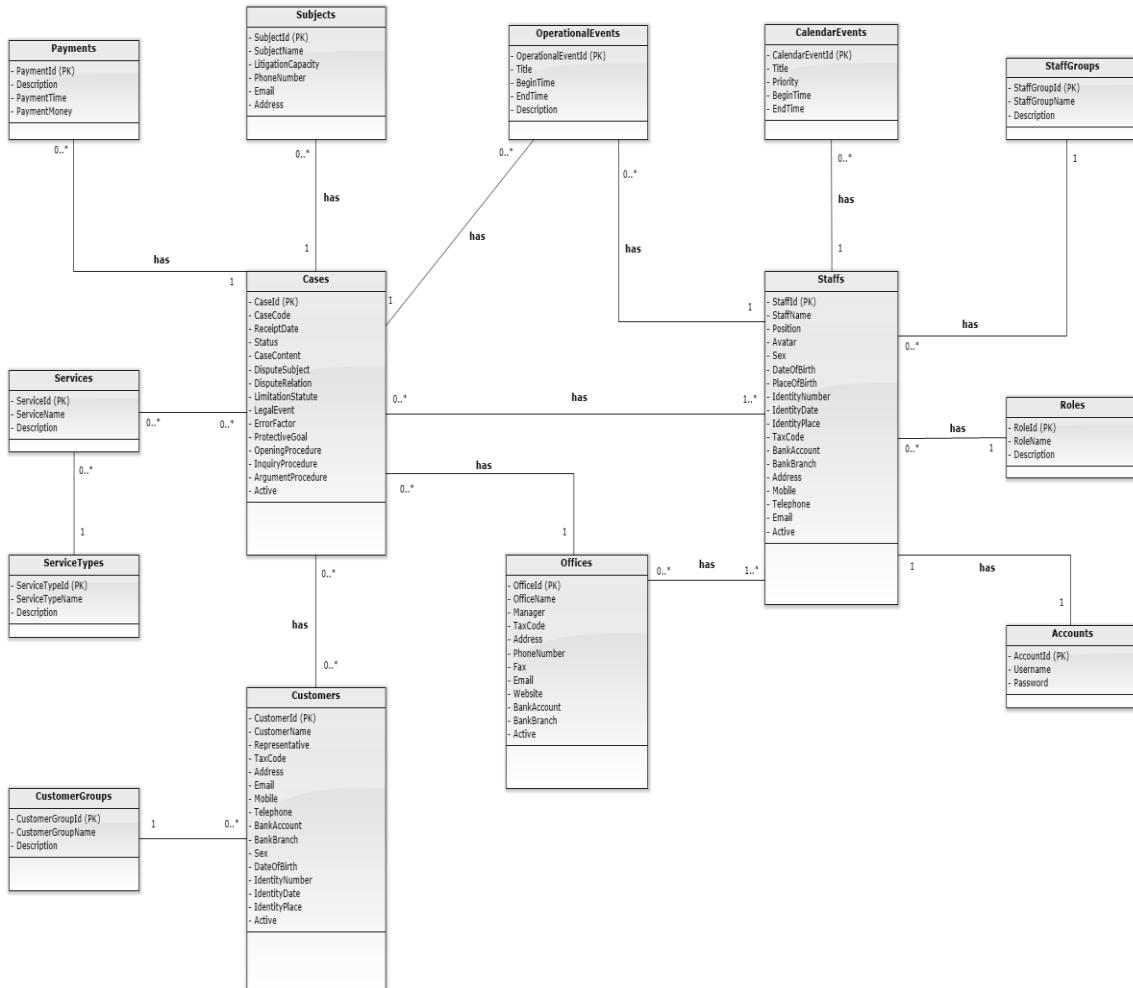


Figure 3-105: Entity Relationship Diagram

Report No.4: Software Design Specification

4.1. Design Overview

This document describes the detailed design for both architectural and user interface design of the Law Firm Management System. It includes the architectural design and the detailed design of common functions and business functions. It also includes the design of database model. Each section in this report will describe a perspective of the system specifically.

The architectural design describes the overall architecture of the system, and the architecture of each main component and subsystem. It will describe the patterns being used, the role of each component and the role of the system in the working environment, gives you an overview how the system is about to work.

The detailed design describes static and dynamic structure for each component and function. It includes class diagrams, class explanations, and sequence diagrams of the main use cases.

The database design describes the relationship between entities, and details of each entity.

The user interface design describes the layout of the system, and some design for the screens.

4.2. System Architectural Design

4.2.1. Choice of System Architecture

4.2.1.1. System Architecture

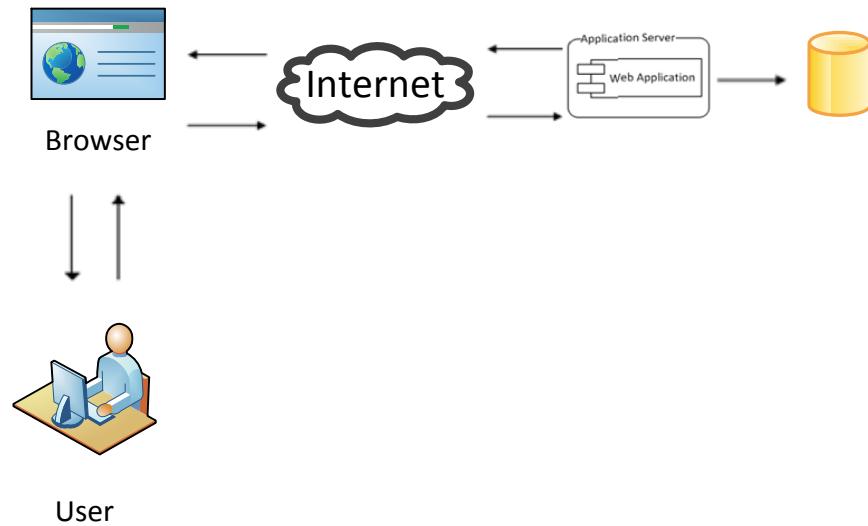


Figure 4-1: System Architecture

- Database: This is the central data storage for the system.
- Management site: This is the website to manage Case, Customer, Staff, Service, Office.

4.2.1.2. MVC Architecture

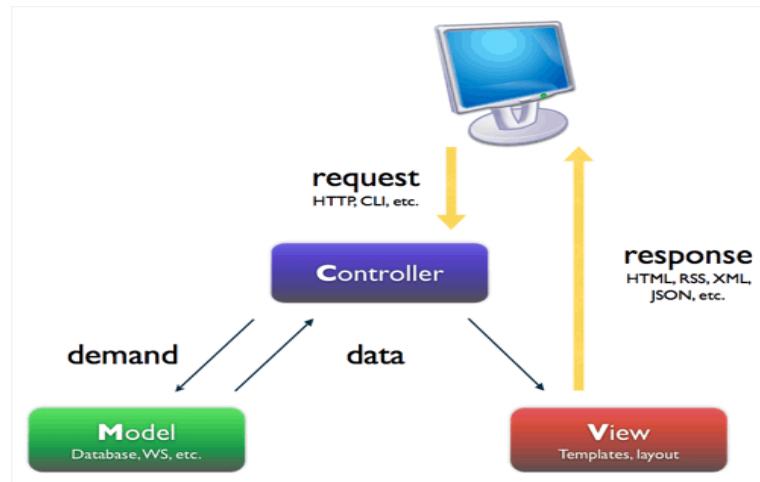


Figure 4-2: MVC Architecture

- Model: Functions that interact with the database or perform complex operations. In this architecture, model includes business logic and data access in one layer.
- View: The view displays the data and also takes input from user. It renders the model data into a form, such as graphics, buttons, and tables, and so on to display to the user.
- Controller: The controller handles all requests coming from the view or user interface. The data flows to whole application are controlled by controller.

4.2.2. Discussion of Alternative Designs

4.2.3. Description of System Interface

4.2.3.1. User Interfaces

- UI should be simple, model and easy to use.
- Support drag & drop easy for using Calendar Event.

4.2.3.2. Hardware Interfaces

The site should be deployed and available to many devices can be used online.

- Server hardware: Support Windows hosting
- Client hardware: Can be desktop, laptop, smart phone, tablet,.. have internet connection

4.2.3.3. Software Interfaces

Run best on FireFox browser.

4.2.3.4. Communication Interfaces

The system uses HTTP protocol to communicate between server and clients.

4.2.4. Architectural Presentation

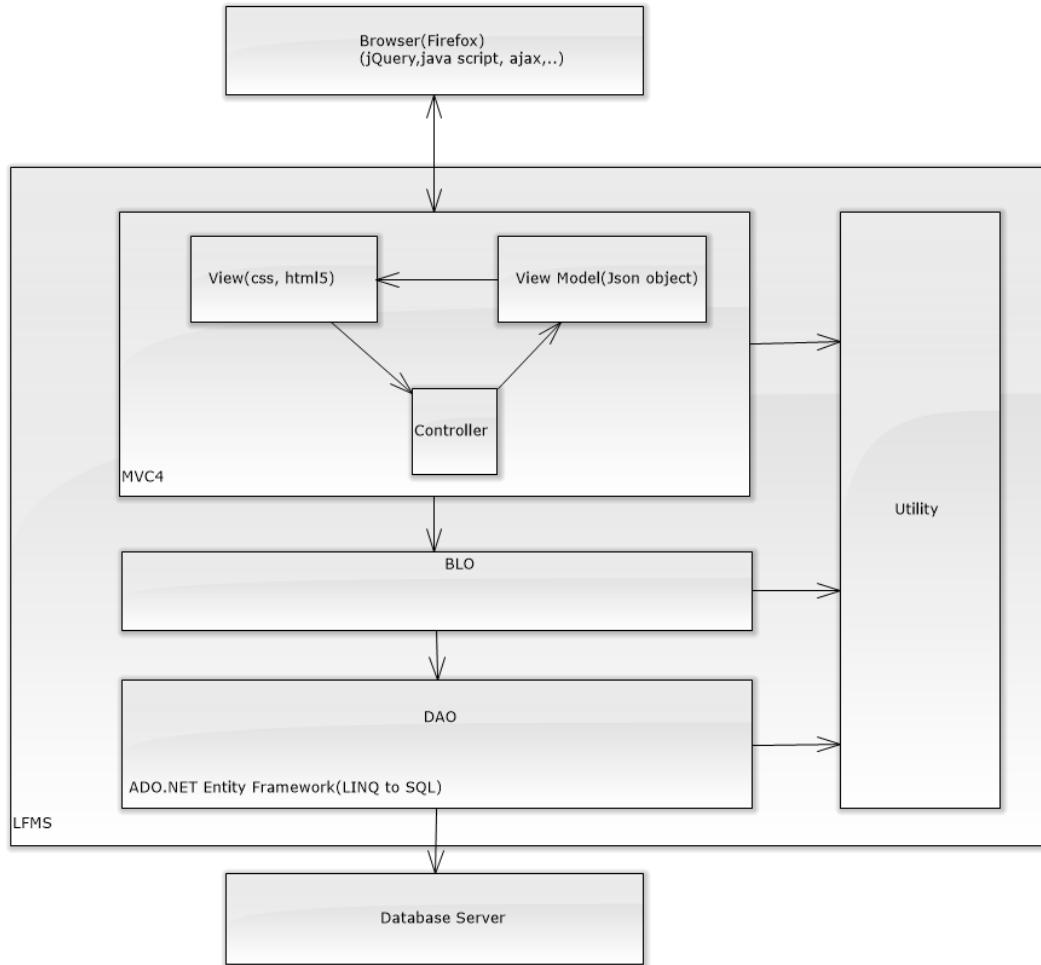


Figure 4-3: System overview

- The view knows how to display, and might allow users to edit the data from the Database Server
- The controller receives all the action from view or by system calling, the controller will send request to business logic layer of system (BLO) and call to DAO from this. DAO is a layer will execute all query data to database. Finally, the controller will use Model (Json Object) and return it to view.
- Utility layer is used to parse data

4.2.5. Package Diagram

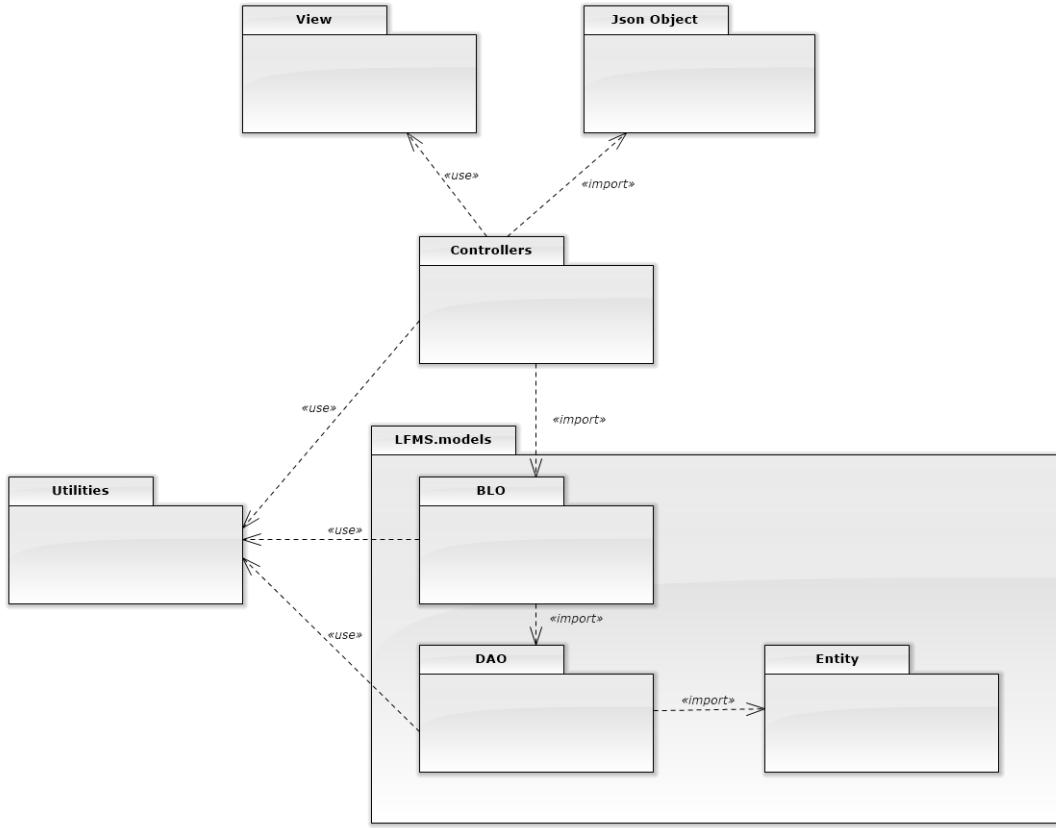


Figure 4-4: Package Diagram

4.3. Detailed Design

4.3.1. Data Model

4.3.1.1. Data Model Class Diagram

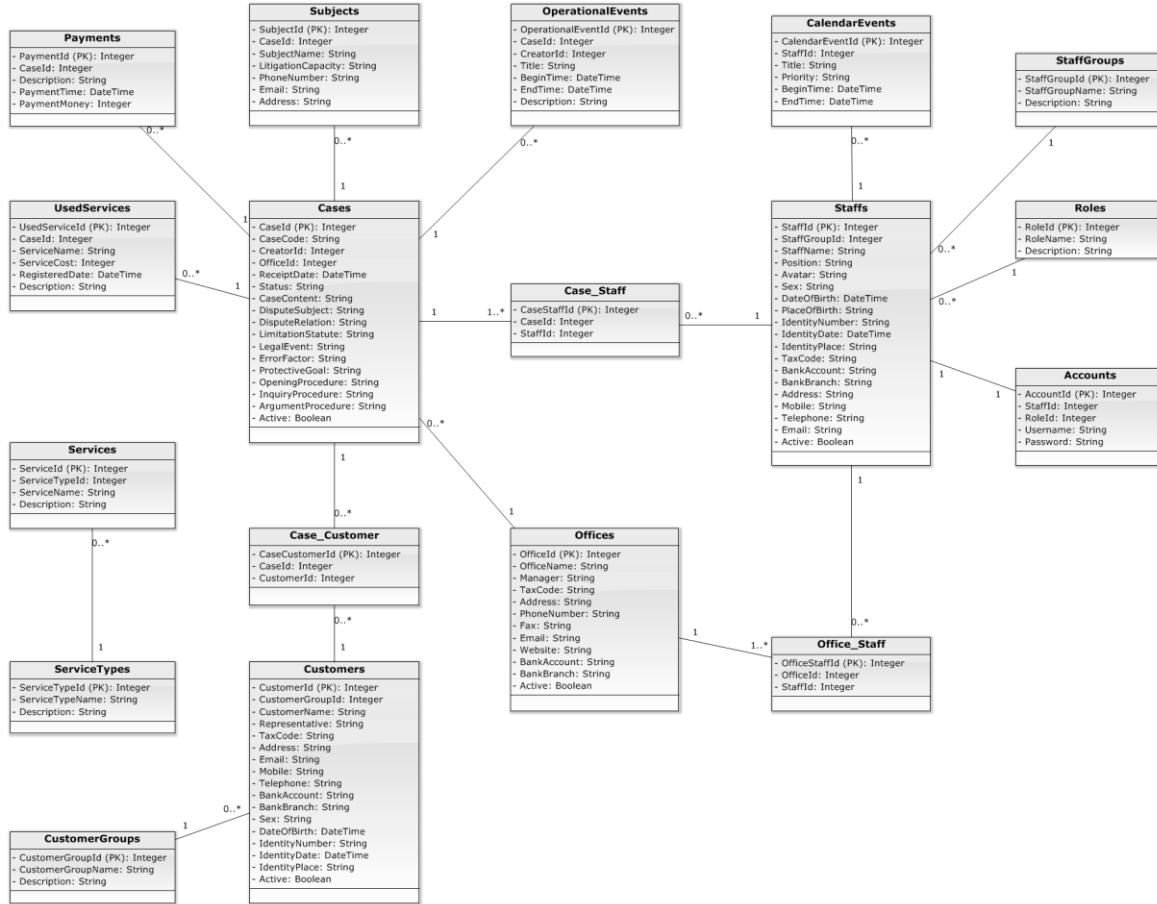


Figure 4-5: Data Model Class Diagram

4.3.2. Controller

4.3.2.1. Controller Class Diagram

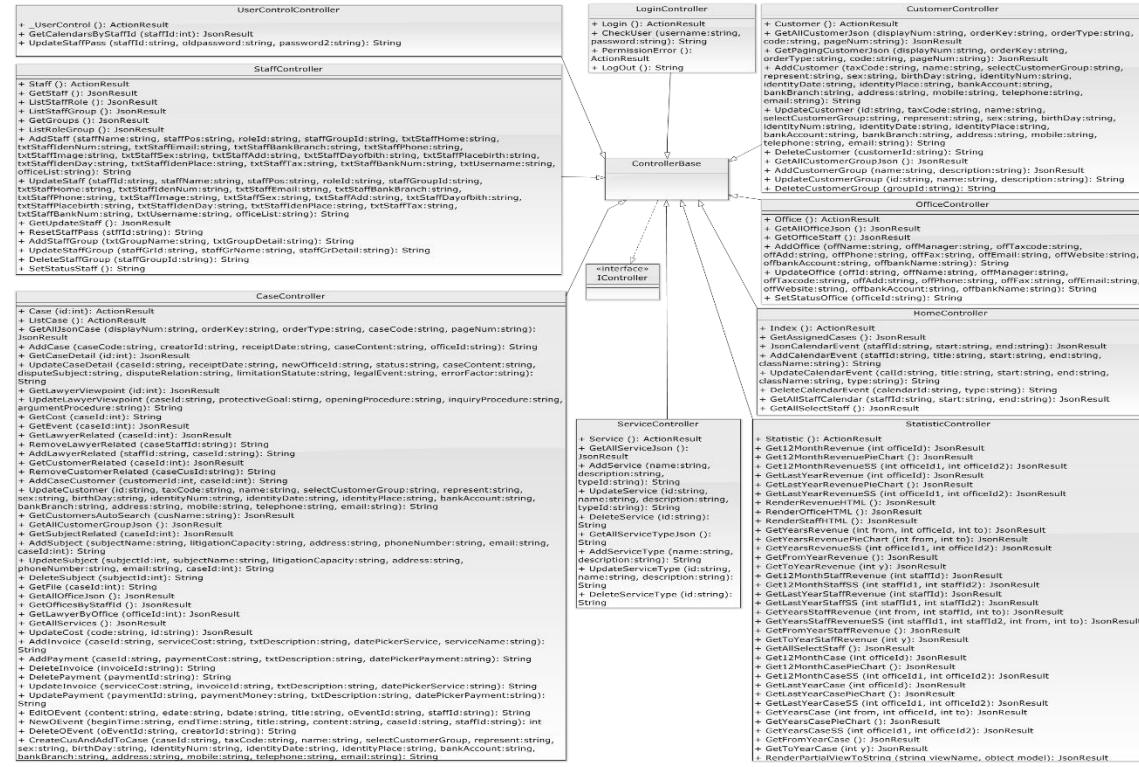


Figure 4-6: Controller Class Diagram

4.3.2.2. Controller Class Diagram Explanation

4.3.2.2.1. UserControlController

Class	UserControlController
Description	This class execute all action of user control.
Base Class	ControllerBase
Constructor	N/A
Prototype	N/A
Source File	UserControlController.cs
Namespace	LFMS.Controllers
Attributes	N/A

Capstone Project: LFMS

Methods	Name	Input	Output	Description
	_UserControl	N/A	ActionResult	This method execute to return partialview of user control.
	GetCalendarsByStaffId	int staffId	JsonResult	This method execute to call method of userControlBL O to get calendar of staff
	UpdateStaffPass	int staffId string oldpassword string password2	String	This method execute to call method of userControlBL O to update new password of staff.

4.3.2.2.2. CustomerController

Class	CustomerController			
Description	This class execute all action of customer			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			
Source File	CustomerController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description

Capstone Project: LFMS

	_Customer	N/A	ActionResult	This method excute to return view of customer.
	GetAllCustomerJson	int displayNum int orderKey string orderType int pageNum	JsonResult	This method excute to call method of CustomerBL O to get all customer after paging and return a view of customer.
	GetPagingCustomerJson	int displayNum int orderKey string orderType int pageNum	JsonResult	This method excute to call method of CustomerBL O to get all customer after paging and return a json object.

Capstone Project: LFMS

	AddCustomer string taxCode string name int selectCustomerGroup string represent string sex string birthDay string identityNum string identityDate string identityPlace string bankAccount string bankBranch string address string mobile string telephone string email	String	This method excute to call method of CustomerBL O to add new a customer.
	UpdateCustomer Int id string taxCode string name int selectCustomerGroup string represent string sex string birthDay string identityNum string identityDate string identityPlace string bankAccount string bankBranch string address string mobile string telephone	String	This method excute to call method of CustomerBL O to update information of a customer.
	DeleteCustomer int customerId	String	This method excute to call method of CustomerBL O to delete a customer.

Capstone Project: LFMS

	GetAllCustomerGroupJson	N/A	JsonResult	This method excute to call method of CustomerBL O to get all group of customer and return partialview.
	AddCustomerGroup	string name string description	String	This method excute to call method of CustomerBL O to add new a group of customer.
	UpdateCustomerGroup	int id string name string description	String	This method excute to call method of CustomerBL O to update a group of customer.
	DeleteCustomerGroup	int groupId	String	This method excute to call method of CustomerBL O to delete a group of customer.

4.3.2.2.3. StaffController

Class	StaffController			
Description	This class execute all action of staff			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			
Source File	StaffController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Staff	N/A	ActionResult	This method execute to return view of staff.
	GetStaff	N/A	JsonResult	This method execute to call method of StaffBLO to get all staff and return a view of all staff.
	ListStaffRole	N/A	JsonResult	This method execute to call method of StaffBLO to get all role of staff.
	ListStaffGroup	N/A	JsonResult	This method execute to call method of StaffBLO to get all group of staff.

Capstone Project: LFMS

	GetGroups	N/A	JsonResult	This method execute to call method of StaffBLO to get all group of staff and return partialview.
	ListRoleGroup	N/A	JsonResult	This method execute to call method of StaffBLO to get all role of each group of staff.
	AddStaff	string staffName string staffPos int roleId int staffGroupId string txtStaffHome string txtStaffIdenNum string txtStaffEmail string txtStaffBankBranch string txtStaffPhone string txtStaffImage string txtStaffSex string txtStaffAdd string txtStaffDayofbith string txtStaffPlacebirth string txtStaffIdenDay string txtStaffIdenPlace string txtStaffTax string txtStaffBankNum string txtUsername int txtAppendantPeople string cboOffice	string	This method execute to call method of StaffBLO to add new a staff.

Capstone Project: LFMS

	UpdateStaff string staffName string staffPos int roleId int staffGroupId string txtStaffHome string txtStaffIdenNum string txtStaffEmail string txtStaffBankBranch string txtStaffPhone string txtStaffImage string txtStaffSex string txtStaffAdd string txtStaffDayofbirth string txtStaffPlacebirth string txtStaffIdenDay string txtStaffIdenPlace string txtStaffTax string txtStaffBankNum string txtUsername int txtAppendantPeople string cboOffice	String	This method execute to call method of StaffBLO to add update information of staff.
	GetUpdateStaff N/A	JsonResult	This method execute to call method of StaffBLO to get all staff after update.
	ResetStaffPass int staffId	String	This method execute to call method of StaffBLO to reset new password for staff.

Capstone Project: LFMS

AddStaffGroup	string txtGroupName string txtGroupDetail	string	This method execute to call method of StaffBLO to add new a group of staff.
UpdateStaffGroup	int staffGrId string staffGrName string staffGrDetail	String	This method execute to call method of StaffBLO to add update information of a group of staff.
DeleteStaffGroup	int staffGroupId;	String	This method execute to call method of StaffBLO to delete a group of staff.
SetStatusStaff	int staffId;	String	This method execute to call method of StaffBLO to set status of staff.

4.3.2.2.4. CaseController

Class	CaseController
Description	This class execute all action of case.
Base Class	ControllerBase
Constructor	N/A
Prototype	N/A
Source File	CaseController.cs
Namespace	LFMS.Controllers

Capstone Project: LFMS

Attributes	N/A			
Methods	Name	Input	Output	Description
	Case	int id	ActionResult	This method excute to get authorize and return view of case.
	ListCase	N/A	ActionResult	This method excute to return view of list of case.
	GetAllJsonCasefRole	int displayNum int orderKey string caseCode int pageNum	JsonResult	This method excute to call method of CaseBLO to get all case after paging.
	AddCase	string caseCode int creatorId string receiptDate string caseContent int officeId	String	This method excute to call method of CaseBLO to get add new a case.

Capstone Project: LFMS

	GetCaseDetail	int id	JsonResult	This method excute to call method of CaseBLO to get detail of a case.
	GetLawyerViewpoint	int id	JsonResult	This method excute to call method of CaseBLO to get view point of lawyer.
	UpdateLawyerViewpoint	int caseId string protectiveGoal string openingProcedure string inquiryProcedure string argumentProcedure	string	This method excute to call method of CaseBLO to update view point of lawyer.
	GetCost	int caseId	JsonResult	This method excute to call method of CaseBLO to get cost of a case.

Capstone Project: LFMS

	GetEvent	int caseId	JsonResult	This method excute to call method of CaseBLO to get all event of a case.
	GetLawyerRelated	int caseId	JsonResult	This method excute to call method of CaseBLO to get all lawyer related with a case.
	RemoveLawyerRelated	int caseStaffId	string	This method excute to call method of CaseBLO to remove lawyer from a case.
	AddLawyerRelated	int staffId int caseId	String	This method excute to call method of CaseBLO to add lawyer to a case.

Capstone Project: LFMS

	GetCustomerRelated	int caseId	JsonResult	This method excute to call method of CaseBLO to get customer related with a case and return partialview.
	RemoveCustomerRelated	int caseCusId	String	This method excute to call method of CaseBLO to remove customer from a case.
	AddCaseCustomer	int customerId, int caseId	String	This method excute to call method of CaseBLO to add customer to a case.

Capstone Project: LFMS

	UpdateCustomer int id string taxCode string name int selectCustomerGroup string represent string sex string birthDay string identityNum string identityDate string identityPlace string bankAccount string bankBranch string address string mobile string telephone string email	String	This method excute to call method of CustomerB LO to update information of customer.
	GetCustomersAutoSearch string cusName	JsonResult	This method excute to call method of CustomerB LO to get customer in auto search.
	GetAllCustomerGroupJson N/A	JsonResult	This method excute to call method of CustomerB LO to get all group of customer.

Capstone Project: LFMS

GetSubjectRelated	int caseId	JsonResult	This method excute to call method of CaseBLO to get subject which related with a case and return partialview ofSubject.
AddSubject	string subjectName, string litigationCapacity, string address, string phoneNumber, string email, int caseId	String	This method excute to call method of CaseBLO to add new a Subject related to a case.
UpdateSubject	int subjectId string subjectName, string litigationCapacity, string address, string phoneNumber, string email, int caseId	String	This method excute to call method of CaseBLO to update a Subject.

Capstone Project: LFMS

	DeleteSubject	int subjectId	String	This method excute to call method of CaseBLO to delete a Subject.
	GetFile	int caseId	String	This method excute to call method of CaseBLO to get file which related with a case.
	GetAllOfficeJson	N/A	JsonResult	This method excute to call method of officeBLO to get all office.
	GetOfficesByStaffId	int StaffId	JsonResult	This method excute to call method of officeBLO to get all office by staff id.

Capstone Project: LFMS

	GetLawyerByOffice	int officeId	JsonResult	This method excute to call method of staffBLO to get all lawyer by office id.
	GetAllServices	N/A	JsonResult	This method excute to call method of ServiceBLO to get all service.
	UpdateCost	string code int id	JsonResult	This method excute to call method of caseBLO to update cost of case.
	AddInvoice	int caseId int serviceCost string txtDescription string datePickerService string serviceName	String	This method excute to call method of caseBLO to add invoice to a case.

Capstone Project: LFMS

	AddPayment int caseId int serviceCost string txtDescription string datePickerService	String	This method excute to call method of caseBLO to add payment to a case.
	DeleteInvoice int invoiceId int caseId	String	This method excute to call method of caseBLO to delete invoice of case.
	DeletePayment int paymentId int caseId	String	This method excute to call method of caseBLO to delete payment of case.
	UpdateInvoice int serviceCost int invoiceId string txtDescription string datePickerService	String	This method excute to call method of caseBLO to update invoice to a case.

Capstone Project: LFMS

	UpdatePayment int paymentId int paymentMoney string txtDescription string datePickerService	String	This method excute to call method of caseBLO to update payment to a case.
	EditOEvent string content string edate string bdate string title int oEventId int creatorId var staffId	String	This method excute to call method of caseBLO to update Operation event of a case.
	NewOEvent string beginTime string endTime string content int caseId var staffId	int	This method excute to call method of caseBLO to add new an Operation event to a case.
	DeleteOEvent int oEventId int creatorId var staffId	String	This method excute to call method of caseBLO to delete an Operation event of a case.

Capstone Project: LFMS

	CreateCusAndAddToCase	int caseId string taxCode string name int selectCustomerGroup string represent string sex string birthDay string identityNum string identityDate string identityPlace string bankAccount string bankBranch string address string mobile string telephone string email	String	This method excute to call method of customerB LO to add new a customer and add to a case.
--	-----------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------	--------------------------------------------------------------------------------------------

4.3.2.2.5. OfficeController

Class	OfficeController			
Description	This class excute all action of office			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			
Source File	OfficeController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Office	N/A	ActionResult	This method excute to return view of office.

Capstone Project: LFMS

	GetAllOfficeJson	N/A	JsonResult	This method execute to call method of OfficeBLO to get all office.
	GetOfficeStaff	N/A	JsonResult	This method execute to call method of OfficeBLO to get office and staff of office.
	AddOffice	string offName string offManager string offTaxcode string offAdd string offPhone string offFax string offEmail string offWebsite string offbankAccount string offbankName	String	This method execute to call method of OfficeBLO to add new an office.
	UpdateOffice	int offId string offName string offManager string offTaxcode string offAdd string offPhone string offFax string offEmail string offWebsite string offbankAccount string offbankName	String	This method execute to call method of OfficeBLO to update an office.
	SetStatusOffice	N/A	String	This method execute to call method of OfficeBLO to set status of an office.

4.3.2.2.6. LoginController

Class	LoginController			
Description	This class execute all action of Login.			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			
Source File	LoginController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Login	N/A	ActionResult	This method execute to return view of Login.
	CheckUser	string username string password	String	This method execute to call method of UserBLO to check login.
	PermissionError	N/A	ActionResult	This method execute to return view of Login error.
	LogOut	N/A	string	This method execute to logout.

4.3.2.2.7. HomeController

Class	HomeController			
Description	This class execute all action of Home			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			

Capstone Project: LFMS

Source File	HomeController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Index	N/A	ActionResult	This method execute to return view of Home.
	GetAssignedCases	N/A	JsonResult	This method execute to call method of CaseBLO and Office to get assigned case of staff and office.
	JsonCalendarEvent	string start string end int staffId	JsonResult	This method execute to call method of HomeBLO to get all calendar and operation event of staff.
	AddCalendarEvent	int staffId string title string start string end string className	String	This method execute to call method of HomeBLO to get add new a calendar event.
	UpdateCalendarEvent	int calId string title string start string end string className string type	String	This method execute to call method of HomeBLO to get update a calendar event.
	DeleteCalendarEvent	int calendarId string type	String	This method execute to call method of HomeBLO to get delete a calendar event.

	GetAllStaffCalendar	string staffId string start string end	JsonResult	This method execute to call method of HomeBLO to get all calendar event of all staff.
	GetAllSelectStaff	N/A	JsonResult	This method execute to call method of HomeBLO to get account of selected staff.

4.3.2.2.8. ServiceController

Class	ServiceController			
Description	This class execute all action of service			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			
Source File	ServiceController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Service	N/A	ActionResult	This method execute to return view of service.
	GetAllServiceJson	N/A	JsonResult	This method execute to call method of ServiceBLO to get all service and return partialview.

Capstone Project: LFMS

AddService	string name string description int typeId	String	This method execute to call method of ServiceBLO to add new a service.
UpdateService	int id string name string description int typeId	String	This method execute to call method of ServiceBLO to update a service.
DeleteService	int id	String	This method execute to call method of ServiceBLO to delete a service.
GetAllServiceTypeJson	N/A	JsonResult	This method execute to call method of ServiceBLO to get all type of service.
AddServiceType	string name string description int typeId	String	This method execute to call method of ServiceBLO to add new a service type.
UpdateServiceType	int id string name string description int typeId	String	This method execute to call method of ServiceBLO to update a service type.
DeleteServiceType	int id	String	This method execute to call method of ServiceBLO to delete a service type.

4.3.2.2.9. StatisticController

Class	StatisticController			
Description	This class execute all action of statistic.			
Base Class	ControllerBase			
Constructor	N/A			
Prototype	N/A			
Source File	StatisticController.cs			
Namespace	LFMS.Controllers			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Statistic	N/A	ActionResult	This method execute to return view of statistic.
	Get12MonthRevenue	int officeId	JsonResult	This method execute to call method of StatisticBLO to get 12 month revenue by office id.
	Get12MonthRevenuePieChart	N/A	JsonResult	This method execute to call method of StatisticBLO to get 12 month revenue to print pie chart.
	Get12MonthRevenueSS	int officeId1 int officeId2	JsonResult	This method execute to call method of StatisticBLO to get 12 month revenue of two office to compare.

Capstone Project: LFMS

	GetLastYearRevenue	int officeId	JsonResult	This method execute to call method of StatisticBLO to get last year revenue of office.
	GetLastYearRevenuePieChart	N/A	JsonResult	This method execute to call method of StatisticBLO to get last year revenue to print pie chart.
	GetLastYearRevenueSS	int officeId1 int officeId2	JsonResult	This method execute to call method of StatisticBLO to get last year revenue of two office to compare.
	GetYearsRevenue	int from int officeId int to	JsonResult	This method execute to call method of StatisticBLO to year revenue to print chart.
	GetYearsRevenuePieChart	int from int to	JsonResult	This method execute to call method of StatisticBLO to year revenue to print pie chart.
	GetYearsRevenueSS	int officeId1 int officeId2	JsonResult	This method execute to call method of StatisticBLO to get year revenue of two office to compare.
	GetFromYearRevenue	N/A	JsonResult	This method execute to call method of StatisticBLO to get from year revenue.

Capstone Project: LFMS

	GetToYearRevenue	int y	JsonResult	This method excute to call method of StatisticBLO to get to year revenue.
	Get12MonthStaffRevenue	int staffId	JsonResult	This method excute to call method of StatisticBLO to get to 12 month revenue of year of staff.
	Get12MonthStaffSS	int staffId1 int staffId2	JsonResult	This method excute to call method of StatisticBLO to get to 12 month revenue of year of two staff to
	GetLastYearStaffRevenue	int staffId	JsonResult	This method excute to call method of StatisticBLO to get revenue of last year of staff.
	GetLastYearStaffSS	int staffId1 int staffId2	JsonResult	This method excute to call method of StatisticBLO to get revenue of last year of two staff to compare.
	GetYearsStaffRevenue	int from int staffId int to	JsonResult	This method excute to call method of StatisticBLO to revenue of year of staff.
	GetYearsStaffRevenueSS	int staffId1 int staffId2 int from int to	JsonResult	This method excute to call method of StatisticBLO to get revenue of year of two staff to compare.

Capstone Project: LFMS

	GetFromYearStaffRevenue	N/A	JsonResult	This method execute to call method of StatisticBLO to get revenue of from year.
	GetToYearStaffRevenue	int y	JsonResult	This method execute to call method of StatisticBLO to get revenue of to year.
	GetAllSelectStaff	N/A	JsonResult	This method execute to call method of StatisticBLO to get account of selected.
	Get12MonthCase	int officeId	JsonResult	This method execute to call method of StatisticBLO to get number of case of office to print chart.
	Get12MonthCasePieChart	N/A	JsonResult	This method execute to call method of StatisticBLO to get number of case of office to print pie chart.
	Get12MonthCaseSS	int officeId1 int officeId2	JsonResult	This method execute to call method of StatisticBLO to get number of case of two office to compare.
	GetLastYearCase	int officeId	JsonResult	This method execute to call method of StatisticBLO to get number of case in last year of office to print chart.

Capstone Project: LFMS

	GetLastYearCasePieChart	N/A	JsonResult	This method execute to call method of StatisticBLO to get number of case in last year of office to print pie chart.
	GetLastYearCaseSS	int officeId1 int officeId2	JsonResult	This method execute to call method of StatisticBLO to get number of case in last year of two office to compare.
	GetYearsCase	int from int officeId int to	JsonResult	This method execute to call method of StatisticBLO to get number of case in year to print chart.
	GetYearsCasePieChart	N/A	JsonResult	This method execute to call method of StatisticBLO to get number of case in year to print pie chart.
	GetYearsCaseSS	int officeId1 int officeId2	JsonResult	This method execute to call method of StatisticBLO to get number of case in year of two office to compare.
	GetFromYearCase	N/A	JsonResult	This method execute to call method of StatisticBLO to get number of case from year.

Capstone Project: LFMS

GetToYearCase	int y	JsonResult	This method execute to call method of StatisticBLO to get number of case to year.
RenderPartialViewToString	string viewName, object model	string	This method execute to render partial view.

4.3.3. Business

4.3.3.1. Business Logic Class Diagram



Figure 4-7: Business Class Diagram

4.3.3.2. Business Logic Class Diagram Explanation

4.3.3.2.1. UserBLO

Class	UserBLO			
Description	This method execute all action of user which called from controller.			
Base Class	N/A			
Constructor	UserBLO			
Prototype	N/A			
Source File	UserBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetUser	string username, string password	Account	This method call method of userDAO to get user.
	GetRole	int staffId	List<String>	This method call method of userDAO to get role of user.
	GetAuthorize	int staffId	int	This method call method of userDAO to get authorize of user.

4.3.3.2.2. UserControlBLO

Class	UserControlBLO			
Description	This method execute all action of user control which called from controller.			
Base Class	N/A			
Constructor	UserControlBLO			
Prototype	N/A			
Source File	UserControlBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			

Methods	Name	Input	Output	Description
	GetOperationEventByStaffId	int staffId	List<OperationalEvent>	This method call method of userControl DAO to get operation event by staff id.
	GetCalendarEventByStaffId	int staffId	List<CalendarEvent>	This method call method of userControl DAO to get calendar event by staff id.

4.3.3.2.3. OfficeBLO

Class	OfficeBLO			
Description	This method execute all action of office which called from controller.			
Base Class	N/A			
Constructor	OfficeBLO			
Prototype	N/A			
Source File	OfficeBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetAllOffice	N/A	List<Office>	This method call method of OfficeDAO to get all office.

Capstone Project: LFMS

	GetOfficeStaff	N/A	List<Office>	This method call method of OfficeDAO to get office staff .
	GetOfficeByID	int offId	Office	This method call method of OfficeDAO to get office by id.
	GetOfficesByStaffId	int staffId	Object	This method call method of OfficeDAO to get office by staff id.
	AddOffice	string offName, string offManager, string offTaxcode, string offAdd, string offPhone, string offFax, string offEmail, string offWebsite, string offbankAccount, string offbankName	bool	This method call method of OfficeDAO to add office.
	UpdateOffice	int offId, string offName, string offManager, string offTaxcode, string offAdd, string offPhone, string offFax, string offEmail, string offWebsite, string offbankAccount, string offbankName	bool	This method call method of OfficeDAO to update office.
	SetStatusOffice	int offId	string	This method call method of OfficeDAO to set status office.

4.3.3.2.4. ServiceBLO

Class	ServiceBLO			
Description	This method execute all action of service which called from controller.			
Base Class	N/A			
Constructor	ServiceBLO			
Prototype	N/A			
Source File	ServiceBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetAllService	N/A	List<Service>	This method call method of serviceDAO to get all service.
	GetAllServiceJson	N/A	List<Object>	This method call method of serviceDAO to get all service by Json.
	GetServiceByID	int id	Service	This method call method of serviceDAO to get all service by Id.
	AddService	string name, string description, int typeId	string	This method call method of serviceDAO to add new service.

Capstone Project: LFMS

	UpdateService	int id, string name, string description, int typeId	string	This method call method of serviceDAO to update service.
	DeleteService	int id	string	This method call method of serviceDAO to delete service.
	GetAllServiceType	N/A	List<ServiceType>	This method call method of serviceDAO to get all type of service.
	GetAllServiceTypeJson	N/A	List<Object>	This method call method of serviceDAO to get all type of service by Json.
	GetServiceTypeByID	int id	ServiceType	This method call method of serviceDAO to get all type of service by Id.
	AddServiceType	string name, string description	string	This method call method of serviceDAO to add new service type.
	UpdateServiceType	int id, string name, string description	string	This method call method of serviceDAO to update service type.

	DeleteServiceType	int id	string	This method call method of serviceDAO to delete service type.
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4.3.3.2.5. HomeBLO

Class	HomeBLO			
Description	This method execute all action of home which called from controller.			
Base Class	N/A			
Constructor	HomeBLO			
Prototype	N/A			
Source File	HomeBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetAllStaffCalendar	int staffId, string start, string end	List<Object>	This method call method of homeDAO to get all calendar of staff .
	GetAllStaffCalendarInOE	int staffId, string start, string end	List<Object>	This method call method of homeDAO to get all calendar of staff by time.
	AddCalendarEvent	int staffId, string title, string start, string end, string className	int	This method call method of homeDAO to add new calendar event.

	UpdateCalendarEvent	int Id, string title, string start, string end, string className, string type	string	This method call method of homeDAO to update calendar event.
	DeleteCalendarEvent	int calendarId, string type	string	This method call method of homeDAO to delete calendar event.
	GetAllSelectStaff	int staffId	List<Object>	This method call method of homeDAO to get all selected staff.
	getStaffIdByCalId	int calId, string type	int	This method call method of homeDAO to get calendar of staff by calendar id.

4.3.3.2.6. CaseBLO

Class	CaseBLO			
Description	This method execute all action of case which called from controller.			
Base Class	N/A			
Constructor	CaseBLO			
Prototype	N/A			
Source File	caseBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description

Capstone Project: LFMS

	GetCases	int displayNum, int orderKey, string orderType, int pageNum, string caseCode, List<String> author	object	This method call method of caseDAO to get all case
	GetCaseById	int id	Case	This method call method of caseDAO to get case by Id
	GetListUsernameByStaffId	List<int> list	List<Object>	This method call method of caseDAO to get list uername by staff id
	GetAssignedCases	int staffId	List<Object>	This method call method of caseDAO to get assigned cases

Capstone Project: LFMS

	GetJsonCaseDetailById	int caseId	Object	This method call method of caseDAO to get Json case detail by Id
	AddCase	string caseCode, int creatorId, string receiptDate, string caseContent, int officeId	string	This method call method of caseDAO to add new case
	UpdateCaseDetail	int caseId, string receiptDate, int officeId, string status, string caseContent, string disputeSubject, string disputeRelation, string limitationStatute, string legalEvent, string errorFactor	bool	This method call method of caseDAO to update case detail
	UpdateLawyerViewpoint	int caseId, string protectiveGoal, string openingProcedure, string inquiryProcedure, string argumentProcedure	bool	This method call method of caseDAO to update lawyer view point

Capstone Project: LFMS

	CheckExistCaseCode	string caseCode	bool	This method call method of caseDAO to check exist case code
	GetCost	int caseId	Object	This method call method of caseDAO to get cost
	GetEvent	int caseId	Object	This method call method of caseDAO to get new event
	GetCustomerRelated	int caseId	Object	This method call method of caseDAO to get customer related
	RemoveCustomerRelated	int id	bool	This method call method of caseDAO to remove customer related

Capstone Project: LFMS

	GetCaseIdByCaseCusId	int caseCusId	int	This method call method of caseDAO to get case Id by customer Id
	CheckExistCaseCustomer	int caseId, int customerId	bool	This method call method of caseDAO to check exist case customer
	AddCaseCustomer	int caseId, int customerId	bool	This method call method of caseDAO to add a new case of customer
	GetLawyerRelated	int caseId	Object	This method call method of caseDAO to get lawyer related

Capstone Project: LFMS

	RemoveLawyerRelated int id	bool	This method call method of caseDAO to remove lawyer related
	GetStaffIdByCaseStaffId int caseStaffId	int	This method call method of caseDAO to get staff id by case staff id
	GetCaseIdByCaseStaffId int caseStaffId	int	This method call method of caseDAO to get case id by case staff id
	CheckExistCaseStaff int caseId, int staffId	bool	This method call method of caseDAO to check exist case staff

Capstone Project: LFMS

	AddCaseStaff 	int caseId, int staffId	bool	This method call method of caseDAO to add a new case of staff
	GetAllSubjects 	int caseId	List<Subject>	This method call method of caseDAO to get all subjects
	AddSubject 	string subjectName, string litigationCapacity, string address, string phoneNumber, string email, int caseId	bool	This method call method of caseDAO to add new subject
	DeleteSubject 	int subjectId	bool	This method call method of caseDAO to delete subject

Capstone Project: LFMS

	GetCaseIdBySubjectId	int subjectId	int	This method call method of caseDAO to get case id by subject id
	UpdateSubject	int subjectId, string subjectName, string litigationCapacity, string address, string phoneNumber, string email	bool	This method call method of caseDAO to update subject
	CanEditLawyer	int staffId, int caseId	bool	This method call method of caseDAO to check can edit lawyer
	IsCreator	int staffId, int caseId	bool	This method call method of caseDAO to check who creator

Capstone Project: LFMS

	EditLegalEvent string bdate, string content, int oEventId, string edate, string title	bool	This method call method of caseDAO to edit legal event
	NewOperationalEvent string beginTime, string content, int caseId, string endTime, int staffId, string title	int	This method call method of caseDAO to check new operational event
	DeleteLegalEvent int oEventId	bool	This method call method of caseDAO to delete legal event
	GetStaffIdByEventId int oEventId	int	This method call method of caseDAO to get staff id by event id

Capstone Project: LFMS

	AddInvoice int caseId, int serviceCost, string txtDescription, string datePickerService, string serviceName	bool	This method call method of caseDAO to add new invoice
	AddPayment int caseId, int paymentCost, string txtDescription, string datePickerPayment	bool	This method call method of caseDAO to add new payment
	DeleteInvoice int invoiceId	bool	This method call method of caseDAO to delete invoice
	DeletePayment int paymentId	bool	This method call method of caseDAO to delete payment
	UpdateInvoice int invoiceId, int serviceCost, string txtDescription, string datePickerService	bool	This method call method of caseDAO to update invoice

Capstone Project: LFMS

	UpdatePayment int paymentId, int paymentCost, string txtDescription, string datePickerPayment	bool	This method call method of caseDAO to update payment
	UpdateCost int caseId, string code	object	This method call method of caseDAO to update cost
	GetCaseIdByInvoiceId int invoiceId	int	This method call method of caseDAO to get case id by invoice id
	GetCaseIdByPaymentId int paymentId	int	This method call method of caseDAO to get case id by payment id

	CheckStaffInOffice	int newOfficeId, int caseId	bool	This method call method of caseDAO to check staff in office
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4.3.3.2.7. StaffBLO

Class	StaffBLO			
Description	This method execute all action of staff which called from controller.			
Base Class	N/A			
Constructor	staffBLO			
Prototype	N/A			
Source File	staffBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetAllStaff	N/A	List<Staff>	This method call method of staffDAO to get all staff
	GetAllStaffJson	N/A	List<Staff>	This method call method of staffDAO to get all staff by Json

Capstone Project: LFMS

	GetLawyerByOffice	int officeId	List<Object>	This method call method of staffDAO to get lawyer by office
	GetAllRoleJson	N/A	Object	This method call method of staffDAO to get all role by Json
	GetAllGroupJson	N/A	Object	This method call method of staffDAO to get all group by Json
	GetStaffByID	int staffId	Staff	This method call method of staffDAO to get staff by id

Capstone Project: LFMS

	AddStaff	string staffName, string staffPos, int roleId, int staffGroupId, string txtStaffHome, string txtStaffIdenNum, string txtStaffEmail, string txtStaffBankBranch, string txtStaffPhone, string txtStaffImage, string txtStaffSex, string txtStaffAdd, string txtStaffDayofbith, string txtStaffPlacebirth, string txtStaffIdenDay, string txtStaffIdenPlace, string txtStaffTax, string txtStaffBankNum, string txtUsername, int txtAppendantPeople, string [] cboOffice	bool	This method call method of staffDAO to add new staff
	CheckExistUserName	string txtUsername	bool	This method call method of staffDAO to check exist username
	CheckPassword	int staffId, string password	bool	This method call method of staffDAO to check password
	UpdateStaffPass	int staffId, string password2	bool	This method call method of staffDAO to update staff pass

Capstone Project: LFMS

	ResetStaffPass	int staffId	bool	This method call method of staffDAO to reset staff pass
	UpdateStaff	int staffId, string staffName, string staffPos, int roleId, int staffGroupId, string txtStaffHome, string txtStaffIdenNum, string txtStaffEmail, string txtStaffBankBranch, string txtStaffPhone, string txtStaffImage, string txtStaffSex, string txtStaffAdd, string txtStaffDayofbith, string txtStaffPlacebirth, string txtStaffIdenDay, string txtStaffIdenPlace, string txtStaffTax, string txtStaffBankNum, int detailAppendantPeople, String [] newOffList	bool	This method call method of staffDAO to update staff
	SetStatusStaff	int staffId	string	This method call method of staffDAO to set status staff
	AddStaffGroup	string staffGroupName, string staffGroupDetail, double txtBaseSalary	bool	This method call method of staffDAO to add staff group

Capstone Project: LFMS

	CheckExistGroupName	string txtCheckGroupName	bool	This method call method of staffDAO to check exist group name
	UpdateStaffGroup	int StaffGrId, string staffGrName, string staffGrDetail, string txtEditMoney	bool	This method call method of staffDAO to update staff group
	DeleteStaffGroup	int staffGroupId	bool	This method call method of staffDAO to delete staff group
	GetOfficeHasCaseInWork	List<int> listCase	List<int>	This method call method of staffDAO to get office has case in work
	CheckOfficeInWork	String[] newOfficeList, int newRoleId, int staffId	bool	This method call method of staffDAO to check office in work

	CheckEditableStaff	int sessionStaffId, int newRole, int changeStaffId	bool	This method call method of staffDAO to check editable staff
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4.3.3.2.8. CustomerBLO

Capstone Project: LFMS

Class	CustomerBLO			
Description	This method execute all action of customer which called from controller.			
Base Class	N/A			
Constructor	CustomerBLO			
Prototype	N/A			
Source File	CustomerBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetPagingCustomerJson	int displayNum, int orderKey, string orderType, string code, int pageNum	Object	This method call method of customer DAO to get customer after paging and customer group
	GetCustomersAutoSearch	string cusName	List<Customer>	This method call method of Customer DAO to get customer in auto search

Capstone Project: LFMS

	GetCustomerByID	int id	Customer	This method call method of Customer DAO to get customer by id
	AddCustomer	string taxCode, string name, int groupId, string represent, string sex, string birthDay, string identityNum, string identityDate, string identityPlace, string bankAccount, string bankBranch, string address, string mobile, string telephone, string email	int	This method call method of Customer DAO to add new customer
	UpdateCustomer	int id, string taxCode, string name, int groupId, string represent, string sex, string birthDay, string identityNum, string identityDate, string identityPlace, string bankAccount, string bankBranch, string address, string mobile, string telephone, string email	string	This method call method of Customer DAO to update customer

Capstone Project: LFMS

	DeleteCustomer	int id	string	This method call method of Customer DAO to delete customer
	GetAllCustomerGroup	N/A	List<CustomerGroup>	This method call method of Customer DAO to get all customer group
	GetAllCustomerGroupJson	N/A	List<Object>	This method call method of Customer DAO to get all customer group by Json

Capstone Project: LFMS

	GetCustomerGroupByID int id	CustomerGroup	This method call method of Customer DAO to get customer group by id
	AddCustomerGroup string name, string description	string	This method call method of Customer DAO to add new customer group
	UpdateCustomerGroup int Id, string name, string description	string	This method call Customer DAO to UpdateCustomerGroup

	DeleteCustomerGroup	int id	string	This method call method of Customer DAO to delete customer group
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4.3.3.2.9. StatisticBLO

Class	StatisticBLO			
Description	This method execute all action of statistic which called from controller.			
Base Class	N/A			
Constructor	StatisticBLO			
Prototype	N/A			
Source File	StatisticBLO.cs			
Namespace	LFMS.Models.BLO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Get12MonthRevenue	int officeId	StatisticData	This method call method of statisticDAO to get 12 month of revenue

Capstone Project: LFMS

	GetLastYearRevenue	int officeId	StatisticData	This method call method of statisticDAO to get last year revenue
	GetYearsRevenue	int officeId, int from, int to	Dictionary<string, double>	This method call method of statisticDAO to get years revenue
	GetFromYearRevenue	N/A	Dictionary<string, int>	This method call method of statisticDAO to get from year revenue
	Get12MonthCase	int officeId	StatisticData	This method call method of statisticDAO to get 12 month of case
	GetLastYearCase	int officeId	StatisticData	This method call method of statisticDAO to get last year case

Capstone Project: LFMS

	GetYearsCase	int officeId, int from, int to	Dictionary<string, double>	This method call method of statisticDAO to get year case
	GetFromYearCase	N/A	Dictionary<string, int>	This method call method of statisticDAO to from year case
	GetToYearCase	int year	Dictionary<string, int>	This method call method of statisticDAO to get to year case
	Get12MonthStaffRevenue	int staffId	StatisticData	This method call method of statisticDAO to get 12 month staff revenue
	GetLastYearStaffRevenue	int staffId	StatisticData	This method call method of statisticDAO to get last year staff revenue

Capstone Project: LFMS

	GetYearsStaffRevenue	int staffId, int from, int to	Dictionary<string, double>	This method call method of statisticDAO to get year staff revenue
	GetFromYearStaffRevenue	N/A	Dictionary<string, int>	This method call method of statisticDAO to get from year staff revenue
	GetToYearStaffRevenue	int year	Dictionary<string, int>	This method call method of statisticDAO to get to year staff revenue
	GetAllSelectStaff	N/A	List<Object>	This method call method of statisticDAO to get all selected staff

Capstone Project: LFMS

4.3.4. Data Access

4.3.4.1. Data Access Class Diagram

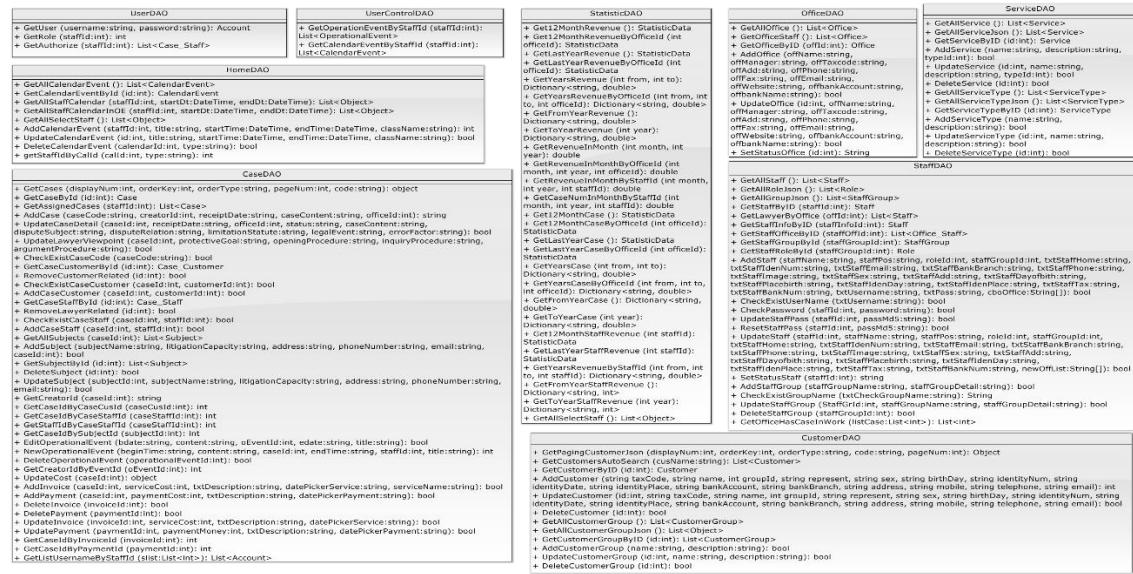


Figure 4-8: Data Access Class Diagram

4.3.4.2. Data Access Class Diagram Explanation

4.3.4.2.1. UserDAO

Class	UserDAO			
Description	This class execute all authorization to database.			
Base Class	N/A			
Constructor	UserDAO			
Prototype	N/A			
Source File	UserDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetUser	string username, string password	Account	Get account from database to check in login.

	GetRole	int staffId	int	Get role of staff from database
	GetAuthorize	int staffId	List<Case_Staff>	Get all id of case of staff to check Authorize from database

4.3.4.2.2. .UserControlDAO

Class	UserControlDAO			
Description	This class excute to get notification of staff about event and calendar from database.			
Base Class	N/A			
Constructor	UserControlDAO			
Prototype	N/A			
Source File	UserControlDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetOperationEventByStaffId	int staffId	List<OperationalEvent>	System excute to get operation event by staff id from database.
	GetCalendarEventByStaffId	int staffId	int	System excute to get calendar event by staff id from database

4.3.4.2.3. OfficeDAO

Class	OfficeDAO			
Description	This class execute all action of office to database.			
Base Class	N/A			
Constructor	OfficeDAO			
Prototype	N/A			
Source File	OfficeDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetActiveOffice	N/A	List<Office>	System execute to get all active office from database.
	GetRole	N/A	List<Office>	System execute to get all office from database.
	GetOfficeStaff	N/A	List<Office>	System execute to get all active office from database.
	GetOfficeByID	int offId	Office	System execute to get office by office id from database.

Capstone Project: LFMS

AddOffice	string offName, string offManager, string offTaxcode, string offAdd, string offPhone, string offFax, string offEmail, string offWebsite, string offbankAccount, string offbankName	bool	System excute to add new office to database.
UpdateOffice	int offId, string offName, string offManager, string offTaxcode, string offAdd, string offPhone, string offFax, string offEmail, string offWebsite, string offbankAccount, string offbankName	bool	System excute to update an office to database.
SetStatusOffice	int id	String	System excute to set the active of office to database.
CheckExistOfficeName	string txtOfficename	bool	System excute to check the name of office of office from database.

4.3.4.2.4. ServiceDAO

Class	ServiceDAO
Description	This class excute all action of service to database.
Base Class	N/A
Constructor	ServiceDAO

Capstone Project: LFMS

Prototype	N/A			
Source File	ServiceDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetAllService	N/A	List<Service>	System excute to get all service from database.
	GetAllServiceJson	N/A	List<Object>	System excute to get all service type from database.
	GetServiceByID	int id	Service	System excute to get service by id from database.
	AddService	string name, string description, int typeId	bool	System excute to add new service to database.
	UpdateService	int id, string name, string description, int typeId	bool	System excute to update an service to database.
	DeleteService	int id	bool	System excute to delete a service to database.
	GetAllServiceType	N/A	List<ServiceType>	System excute to get all service type from database.

	GetAllServiceTypeJson	N/A	List<Object>	System excute to get all service from database.
	GetServiceTypeByID	int id	ServiceType	System excute to get service type by id from database.
	AddServiceType	string name, string description	bool	System excute to add new service type to database.
	UpdateServiceType	int id, string name, string description	bool	System excute to update a service type to database.
	DeleteServiceType	int id	bool	System excute to delete a service type to database.

4.3.4.2.5. HomeDAO

Class	HomeDAO			
Description	This class excute all action in Home view to database.			
Base Class	N/A			
Constructor	HomeDAO			
Prototype	N/A			
Source File	HomeDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description

Capstone Project: LFMS

	GetAllCalendarEvent	N/A	List<CalendarEvent>	System excute to get all calendar event from database
	GetCalendarEventById	int id	CalendarEvent	System excute to get calendar event by id from database.
	GetAllStaffCalendar	int staffId, DateTime startDt, DateTime endDt	List<Object>	System excute to get calendar event of staff by staff id from database.
	GetAllStaffCalendarInOE	int staffId, DateTime startDt, DateTime endDt	List<Object>	System excute to get operation event of staff by staff id from database.

Capstone Project: LFMS

	GetAllSelectStaff	int staffId	List<Object>	System excute to get account and password from database.
	AddCalendarEvent	int staffId, string title, DateTime startTime, DateTime endTime, string className	int	System excute to add new a calendar event to database.
	UpdateCalendarEvent	int id, string title, DateTime startTime, DateTime endTime, string className, string type	bool	System excute to update a calendar or operation event to database.
	DeleteCalendarEvent	int calendarId, string type	bool	System excute to delete a calendar or an operation event to database.

	getStaffIdByCallId	int callId, string type	int	System excute to get calendar or operation event by calendar id from database.
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4.3.4.2.6. CaseDAO

Class	CaseDAO			
Description	This class excute all action of Case to database.			
Base Class	N/A			
Constructor	CaseDAO			
Prototype	N/A			
Source File	CaseDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetCases	int displayNum, int orderKey, string orderType, int pageNum, string code, List<String> author	object	System excute to get all case after sort from database

Capstone Project: LFMS

	GetCaseById	int id	Case	System execute to get case by case id from database
	GetAssignedCases	int staffId	List<Case>	System execute to get all case of staff y staff id from database
	AddCase	string caseCode, int creatorId, string receiptDate, string caseContent, int officeId	string	System execute to add new a case to database
	UpdateCaseDetail	int caseId, string receiptDate, int officeId, string status, string caseContent, string disputeSubject, string disputeRelation, string limitationStatute, string legalEvent, string errorFactor	bool	System execute to update a case to database .

Capstone Project: LFMS

	DeleteService	int id	bool	System excute to delete a service to database
	UpdateLawyerViewpoint	int caseId, string protectiveGoal, string openingProcedure, string inquiryProcedure, string argumentProcedure	bool	System excute to update view point of lawyer to database
	CheckExistCaseCode	string caseCode	bool	System excute to check exist casicode from database
	GetCaseByCaseCode	string caseCode	Case	System excute to get case by casicode from database
	GetCaseCustomerById	int id	Case_Customer	System excute to get case of customer from database

Capstone Project: LFMS

	RemoveCustomerRelated	int id	bool	System excute to remove customer from a case to database
	CheckExistCaseCustomer	int caseId, int customerId	bool	System excute to check exist customer of case from database
	AddCaseCustomer	int caseId, int customerId	bool	System excute to add new casecustomer to database
	GetCaseStaffById	int id	Case_Staff	System excute to get casestaff from database
	RemoveLawyerRelated	int id	bool	System excute to remove lawyer from case to database

Capstone Project: LFMS

	CheckExistCaseStaff int caseId, int staffId	bool	System excute to check exist case staff from database
	AddCaseStaff int caseId, int staffId	bool	System excute to add new a case staff to database
	GetAllSubjects int caseId	List<Subject>	System excute to get all subjects of case from database
	AddSubject string subjectName, string litigationCapacity, string address, string phoneNumber, string email, int caseId	bool	System excute to add new a subjects of case to database
	GetSubjectById int id	Subject	System excute to get subjects by subject id from database

Capstone Project: LFMS

	DeleteSubject int id	bool	System execute to remove a subject to database
	UpdateSubject int subjectId, string subjectName, string litigationCapacity, string address, string phoneNumber, string email	bool	System execute to update a subject to database
	GetCreatorId int caseId	string	System execute to get creator id of case from database
	GetCaseIdByCaseCusId int caseCusId	int	System execute to get case id of case by case customer id from database

Capstone Project: LFMS

	GetCaseIdByCaseStaffId	int caseStaffId	int	System execute to get case id of case by case staff id from database
	GetStaffIdByCaseStaffId	int caseStaffId	Int	System execute to get staff id of case by case staff id from database
	GetCaseIdBySubjectId	int subjectId	int	System execute to get case id of case by subject id from database
	EditOperationalEvent	string bdate, string content, int oEventId, string edate, string title	bool	System execute to edit operational event of case to database

Capstone Project: LFMS

	NewOperationalEvent string beginTime, string content, int caseId, string endTime, int staffId, string title	int	System execute to add new operation event of case to database
	DeleteOperationalEvent int operationalEventId	bool	System execute to delete operation event of case to database
	GetCreatorIdByEventId int oEventId	int	System execute to get creator id by operation id from database
	UpdateCost int caseId	object	System execute to update cost of case to database

Capstone Project: LFMS

AddInvoice	int caseId, int serviceCost, string txtDescription, string datePickerService, string serviceName	bool	System execute to new invoice of case to database
AddPayment	int caseId, int paymentCost, string txtDescription, string datePickerPayment	bool	System execute to add new payment of case to database
DeleteInvoice	int invoiceId	bool	System execute to delete invoice of case to database
DeletePayment	int paymentId	bool	System execute to delete payment of case to database
UpdateInvoice	int invoiceId, int serviceCost, string txtDescription, string datePickerService	bool	System execute to update invoice of case to database

Capstone Project: LFMS

	UpdatePayment int paymentId, int paymentMoney, string txtDescription, string datePickerPayment	bool	System execute to update payment of case to database
	GetCaseIdByInvoiceId int invoiceId	int	System execute to get case id by invoice id from database
	GetCaseIdByPaymentId int paymentId	int	System execute to get case id by payment id from database
	GetListUsernameByStaffId List<int> slist	List<Account>	System execute to get list username of staff by list of staff id from database

4.3.4.2.7. StaffDAO

Class	StaffDAO			
Description	This class execute all action of Staff to database.			
Base Class	N/A			
Constructor	StaffDAO			
Prototype	N/A			
Source File	StaffDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	GetAllStaff	N/A	List<Staff>	System execute to get all staff from database
	GetAllRoleJson	N/A	List<Role>	System execute to get all role from database
	GetAllGroupJson	N/A	List<StaffGroup>	System execute to get all group of staff from database

Capstone Project: LFMS

	GetStaffByID	int staffId	Staff	System excute to get staff by staff id from database
	GetLawyerByOffice	int offId	List<Staff>	System excute to get lawyer by office id from database
	GetStaffInfoByID	int staffInfoId	int	System excute to get staff infomation by id from database
	GetStaffOfficeByID	int staffOffId	List<Office_Staff>	System excute to get staff office by id from database
	GetStaffGroupById	int staffGroupId	StaffGroup	System excute to get staff group by id from database

Capstone Project: LFMS

GetStaffRoleById	int staffGroupId	Role	System excute to get staff role by id from database
AddStaff	string staffName, string staffPos, int roleId, int staffGroupId, string txtStaffHome, string txtStaffIdenNum, string txtStaffEmail, string txtStaffBankBranch, string txtStaffPhone, string txtStaffImage, string txtStaffSex, string txtStaffAdd, string txtStaffDayofbith, string txtStaffPlacebirth, string txtStaffIdenDay, string txtStaffIdenPlace, string txtStaffTax, string txtStaffBankNum, string txtUsername, int txtAppendantPeople, string txtPass, String[] cboOffice	bool	System excute to add new staff to database.
CheckPassword	int staffId, string password	bool	System excute to check password of staff from database.

Capstone Project: LFMS

	UpdateStaffPass	int staffId, string passMd5	bool	System execute to update password of staff to database
	ResetStaffPass	int staffId, string passMd5	bool	System execute to reset password of staff to database
	UpdateStaff	int staffId, string staffName, string staffPos, int roleId, int staffGroupId, string txtStaffHome, string txtStaffIdenNum, string txtStaffEmail, string txtStaffBankBranch, string txtStaffPhone, string txtStaffImage, string txtStaffSex, string txtStaffAdd, string txtStaffDayofbith, string txtStaffPlacebirth, string txtStaffIdenDay, string txtStaffIdenPlace, string txtStaffTax, string txtStaffBankNum, int detailAppendantPeople, String[] newOffList	bool	System execute to update information of staff to database.

Capstone Project: LFMS

	CheckExistUserName	string txtUsername	bool	System excute to check username of staff from database
	CheckExistGroupName	string txtCheckGroupName	bool	System excute to check group name of staff from database
	SetStatusStaff	int staffId	String	System excute to set status of staff to database
	AddStaffGroup	string staffGroupName, string staffGroupDetail, double txtBaseSalary	bool	System excute to add new group of staff to database .
	UpdateStaffGroup	int StaffGrId, string staffGrName, string staffGrDetail, double txtEditMoney	bool	System excute to update group of staff to database

	DeleteStaffGroup	int staffGroupId	bool	System excute to delete group of staff to database
	GetOfficeHasCaseInWork	List<int> listCase	List<int>	System excute to get office in work from database

4.3.4.2.8. CustomerDAO

Class	CustomerDAO			
Description	This class excute all action of customer to database			
Base Class	N/A			
Constructor	CustomerDAO			
Prototype	N/A			
Source File	CustomerDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description

Capstone Project: LFMS

	GetPagingCustomerJson	int displayNum, int orderKey, string orderType, string code, int pageNum	Object	This method excute to get all custmer after paging from database
	GetCustomersAutoSearch	string cusName	List<Customer>	This method excute to get customer in auto search from database
	GetCustomerByID	int id	Customer	This method excute to get customer by customer id from database
	AddCustomer	string taxCode, string name, int groupId, string represent, string sex, string birthDay, string identityNum, string identityDate, string identityPlace, string bankAccount, string bankBranch, string address, string mobile, string telephone, string email	int	This method excute to add new a customer to database .

Capstone Project: LFMS

	UpdateCustomer	int id, string taxCode, string name, int groupId, string represent, string sex, string birthDay, string identityNum, string identityDate, string identityPlace, string bankAccount, string bankBranch, string address, string mobile, string telephone, string email	bool	This method excute to update a customer to database.
	DeleteCustomer	int id	bool	This method excute to delete a customer to database.
	GetAllCustomerGroup	N/A	List<CustomerGroup>	This method excute to get all group of customer from database

Capstone Project: LFMS

	GetAllCustomerGroupJson	N/A	List<Object>	This method excute to get all group and customer of each group from database
	GetCustomerGroupByID	int id	CustomerGroup	This method excute to get group of customer by id from database
	AddCustomerGroup	string name, string description	bool	This method excute to add new a group of customer to database
	UpdateCustomerGroup	int id, string name, string description	bool	This method excute to update a group of customer to database

	DeleteCustomerGroup	int id	bool	This method excute to delete a group of customer to database
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4.3.4.2.9. StatisticDAO

Class	StatisticDAO			
Description	This class excute all statistics from database			
Base Class	N/A			
Constructor	StatisticDAO			
Prototype	N/A			
Source File	StatisticDAO.cs			
Namespace	LFMS.Models.DAO			
Attributes	N/A			
Methods	Name	Input	Output	Description
	Get12MonthRevenue	N/A	StatisticData	This method excute to get revenue 12 month in year from database.
	Get12MonthRevenueByOfficeId	int officeId	StatisticData	This method excute to get revenue 12 month in year by office from database.

Capstone Project: LFMS

	GetLastYearRevenue	N/A	StatisticData	This method excute to get revenue last year from database.
	GetLastYearRevenueByOfficeId	int officeId	StatisticData	This method excute to get revenue last year by office from database.
	GetYearsRevenue	int from, int to	Dictionary<string, double>	This method excute to get revenue in year from database.
	GetYearsRevenueByOfficeId	int from, int to, int officeId	Dictionary<string, double>	This method excute to get revenue in year by office from database.
	GetFromYearRevenue	N/A	Dictionary<string, int>	This method excute to get revenue from year by office from database.
	GetToYearRevenue	int year	Dictionary<string, int>	This method excute to get revenue to year by office from database.

Capstone Project: LFMS

	GetRevenueInMonth	int month, int year	double	This method execute to get revenue in month from database.
	GetRevenueInMonthByOfficeId	int month, int year, int officeId	double	This method execute to get revenue in month by office from database.
	GetRevenueInMonthByStaffId	int month, int year, int staffId	double	This method execute to get revenue in month by staff from database.
	GetCaseNumInMonthByStaffId	int month, int year, int staffId	int	This method execute to get number of case in month by staff from database.
	Get12MonthCase	N/A	StatisticData	This method execute to get number of case in 12 month from database.
	Get12MonthCaseByOfficeId	int officeId	StatisticData	This method execute to get number of case in 12 month by office from database.

Capstone Project: LFMS

	GetLastYearCase	N/A	StatisticData	This method execute to get number of case last year from database.
	GetLastYearCaseByOfficeId	int officeId	StatisticData	This method execute to get number of case last year by office from database.
	GetYearsCase	int from, int to	Dictionary<string, double>	This method execute to get number of case in year from database.
	GetYearsCaseByOfficeId	int from, int to, int officeId	Dictionary<string, double>	This method execute to get number of case in year by office from database.
	GetFromYearCase	N/A	Dictionary<string, int>	This method execute to get number of case from year from database.

Capstone Project: LFMS

	GetToYearCase	int year	Dictionary<string, int>	This method excute to get number of case to year from database.
	Get12MonthStaffRevenue	int staffId	StatisticData	This method excute to get revenue in 12 month of staff from database.
	GetLastYearStaffRevenue	int staffId	StatisticData	This method excute to get revenue in last year of staff from database.
	GetYearsRevenueByStaffId	int from, int to, int staffId	Dictionary<string, double>	This method excute to get revenue in year of staff from database.
	GetFromYearStaffRevenue	N/A	Dictionary<string, int>	This method excute to get revenue from year of staff from database.
	GetToYearStaffRevenue	N/A	Dictionary<string, int>	This method excute to get revenue to year of staff from database.

	GetAllSelectStaff	N/A	List<Object>	This method execute to get all staff from database.
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4.3.5. Login

4.3.5.1. Class diagram

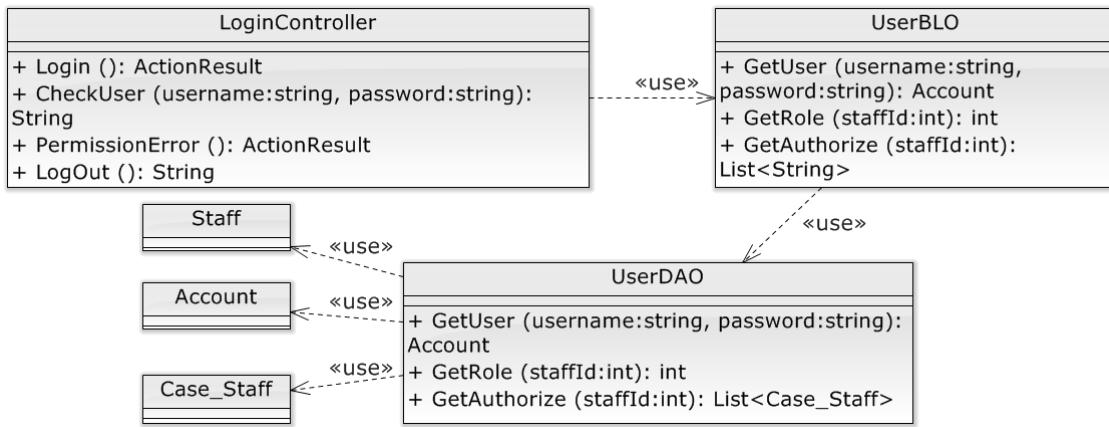


Figure 4-9: Login Class Diagram

4.3.5.2. Screen design

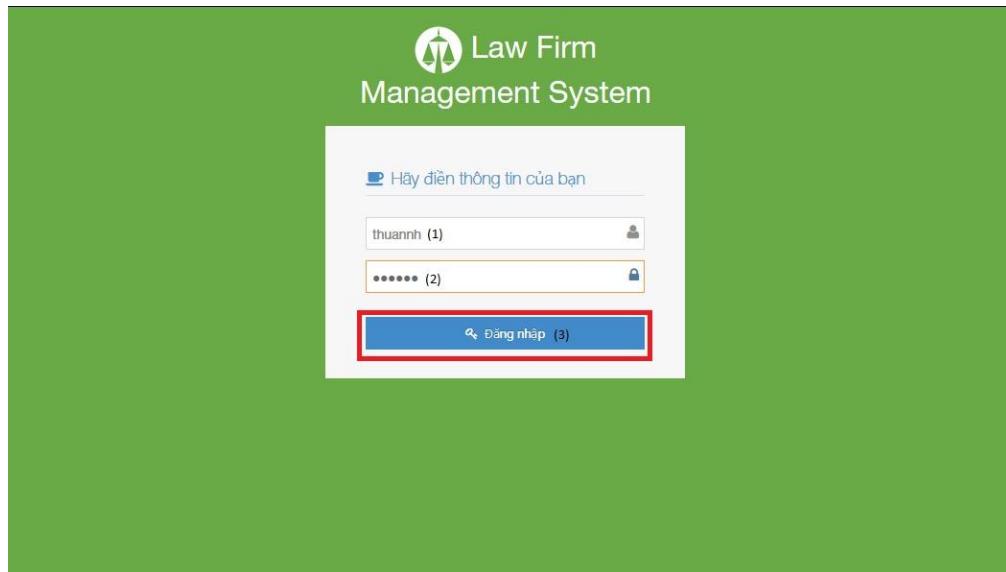


Figure 4-10: Login Image

No	Object/Control Name	Type	Required	Description
1	Tên đăng nhập	Textbox	Yes	Username for login
2	Mật khẩu	Textbox	Yes	Password for login
3	Đăng nhập	Button	Yes	Click for login to website

4.3.5.3. Sequence diagram

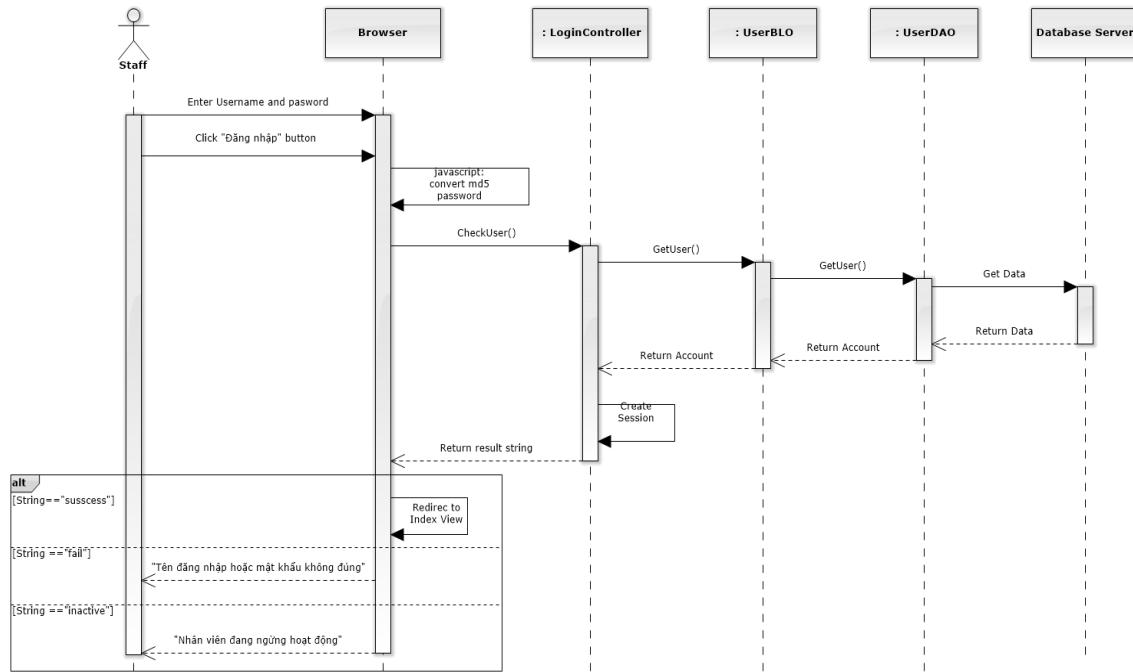


Figure 4-11: Login Sequence Diagram

4.3.6. Change password

4.3.6.1. Class diagram

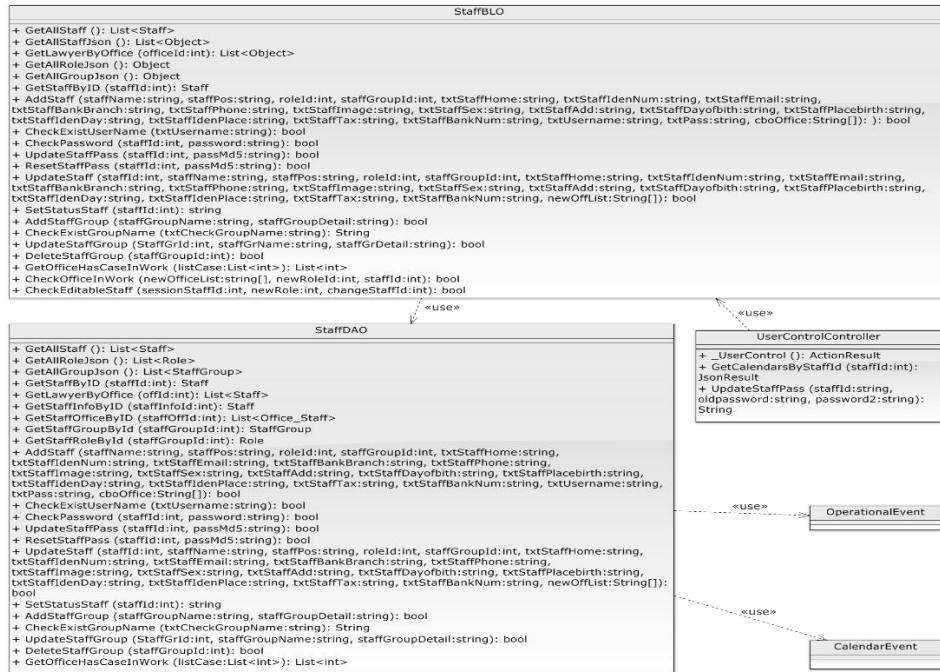


Figure 4-12: Change password class diagram

4.3.6.2. Screen design

The screenshot shows a user interface for changing a password. The title bar says 'Thay đổi mật khẩu'. The form has three fields: 'Mật khẩu cũ:' (Old password) containing masked text '(1)', 'Mật khẩu mới:' (New password) containing masked text '(2)', and 'Lặp lại mật khẩu mới:' (Repeat new password) containing masked text '(3)'. At the bottom left is a red 'Đóng' (Close) button, and at the bottom right is a green 'Đổi mật khẩu' (Change password) button with a checkmark icon.

Figure 4-13: Change password Image

No	Object/Control Name	Type	Required	Description
1	Mật khẩu cũ	Textbox	Yes	Your old password
2	Mật khẩu mới	Textbox	Yes	Your new password
3	Lặp lại mật khẩu mới	Textbox	Yes	Re-input your new password

4.3.6.3. Sequence diagram

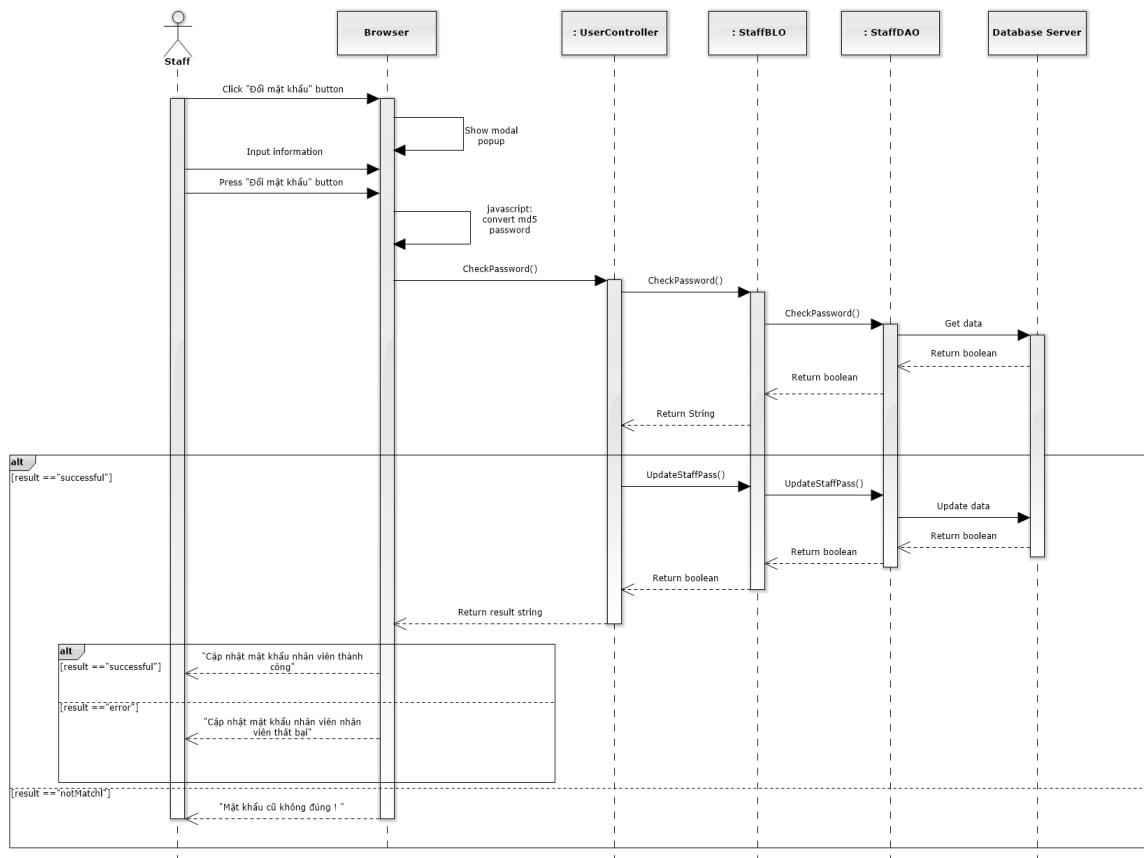


Figure 4-14: Change Password Sequence Diagram

Capstone Project: LFMS

4.3.7. View Home

4.3.7.1. Class diagram



Figure 4-15: View Home class diagram

4.3.7.2. Screen design

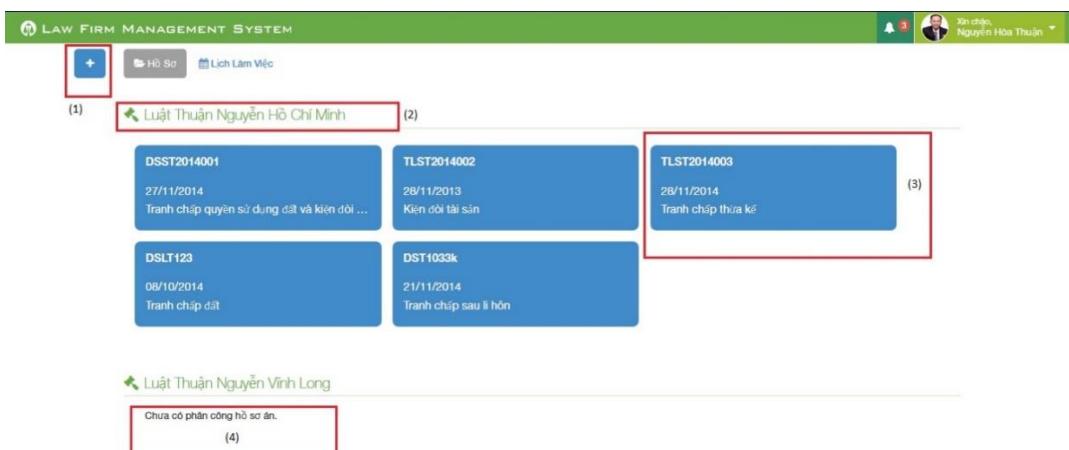


Figure 4-16: View Home image

Capstone Project: LFMS

No	Object/Control Name	Type	Required	Description
1	Plus	Button	Yes	Click to show popup for add new case
2	Office name	Label	Yes	Show name of office the staff work in
3	Case information	Button	Yes	Show important information of the case, click and redirect to view case detail page
4	“Chưa có phân công hồ sơ án”	Label	Yes	If the office have no “Đang thụ lý” case, message will be show

4.3.7.3. Sequence diagram

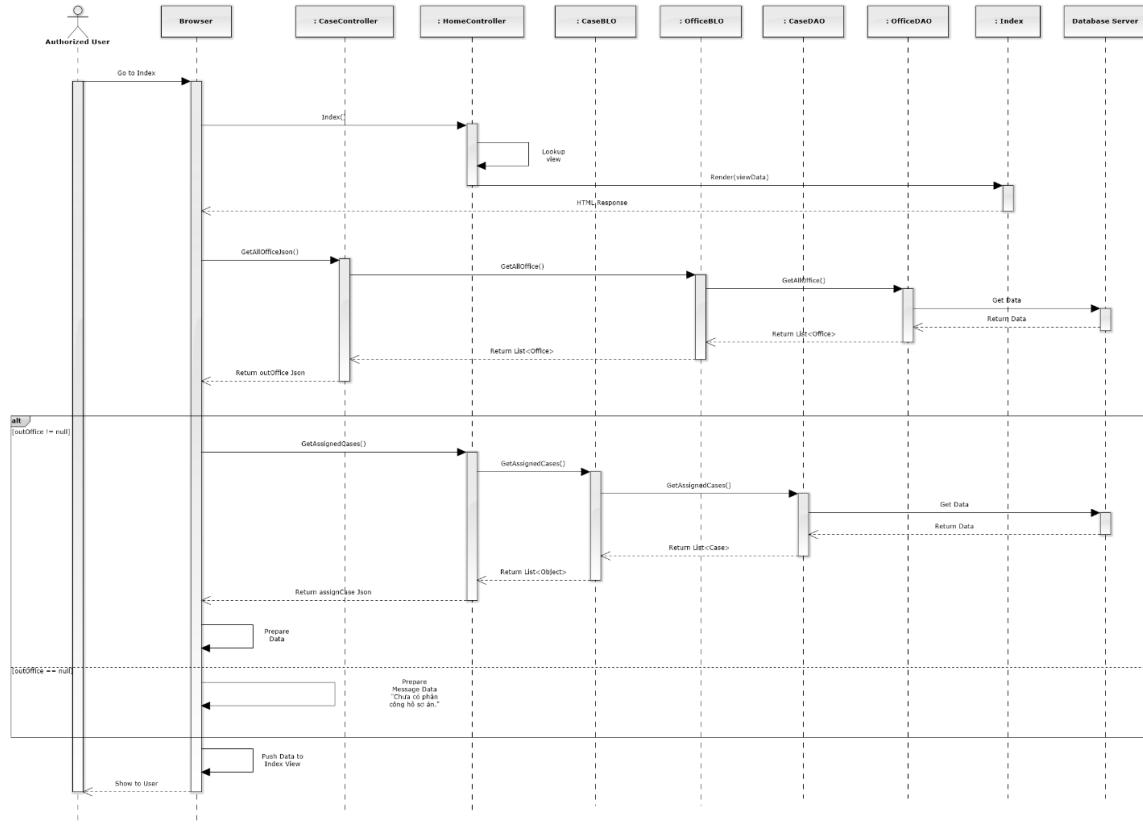


Figure 4-17: View Home Sequence Diagram

4.3.8. Notify

4.3.8.1. Class diagram

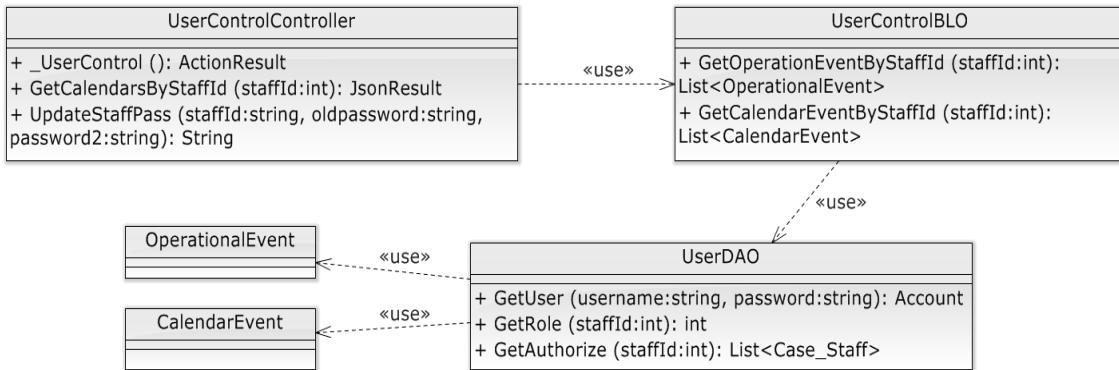


Figure 4-18: Notify event class diagram

4.3.8.2. Screen design



Figure 4-19: Notify Event Screen Image

No	Object/Control Name	Type	Required	Description
1	Event count	Label	Yes	Event quantity in “today” need to do. If there is at least 1 event, ring the bell
2	Priority	Icon	Yes	Show priority of event
3	Title	Label	Yes	Show title and time range of event

4.3.8.3. Sequence diagram

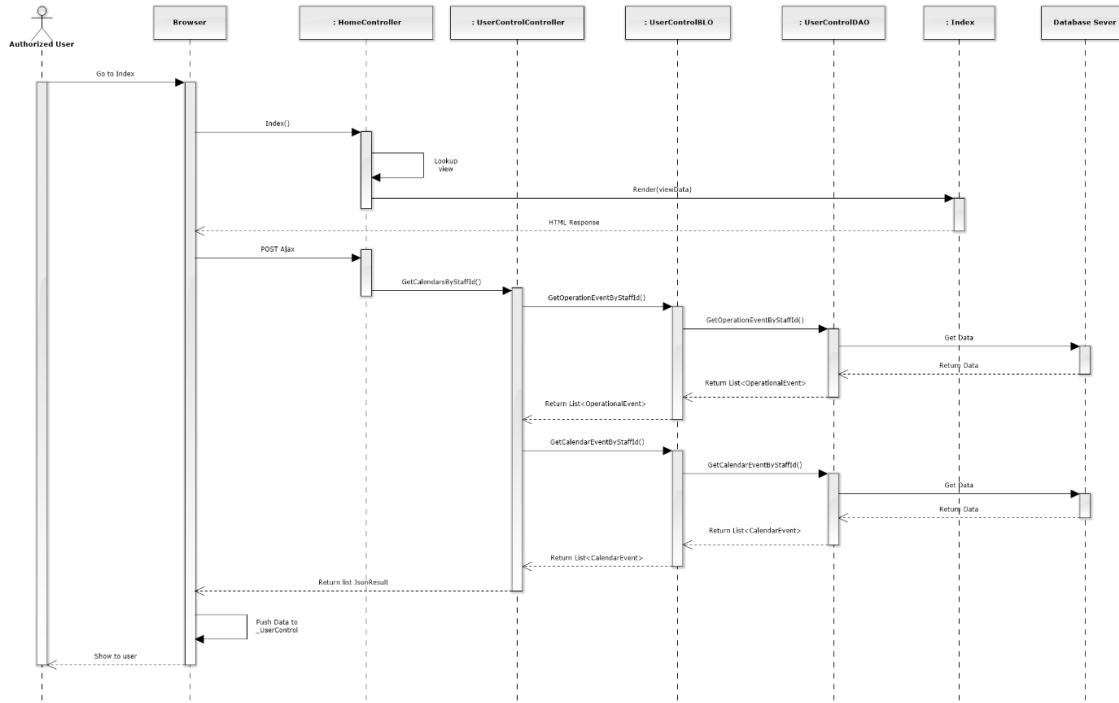


Figure 4-20: Notify Sequence Diagram

4.3.9. Manage Calendar Event

4.3.9.1. List Calendar Events

4.3.9.1.1. Class diagram

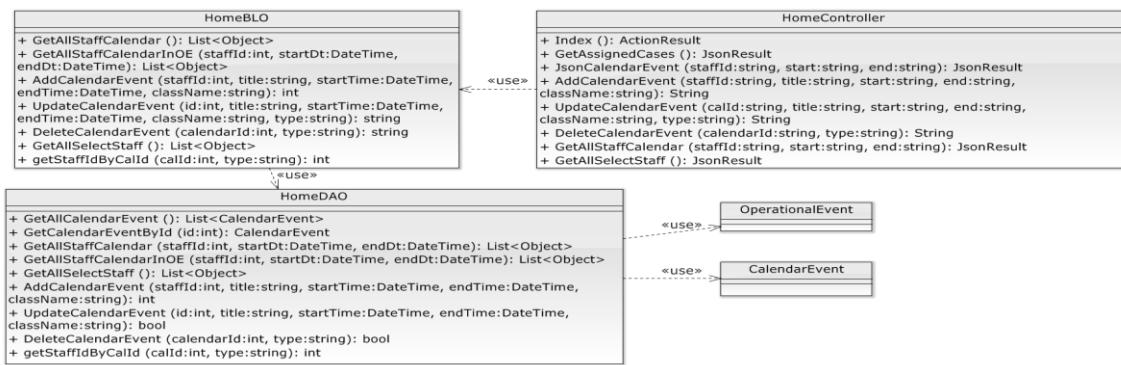


Figure 4-21: List calendar events class diagram

4.3.9.1.2. Screen design

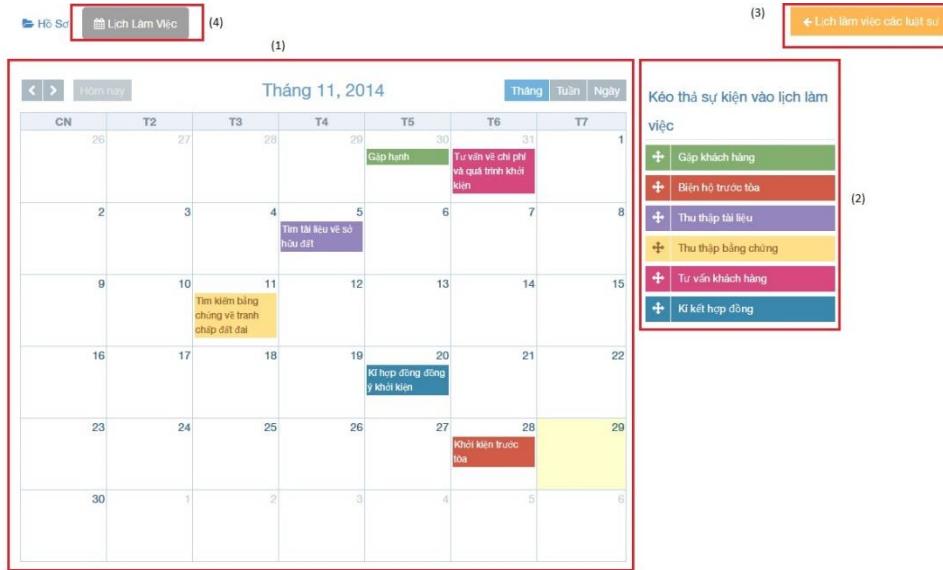


Figure 4-22: :List calendar events image

No	Object/Control Name	Type	Required	Description
1	Calendar	Full Calendar	Yes	Show all event of Staff on calendar
2	Dropable event	Object	Yes	Drag and drop into calendar to create new event
3	Lịch làm việc của các luật sư	Button	Yes	Show other staff calendar pop-up
4	“Lịch làm việc”	Label	Yes	Tab for view calendar events

4.3.9.1.3. Sequence diagram

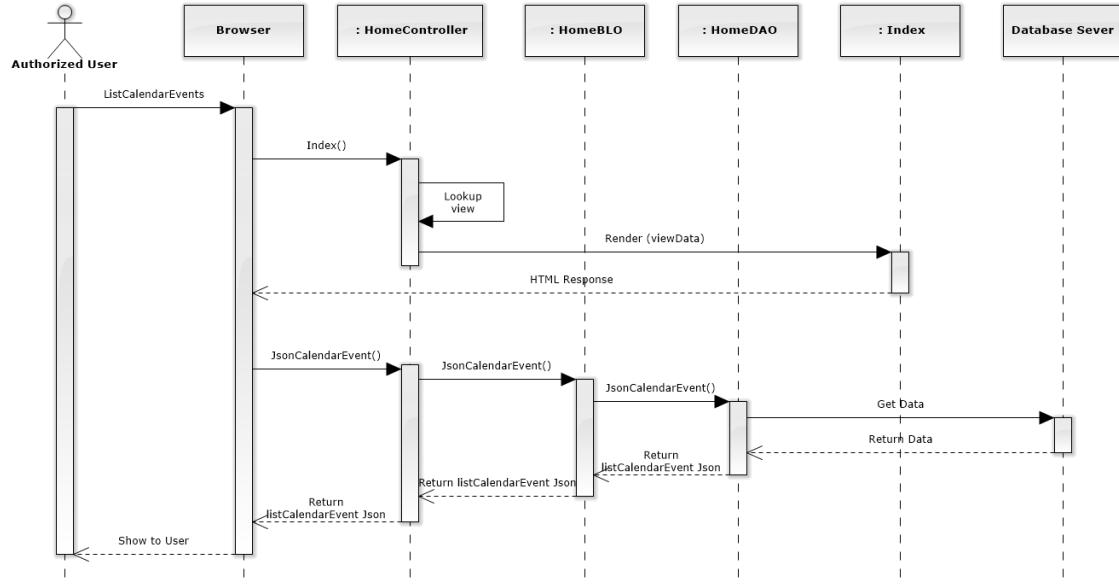


Figure 4-23: List Calendar Events Sequence Diagram

4.3.9.2. Add new calendar event

4.3.9.2.1. Screen design

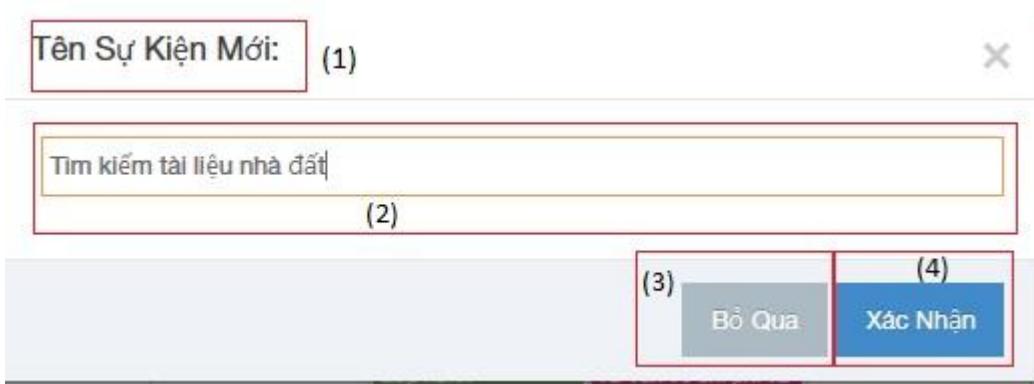


Figure 4-24 :Add new calendar events image

No	Object/Control Name	Type	Required	Description
1	“Tên Sự Kiện Mới:”	Label	Yes	View name event
2	“Tên sự kiện”	Textbox	Yes	Name event
3	“Bỏ Qua”	Button	Yes	Click to close Add new calendar event pop-up
4	“Xác Nhận”	Button	Yes	Click to create a new calendar event

4.3.9.2.2. Sequence diagram

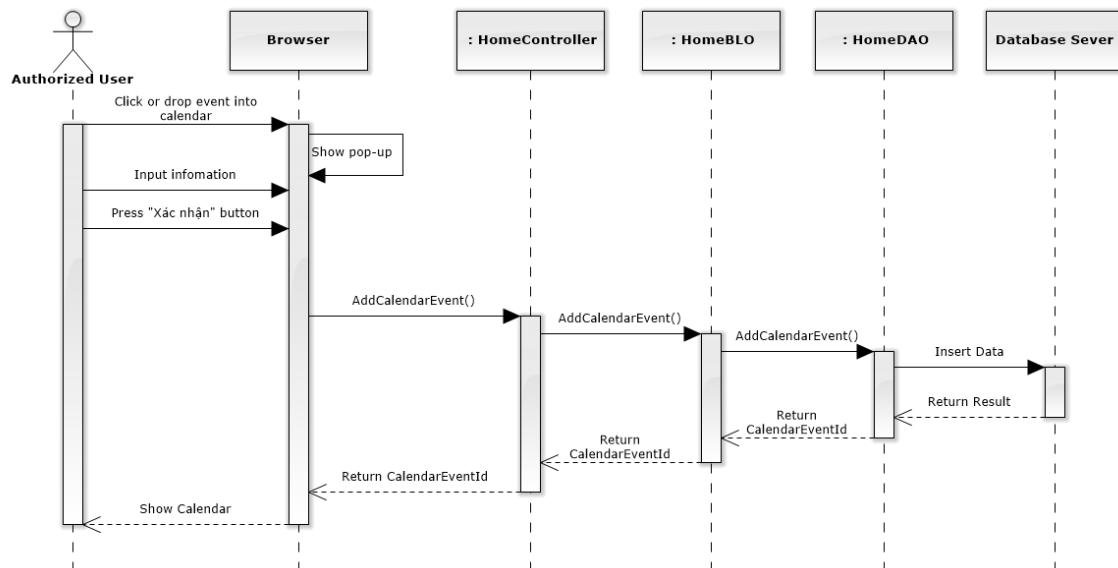


Figure 4-25: Add New Calendar Event Sequence Diagram

4.3.9.3. Edit calendar event

4.3.9.3.1. Screen design



Figure 4-26 :Edit calendar events image

No	Object/Control Name	Type	Required	Description
1	“Tên sự kiện”	Textbox	Yes	Name event
2	“Lưu”	Button	Yes	Click to save edit new calendar event
3	“Đóng”	Button	Yes	Click to close Edit new calendar event pop-up

4.3.9.3.2. Sequence diagram

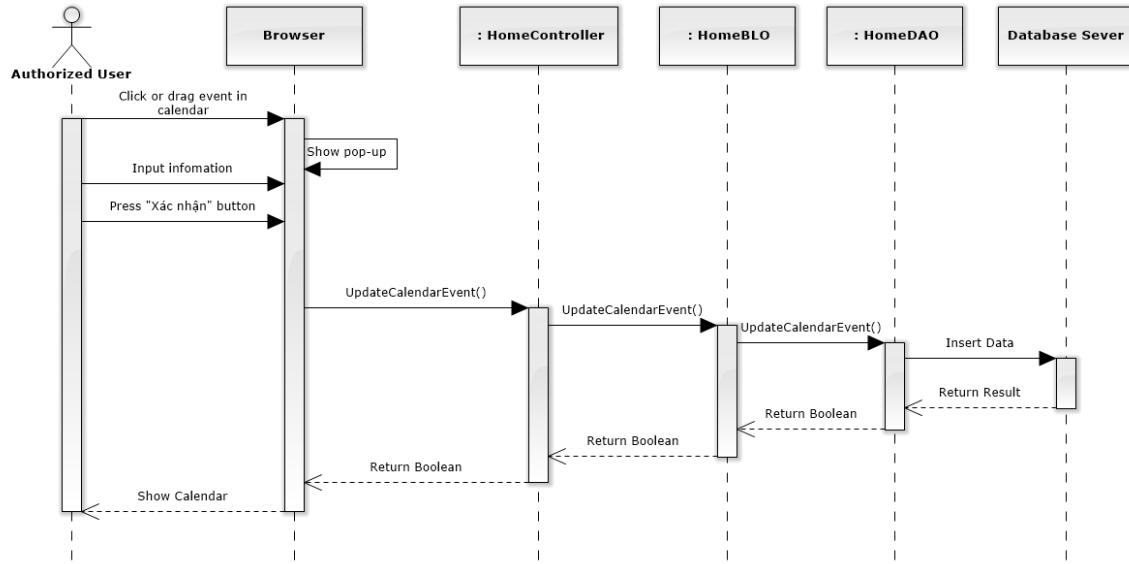


Figure 4-27: Edit Calendar Event Sequence Diagram

4.3.9.4. Delete calendar event

4.3.9.4.1. Screen design



Figure 4-28 :Delete calendar events image

No	Object/Control Name	Type	Required	Description
1	“Tên sự kiện”	Textbox	Yes	Name event

2	“Xóa sự kiện”	Button	Yes	Click to delete calendar event
3	“Đóng”	Button	Yes	Click to close Delete calendar event pop-up

4.3.9.4.2. Sequence diagram

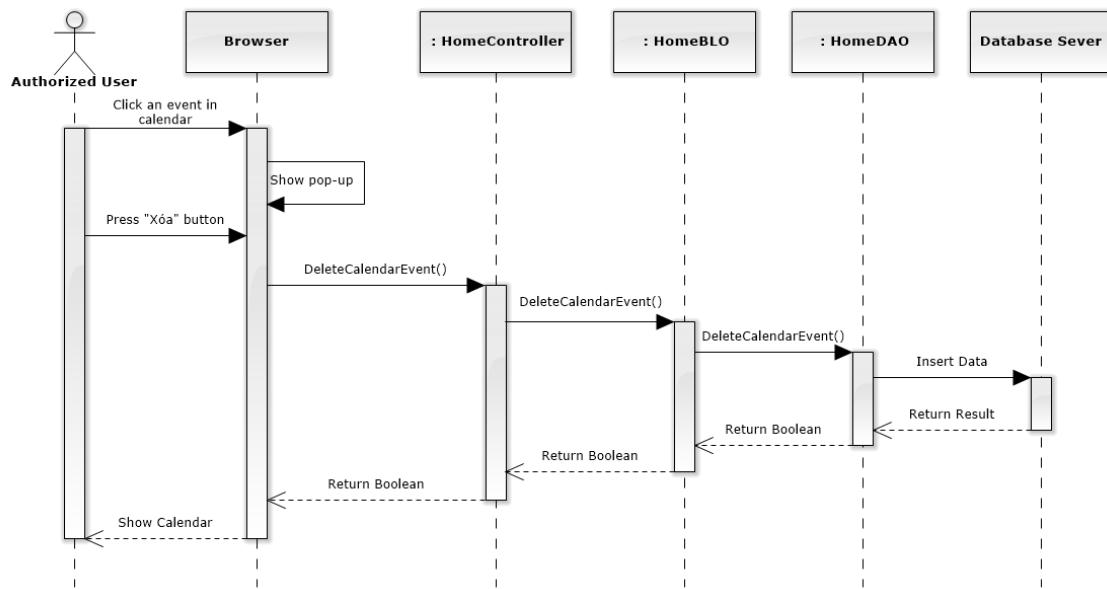


Figure 4-29: Delete Calendar Event Sequence Diagram

Capstone Project: LFMS

4.3.10. Manage Case

4.3.10.1. List all cases

4.3.10.1.1. Class diagram

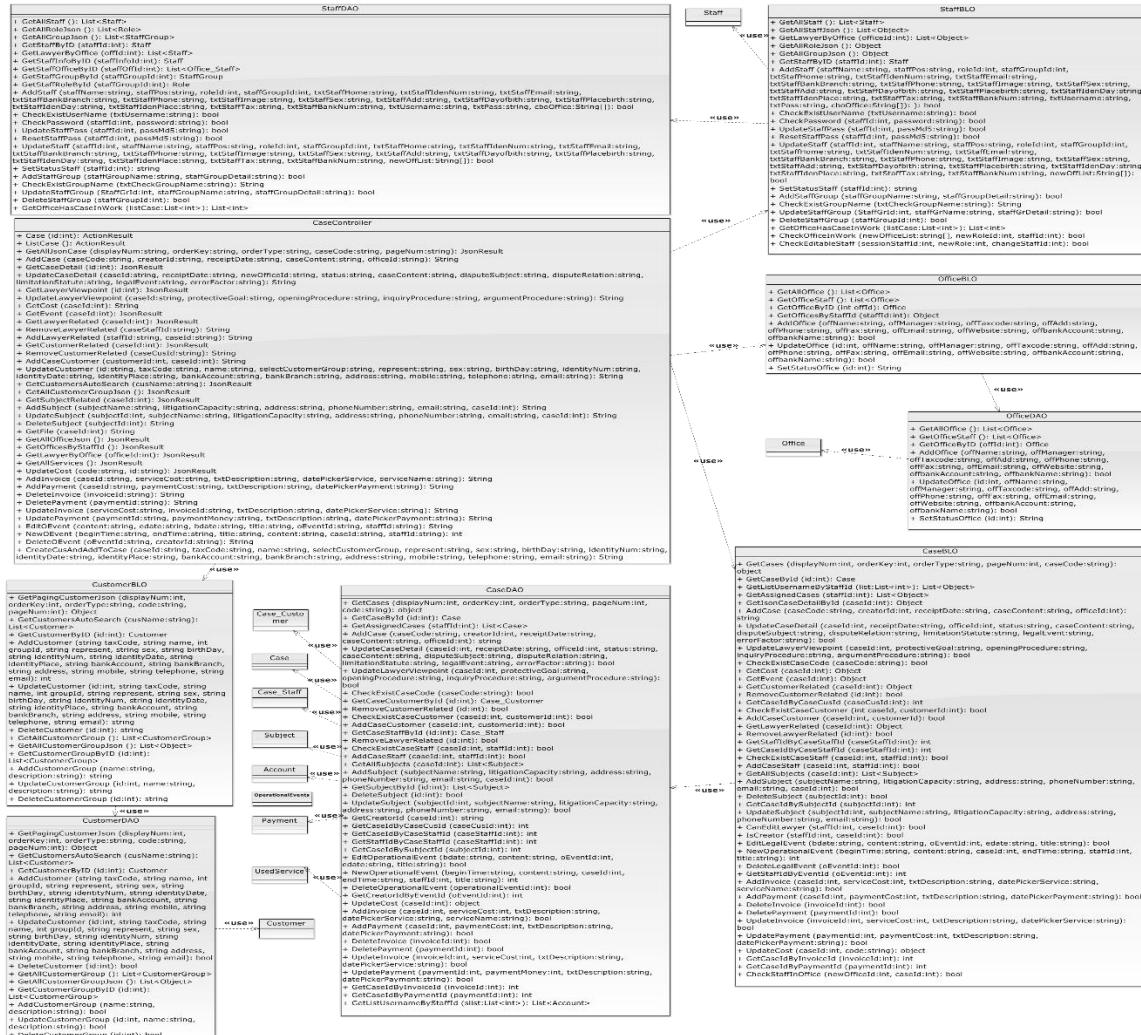


Figure 4-30 :Manage class diagram

4.3.10.1.2. Screen design

Danh sách hồ sơ					
<input style="width: 150px; height: 30px; background-color: #0070C0; color: white; border: none; border-radius: 5px; padding: 5px; margin-right: 10px;" type="button" value="Thêm hồ sơ tác nghiệp"/> (1)					
Hiển thị: <input type="button" value="10"/> <input type="button" value="hồ sơ"/> (2) (3) <input type="text" value="Tim kiem:"/>					
Mã hồ sơ	Nội dung	Ngày thụ lý	Thuộc văn phòng	Trạng thái	
TLST2014003	Tranh chấp thừa kế (4)	28/11/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
DSST2014001	Tranh chấp quyền sử dụng đất và kiện đòi tài sản	27/11/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
HS20140002	Tranh chấp quyền sở hữu nhà hàng	21/11/2014	Luật Thuận Nguyễn Vinh Long	Đã thụ lý	
DST1033K	Tranh chấp sau li hôn	21/11/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
AB-SB	hello	06/11/2014	Luật Thuận Nguyễn Vinh Long	Đang thụ lý	
DSL123	Tranh chấp đất	08/10/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
123	123	08/10/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
DSST2014002	Tranh chấp đất đai và mâu thuẫn dân sự	16/04/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
TLST2014001	Tranh chấp hợp đồng vay tài sản.	20/03/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đang thụ lý	
HS20140001	Tranh chấp tài sản thừa kế	20/01/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đã thụ lý	

Figure 4-31 :List all case image

No	Object/Control Name	Type	Required	Description
1	“Thêm hồ sơ tác nghiệp”	Button	Yes	Click to show popup for add new case
2	Line count	Dropdown list	Yes	Select line quantity in table
3	“Tìm kiếm”	Textbox	Yes	Search case automatically
4	View all cases	Table	Yes	Show all of case
5	Case count	Label	Yes	Show case quantity of page in table

6	Paging	Button	Yes	List case page by page
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4.3.10.1.3. Sequence diagram

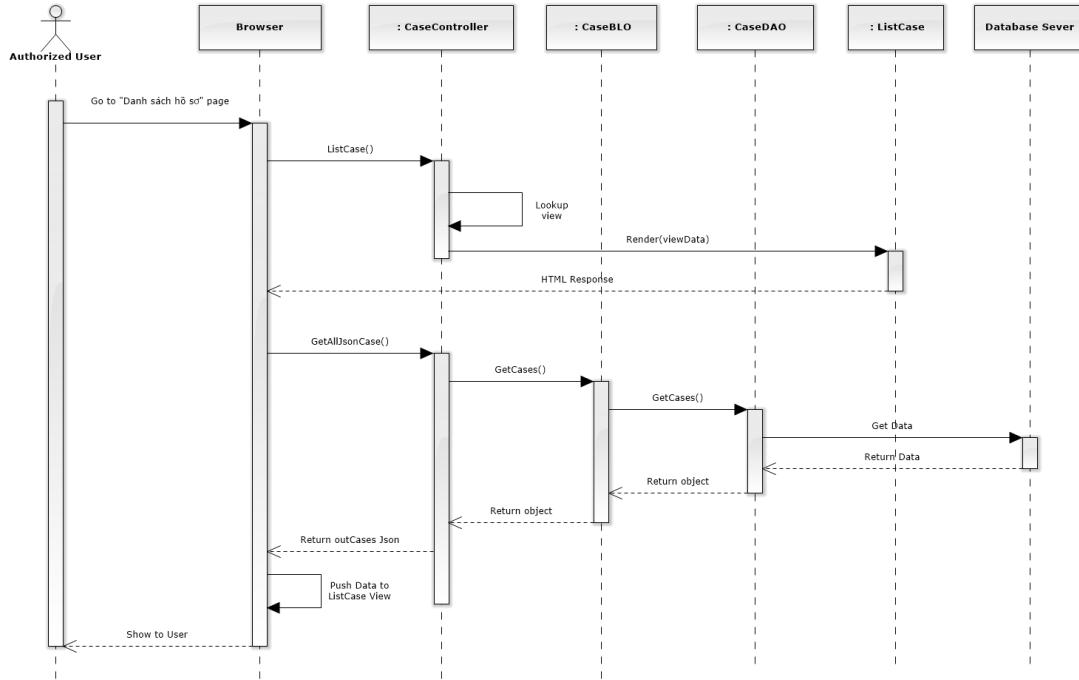


Figure 4-32: List All Cases Sequence Diagram

4.3.10.2. Add new case

4.3.10.2.1. Screen design

Figure 4-33 :Add new case image

No	Object/Control Name	Type	Required	Description
1	“Mã hồ sơ”	Textbox	Yes	Case code
2	“Ngày thụ lý”	Textbox list	Yes	Receipt date
3	“Thuộc văn phòng”	Textbox	Yes	Choose one office
4	“Nội dung”	Textbox	Yes	Case content
5	“Đóng”	Button	Yes	Click to close modal popup

6	“Thêm mới”	Button	Yes	Click to create a new case
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4.3.10.2.2. Sequence diagram

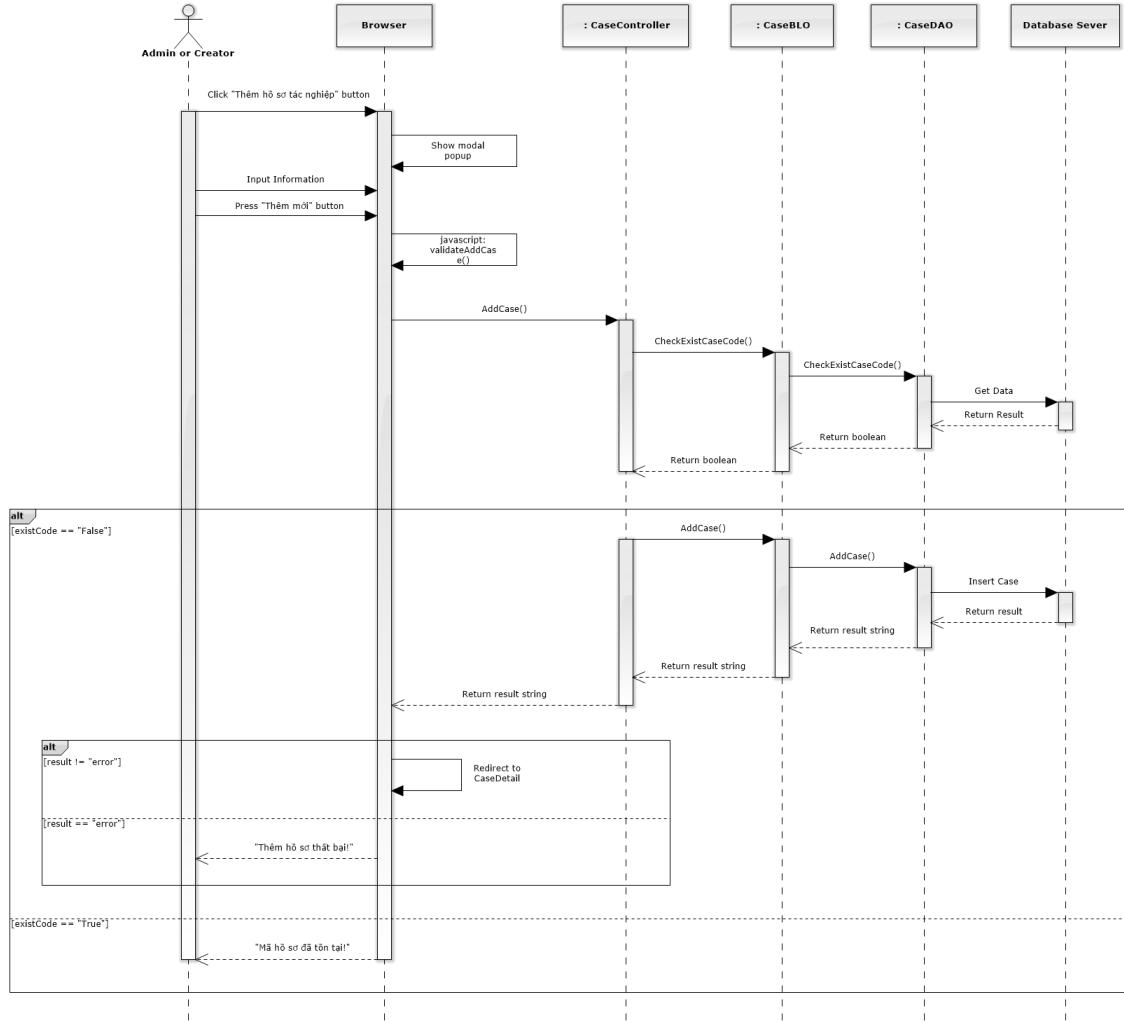


Figure 4-34: Add New Case Sequence Diagram

4.3.10.3. Manage Case Detail

4.3.10.3.1. View case detail

4.3.10.3.1.1. Screen design

Figure 4-35: View case detail image

No	Object/Control Name	Type	Required	Description
1	“Danh sách hồ sơ”	Link	Yes	Redirect to view all cases
2	Edit	Button	Yes	Must be click to edit infor
3	“Mã hồ sơ”	Textbox	Yes	Case code
4	“Ngày thụ lý”	Textbox	Yes	Receipt date
5	“Thuộc văn phòng”	Textbox	Yes	Choose one office
6	“Trạng thái”	Textbox	Yes	Case status

7	“Nội dung tranh chấp”	Textbox	Yes	The contents of dispute
8	“Đối tượng tranh chấp”	Textbox	Yes	The subject of dispute
9	“Quan hệ tranh chấp”	Textbox	Yes	The relation of dispute
10	“Thời hiệu”	Textbox	Yes	The statute of limitations
11	“Sự kiện pháp lý”	Textbox	Yes	Legal event
12	“Yêu tố lỗi”	Textbox	Yes	Error factor

4.3.10.3.1.2. Sequence diagram

4.3.10.3.2. Update case detail

4.3.10.3.2.1. Screen design

The screenshot shows the 'Update case detail' interface. The top navigation bar includes 'Trang chủ | Hồ sơ tác nghiệp > Danh sách hồ sơ > DSST2014001'. On the left, a sidebar lists 'Chi tiết hồ sơ' with options: Sư kiện, Người liên quan, Tài liệu liên quan, and Hóa đơn. The main content area is divided into several sections:

- Thông tin chung:** Includes a 'Mã hồ sơ' field containing 'DSST2014001' (3).
- Nội dung:** Contains a 'Nội dung tranh chấp' section with a dropdown menu showing 'Tranh chấp quyền sử dụng đất và kiện đòi tài sản' (7).
- Thời hiệu:** Shows a note: 'Còn trong thời hiệu khởi kiện căn cứ điểm a, khoản 3 điều 159 BL TTDS; (10)' and 'Thuộc thẩm quyền của Tand huyện Cẩm Mỹ căn'.
- Thuộc văn phòng:** Shows 'Luật Thuận Nguyễn Hồ Chí Minh' (4).
- Đối tượng tranh chấp:** Notes: 'Nhà và đất tại lạc ấp Cẩm Sơn, xã Xuân Mỹ, huyện Cẩm Mỹ theo giấy chứng nhận quyền sử dụng đất và quyền sở hữu nhà số K303571 do (8)'.
- Sự kiện pháp lý:** Shows a dropdown menu (11).
- Ngày thụ lý:** Shows '27/11/2014' (5).
- Quan hệ tranh chấp:** Notes: 'Quyền sử dụng đất và tài sản gắn liền với đất' and 'Đối tài sản' (9).
- Yêu tố lỗi:** Shows a dropdown menu (12).
- Trạng thái:** Shows 'Đang thụ lý' (6).
- Action Buttons:** Includes '(13)' (Hủy chỉnh sửa) and '(14)' (Lưu chỉnh sửa).

Figure 4-36: Update case detail image

No	Object/Control Name	Type	Required	Description
1	“Danh sách hồ sơ”	Link	Yes	Redirect to view all cases
2	Edit	Button	Yes	Must be click to edit infor
3	“Mã hồ sơ”	Textbox	Yes	Case code
4	“Ngày thu lý”	Textbox	Yes	Receipt date
5	“Thuộc văn phòng”	Textbox	Yes	Choose one office
6	“Trạng thái”	Textbox	Yes	Case status
7	“Nội dung tranh chấp”	Textbox	Yes	The contents of dispute
8	“Đối tượng tranh chấp”	Textbox	Yes	The subject of dispute
9	“Quan hệ tranh chấp”	Textbox	Yes	The relation of dispute
10	“Thời hiệu”	Textbox	Yes	The statute of limitations
11	“Sự kiện pháp lý”	Textbox	Yes	Legal event
12	“Yêu tố lỗi”	Textbox	Yes	Error factor
13	“Hủy chỉnh sửa”	Button	Yes	Cancel edit infor

14	“Lưu chỉnh sửa”	Button	Yes	Save new infor
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4.3.10.3.2.2. Sequence diagram

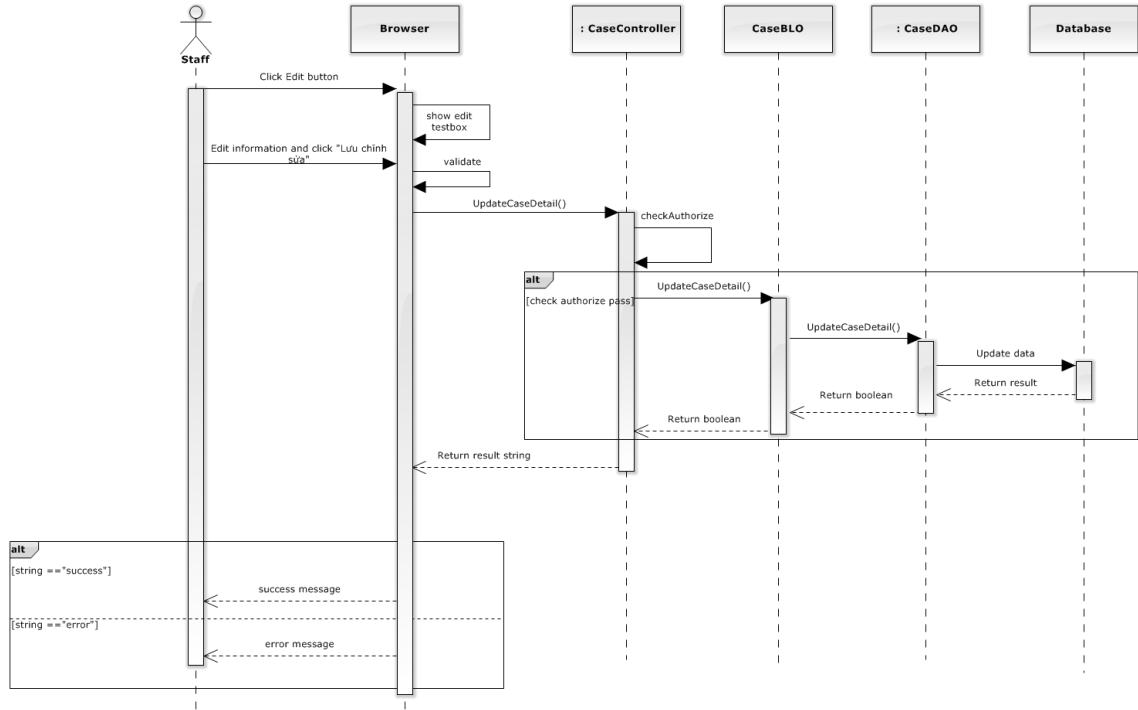


Figure 4-36: Update case detail sequence diagram

4.3.10.3.3. Manage Operation Event

4.3.10.3.3.1. List operation events

4.3.10.3.3.1.1. Screen design

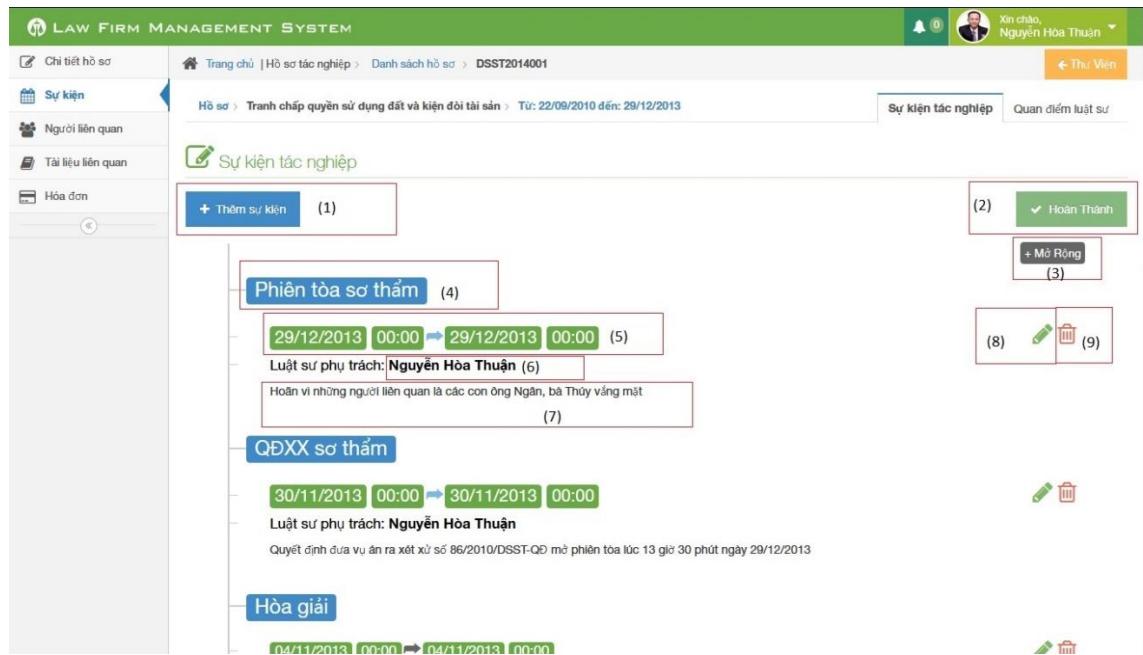


Figure 4-37: List operation event image

No	Object/Control Name	Type	Required	Description
1	Thêm sự kiện	Button	Yes	Click to add new operation event
2	Hoàn thành	Button	Yes	Click to finish edit operation event
3	Thu nhỏ / Mở rộng	Button	Yes	Reduce / Expand

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4	Title	Label	Yes	Title of Operation Event
5	Time range	Label	Yes	Click to choose begin time and end time of event
6	Staff username	Label	Yes	The lawyer who create a case
7	Content	Information	Yes	Content of Operation Event
8	Pencil	Button	Yes	Edit operation event
9	Trash	Button	Yes	Delete operation event

4.3.10.3.3.1.2. Sequence diagram

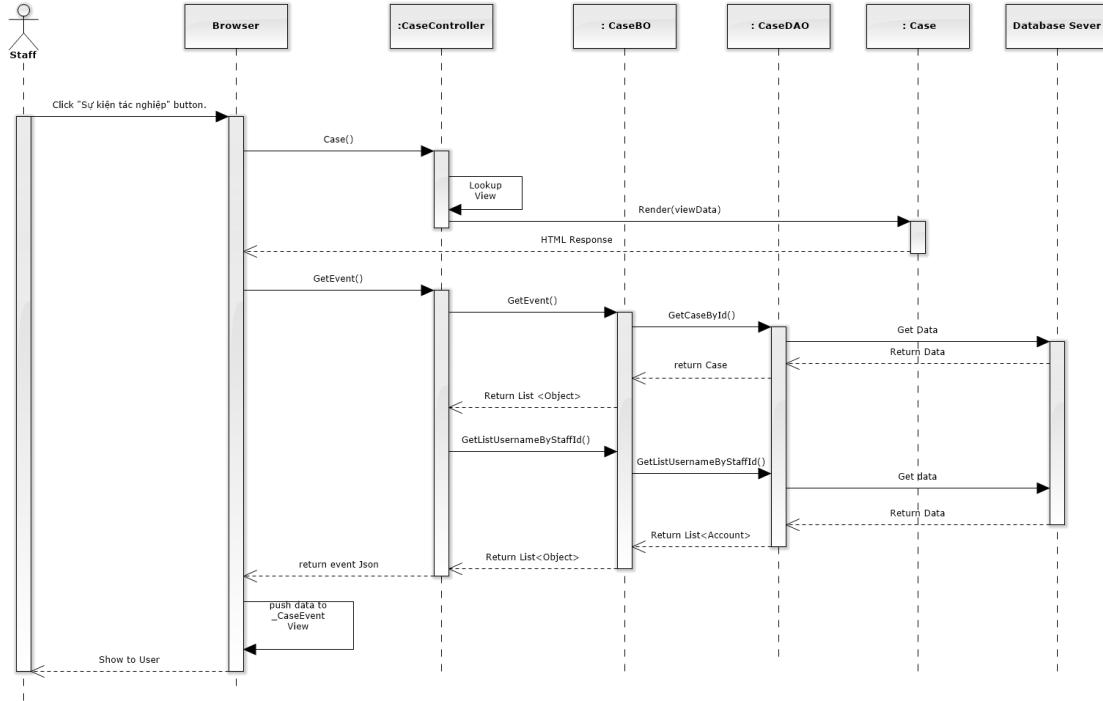


Figure 4-38: List Operation Events Sequence Diagram

4.3.10.3.3.2. Add new operation event

4.3.10.3.3.2.1. Screen design

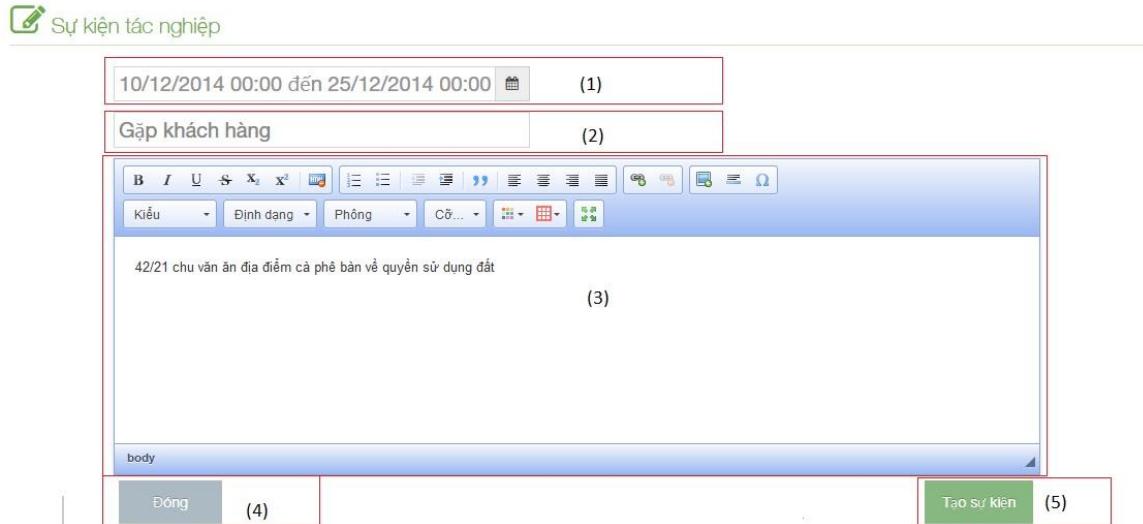


Figure 4-39: Add new operation event image

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No	Object/Control Name	Type	Required	Description
1	Time range	Button	Yes	Click to choose begin time and end time of event
2	Title	Table	Yes	Title of Operation Event
3	Content	Label	Yes	Content of Operation Event
4	“Đóng”	Button	Yes	Click to close add new operation event
5	“Tạo sự kiện”	Button	Yes	Click to add new operation event

4.3.10.3.3.2.2. Sequence diagram

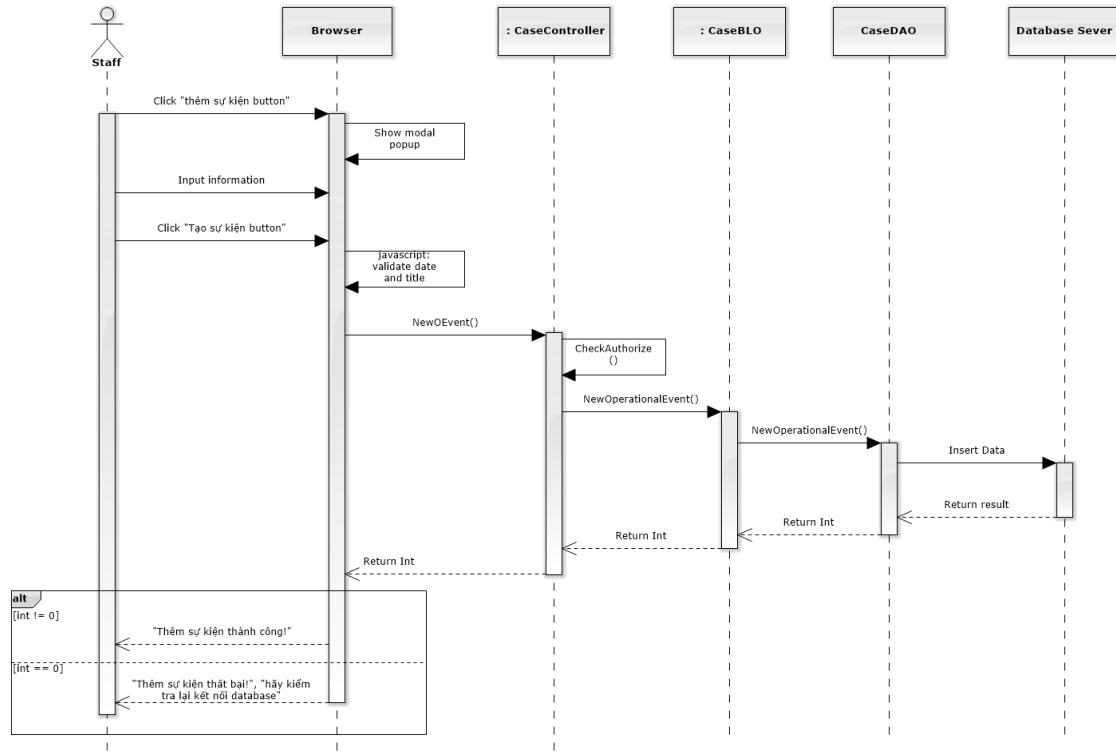


Figure 4-40: Add New Operation Event Sequence Diagram

4.3.10.3.3.3. Edit operation event

4.3.10.3.3.3.1. Screen design

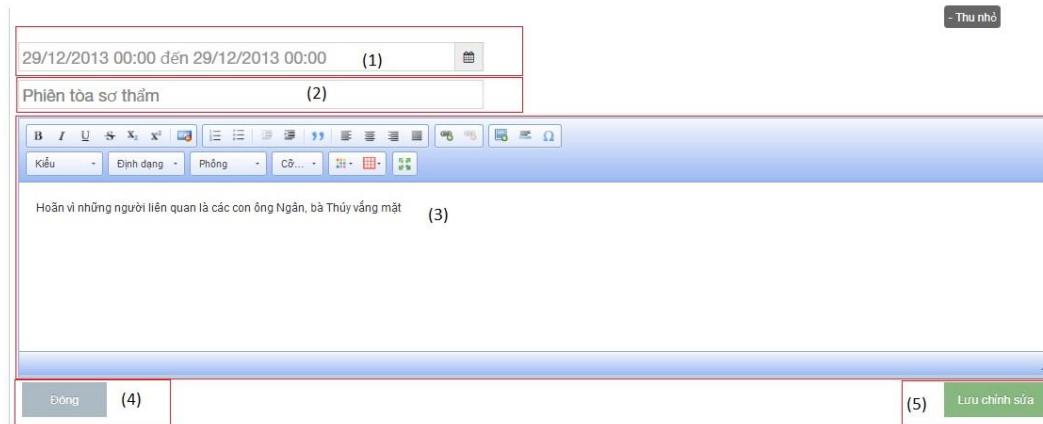


Figure 4-41: Edit operation event image

No	Object/Control Name	Type	Required	Description
1	Time range	Button	Yes	Click to choose begin time and end time of event
2	Title	Table	Yes	Title of Operation Event
3	Content	Label	Yes	Content of Operation Event
4	“Đóng”	Button	Yes	Click to close edit operation event
5	“Lưu chỉnh sửa”	Button	Yes	Click to edit operation event

4.3.10.3.3.3.2. Sequence diagram

Capstone Project: LFMS

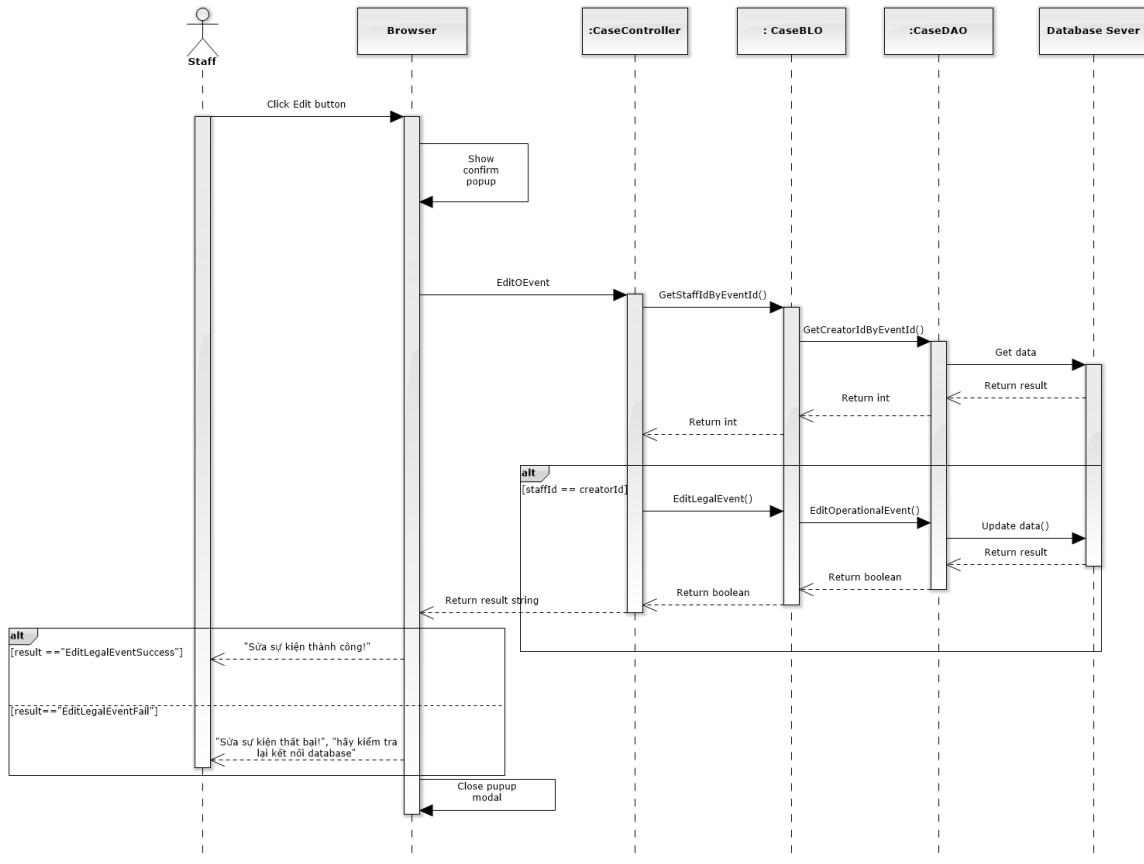


Figure 4-42: Edit Operation Event Sequence Diagram

4.3.10.3.3.4. Delete operation event

4.3.10.3.3.4.1. Screen design

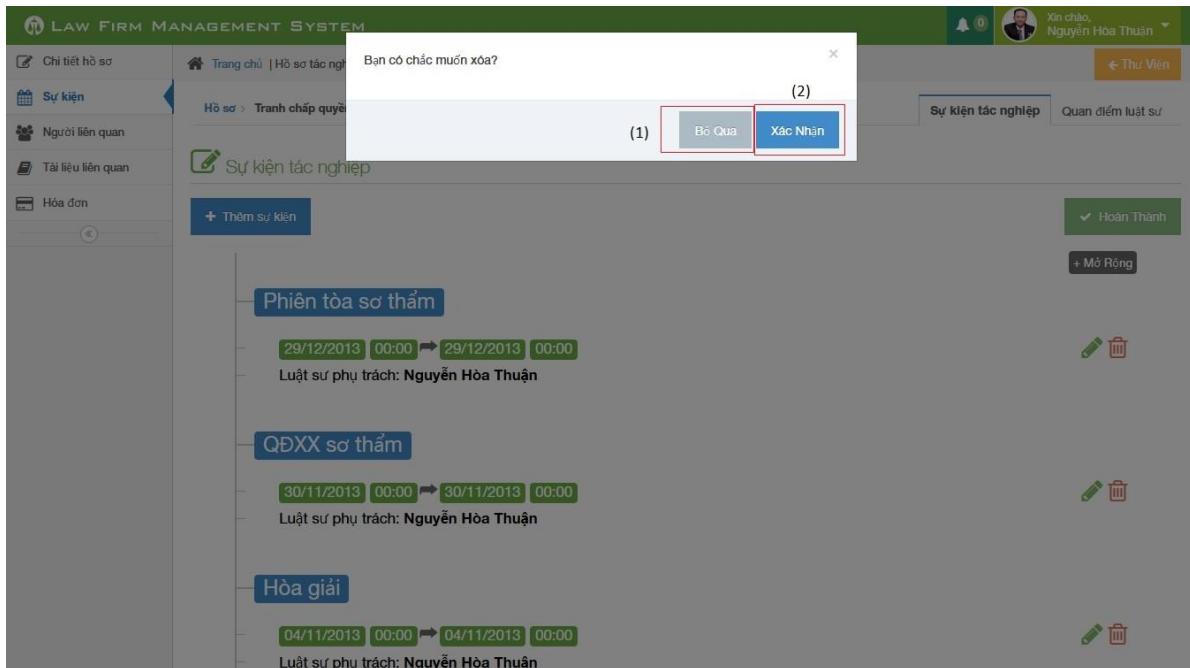


Figure 4-43: Delete operation event image

No	Object/Control Name	Type	Required	Description
1	“BỎqua”	Button	Yes	Click to close delete operation event
2	“Xác nhận”	Button	Yes	Click to delete operation event

4.3.10.3.3.4.2. Sequence diagram

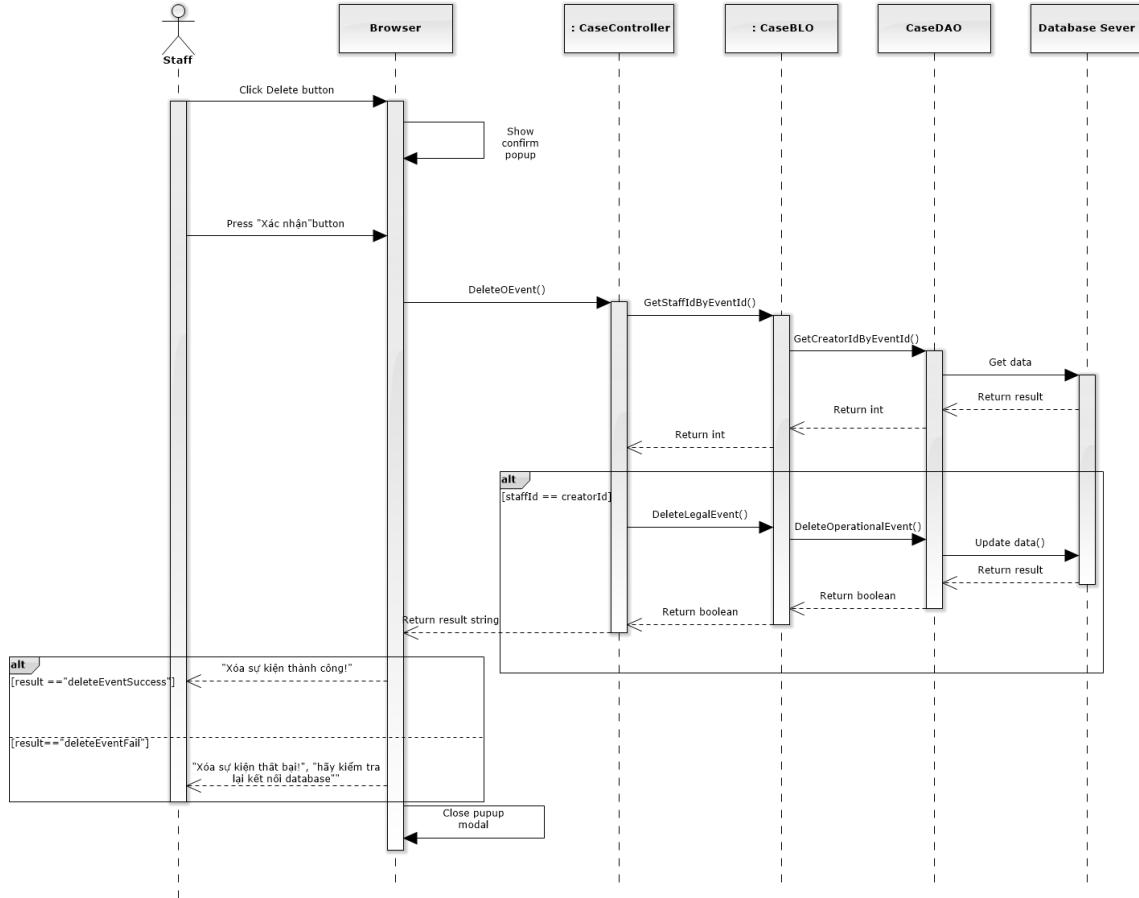


Figure 4-44: Delete Operation Event Sequence Diagram

4.3.10.3.4. Manage Lawyer Related

4.3.10.3.4.1. List lawyer related

4.3.10.3.4.1.1. Screen design

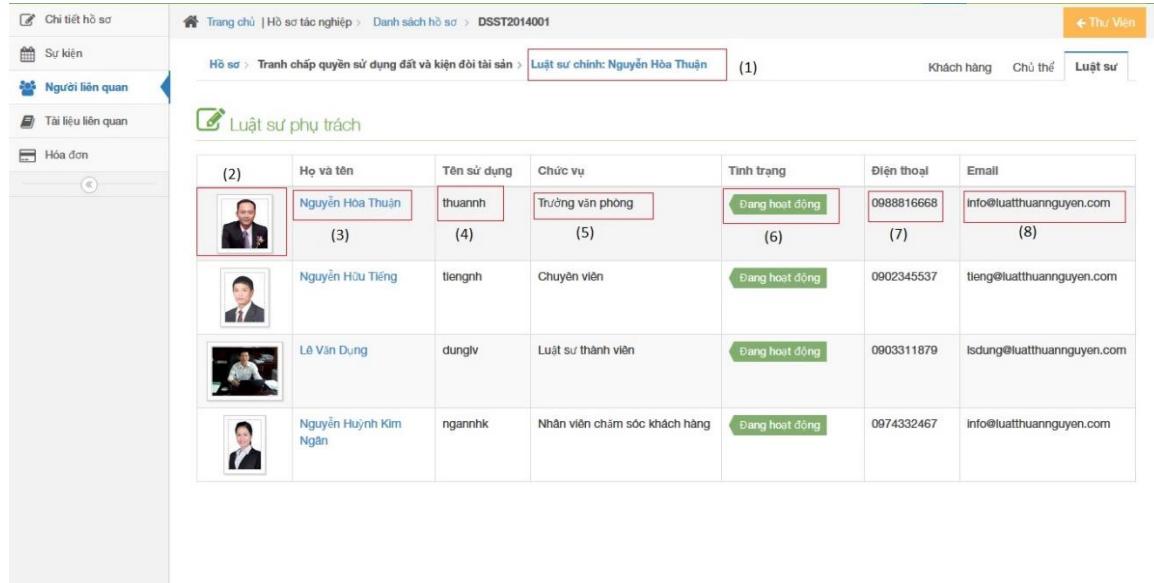


Figure 4-45: List lawyer related image

No	Object/Control Name	Type	Required	Description
1	“Luật sư chính”	Label	Yes	View the name main lawyer in charge of case
2	Image of staff	Picture	Yes	Click to show popup detail of staff
3	“Họ và tên”	Link	Yes	Click to show popup detail of staff
4	“Tên sử dụng”	Label	Yes	Username of staff

5	“Chức vụ”	Label	Yes	Role of staff
6	“Tình trạng”	Label	Yes	Status of staff
7	“Điện thoại”	Label	Yes	Phone number of staff
8	“Email”	Label	Yes	Email of staff

4.3.10.3.4.1.2. Sequence diagram

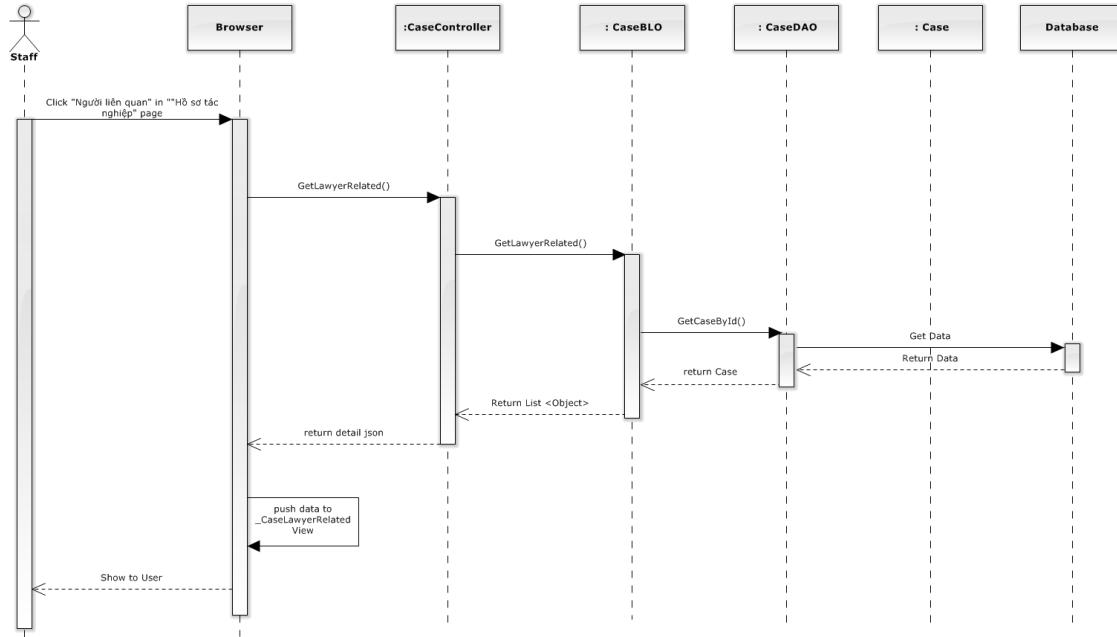


Figure 4-46: List lawyer related sequence diagram

4.3.10.3.4.2. Add lawyer related

4.3.10.3.4.2.1. Screen design

Họ và tên	Tên sử dụng	Chức vụ	Tình trạng	Điện thoại	Email
Nguyễn Hòa Thuận	thuannh	Trưởng văn phòng	Đang hoạt động	0988816668	info@luatthuannguyen.com
Nguyễn Hữu Tiếng	tiengnh	Chuyên viên	Đang hoạt động	0902345537	tieng@luatthuannguyen.com
Lê Văn Dũng	dunglv	Luật sư thành viên	Đang hoạt động	0903311879	lsdung@luatthuannguyen.com
Nguyễn Huỳnh Kim Ngân	ngannhk	Nhân viên chăm sóc khách hàng	Đang hoạt động	0974332467	info@luatthuannguyen.com

Tim Kiếm ...

- Nguyễn Hòa Thuận (thuannh)
- Nguyễn Huỳnh Kim Ngân (ngannhk)
- Lê Văn Dũng (dunglv)
- Nguyễn Thị Hòa Thảo (thaonth)
- Nguyễn Hữu Tiếng (tiengnh)
- Lương Thị Kim Anh (anhthk)

(3)
+ Thêm vào danh sách
(4)
✓ Hoàn Thành

Figure 4-47: Add lawyer related image

No	Object/Control Name	Type	Required	Description
1	Edit	Button	Yes	Must be click to edit lawyer related
2	List of staff	Combo box	Yes	Select the name will be add to lawyer related
3	“Thêm vào danh sách”	Button	Yes	Click to add new lawyer related

4	“Hoàn thành”	Button	Yes	Click to finish add new lawyer related
---	--------------	--------	-----	----------------------------------------

4.3.10.3.4.2.2. Sequence diagram

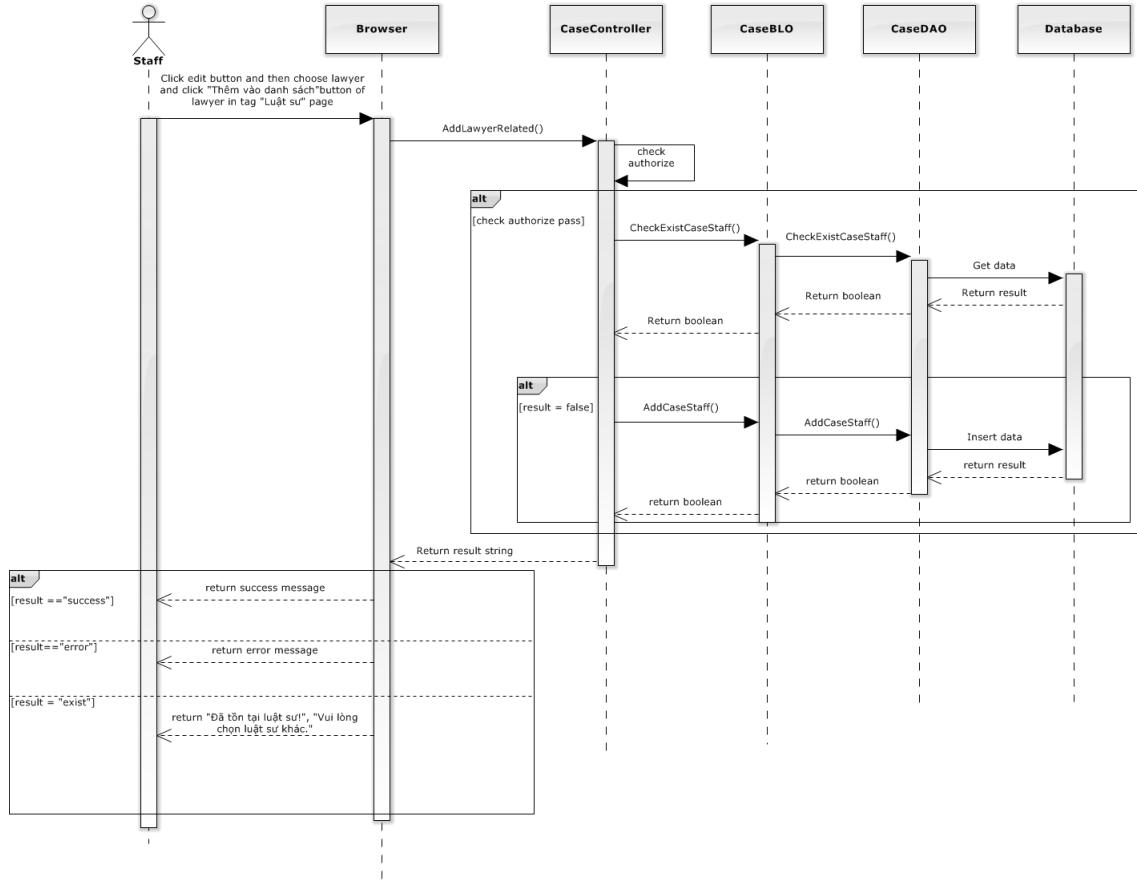


Figure 4-48: Add lawyer related sequence diagram

4.3.10.3.4.3. Delete lawyer related

4.3.10.3.4.3.1. Screen design

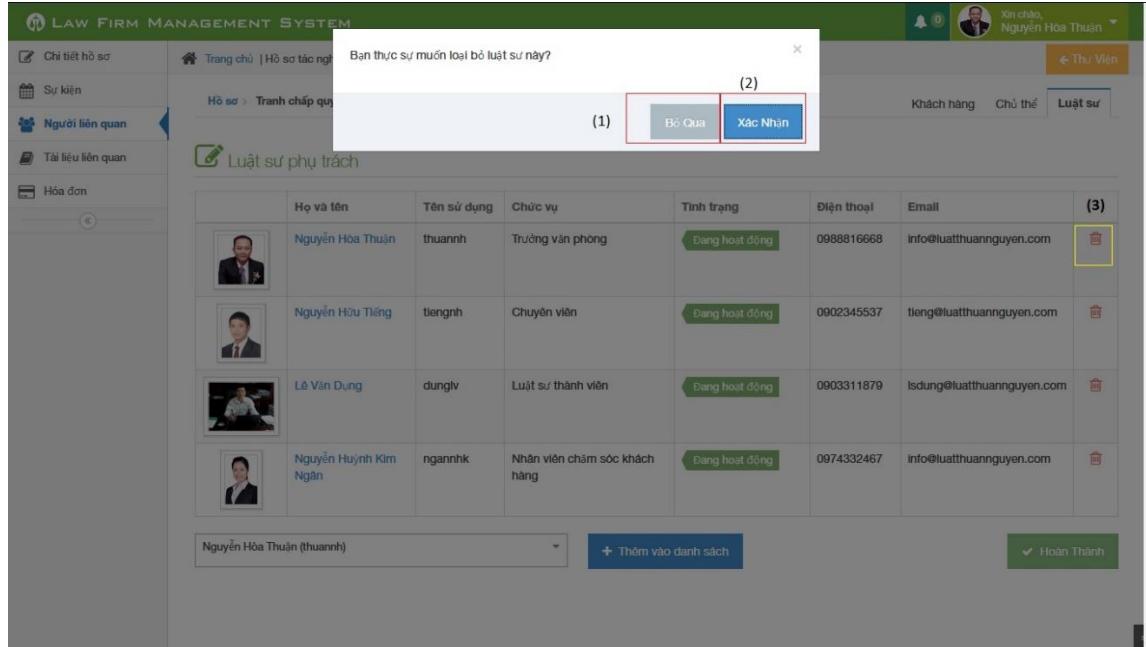


Figure 4-49: Delete lawyer related image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete lawyer related
2	“Xác nhận”	Button	Yes	Click to confirm delete lawyer related
3	Trash	Button	Yes	Click to show pop up delete lawyer related

4.3.10.3.4.3.2. Sequence diagram

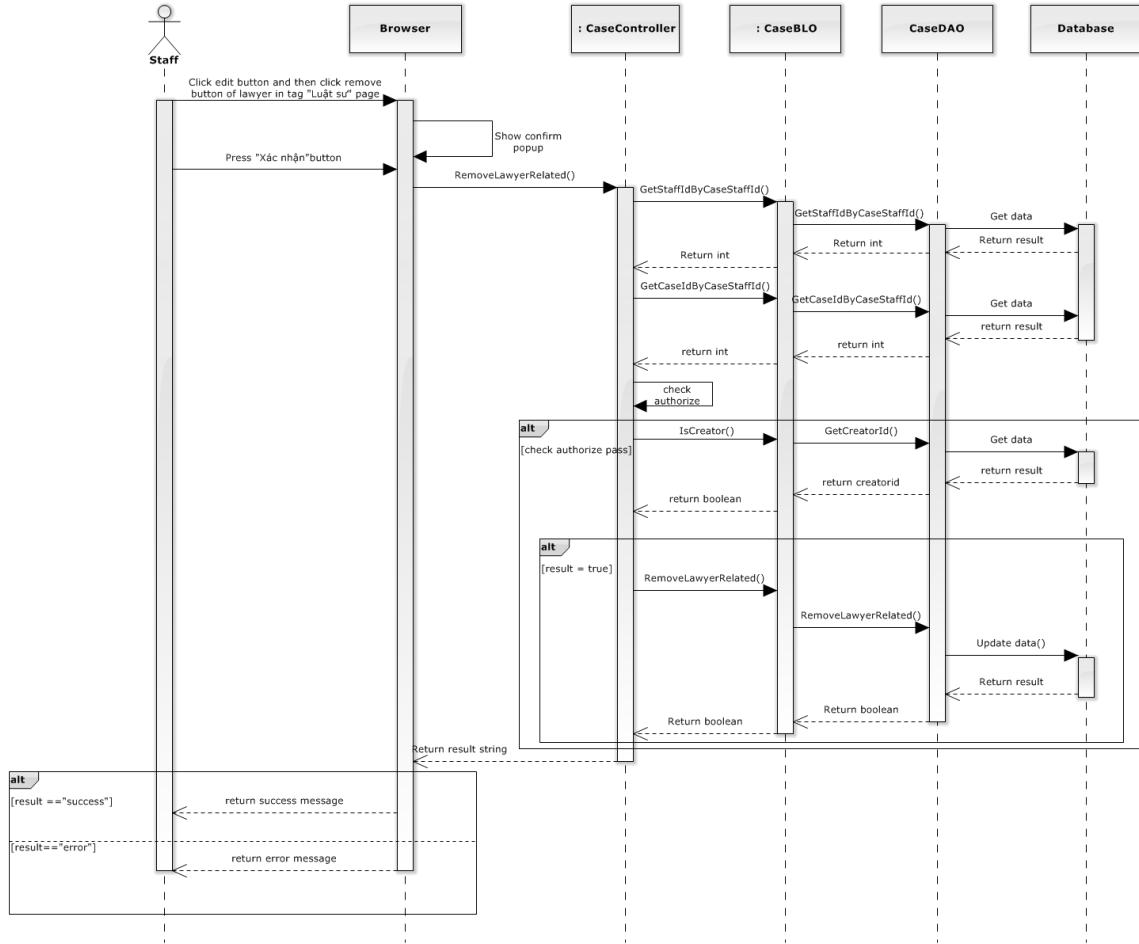


Figure 4-50: Delete lawyer related sequence diagram

4.3.10.3.5. Manage Customer Related

4.3.10.3.5.1. List customer related

4.3.10.3.5.1.1. Screen design



Figure 4-51: List customer related image

No	Object/Control Name	Type	Required	Description
1	“Họ và tên”	Link	Yes	Click to show popup detail of customer
2	List all customer related	Table	Yes	List all customer related

4.3.10.3.5.1.2. Sequence diagram

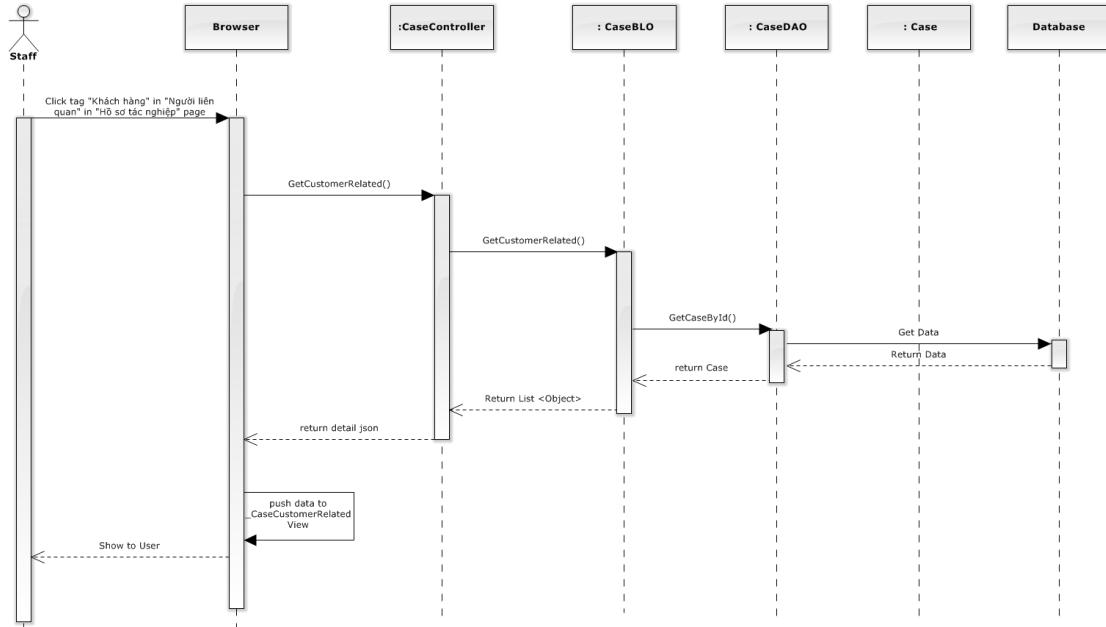


Figure 4-52: List customer related sequence diagram

4.3.10.3.5.2. Add customer related

4.3.10.3.5.2.1. Screen design

Hồ sơ > Tranh chấp quyền sử dụng đất và kiện đòi tài sản > Luật sư chính: Nguyễn Hòa Thuận

	Khách hàng	Chủ thuê	Luật sư											
(1)	Khách hàng													
	<table border="1"> <thead> <tr> <th>Họ và tên</th> <th>Người đại diện</th> <th>Nhóm</th> <th>Địa chỉ</th> <th>Điện thoại</th> <th></th> </tr> </thead> <tbody> <tr> <td>Nguyễn Thị Hoa</td> <td>Nguyễn Thị Huệ</td> <td>Cá nhân</td> <td>81 Đinh Bộ Lĩnh, P.26, Q.BThạnh, HCM</td> <td>0982885334</td> <td></td> </tr> </tbody> </table> <div style="display: flex; justify-content: space-around;"> (2) Tạo Khách hàng (3) <input type="text" value="Vương"/> Tim Kiếm ... (4) Thêm vào danh sách (5) Hoàn Thành </div>	Họ và tên	Người đại diện	Nhóm	Địa chỉ	Điện thoại		Nguyễn Thị Hoa	Nguyễn Thị Huệ	Cá nhân	81 Đinh Bộ Lĩnh, P.26, Q.BThạnh, HCM	0982885334		
Họ và tên	Người đại diện	Nhóm	Địa chỉ	Điện thoại										
Nguyễn Thị Hoa	Nguyễn Thị Huệ	Cá nhân	81 Đinh Bộ Lĩnh, P.26, Q.BThạnh, HCM	0982885334										

Figure 4-53: Add customer related image

Capstone Project: LFMS

No	Object/Control Name	Type	Required	Description
1	Edit	Button	Yes	Must be click to edit customer related
2	“Tạo khách hàng”	Button	Yes	Click to create new customer
3	List of customer	Combo box	Yes	Select the name will be add to customer related
4	“Thêm vào danh sách”	Button	Yes	Click to add new customer related
5	“Hoàn thành”	Button	Yes	Click to finish add new customer related

4.3.10.3.5.2.2. Sequence diagram

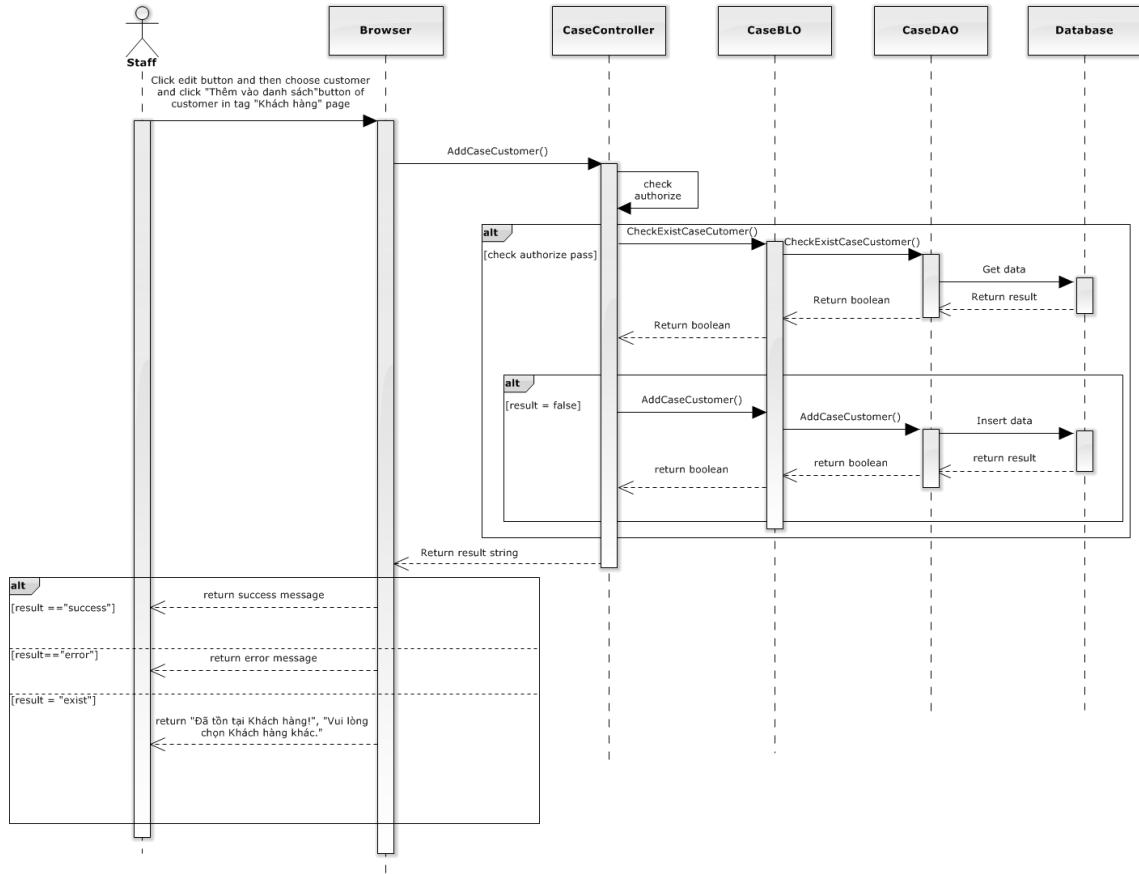


Figure 4-54: Add customer related sequence diagram

4.3.10.3.5.3. Delete customer related

4.3.10.3.5.3.1. Screen design

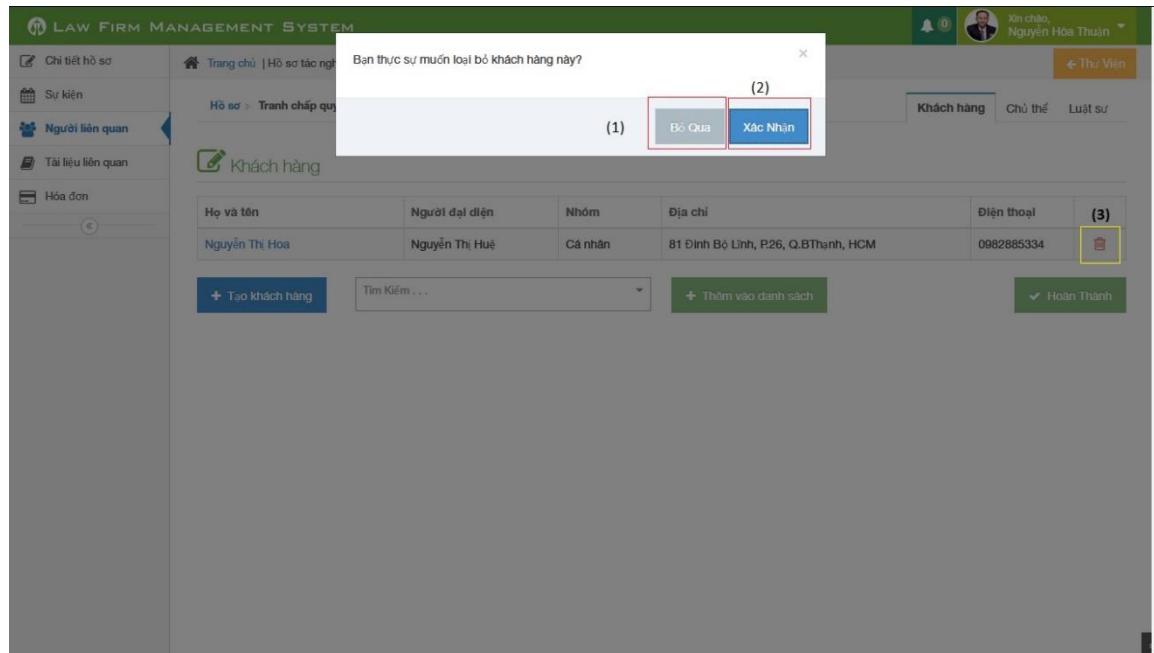


Figure 4-55: Delete customer related image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete customer related
2	“Xác nhận”	Button	Yes	Click to confirm delete customer related
3	Trash	Button	Yes	Click to show pop up delete customer related

4.3.10.3.5.3.2. Sequence diagram

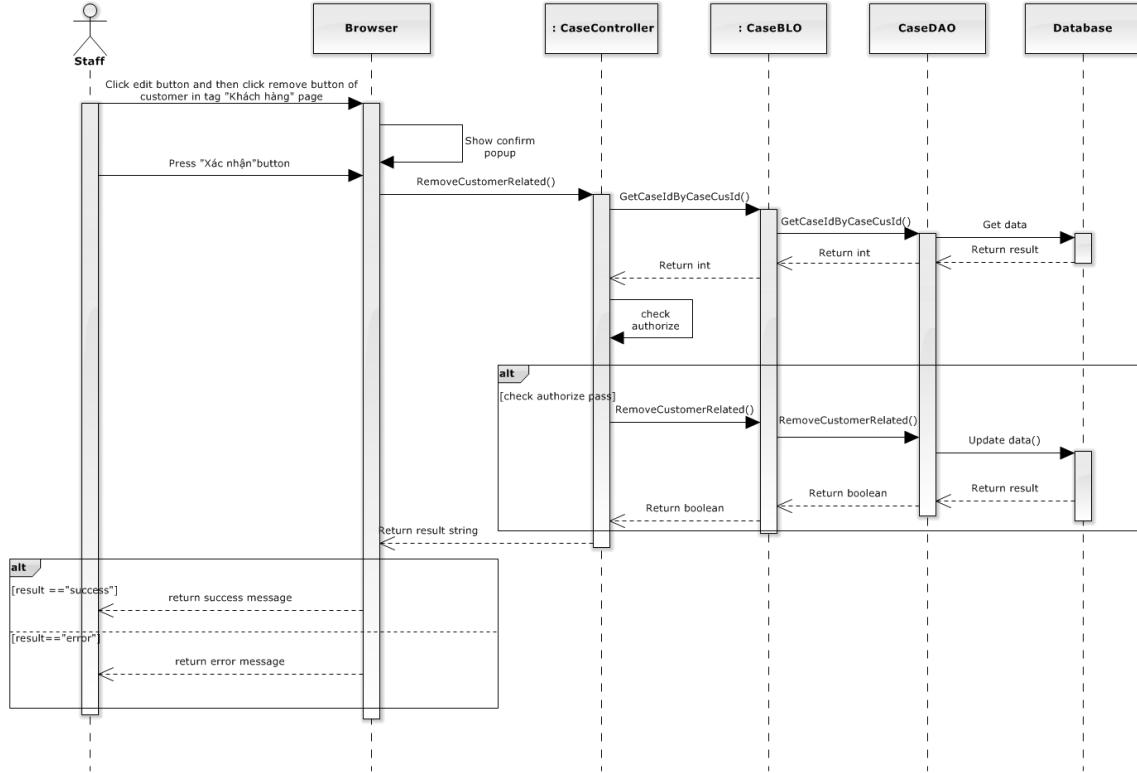


Figure 4-56: Delete customer related image

4.3.10.3.6. Manage Subject Related

4.3.10.3.6.1. View subject related

4.3.10.3.6.1.1. Screen design

Họ và tên	Tư cách tố tụng	Địa chỉ	Điện thoại	Email
Nguyễn Văn Lượng	Bị đơn	Cẩm Phả, Xuân Mỹ, Cẩm Mỹ, Đà Nẵng		
Nguyễn Công Bằng	Người ủy quyền	35 QL 13, P26, Q.Bình Thạnh, HCM		

Figure 4-57: View subject related image

No	Object/Control Name	Type	Required	Description
1	List all subject related	Table	Yes	List all subject related

4.3.10.3.6.1.2. Sequence diagram

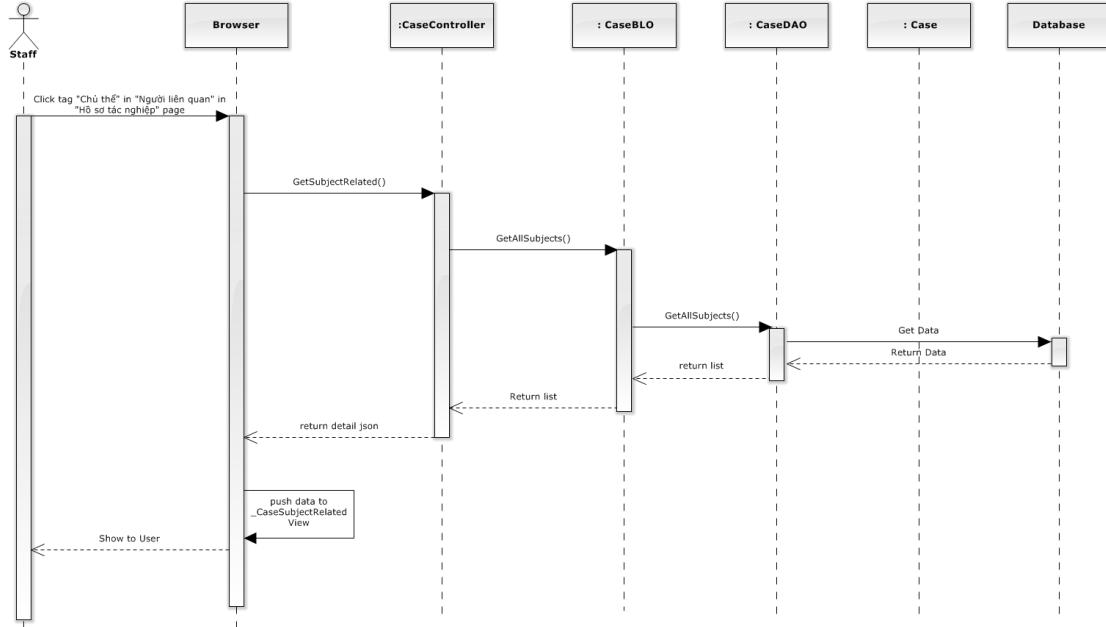


Figure 4-58: View subject related sequence diagram

4.3.10.3.6.2. Add subject related

4.3.10.3.6.2.1. Screen design

The screenshot shows a web application interface for adding subject-related information. At the top, there is a breadcrumb navigation: Hồ sơ > Tranh chấp quyền sử dụng đất và kiện đòi tài sản > Luật sư chính: Nguyễn Hòa Thuận. To the right of the breadcrumb are tabs: Khách hàng, Chủ thể (which is selected), and Luật sư.

Below the tabs, there is a table with two rows:

Họ và tên	Tư cách tổ tụng	Địa chỉ	Điện thoại	Email	
Nguyễn Văn Lương	Bị đơn	Cẩm Phả, Xuân Mỹ, Cẩm Mỹ, Đà Nẵng			
Nguyễn Công Bằng	Người ủy quyền	35 QL 13, P26, Q.B.Thạnh, HCM			

On the left side of the table, there is a button labeled (1) Chú thể liên quan.

On the right side of the table, there is a green button labeled (3) Hoàn Thành.

At the bottom left, there is a blue button labeled (2) Tạo chủ thể.

A modal window titled 'Thông tin chủ thể' is open at the bottom center. It contains fields for: Tên chủ thể * (4), Tư cách tổ tụng * (6), Điện thoại: (5), Email: (7), Địa chỉ: (8). Below these fields are two buttons: (9) Đóng and (10) Thêm mới.

Figure 4-59: Add subject related image

No	Object/Control Name	Type	Required	Description
1	Edit	Button	Yes	Must be click to edit subject related
2	“Tạo chủ đề”	Button	Yes	Click to open pop-up create new subject
3	“Hoàn thành”	Button	Yes	Click to finish add new subject related
4	“Tên chủ đề”	Textbox	Yes	Name of subject
5	“Điện thoại”	Textbox	Yes	Phone of subject
6	“Tư cách tố tụng”	Textbox	Yes	<i>litigation capacity of subject</i>
7	“Email”	Textbox	Yes	Email of subject
8	“Địa chỉ”	Textbox	Yes	Address of subject
9	“Đóng”	Button	Yes	Click to close pop-up add new subject
10	“Thêm mới”	Button	Yes	Click to add new subject

4.3.10.3.6.2.2. Sequence diagram

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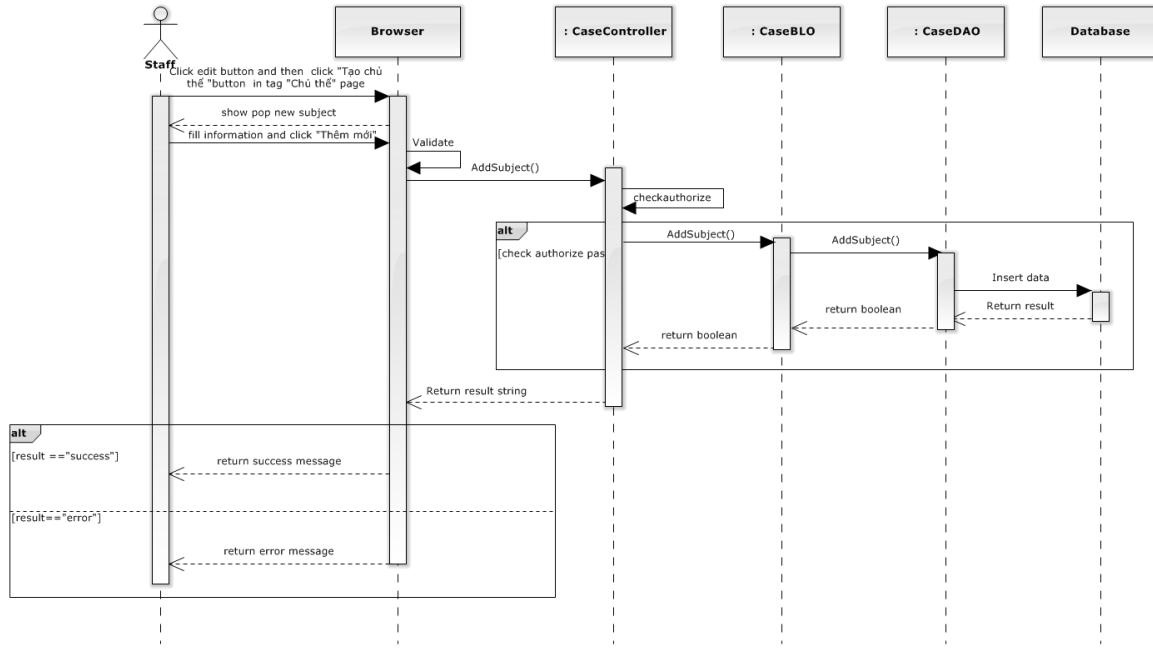


Figure 4-60: Add subject related sequence diagram

4.3.10.3.6.3. Update subject related

4.3.10.3.6.3.1. Screen design

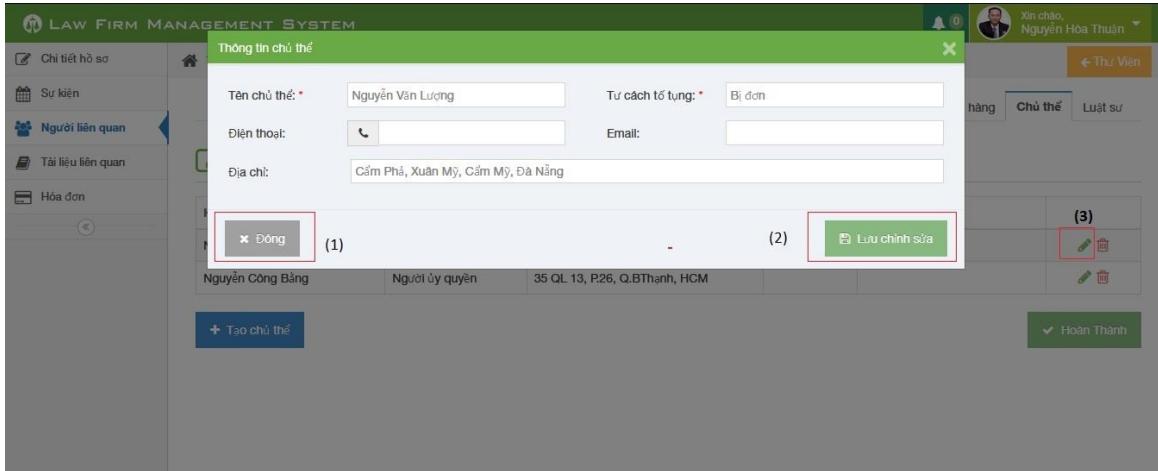


Figure 4-61: Update subject related image

No	Object/Control Name	Type	Required	Description
1	“Đóng”	Button	Yes	Click to close update subject related
2	“Lưu chỉnh sửa”	Button	Yes	Click to confirm update subject related
3	Edit	Icon	Yes	Click to show pop up update subject related

4.3.10.3.6.3.2. Sequence diagram

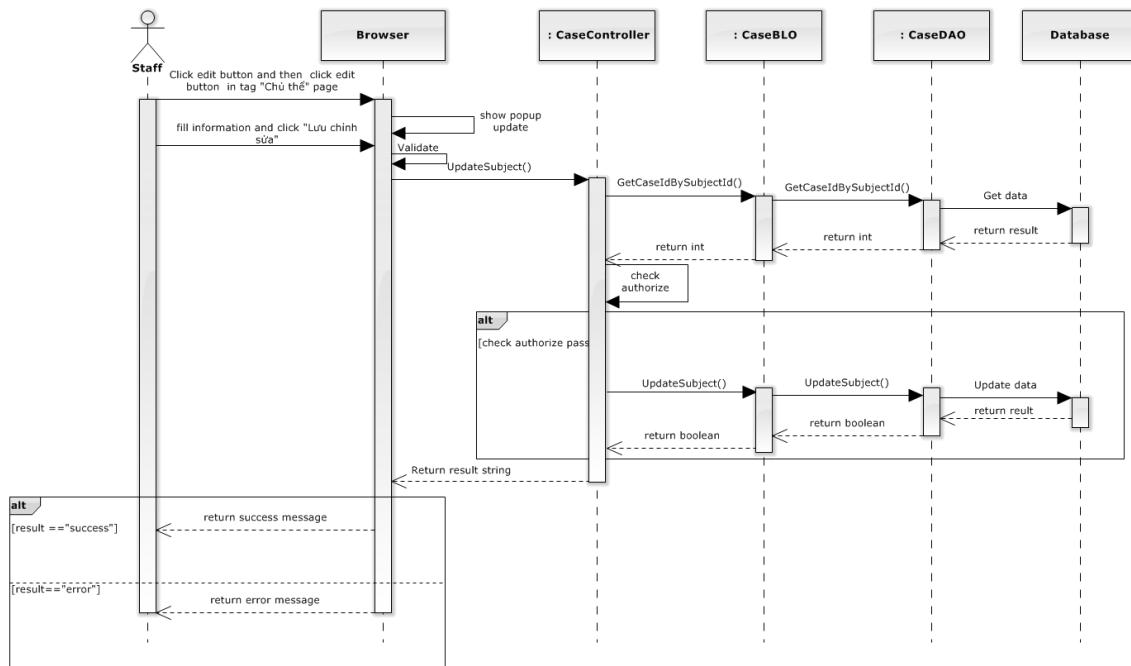


Figure 4-62: Update subject related sequence diagram

4.3.10.3.6.4. Delete subject related

4.3.10.3.6.4.1. Screen design

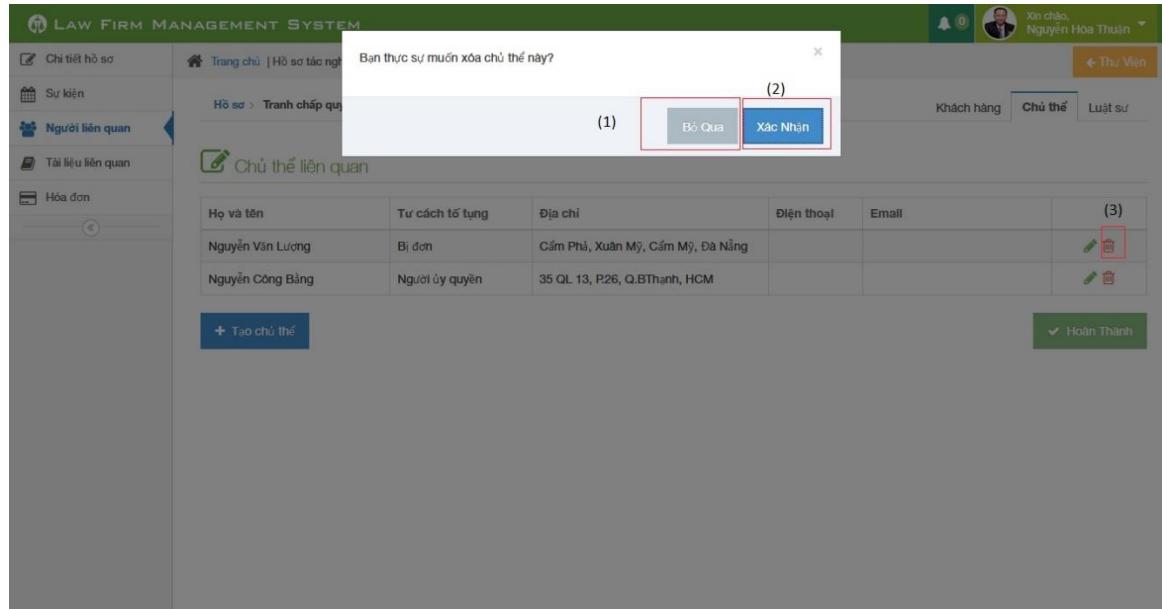


Figure 4-63: Delete subject related image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete subject related
2	“Xác nhận”	Button	Yes	Click to confirm delete subject related
3	Trash	Button	Yes	Click to show pop up delete subject related

4.3.10.3.6.4.2. Sequence diagram

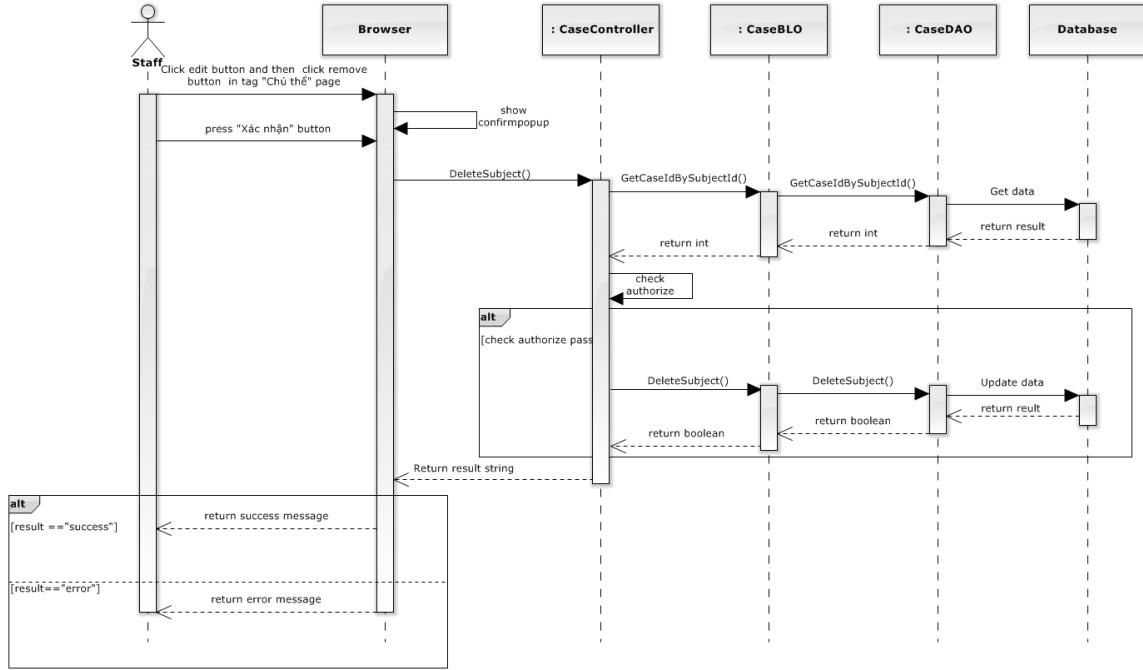


Figure 4-64: Delete subject related sequence diagram

4.3.10.3.7. Manage Used Service

4.3.10.3.7.1. View used service

4.3.10.3.7.1.1. Screen design

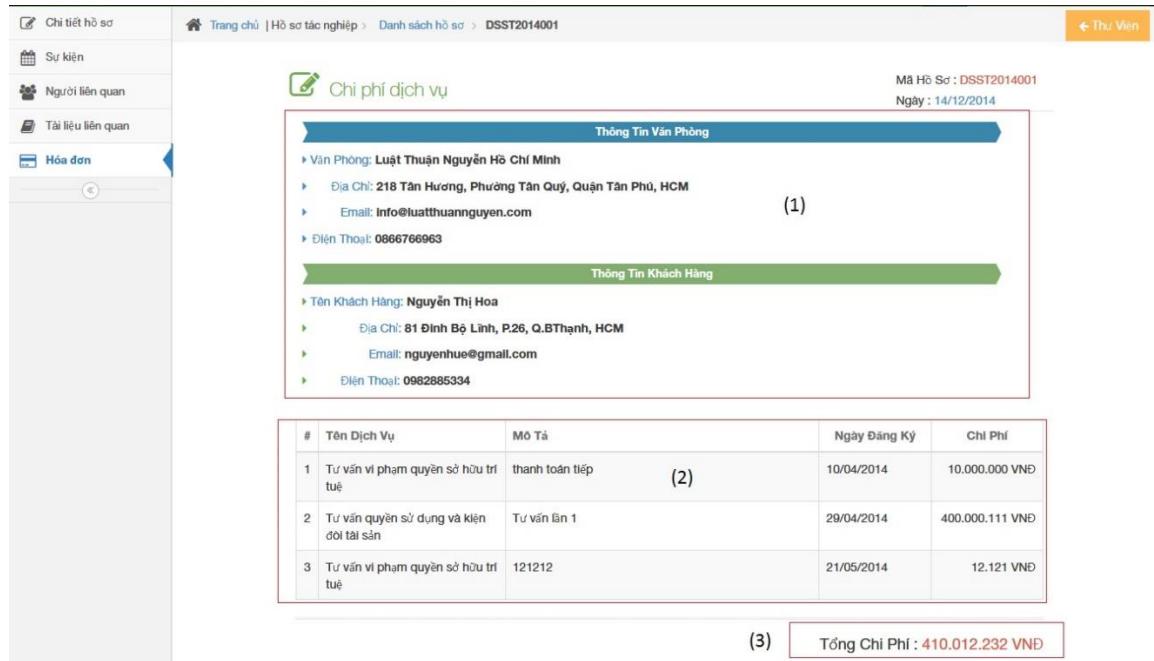


Figure 4-65: View used service image

No	Object/Control Name	Type	Required	Description
1	List all customer and office information	Table	Yes	List all customer and office information
2	List all used service	Table	Yes	List all used service
3	List total cost	Label	Yes	List total cost

4.3.10.3.7.1.2. Sequence diagram

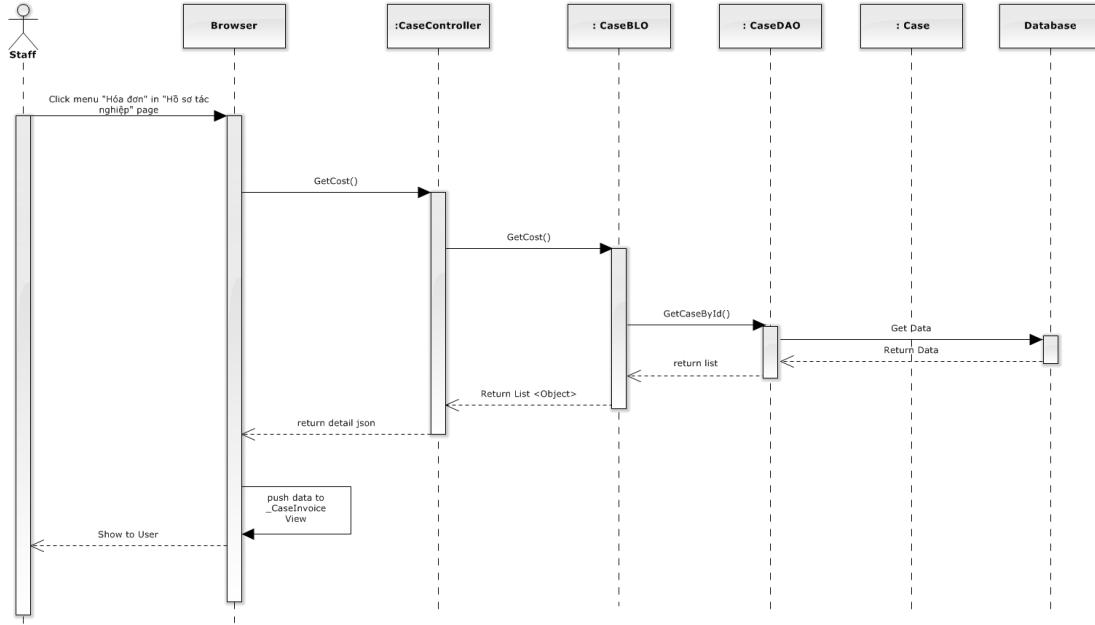


Figure 4-66: View used service sequence diagram

4.3.10.3.7.2. Add invoice

4.3.10.3.7.2.1. Screen design

(1)

Chi phí dịch vụ

Mã Hồ Sơ : DSST2014001
Ngày : 14/12/2014

Thông Tin Văn Phòng

Văn Phòng: Luật Thuận Nguyễn Hồ Chí Minh
Địa Chỉ: 218 Tân Hương, Phường Tân Quý, Quận Tân Phú, HCM
Email: Info@luatthuannguyen.com
Điện Thoại: 0866766963

Thông Tin Khách Hàng

Tên Khách Hàng: Nguyễn Thị Hoa
Địa Chỉ: 81 Đinh Bộ Lĩnh, P.26, Q.Bình Thạnh, HCM
Email: nguyenhue@gmail.com
Điện Thoại: 0982885334

#	Tên Dịch Vụ	Mô Tả	Ngày Đăng Ký	Chi Phí	
1	Tư vấn vi phạm quyền sở hữu trí tuệ	thanh toán tiếp	10/04/2014	10.000.000 VNĐ	
2	Tư vấn quyền sử dụng và kiện đòi tài sản	Tư vấn lần 1	29/04/2014	400.000.111 VNĐ	
3	Tư vấn vi phạm quyền sở hữu trí tuệ	121212	21/05/2014	12.121 VNĐ	

+ Them dich vu (2) Hoàn Thành (3)

Tổng Chi Phí : 410.012.232 VNĐ

Thêm Dịch Vụ:

Loại Dịch Vụ: (4) Tên Dịch Vụ: (5)
Ngày Đăng Ký: (6) Chi Phí: (7)
Nội Dung: (8)
* Đóng (9) (10) Thêm Dịch Vụ

Figure 4-67: Add invoice image

No	Object/Control Name	Type	Required	Description
1	Edit	Button	Yes	Must be click to edit invoice

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2	“Thêm dịch vụ”	Button	Yes	Click to open pop-up create new invoice
3	“Hoàn thành”	Button	Yes	Click to finish add new invoice
4	“Loại dịch vụ”	Textbox	Yes	Type of service
5	“Tên dịch vụ”	Textbox	Yes	Name of service
6	“Ngày đăng ký”	Textbox	Yes	Registration Date
7	“Chi phí”	Textbox	Yes	Costs of invoice
8	“Nội dung”	Textbox	Yes	Content of invoice
9	“Đóng”	Button	Yes	Click to close pop-up add new invoice
10	“Thêm mới”	Button	Yes	Click to add new invoice

4.3.10.3.7.2.2. Sequence diagram

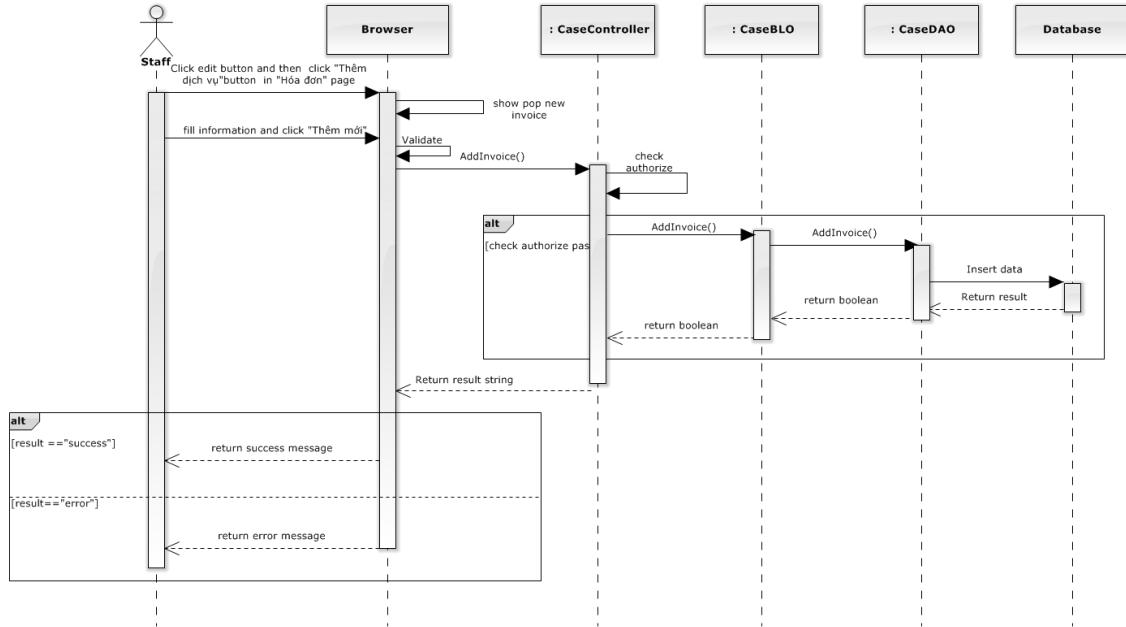


Figure 4-68: Add invoice sequence diagram

4.3.10.3.7.3. Update invoice

4.3.10.3.7.3.1. Screen design

The screenshot shows a web-based application interface for updating invoices. At the top, there is a header bar with the text "Email: nguyenhue@gmail.com". Below this is a green navigation bar with the text "Sửa Chi Phí". The main content area has a title "Sửa Chi Phí:" and a form for editing an invoice entry. The form fields include "Ngày Đăng Ký" (10/04/2014), "Chi Phí" (10.000.000 VND), and "Nội Dung" (thanh toán tiếp). There is also a note "(3)" next to a row in a table below the form. At the bottom of the form are two buttons: "Đóng" (button 1) and "Sửa Chi Phí" (button 2, highlighted with a red border). To the right of the form is a table listing three invoice entries. The first entry has a total of 10.000.000 VND. The second entry has a total of 400.000.111 VND. The third entry has a total of 12.121 VND. Each entry has a "Edit" icon (pencil) and a "Delete" icon (trash can) next to it. At the very bottom of the screen, there is a summary: "Tổng Chi Phí : 410.012.232 VND" and a "Hoàn Thành" button.

Figure 4-69: Update invoice image

No	Object/Control Name	Type	Required	Description
1	“Đóng”	Button	Yes	Click to close update invoice
2	“Sửa chi phí”	Button	Yes	Click to confirm update invoice
3	Edit	Icon	Yes	Click to show pop up update invoice

4.3.10.3.7.3.2. Sequence diagram

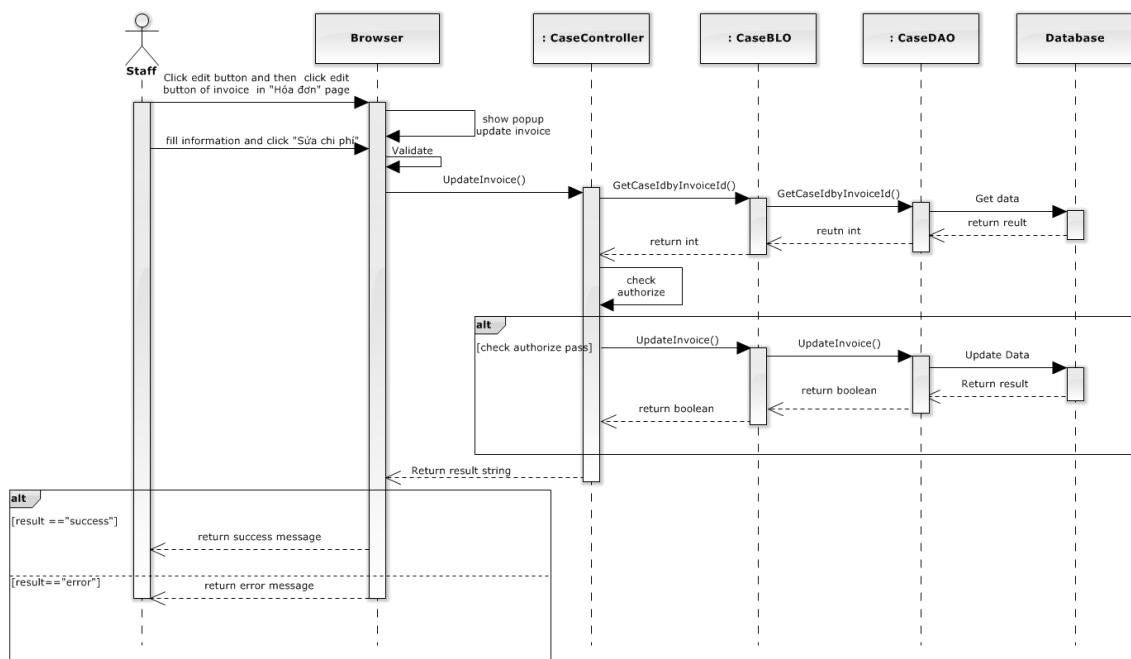


Figure 4-70: Update invoice sequence diagram

4.3.10.3.7.4. Delete invoice

4.3.10.3.7.4.1. Screen design

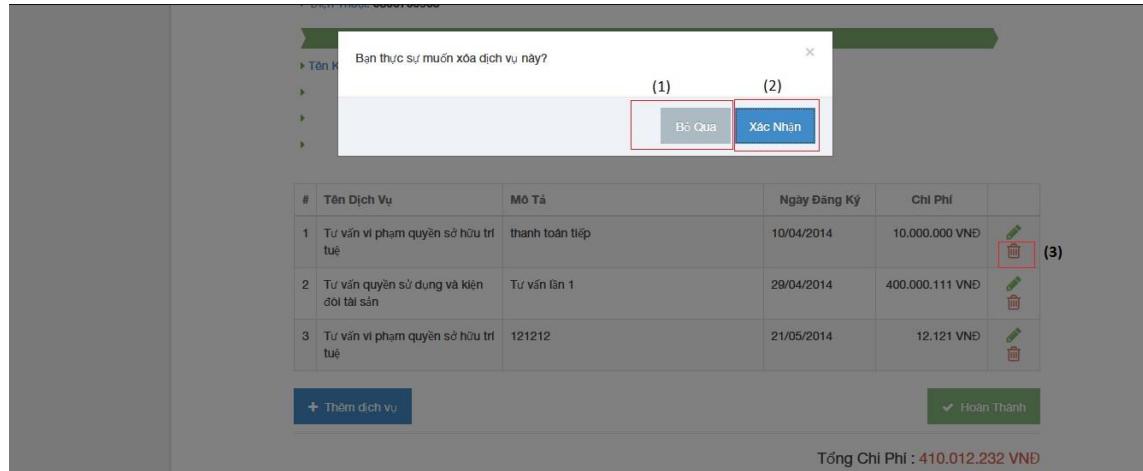


Figure 4-71: Delete invoice image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete invoice
2	“Xác nhận”	Button	Yes	Click to confirm delete invoice
3	Trash	Button	Yes	Click to show pop up delete invoice

4.3.10.3.7.4.2. Sequence diagram

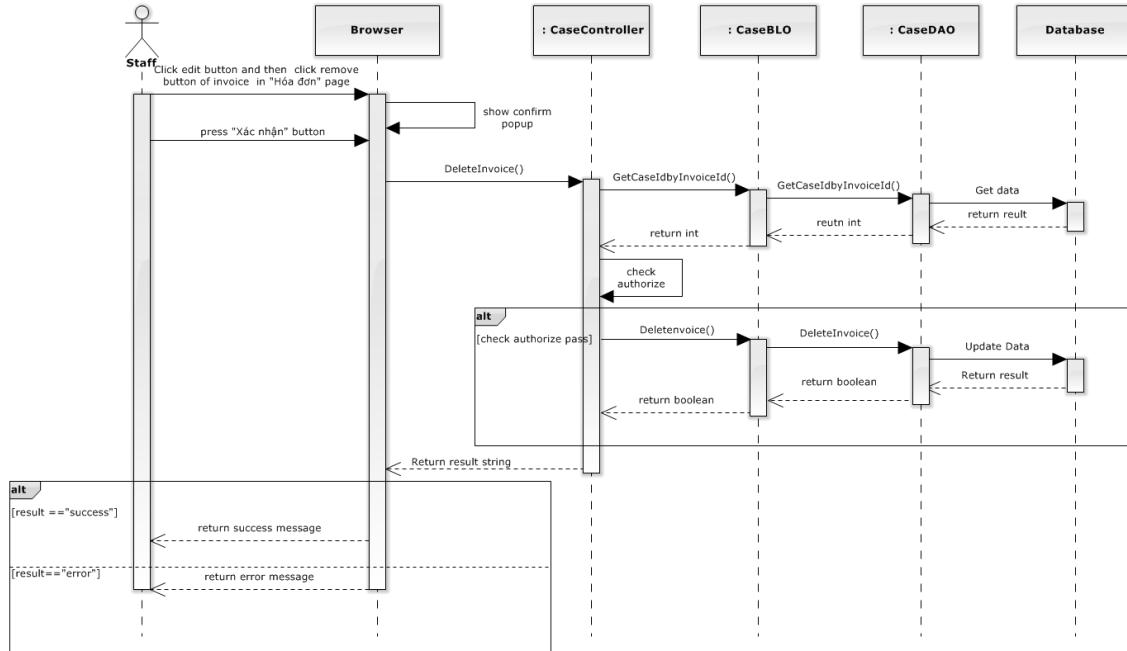


Figure 4-72: Delete invoice sequence diagram

4.3.10.3.8. Manage Payment

4.3.10.3.8.1. View payment

4.3.10.3.8.1.1. Screen design

#	Mô Tả	(1)	Ngày Thanh Toán	Số Tiền
01	demo9		09/09/2013	15.000.000 VND
11	demo8		01/01/2014	9.000.000 VND
21	Thanh toán tư vấn		29/04/2014	50.000.000 VND
31	demo10		05/05/2014	50.000.000 VND

Tổng Thanh Toán : 124.000.000 VND
Chưa Thanh Toán: 286.012.232 VND

Figure 4-73: View payment image

No	Object/Control Name	Type	Required	Description
1	List all payment information	Table	Yes	List all payment information
2	List total cost has paid and not has paid	Label	Yes	List total cost has paid and not has paid

4.3.10.3.8.1.2. Sequence diagram

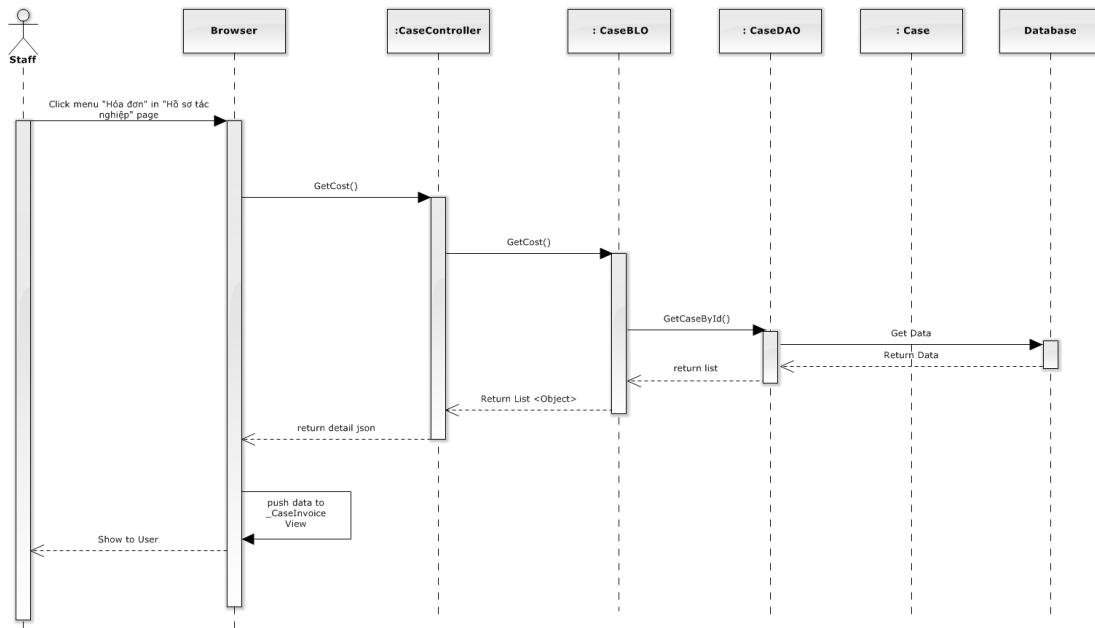


Figure 4-74: View payment sequence diagram

4.3.10.3.8.2. Add payment

4.3.10.3.8.2.1. Screen design

The screenshot shows a user interface for managing payments. At the top left is a logo with the number '1' and the text 'Hóa đơn thanh toán'. Below it is a table listing five existing payments with columns for ID, Description, Date, Amount, and edit/delete icons.

#	Mô Tả	Ngày Thanh Toán	Số Tiền
01	demo9	09/09/2013	15.000.000 VND
11	demo8	01/01/2014	9.000.000 VND
21	Thanh toán tư vấn	29/04/2014	50.000.000 VND
31	demo10	05/05/2014	50.000.000 VND

Below the table are two buttons: '(2) + Tạo thanh toán' on the left and '(3) ✓ Hoàn Thành' on the right. A summary at the bottom indicates a total payment of 124,000,000 VND and a balance of 286,012,232 VND.

The bottom section shows a modal dialog titled 'Tạo Thanh Toán' (Create Payment). It contains fields for 'Ngày Thanh Toán' (Date) with value '14/12/2014' (4), 'Số Tiền' (Amount) with placeholder '(5)', and a 'Nội Dung' (Content) field with placeholder '(6)'. At the bottom are two buttons: '(7) ✗ Đóng' (Close) and '(8) ✓ Tạo thanh toán' (Create payment).

Figure 4-75: Add payment image

No	Object/Control Name	Type	Required	Description
1	Edit	Button	Yes	Must be click to edit payment
2	“Tạo thanh toán”	Button	Yes	Click to open pop-up create new payment
3	“Hoàn thành”	Button	Yes	Click to finish add new payment

4	“Ngày thanh toán”	Textbox	Yes	Day of payment
5	“Số tiền”	Textbox	Yes	Amount of payment
6	“Nội dung”	Textbox	Yes	Content of payment
7	“Đóng”	Button	Yes	Click to close pop-up add new payment
8	“Thêm mới”	Button	Yes	Click to add new payment

4.3.10.3.8.2.2. Sequence diagram

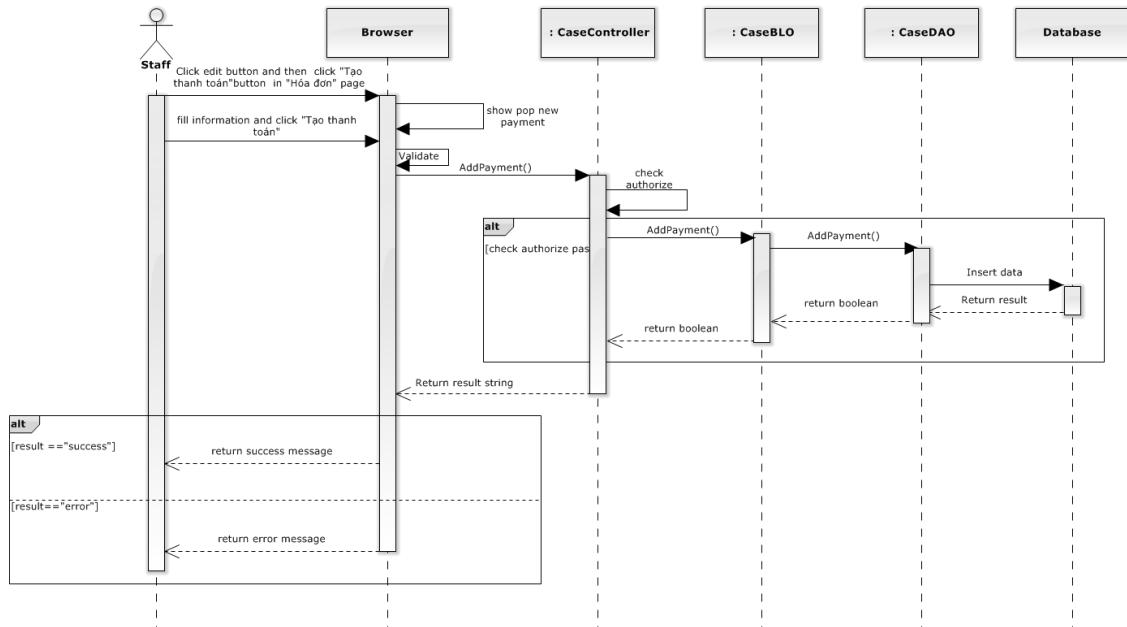


Figure 4-76: Add payment sequence diagram

4.3.10.3.8.3. Update payment

4.3.10.3.8.3.1. Screen design

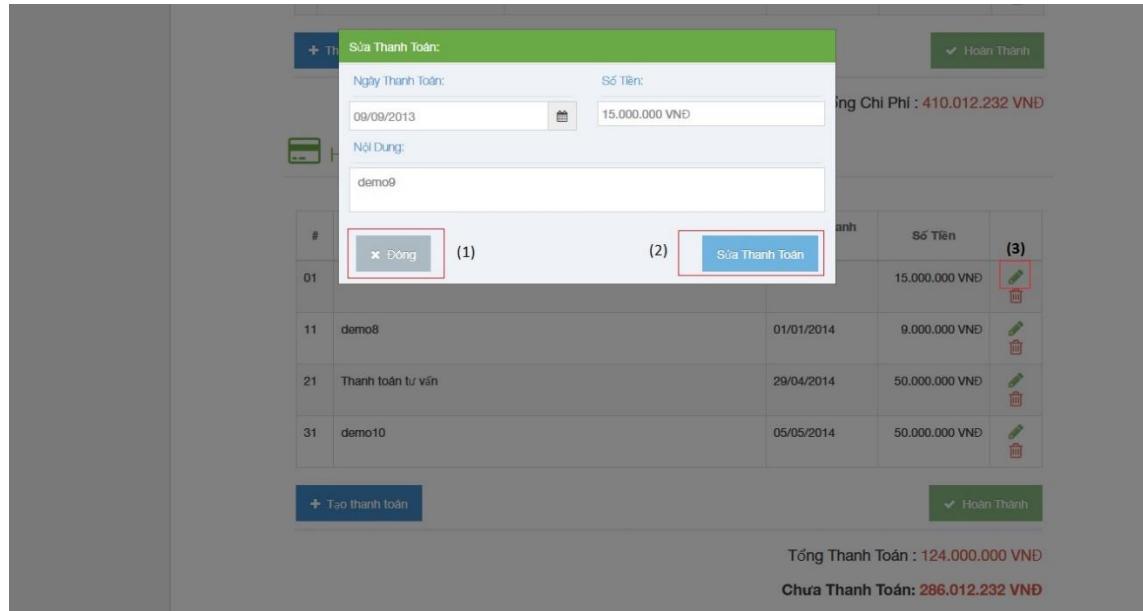


Figure 4-77: Update payment image

No	Object/Control Name	Type	Required	Description
1	“Đóng”	Button	Yes	Click to close update payment
2	“Sửa thanh toán”	Button	Yes	Click to confirm update payment
3	Edit	Icon	Yes	Click to show pop up update payment

4.3.10.3.8.3.2. Sequence diagram

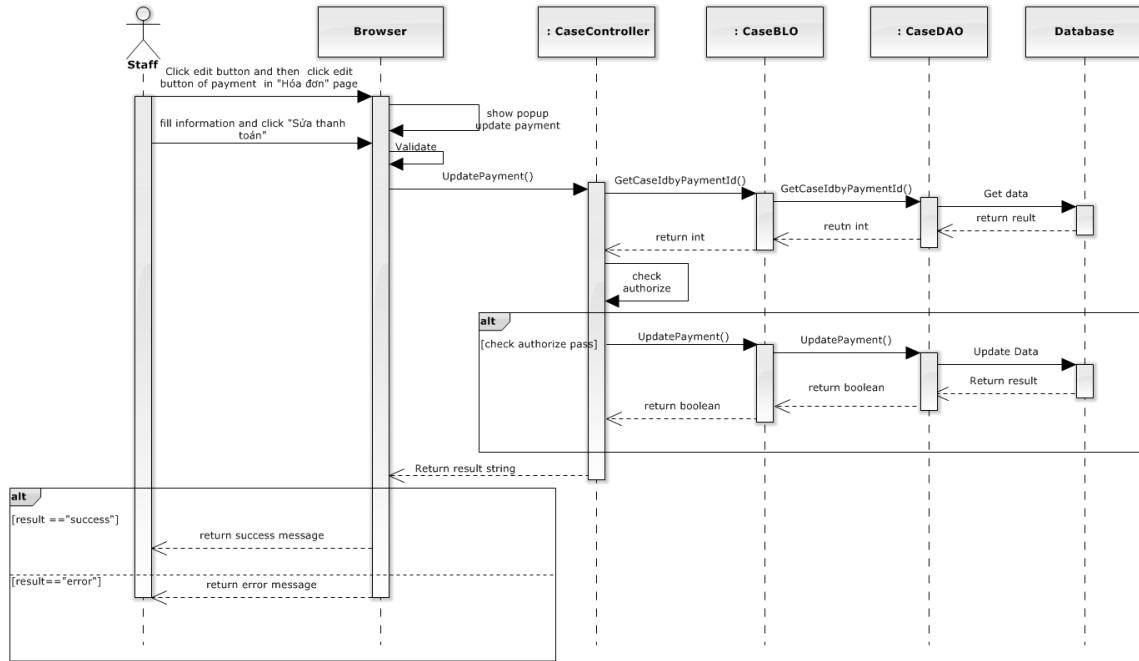


Figure 4-78: Update payment sequence diagram

4.3.10.3.8.4. Delete payment

4.3.10.3.8.4.1. Screen design

The screenshot shows a user interface for managing payments. At the top, there is a confirmation dialog box with the question "Bạn thực sự muốn xóa thanh toán này?". Below the dialog, a table lists several payment entries:

#	Mô Tả	Ngày Thanh Toán	Số Tiền	
01	demo9	09/09/2013	15.000.000 VNĐ	(3)
11	demo8	01/01/2014	9.000.000 VNĐ	
21	Thanh toán tư vấn	29/04/2014	50.000.000 VNĐ	
31	demo10	05/05/2014	50.000.000 VNĐ	

At the bottom of the screen, there are two buttons: '+ Tạo thanh toán' (Create payment) and 'Hoàn Thành' (Finish). Below the table, there are summary statistics: 'Tổng Thanh Toán : 124.000.000 VNĐ' and 'Chưa Thanh Toán: 286.012.232 VNĐ'.

Figure 4-79: Delete payment image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete payment
2	“Xác nhận”	Button	Yes	Click to confirm delete payment
3	Trash	Button	Yes	Click to show pop up delete payment

4.3.10.3.8.4.2. Sequence diagram

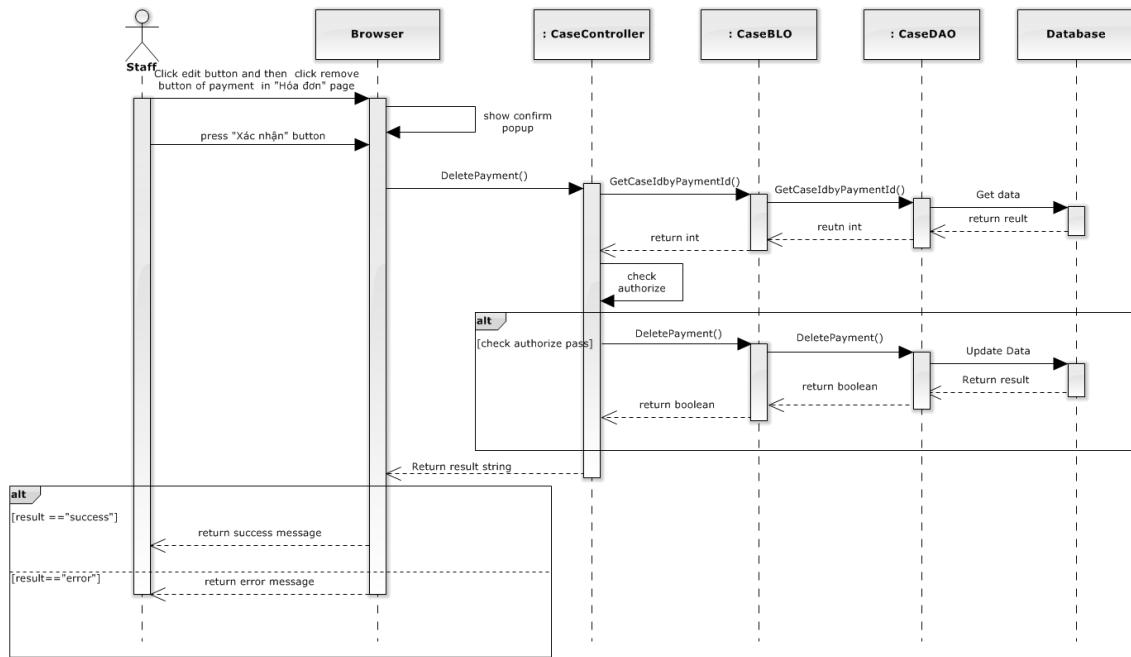


Figure 4-80: Delete payment sequence diagram

4.3.11. Manage Customer Group

4.3.11.1. List customer group

4.3.11.1.1. Class diagram

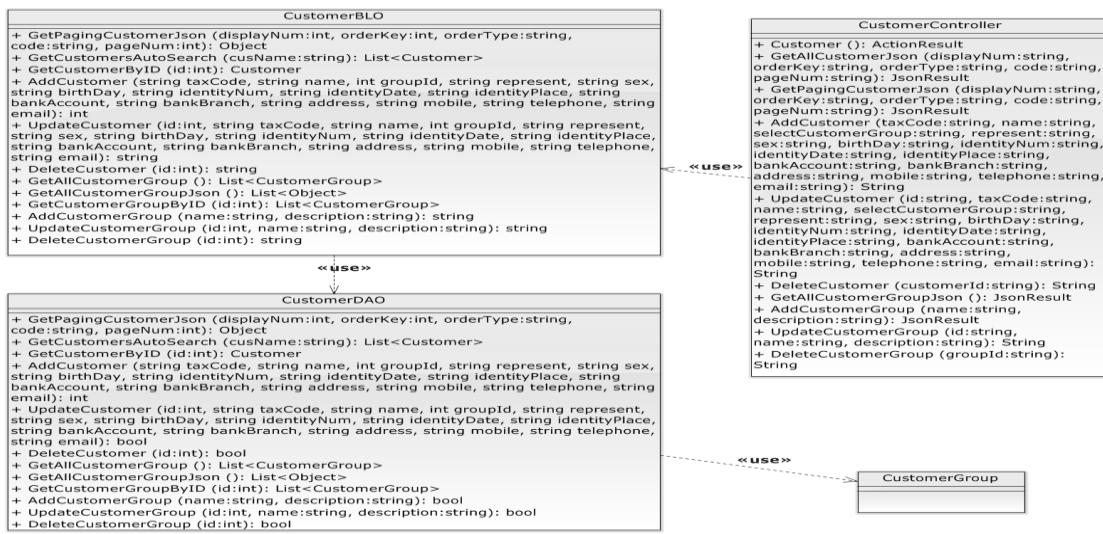


Figure 4-81: List customer group class diagram

4.3.11.1.2. Screen design

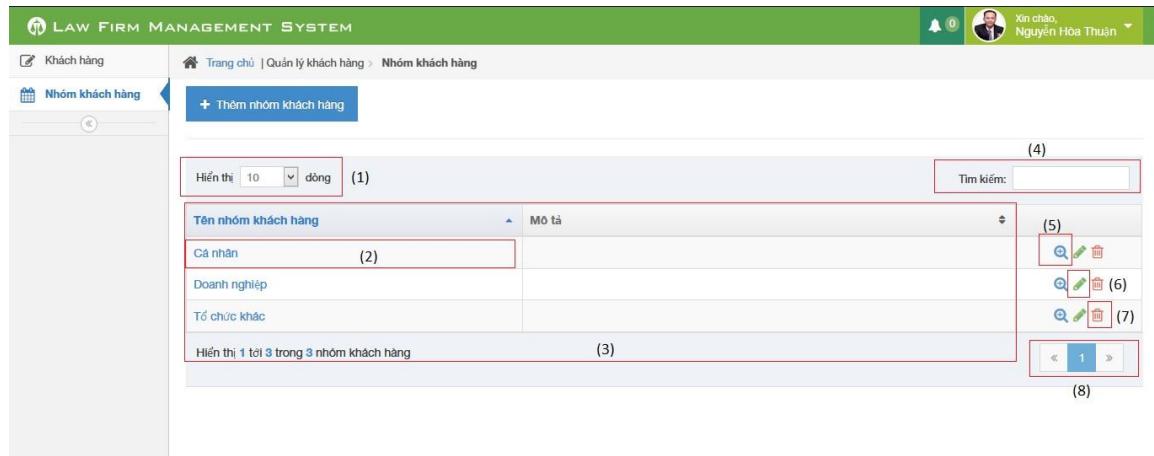


Figure 4-82: List customer group image

No	Object/Control	Type	Required	Description
	Name			

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1	Number of rows	Combo-box	Yes	Choose number of rows in table
2	Name customer group	Text	Yes	Show Customer group detail pop-up
3	Customer table	Table	Yes	List Customer group
4	Search	Textbox	Yes	Search customer group
5	View customer group detail	Icon	Yes	Show Customer group detail pop-up
6	Delete customer group	Icon	Yes	Delete customer group
7	Edit customer group	Icon	Yes	Show edit customer group pop-up
8	Paging	Button	Yes	Paging the customer group list

4.3.11.1.3. Sequence diagram

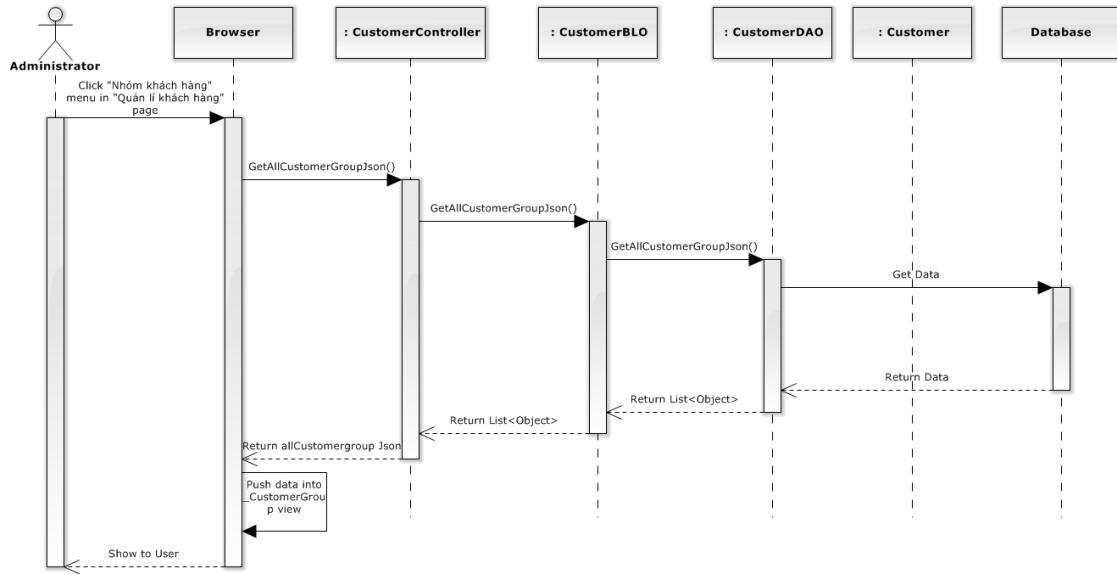


Figure 4-83: List customer group sequence diagram

4.3.11.2. Add customer group

4.3.11.2.1. Screen design

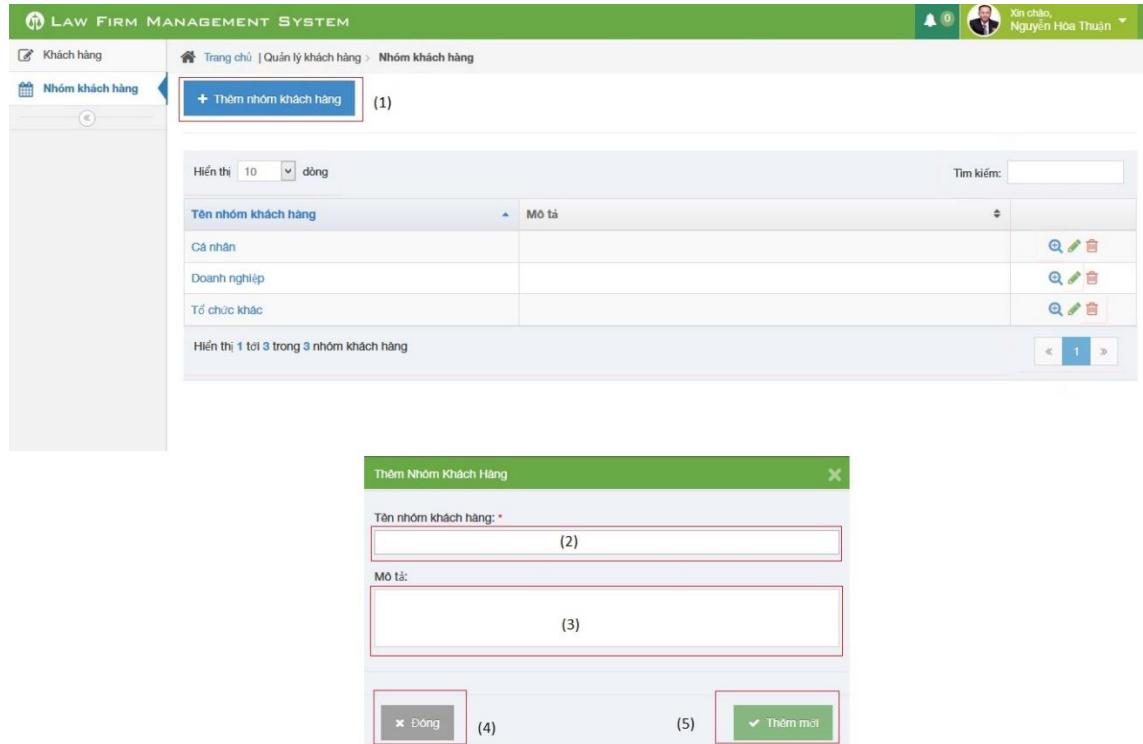


Figure 4-84: Add customer group image

No	Object/Control Name	Type	Required	Description
1	“Thêm nhóm khách hàng”	Button	Yes	Click to open pop-up create new customer group
2	“Tên nhóm khách hàng”	Textbox	Yes	Name of customer group

3	“Mô tả”	Textbox	Yes	Description of customer group
4	“Đóng”	Button	Yes	Click to close pop-up add new customer group
5	“Thêm mới”	Button	Yes	Click to add new customer group

4.3.11.2.2. Sequence diagram

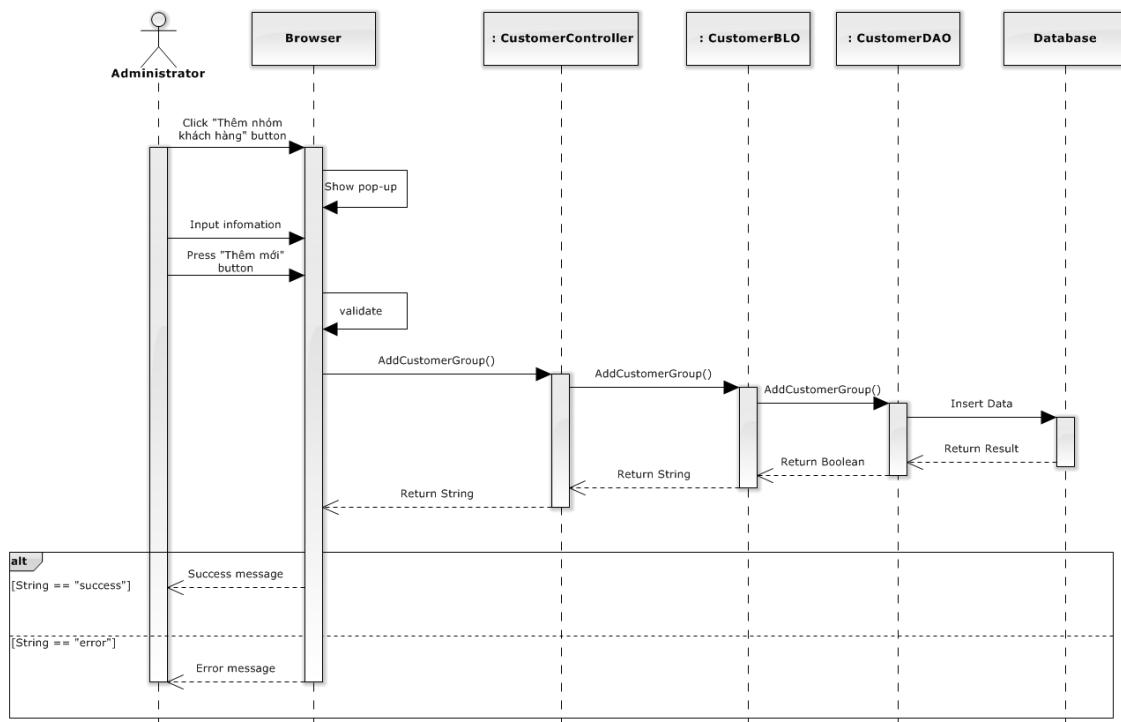


Figure 4-85: Add customer group sequence diagram

4.3.11.3. Edit customer group

4.3.11.3.1. Screen design

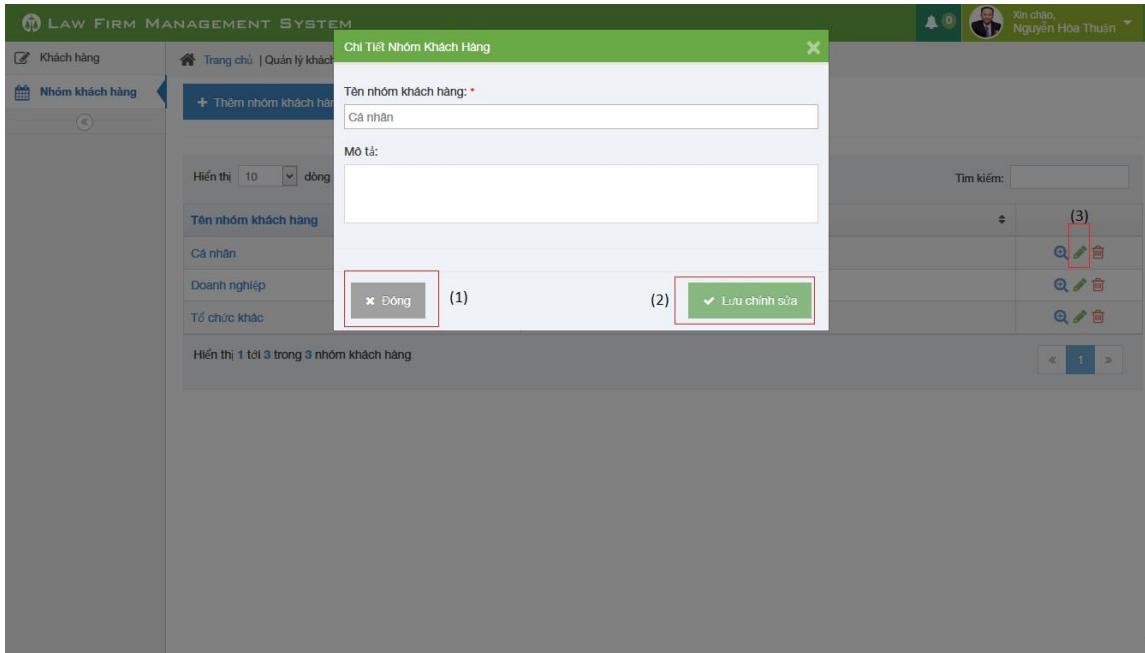


Figure 4-86: Edit customer group image

No	Object/Control Name	Type	Required	Description
1	“Đóng”	Button	Yes	Click to close update customer group
2	“Lưu chỉnh sửa”	Button	Yes	Click to confirm update customer group
3	Edit	Icon	Yes	Click to show pop up update customer group

4.3.11.3.2. Sequence diagram

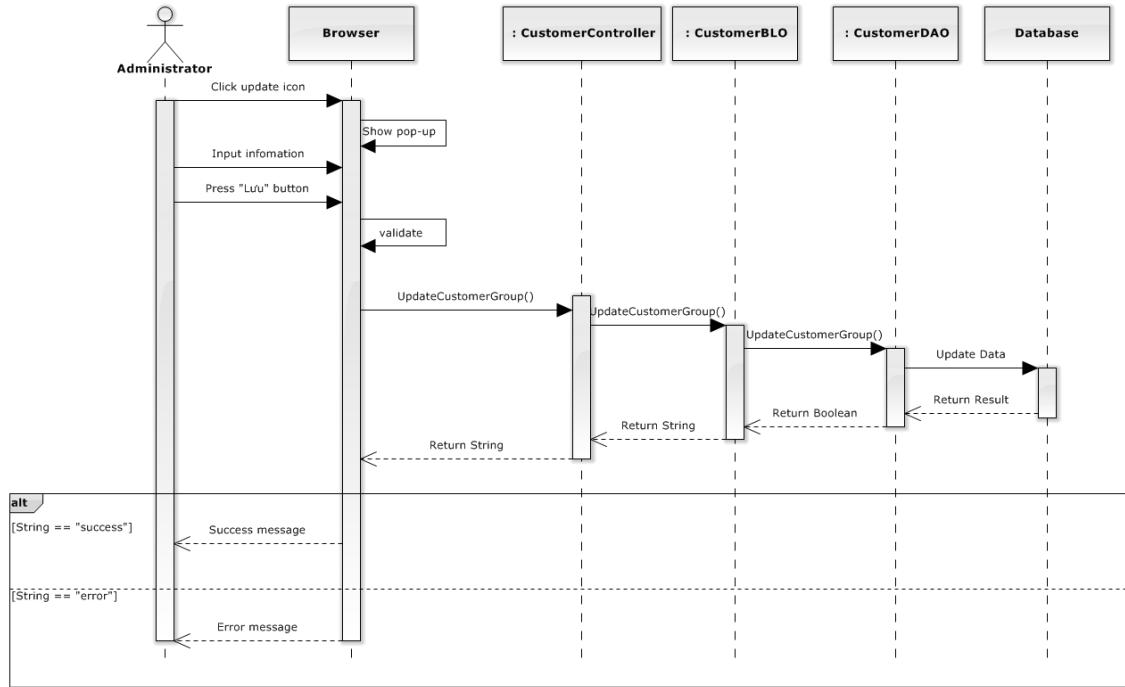


Figure 4-87: Edit customer group sequence diagram

4.3.11.4. Delete customer group

4.3.11.4.1. Screen design



Figure 4-88: Delete customer group image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete customer group
2	“Xác nhận”	Button	Yes	Click to confirm delete customer group
3	Trash	Button	Yes	Click to show pop up delete customer group

4.3.11.4.2. Sequence diagram

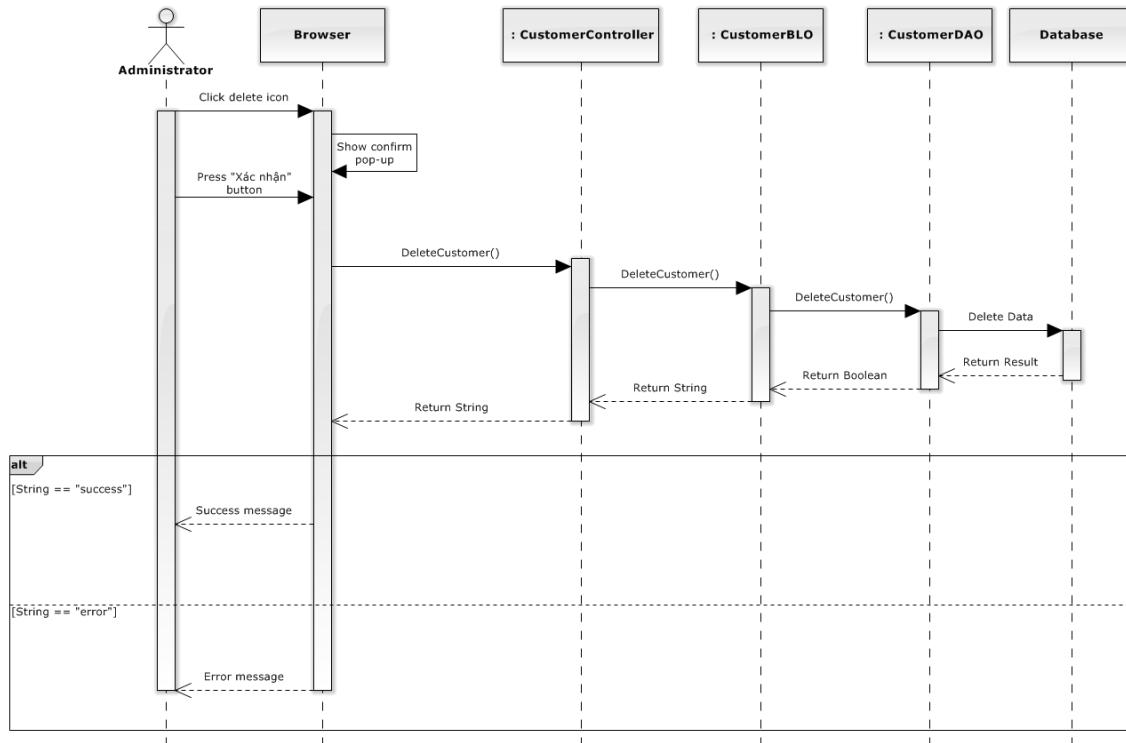


Figure 4-89: Delete customer group sequence diagram

4.3.12. Manage Customer

4.3.12.1. List customers

4.3.12.1.1. Class diagram

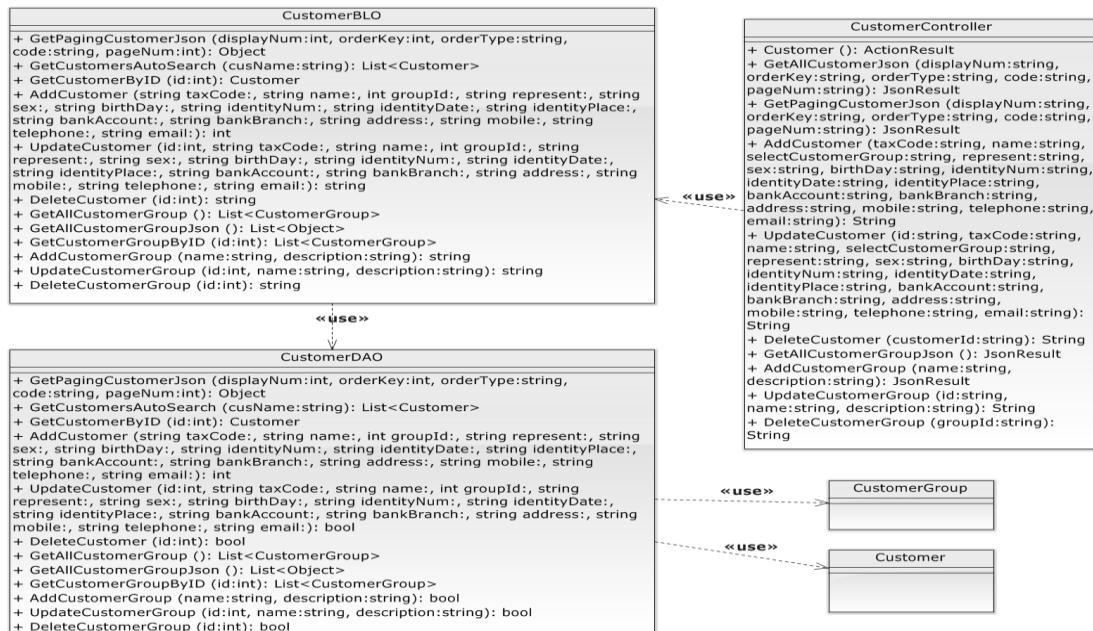


Figure 4-90: Manage customer class diagram

4.3.12.1.2. Screen design



Figure 4-91: List customer image

No	Object/Control Name	Type	Required	Description
1	Thêm khách hàng	Button	Yes	Show Add new customer pop-up
2	Number of rows	Combo-box	Yes	Choose number of rows in table
3	Search	Textbox	Yes	Search customer
4	Customer table	Table	Yes	List Customer
5	View customer detail	Icon	Yes	Show Customer detail pop-up
6	Delete customer	Icon	Yes	Delete customer
7	Edit customer	Icon	Yes	Show edit customer pop-up
8	Paging	Button	Yes	Paging the customer list

4.3.12.1.3. Sequence diagram

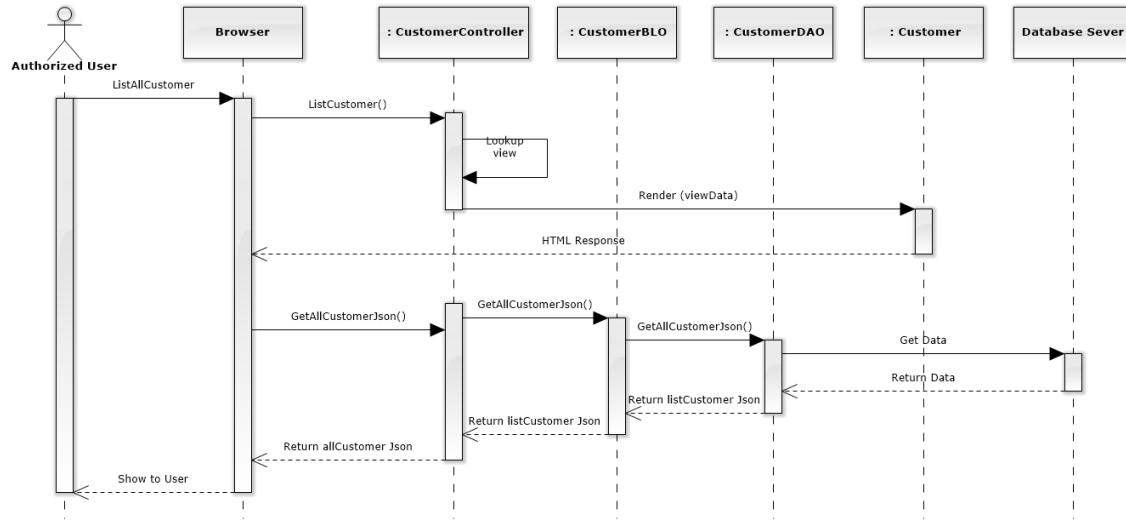


Figure 4-92: List Customers Sequence Diagram

4.3.12.2. Add new customer

4.3.12.2.1. Screen design

The screenshot shows a form titled 'Thêm Khách Hàng' (Add New Customer). The form contains the following fields:

- Tên khách hàng: * (1)
- Nhóm khách hàng: * (8)
- Người đại diện: * (2)
- Giới tính: (9) (radio buttons for Nam and Nữ)
- Ngày sinh: (3)
- Số CMND: (10)
- Ngày cấp CMND: (4)
- Nơi cấp CMND: (11)
- Số tài khoản: (5)
- Tên ngân hàng: (12)
- Mã số thuế: (6)
- Email: (13)
- Điện thoại di động: * (7)
- Điện thoại cố định: (14)
- Địa chỉ: * (15)

At the bottom left is a yellow button labeled 'Làm trống' (16). At the bottom right is a green button labeled 'Thêm mới' (17).

Figure 4-93: Add new customer image

No	Object/Control Name	Type	Required	Description
1	Tên Khách hàng	Textbox	Yes	Customer name
2	Người đại diện	Textbox	Yes	Presentative
3	Ngày sinh	Date picker	Yes	Date of Birth
4	Ngày cấp CMND	Date picker	Yes	Identity Date
5	Số tài khoản	Textbox	Yes	Bank account
6	Mã số thuế	Textbox	Yes	Tax code
7	Điện thoại di động	Textbox	Yes	Mobile
8	Nhóm khách hàng	Combo-box	Yes	Customer group
9	Giới tính	Radio-button	Yes	Gender
10	Số CMND	Textbox	Yes	Identity Number
11	Nơi cấp CMND	Textbox	Yes	Identity Place
12	Tên ngân hàng	Textbox	Yes	Bank Branch
13	Email	Textbox	Yes	Email
14	Điện thoại cố định	Textbox	Yes	Phone
15	Địa chỉ	Text area	Yes	Address

16	Làm trống	Button	Yes	Clear all field
17	Thêm mới	Button	Yes	Add new customer

4.3.12.2.2. Sequence diagram

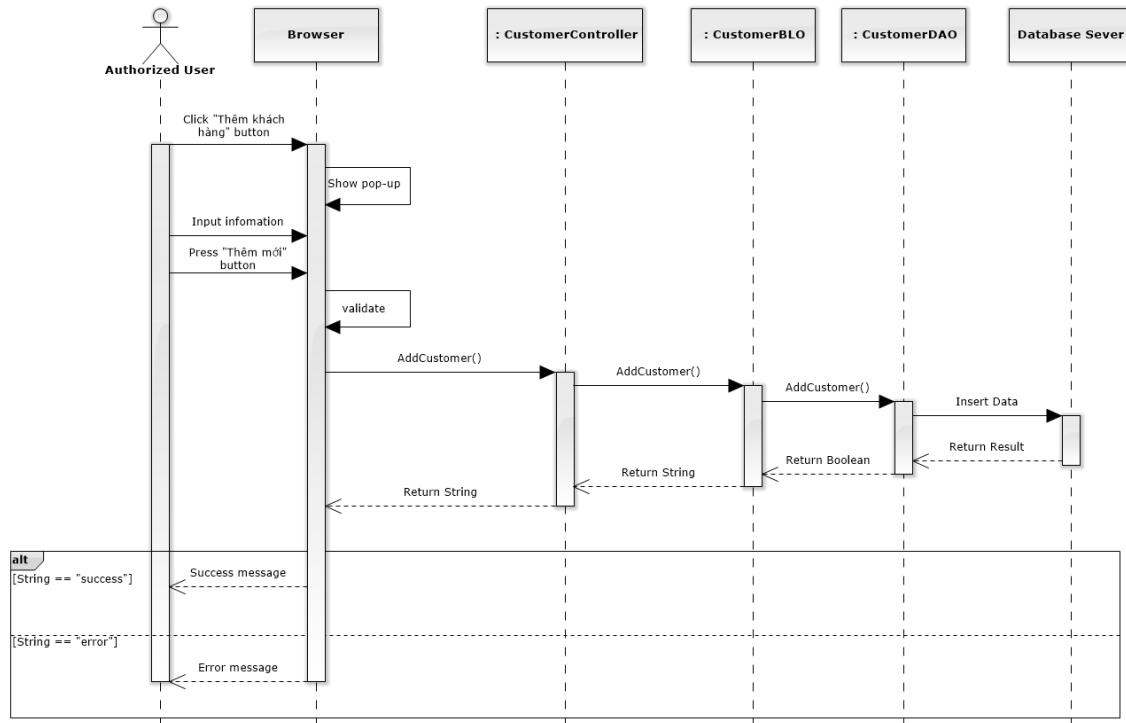


Figure 4-94: Add New Customer Sequence Diagram

4.3.12.3. Edit customer

4.3.12.3.1. Screen design

The screenshot shows a modal window titled "Chi Tiết Khách Hàng". It contains the following fields:

- Tên khách hàng: * (1) - Pham Thị Thanh
- Nhóm khách hàng: * (8) - Cá nhân
- Người đại diện: * (2) - Pham Thị Thanh
- Giới tính: (9) - Nữ (radio button selected)
- Ngày sinh: (3) - Date picker
- Số CMND: (10) - Textbox
- Ngày cấp CMND: (4) - Date picker
- Nơi cấp CMND: (11) - Textbox
- Số tài khoản: (5) - Textbox
- Tên ngân hàng: (12) - Textbox
- Mã số thuế: (6) - Textbox
- Email: (13) - Textbox
- Điện thoại di động: * (7) - Textbox (containing 0937367544)
- Điện thoại cố định: (14) - Textbox
- Địa chỉ: * (15) - Textarea (containing 111 C C/c Phạm Thế Hiển, P.4, Q.8)

At the bottom are two buttons: "x Đóng" (16) and "Lưu chỉnh sửa" (17) with a checkmark icon.

Figure 4-95: Edit customer image

No	Object/Control Name	Type	Required	Description
1	Tên Khách hàng	Textbox	Yes	Customer name
2	Người đại diện	Textbox	Yes	Presentative
3	Ngày sinh	Date picker	Yes	Date of Birth
4	Ngày cấp CMND	Date picker	Yes	Identity Date
5	Số tài khoản	Textbox	Yes	Bank account
6	Mã số thuế	Textbox	Yes	Tax code
7	Điện thoại di động	Textbox	Yes	Mobile

8	Nhóm khách hàng	Combo-box	Yes	Customer group
9	Giới tính	Radio-button	Yes	Gender
10	Số CMND	Textbox	Yes	Identity Number
11	Nơi cấp CMND	Textbox	Yes	Identity Place
12	Tên ngân hàng	Textbox	Yes	Bank Branch
13	Email	Textbox	Yes	Email
14	Điện thoại cố định	Textbox	Yes	Phone
15	Địa chỉ	Text area	Yes	Address
16	Đóng	Button	Yes	Close edit customer
17	Lưu chỉnh sửa	Button	Yes	Edit customer

4.3.12.3.2. Sequence diagram

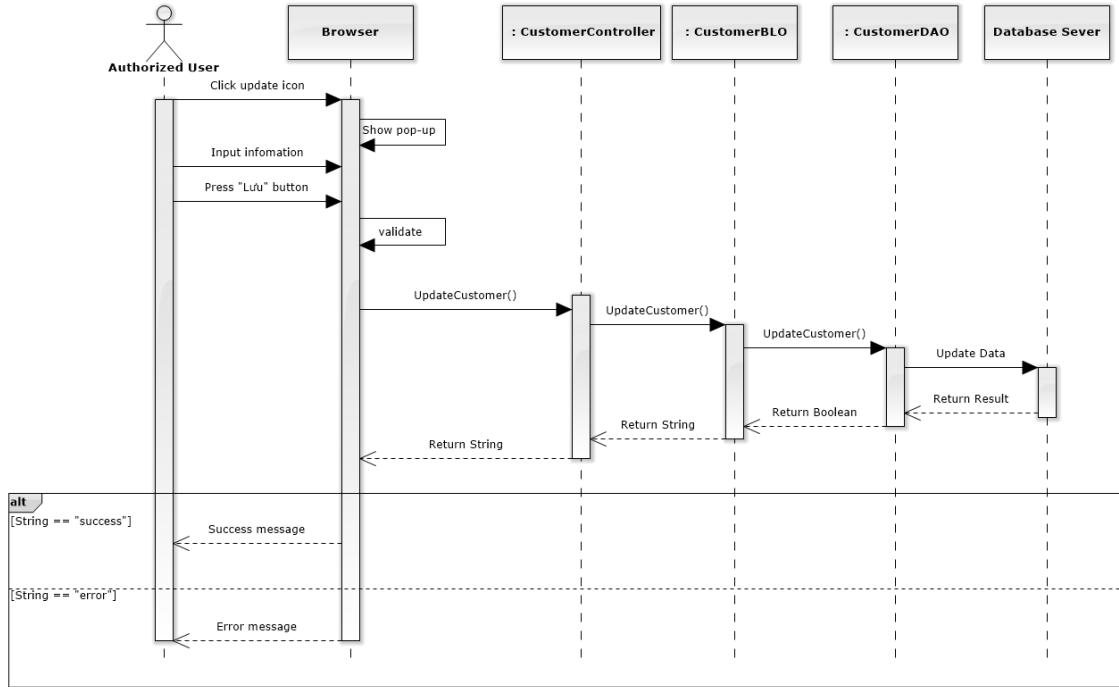


Figure 4-96: Edit Customer Sequence Diagram

4.3.12.4. Delete customer

4.3.12.4.1. Screen design

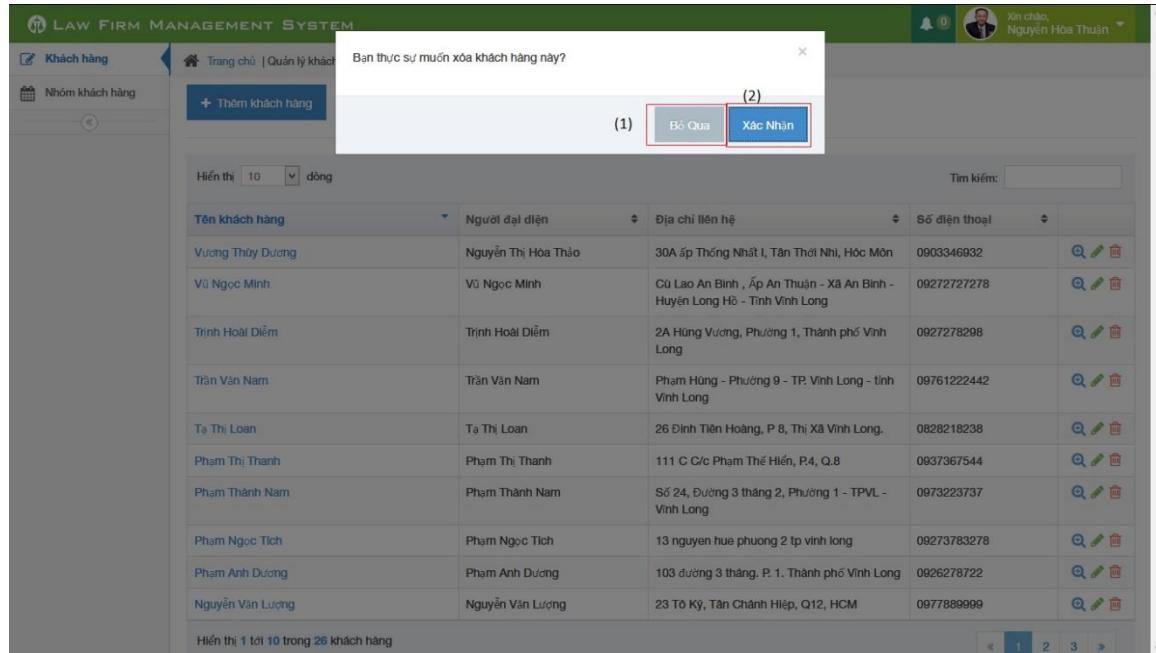


Figure 4-97: Delete customer image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete customer
2	“Xác nhận”	Button	Yes	Click to delete customer

4.3.12.4.2. Sequence diagram

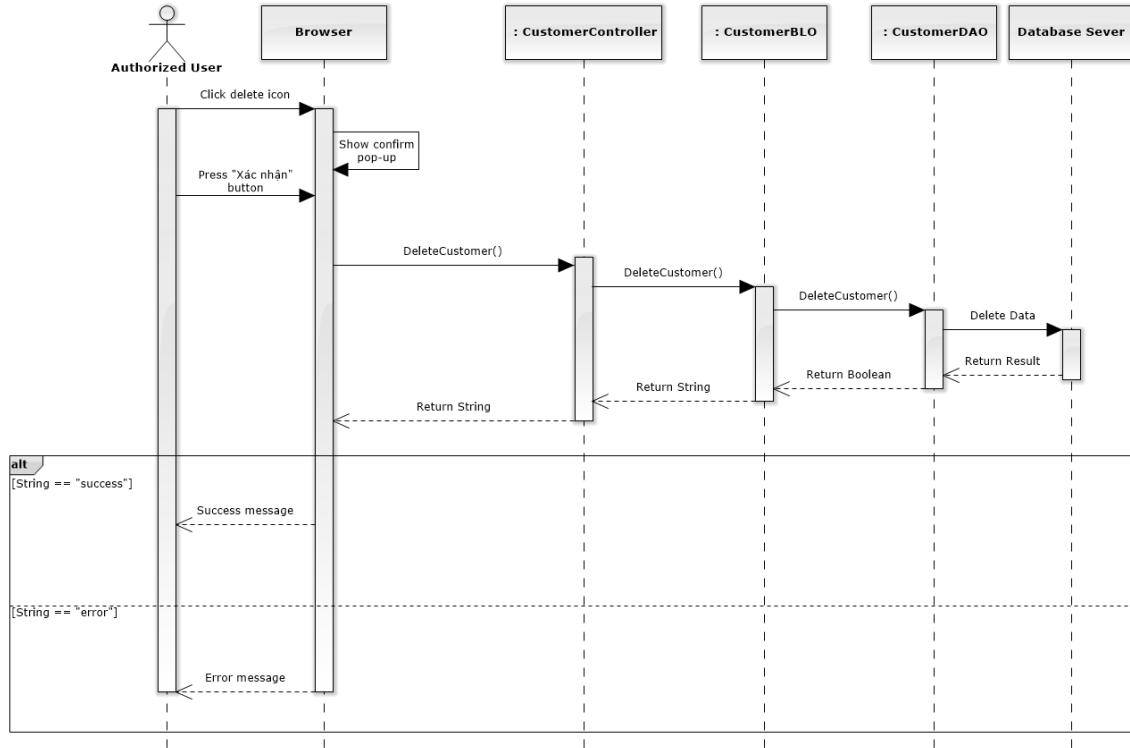


Figure 4-98: Delete Customer Sequence Diagram

4.3.13. Manage Staff Group

4.3.13.1. List staff group

4.3.13.1.1. Class diagram

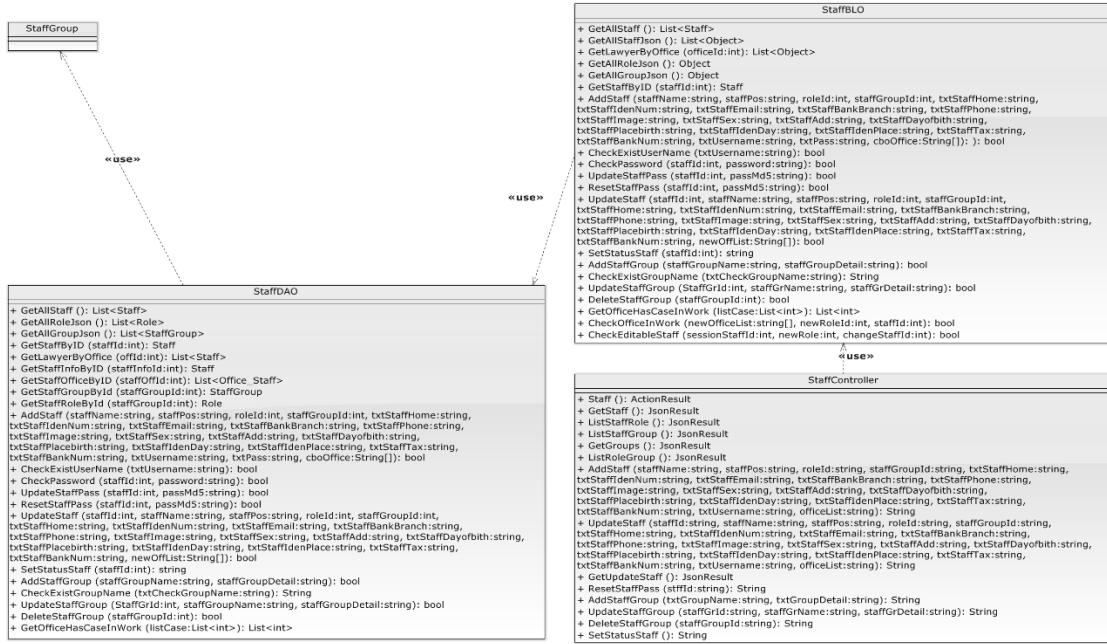


Figure 4-99: Manage staff group class diagram

4.3.13.1.2. Screen design

The screenshot shows a web-based application for managing staff groups. At the top, there's a green header bar with the system name 'LAW FIRM MANAGEMENT SYSTEM'. On the right side of the header, there's a user profile icon and a greeting message 'Xin chào, Nguyễn Hòa Thuận'.

The main content area has a light gray background. On the left, there's a sidebar with navigation links: 'Nhân viên' and 'Nhóm nhân viên'. Below the sidebar is a search bar with the placeholder 'Tìm kiếm:'.

The central part of the screen contains a table with the following data:

Tên nhóm	Chi tiết nhóm	Lương cơ bản(VND)
Công tác viên (2)	Công tác viên	3.000.000 VND
Luật sư hợp đồng	Luật sư hợp đồng	20.000.000 VND
Luật sư thử việc	Luật sư thử việc	6.000.000 VND
Luật sư tập sự	Luật sư tập sự	4.500.000 VND
Nhân viên hợp đồng	Nhân viên hợp đồng	7.000.000 VND
Nhân viên thử việc	Nhân viên thử việc	4.000.000 VND
Nhân viên tập sự	Nhân viên tập sự	4.500.000 VND
Quản lý	Luật sư quản lý các văn phòng	50.000.000 VND

Below the table, there's a message 'Hiển thị 1 đến 8 trong 8 dòng' and a page navigation bar with a blue '1' button and arrows.

Annotations with labels (1) through (8) highlight specific UI elements:

- (1) The search bar placeholder 'Tìm kiếm:'.
- (2) The first row of the table, which is highlighted with a red box.
- (3) The footer message 'Hiển thị 1 đến 8 trong 8 dòng'.
- (4) The top right corner of the search bar area.
- (5) A vertical column of icons for each row, including magnifying glass, edit, and delete symbols.
- (6) The second icon in the vertical column for the second row.
- (7) The third icon in the vertical column for the third row.
- (8) The page navigation bar at the bottom right.

Figure 4-100: List staff group image

No	Object/Control Name	Type	Required	Description
1	Number of rows	Combo-box	Yes	Choose number of rows in table
2	Name staff group	Text	Yes	Click to show popup detail of staff group
3	List all staff	Table	Yes	List all staff
4	Tìm kiếm	Textbox	Yes	Search staff
5	View	Button	Yes	Click to show popup detail of staff

6	Edit	Button	Yes	Click to show popup edit detail of staff information.
7	Delete staff group	Icon	Yes	Delete staff group
8	Paging	Button	Yes	Paging page

4.3.13.1.3. Sequence diagram

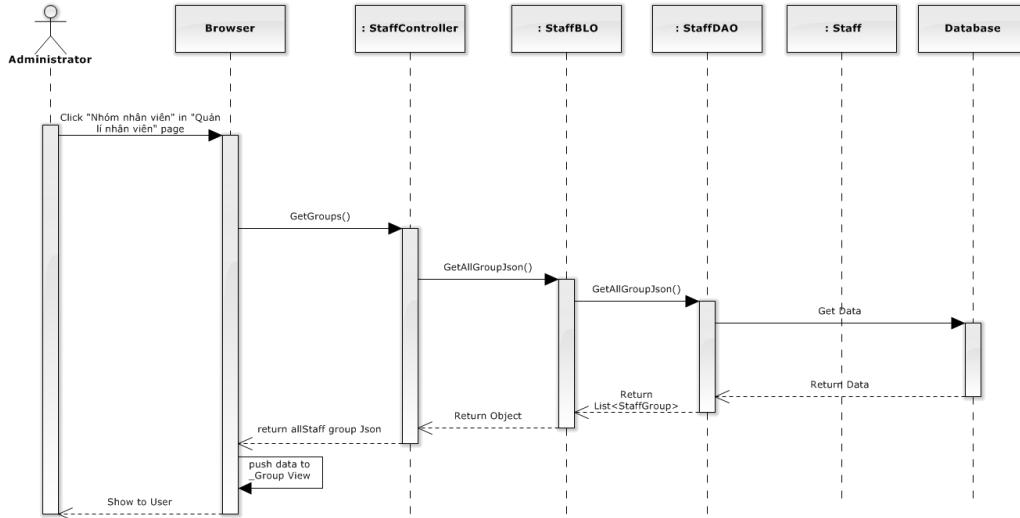


Figure 4-101: List staff group sequence diagram

4.3.13.2. Add staff group

4.3.13.2.1. Screen design

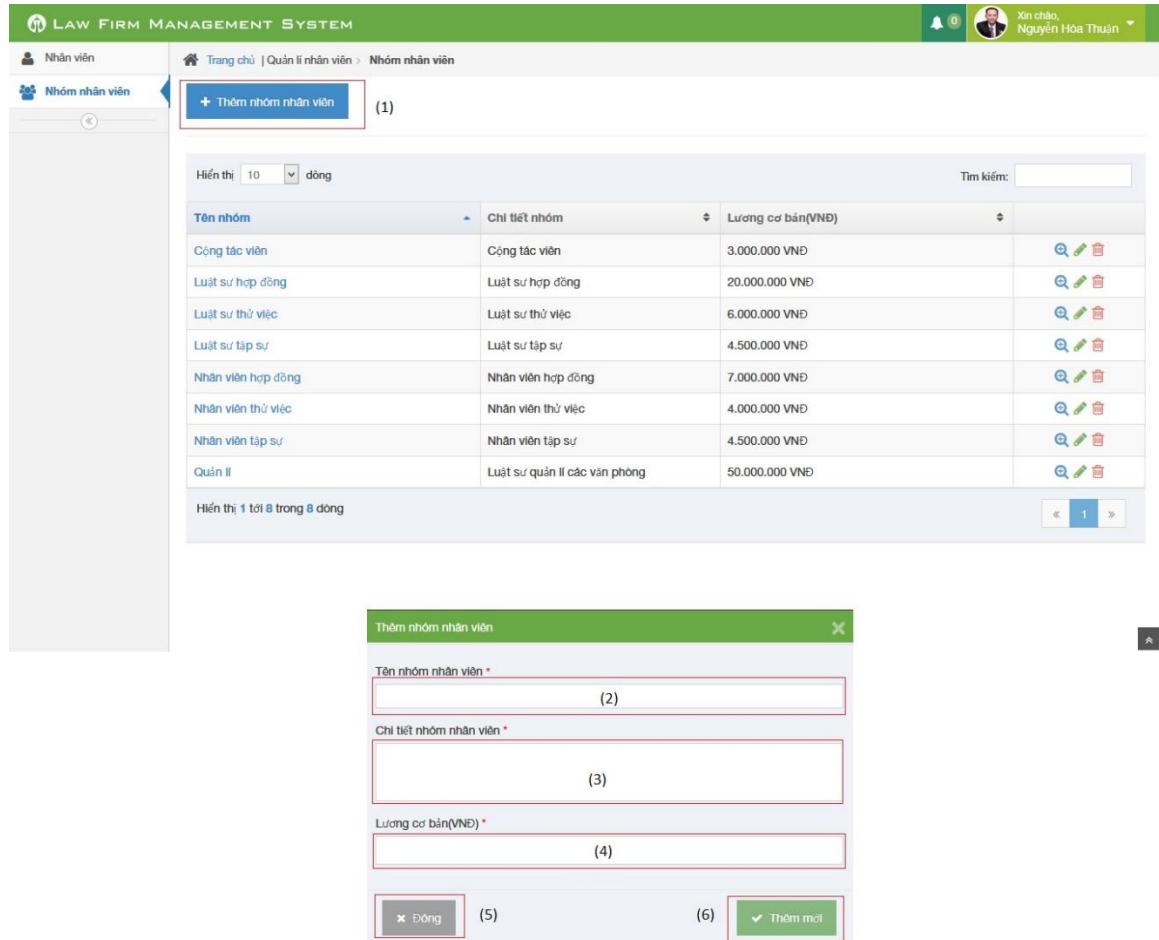


Figure 4-102: Add staff group image

No	Object/Control Name	Type	Required	Description
1	“Thêm nhóm nhân viên”	Button	Yes	Click to open pop-up create new staff group

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2	“Tên nhóm nhân viên”	Textbox	Yes	Name of staff group
3	“Chi tiết nhóm nhân viên”	Textbox	Yes	Detail of staff group
4	“Lương cơ bản”	Textbox	Yes	Basic salary of staff group
5	“Đóng”	Button	Yes	Click to close pop-up add new staff group
6	“Thêm mới”	Button	Yes	Click to add new staff group

4.3.13.2.2. Sequence diagram

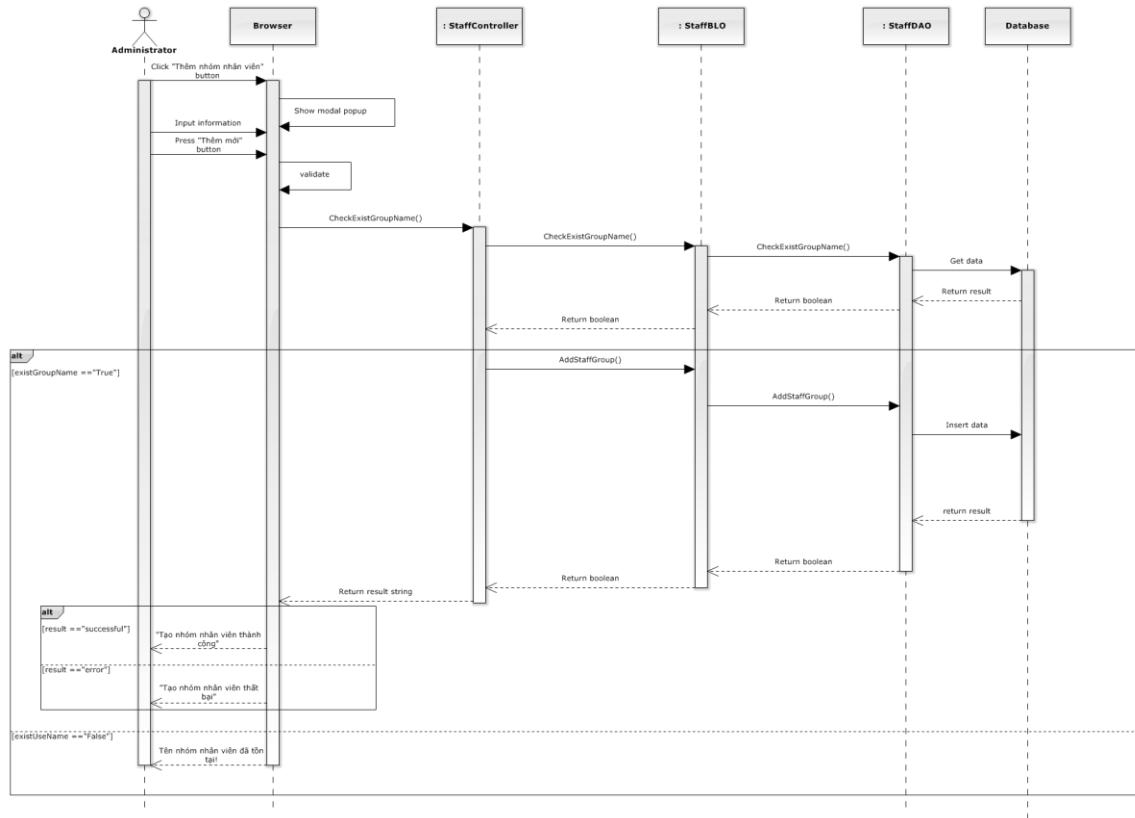


Figure 4-103: Add staff group sequence diagram

4.3.13.3. Edit staff group

4.3.13.3.1. Screen design

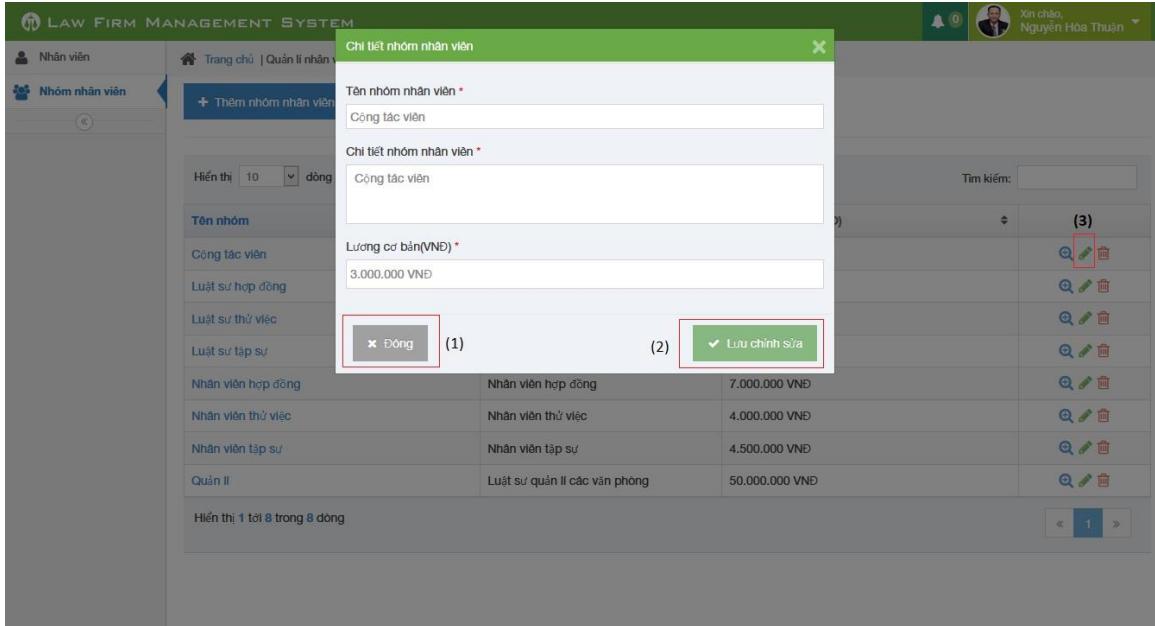


Figure 4-104: Edit staff group image

No	Object/Control Name	Type	Required	Description
1	“Đóng”	Button	Yes	Click to close update staff group
2	“Lưu chỉnh sửa”	Button	Yes	Click to confirm update staff group
3	Edit	Icon	Yes	Click to show pop up update staff group

4.3.13.3.2. Sequence diagram

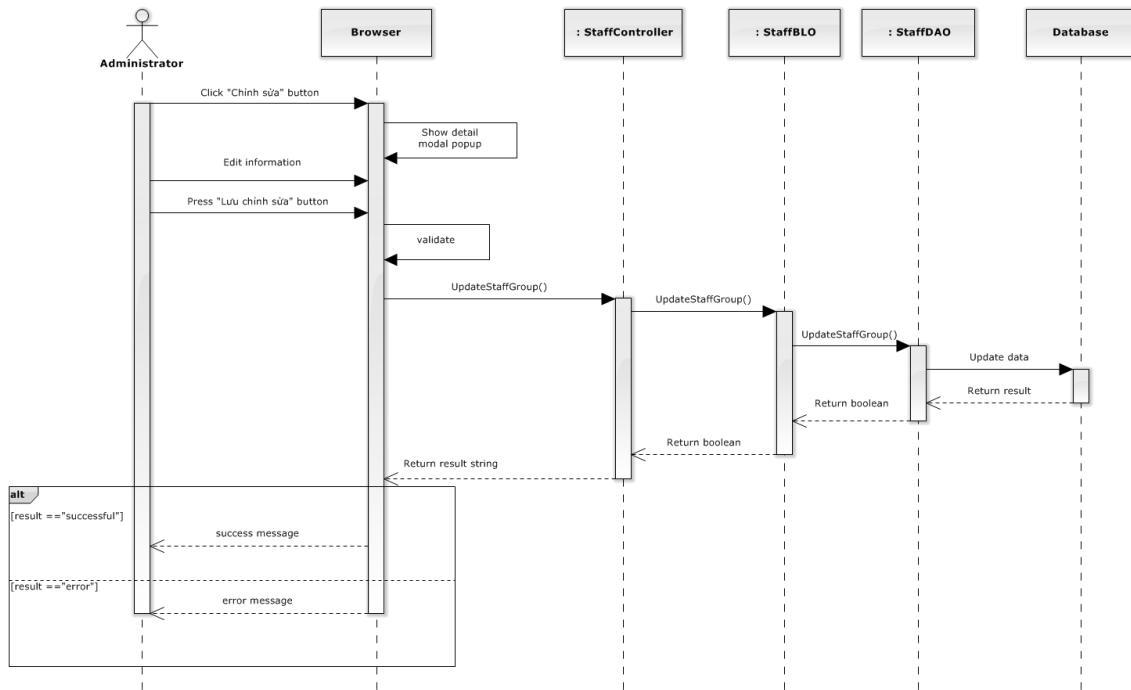


Figure 4-105: Edit staff group sequence diagram

4.3.13.4. Delete staff group

4.3.13.4.1. Screen design

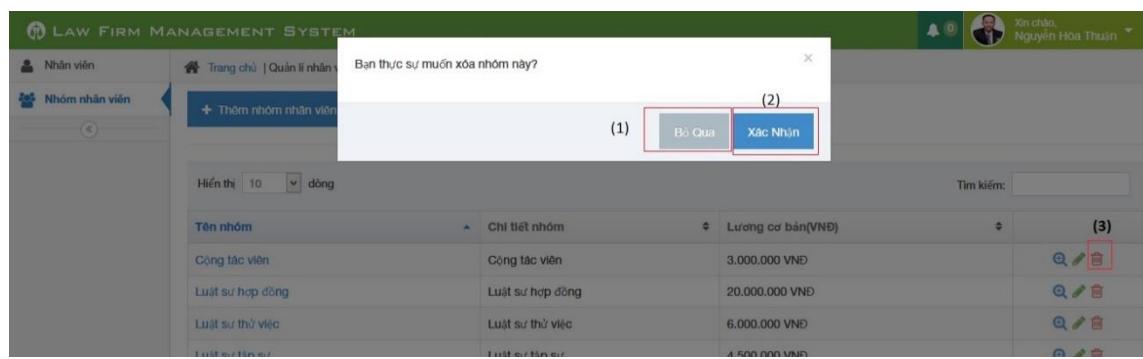


Figure 4-106: Delete staff group image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete staff group
2	“Xác nhận”	Button	Yes	Click to confirm delete staff group
3	Trash	Button	Yes	Click to show pop up delete staff group

4.3.13.4.2. Sequence diagram

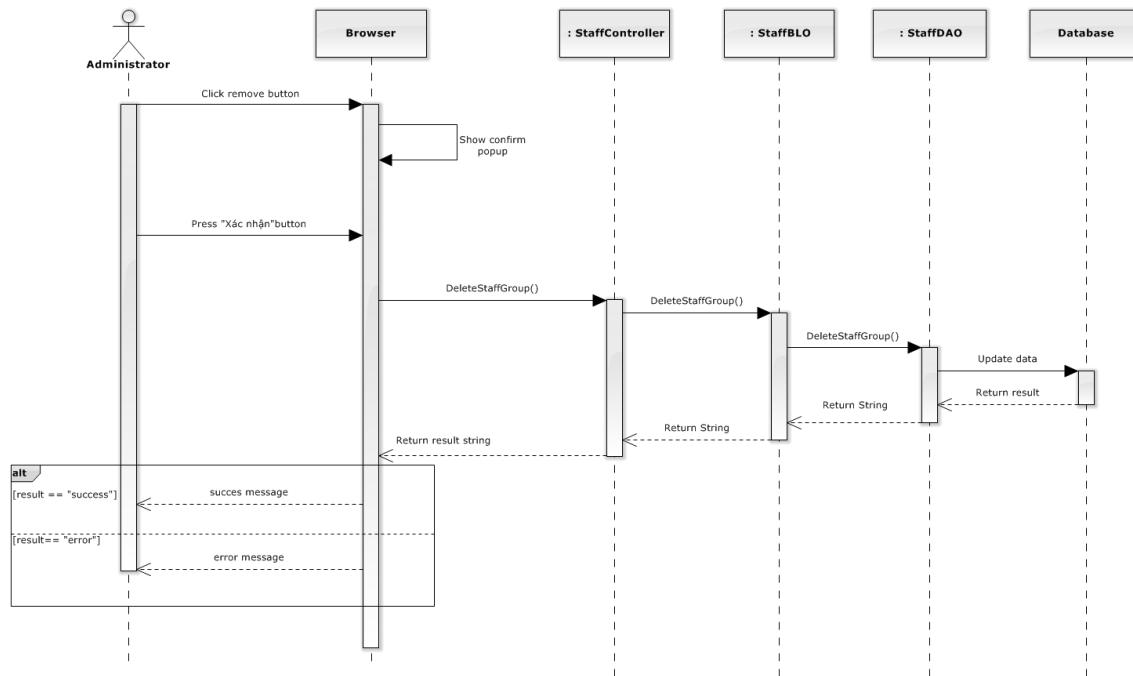


Figure 4-107: Delete staff group sequence diagram

4.3.14. Manage Staff

4.3.14.1. List staffs

4.3.14.1.1. Class diagram

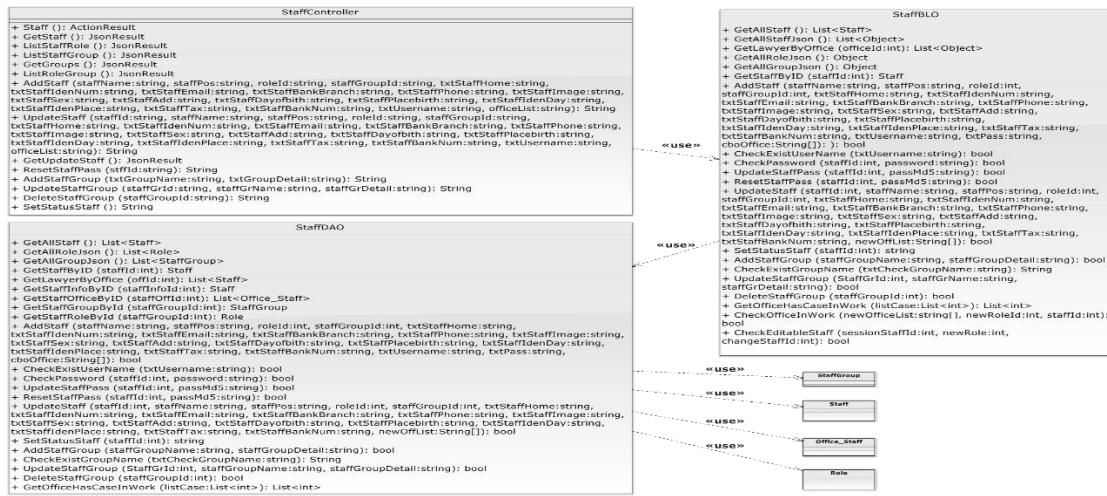


Figure 4-108: Manage staff class diagram

4.3.14.1.2. Screen design

The screenshot shows a web-based application interface for managing staff. At the top, there's a navigation bar with links for 'Trang chủ', 'Quản lý nhân viên', and 'Danh sách nhân viên'. Below this is a search bar with placeholder text 'Tìm kiếm: nguyễn thành' and a dropdown for selecting the number of items per page (10). The main content area displays a table of staff members:

Tên nhân viên	Chức vụ	Địa chỉ liên hệ	Điện thoại	Vai trò	Trạng thái
(3) Nguyễn Hòa Thuận	Trưởng văn phòng	58 Mẫu Thủ, khóm 1, phường 3, thành phố Vĩnh Long	0988816668	Admin	Đang hoạt động
(4) Nguyễn Huỳnh Kim Ngân	Nhân viên chăm sóc khách hàng	Số 2/7A đường Mẫu Thủ, khóm 1, phường 3, thành phố Vĩnh Long	0974332467	Admin	Đang hoạt động
(5) Nguyễn Thành Tin	Thành viên hợp danh	Số 24, Đường 3 tháng 2, Phường 1 - TPVL	0978224446	Viewer	Đang hoạt động

At the bottom of the table, there's a message: 'Hiển thị 1 tới 3 trong 10 dòng (Lọc trong 10 dòng)'. To the right of the table, there are four icons labeled (6), (7), (8), which likely represent different actions or filters. The entire interface has a clean, modern design with a light gray background and blue accents.

Figure 4-109: View staff image

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No	Object/Control Name	Type	Required	Description
1	Thêm nhân viên	Button	Yes	Click to show popup for add new staff
2	Number of rows	Combo-box	Yes	Choose number of rows in table
3	Image of staff	Image	Yes	Click to show popup detail of staff
4	List all staff	Table	Yes	List all staff
5	Tìm kiếm	Textbox	Yes	Search staff
6	View	Button	Yes	Click to show popup detail of staff
7	Edit	Button	Yes	Click to show popup edit detail of staff information.
8	Paging	Button	Yes	Paging page

4.3.14.1.3. Sequence diagram

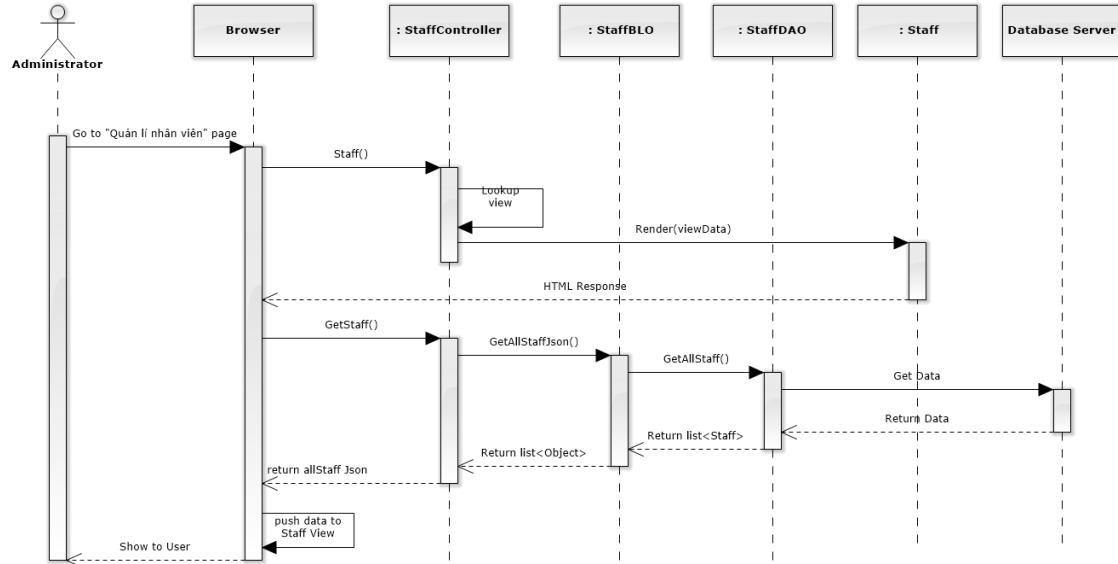


Figure 4-110: List Staffs Sequence Diagram

4.3.14.2. Add new staff

4.3.14.2.1. Screen design

The screenshot shows a modal window titled "Thêm nhân viên". On the left, there is a placeholder for a staff profile image labeled "(23)". The form contains the following fields:

- Tên nhân viên ***: Textbox (1)
- Tên đăng nhập ***: Textbox (2)
- Chức vụ**: Textbox (3)
- Giới tính:** (radio buttons) Nam (4), Nữ
- Số người phụ thuộc:** Textbox (5)
- Nhóm nhân viên ***: Dropdown (6)
- Ngày sinh ***: Date input (7)
- Vai trò nhân viên ***: Dropdown (14)
- CMND ***: Textbox (15)
- Địa chỉ liên hệ ***: Textbox (12)
- Điện thoại di động ***: Textbox (9)
- Điện thoại nhà riêng**: Textbox (10)
- Email ***: Textbox (11)
- Ngày Cấp CMND ***: Date input (16)
- Nơi cấp CMND ***: Textbox (17)
- Mã số thuế**: Textbox (18)
- Số tài khoản**: Textbox (19)
- Chi nhánh NH**: Textbox (20)
- Thuộc văn phòng ***: Textbox (13) with a search bar "Tim Kiếm ..."
- Làm trống**: Button (21)
- Thêm mới**: Button (22) with a checkmark icon

Figure 4-111: Add new staff image

No	Object/Control Name	Type	Required	Description
1	Tên nhân viên	Textbox	Yes	Name of staff
2	Tên đăng nhập	Textbox	Yes	Username of staff
3	Chức vụ	Textbox	Yes	Position of staff

4	Giới tính	Radio button	Yes	Choose sex of staff
5	Số người phụ thuộc	Textbox	Yes	Number of dependents
6	Nhóm nhân viên	Textbox	Yes	Select group of staff
7	Ngày sinh	Datetime picker	Yes	Date of birth of staff
8	Nơi sinh	Textbox	Yes	Place of birth of staff
9	Điện thoại di động	Textbox	Yes	Phone number of staff
10	Điện thoại nhà riêng	Textbox	Yes	Telephone of staff
11	Email	Textbox	Yes	Email of staff
12	Địa chỉ liên hệ	Textbox	Yes	Address of staff
13	Thuộc văn phòng	Multiple select box	Yes	Select office of staff
14	Vai trò nhân viên	Select box	Yes	Select role of staff
15	CMND	Textbox	Yes	Identity number of staff
16	Ngày cấp CMND	Datetime picker	Yes	Date of Identity of staff
17	Nơi cấp CMND	Textbox	Yes	Place of Identity of staff

18	Mã số thuế	Textbox	Yes	Tax number of staff
19	Số tài khoản	Textbox	Yes	Bank account number of staff
20	Chi nhánh ngân hàng	Textbox	Yes	Name of bank of staff
21	“Làm trống”	Button	Yes	Clear all field
22	“Thêm mới”	Button	Yes	Add new staff
23	Image of staff	Image	Yes	Image of staff

4.3.14.2.2. Sequence diagram

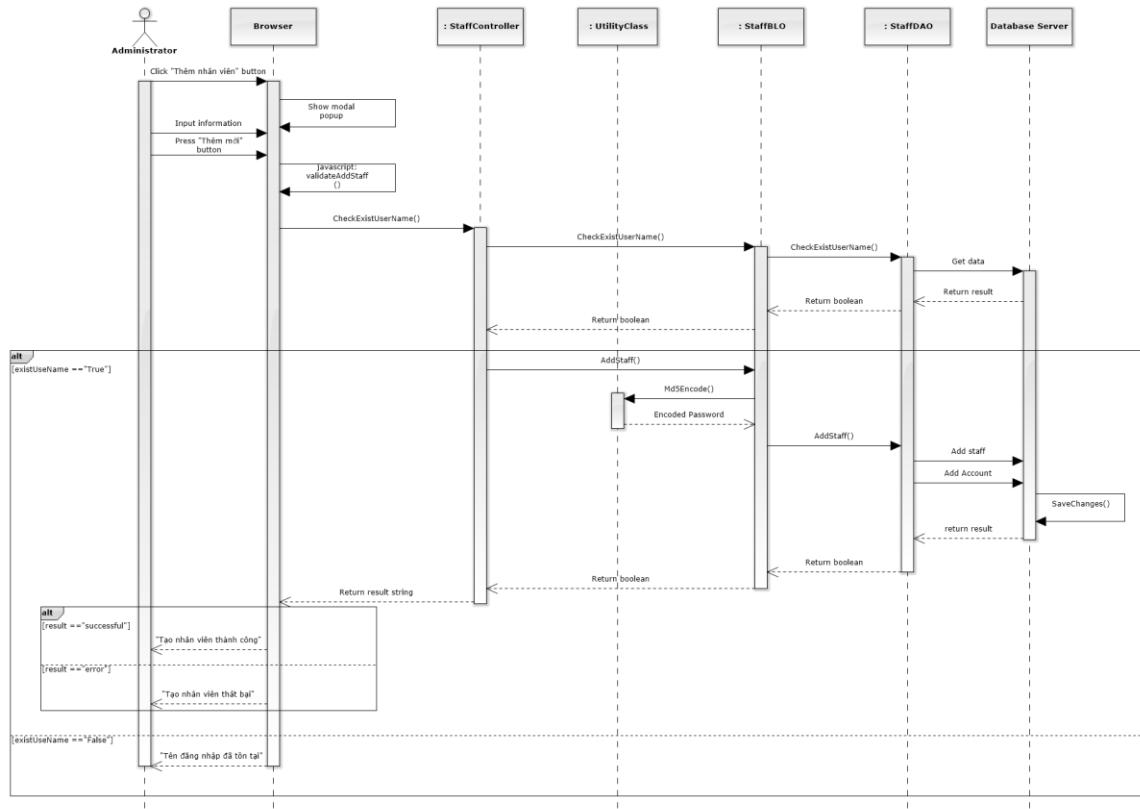


Figure 4-112: Add New Staff Sequence Diagram

4.3.14.3. Edit staff

4.3.14.3.1. Screen design

The screenshot shows a modal window titled "Chi tiết nhân viên". The form is divided into several sections:

- Image:** A placeholder for a staff photo, labeled (1).
- Personal Information:**
 - Nhóm nhân viên ***: Quản lý (8)
 - Vai trò nhân viên ***: Admin (15)
 - Ngày sinh ***: 05/02/1982 (9)
 - CMND ***: 245621204 (16)
- Address:**
 - Nơi sinh**: Vĩnh Long (10)
 - Ngày Cấp CMND ***: 06/02/2002 (17)
 - Nơi cấp CMND ***: Vĩnh Long (18)
- Contact:**
 - Điện thoại di động ***: 0988816668 (11)
 - Điện thoại nhà riêng**: (12)
 - Email ***: info@luatthuannguyen.com (13)
- Other:**
 - Giới tính:** Nam (5)
 - Số người phụ thuộc:** 2 (6)
 - Địa chỉ liên hệ ***: 58 Mậu Thân, khóm 1, phường 3, thành phố Vĩnh Long (14)
 - Chỉ nhánh ngân hàng**: VCB (21)
- Action Buttons:**
 - Đóng** (22) - Close button.
 - Lưu chỉnh sửa** (23) - Save changes button.

Figure 4-113: Edit staff image

No	Object/Control Name	Type	Required	Description
1	Image of staff	Image	Yes	Image of staff
2	Tên nhân viên	Textbox	Yes	Name of staff
3	Tên đăng nhập	Textbox	Yes	Username of staff
4	Chức vụ	Textbox	Yes	Position of staff

5	Giới tính	Radio button	Yes	Choose sex of staff
6	Số người phụ thuộc	Textbox	Yes	Number of dependents
7	Đặt lại mật khẩu	Link	Yes	Change staff password
8	Nhóm nhân viên	Textbox	Yes	Select group of staff
9	Ngày sinh	Datetime picker	Yes	Date of birth of staff
10	Nơi sinh	Textbox	Yes	Place of birth of staff
11	Điện thoại di động	Textbox	Yes	Phone number of staff
12	Điện thoại nhà riêng	Textbox	Yes	Telephone of staff
13	Email	Textbox	Yes	Email of staff
14	Địa chỉ liên hệ	Textbox	Yes	Address of staff
15	Vai trò nhân viên	Select box	Yes	Select role of staff
16	CMND	Textbox	Yes	Identity number of staff
17	Ngày cấp CMND	Datetime picker	Yes	Date of Identity of staff
18	Nơi cấp CMND	Textbox	Yes	Place of Identity of staff

19	Mã số thuế	Textbox	Yes	Tax number of staff
20	Số tài khoản	Textbox	Yes	Bank account number of staff
21	Chi nhánh ngân hàng	Textbox	Yes	Name of bank of staff
22	“Đóng”	Button	Yes	Close edit staff
23	“Lưu chỉnh sửa”	Button	Yes	Save edit staff

4.3.14.3.2. Sequence diagram

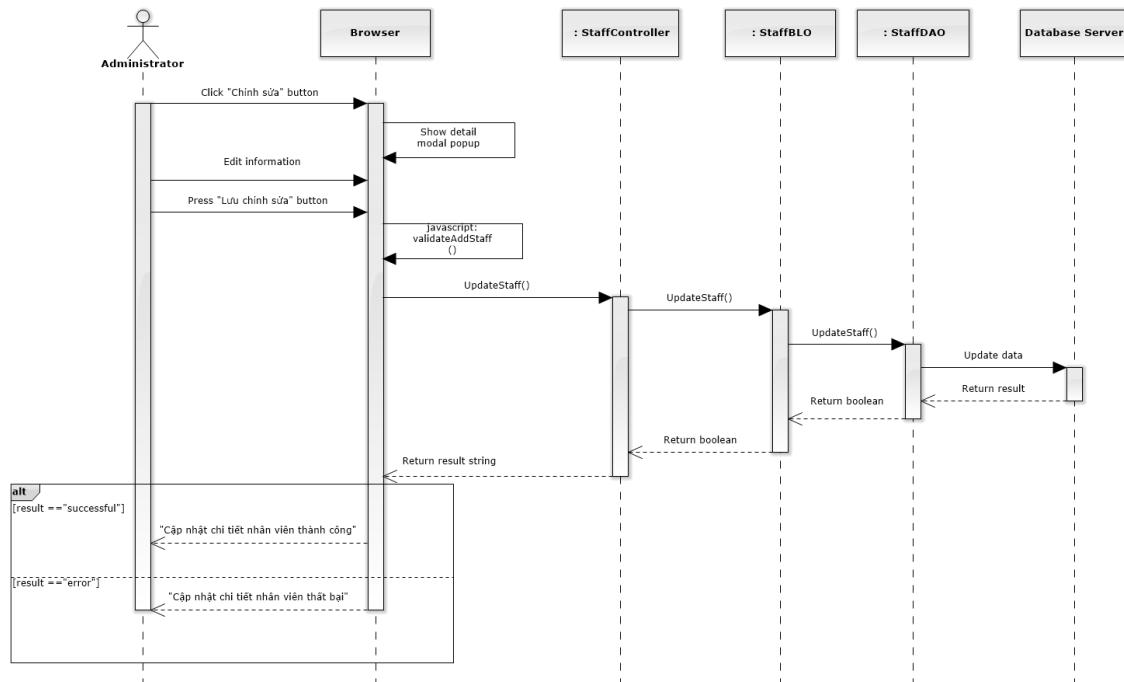


Figure 4-114: Edit Staff Sequence Diagram

4.3.14.4. Deactivate/ Activate staff

4.3.14.4.1. Screen design

Figure 4-115: Deactivate / Activate Staff image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close Deactive staff
2	“Xác nhận”	Button	Yes	Click to Deactive staff

3	Ngừng hoạt động	Link	Yes	Click to open confirm Deactive staff
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4.3.14.4.2. Sequence diagram

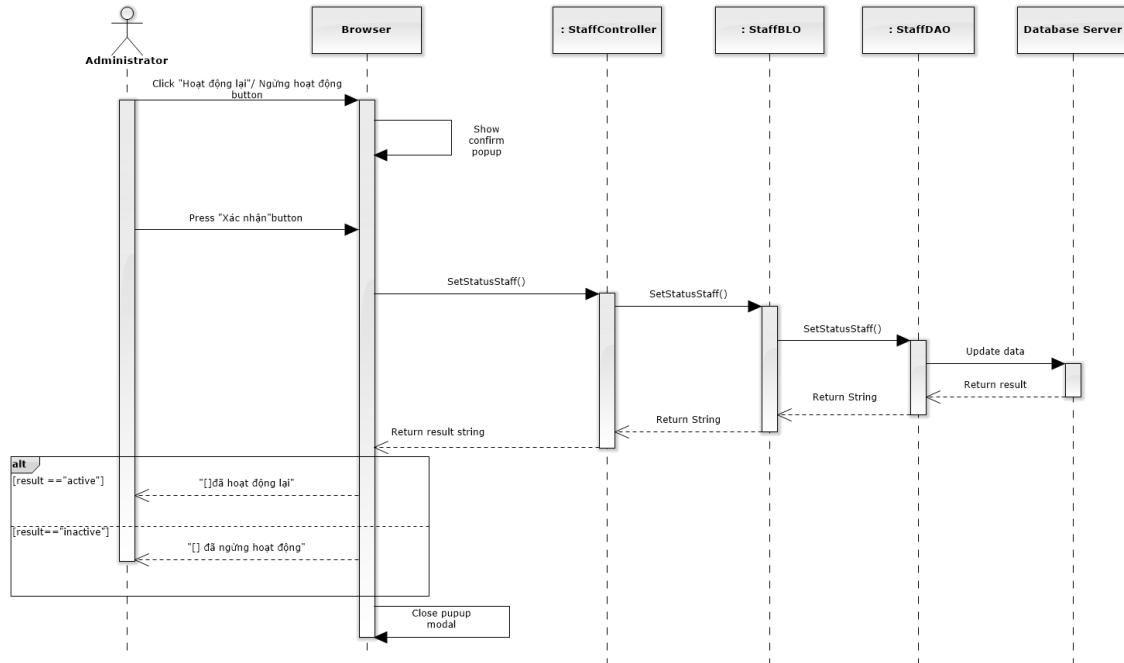


Figure 4-116: Deactivate / Activate Staff Sequence Diagram

4.3.14.5. Reset password

4.3.14.5.1. Screen design

The screenshot shows a staff detail page with various input fields for personal information like name, date of birth, and CMND number. A modal window is open in the center, asking if the user wants to reset the staff's password. The modal has two buttons: "Bỏ qua" (Skip) and "Xác nhận" (Confirm). The "Xác nhận" button is highlighted with a red border.

Chi tiết nhân viên	
	Bạn muốn khôi phục mật khẩu nhân viên này về mặc định?
	(1) <input type="button" value="BỎ QUA"/> (2) <input style="background-color: #007bff; color: white; border: 1px solid #007bff; padding: 5px; margin-left: 10px;" type="button" value="XÁC NHẬN"/>
Tên nhân viên *	Nguyễn Hữu Tiếng
Nơi sinh	Gia Lai
Ngày Cấp CMND *	01/01/2004
Tên đăng nhập *	tiengnh
Điện thoại di động *	0902345537
Điện thoại nhà riêng	0596250884
Nơi cấp CMND *	Gia Lai
Chức vụ	Chuyên viên
Mã số thuế	
Giới tính:	Số tài khoản
<input checked="" type="radio"/> Nam <input type="radio"/> Nữ	
Số người phụ thuộc:	Chi nhánh ngân hàng
1	
Địa chỉ liên hệ *	Khóm 16, Thị trấn An Khê, Tỉnh Gia Lai
Thuộc văn phòng *	Luật Thuận Nguyễn Hồ Chí Minh
<input style="border: 1px solid #dc3545; color: #dc3545; padding: 5px; margin-right: 10px;" type="button" value="Đặt lại mật khẩu (3)"/> <input style="border: 1px solid #dc3545; color: #dc3545; padding: 5px;" type="button" value="Ngừng hoạt động"/>	
<input style="margin-right: 10px;" type="button" value="Đóng"/> <input checked="" type="checkbox"/> <input style="background-color: #007bff; color: white; border: 1px solid #007bff; padding: 5px;" type="button" value="Chỉnh sửa"/>	

Figure 4-117: Reset password staff image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close reset password staff
2	“Xác nhận”	Button	Yes	Click to reset password staff

3	Đặt lại mật khẩu	Link	Yes	Click to open reset password staff
---	------------------	------	-----	------------------------------------------

4.3.14.5.2. Sequence diagram

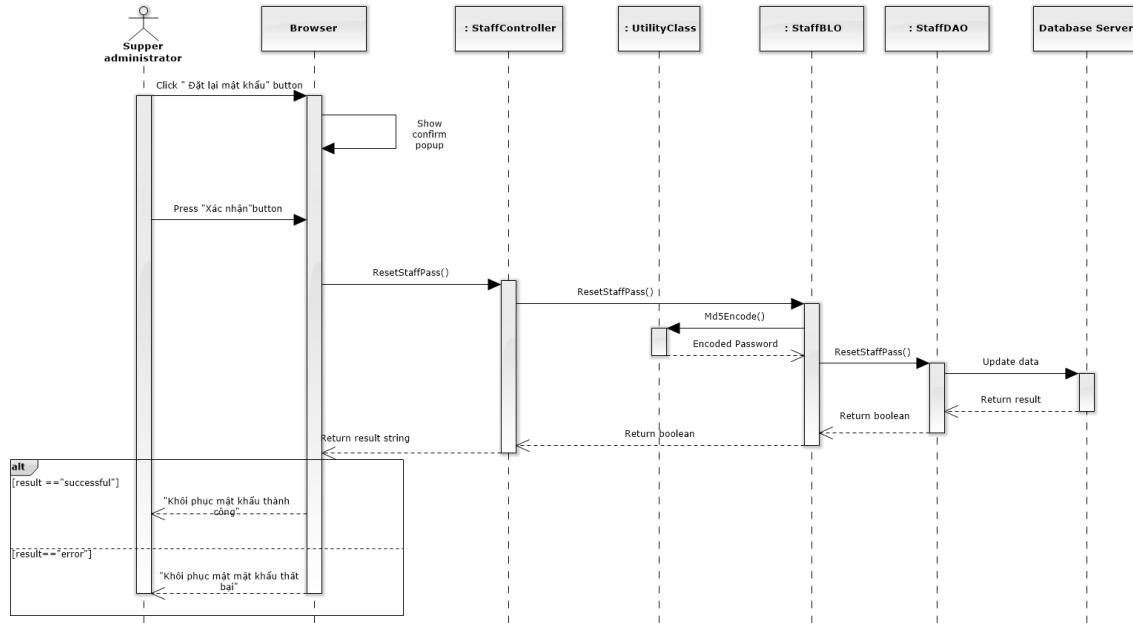


Figure 4-118: Reset Password Sequence Diagram

4.3.15. Manage Service Type

4.3.15.1. List service type

4.3.15.1.1. Class diagram

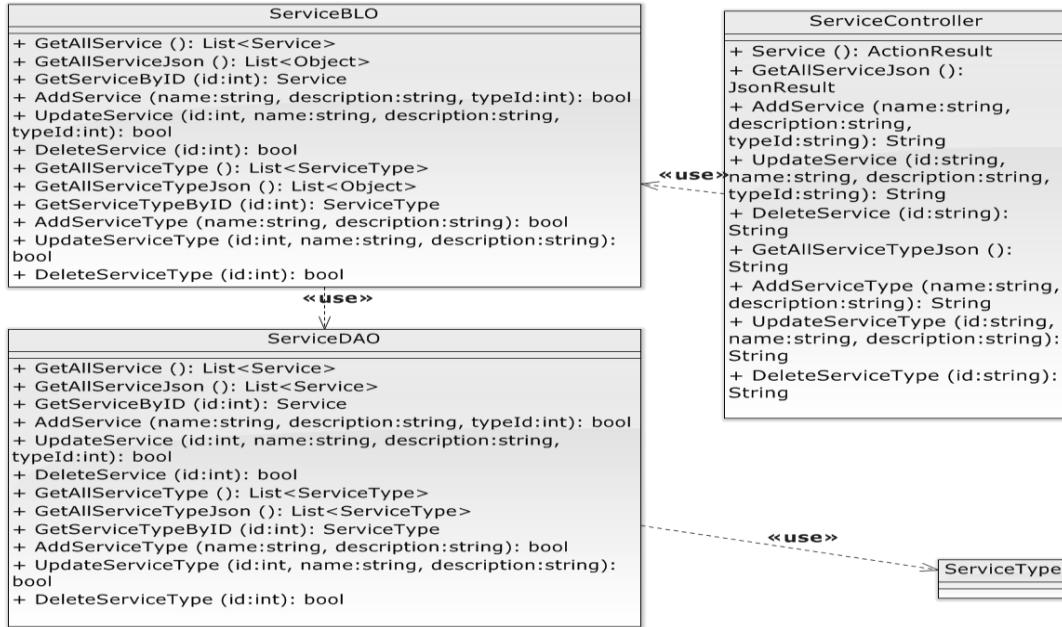


Figure 4-119: Manage service type class diagram

4.3.15.1.2. Screen design

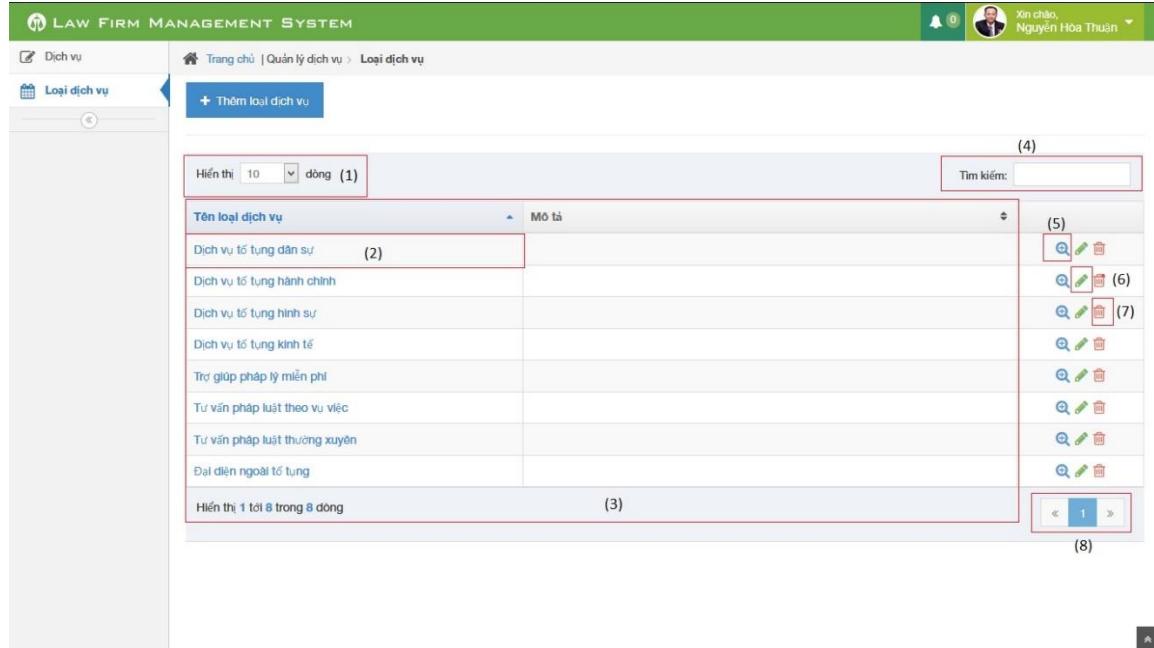


Figure 4-120: List service type image

No	Object/Control Name	Type	Required	Description
1	Number of rows	Combo-box	Yes	Choose number of rows in table
2	Name service type	Text	Yes	Show service type detail pop-up
3	List all Service type	Table	Yes	List all Service type
4	Search	Textbox	Yes	Search service type
5	View service type detail	Icon	Yes	Show service type detail pop-up

6	Delete service type	Icon	Yes	Delete service type
7	Edit service type	Icon	Yes	Show edit service type pop-up
8	Paging	Button	Yes	Paging the service type list

4.3.15.1.3. Sequence diagram

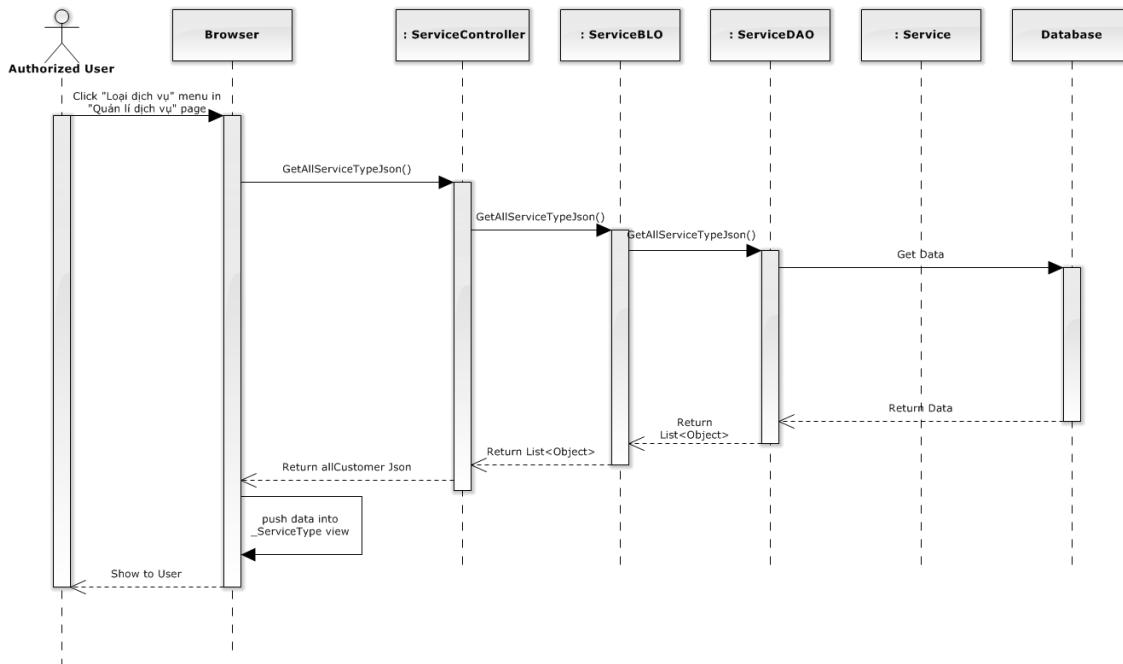


Figure 4-121: List service type sequence diagram

4.3.15.2. Add service type

4.3.15.2.1. Screen design

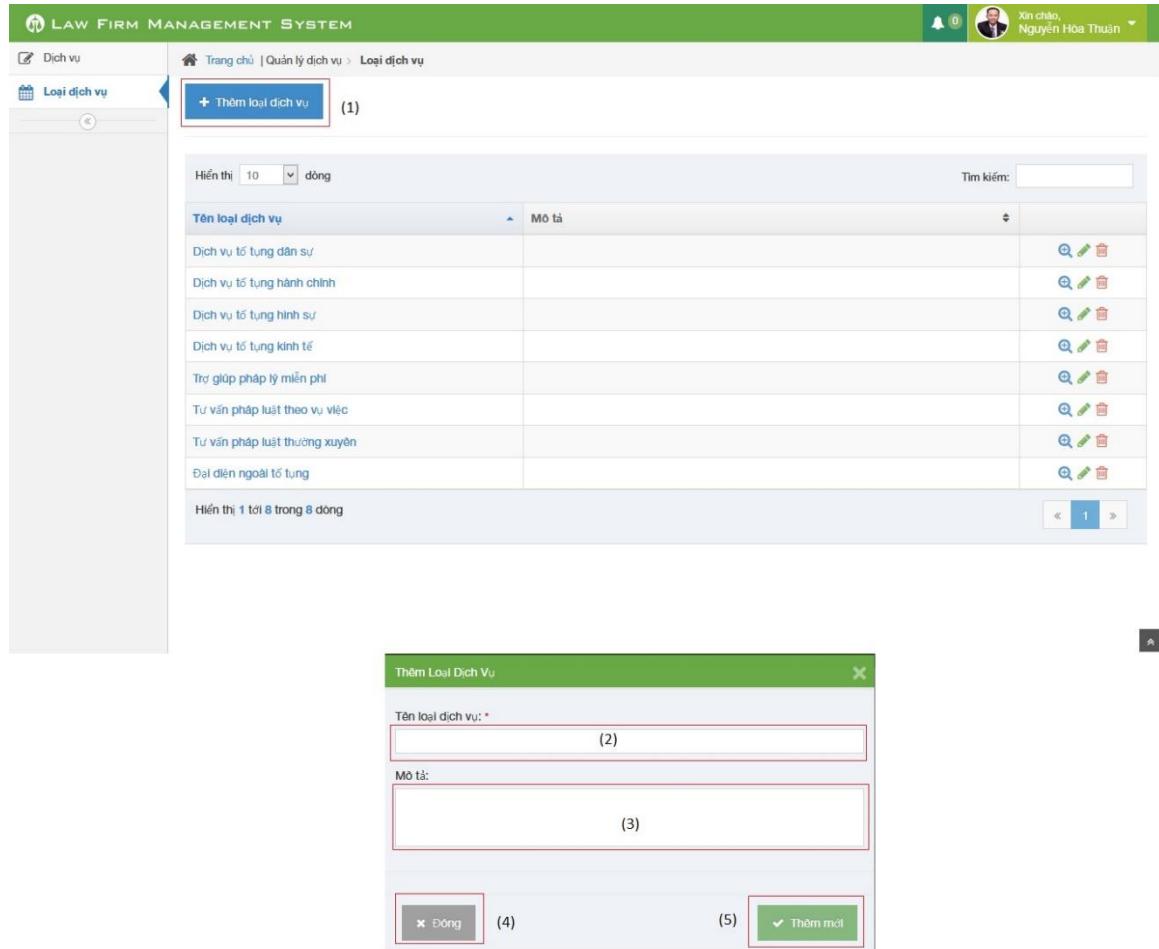


Figure 4-122: Add service type image

No	Object/Control Name	Type	Required	Description
1	“Thêm loại dịch vụ”	Button	Yes	Click to open pop-up create new type of service

2	“Tên loại dịch vụ”	Textbox	Yes	Name of service type
3	“Mô tả”	Textbox	Yes	Description of service type
4	“Đóng”	Button	Yes	Click to close pop-up add new service type
5	“Thêm mới”	Button	Yes	Click to add new service type

4.3.15.2.2. Sequence diagram

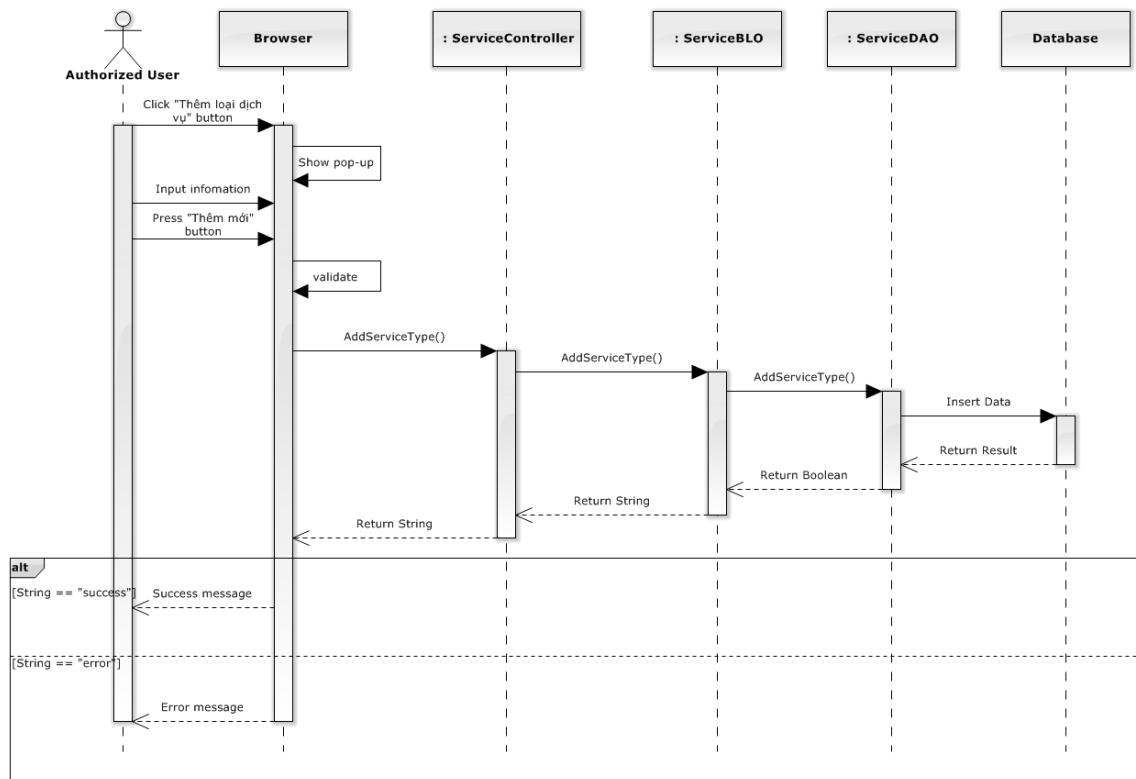


Figure 4-123: Add service type sequence diagram

4.3.15.3. Update service type

4.3.15.3.1. Screen design

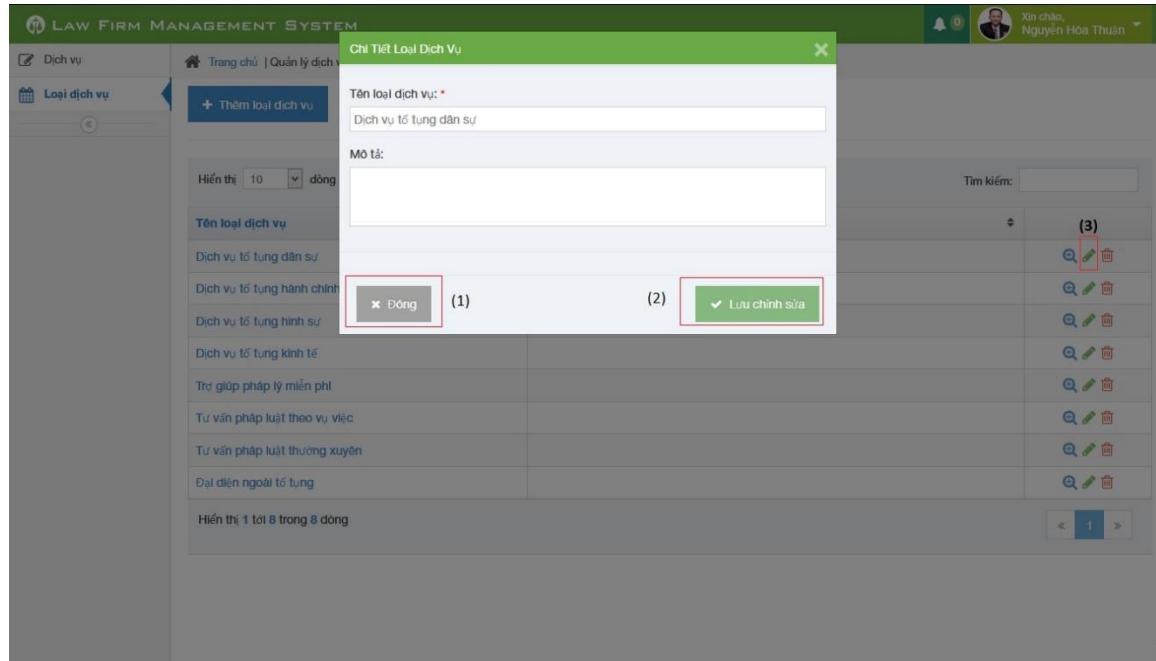


Figure 4-124: Update service type image

No	Object/Control Name	Type	Required	Description
1	“Đóng”	Button	Yes	Click to close update service type
2	“Lưu chỉnh sửa”	Button	Yes	Click to confirm update service type
3	Edit	Icon	Yes	Click to show pop up update service type

4.3.15.3.2. Sequence diagram

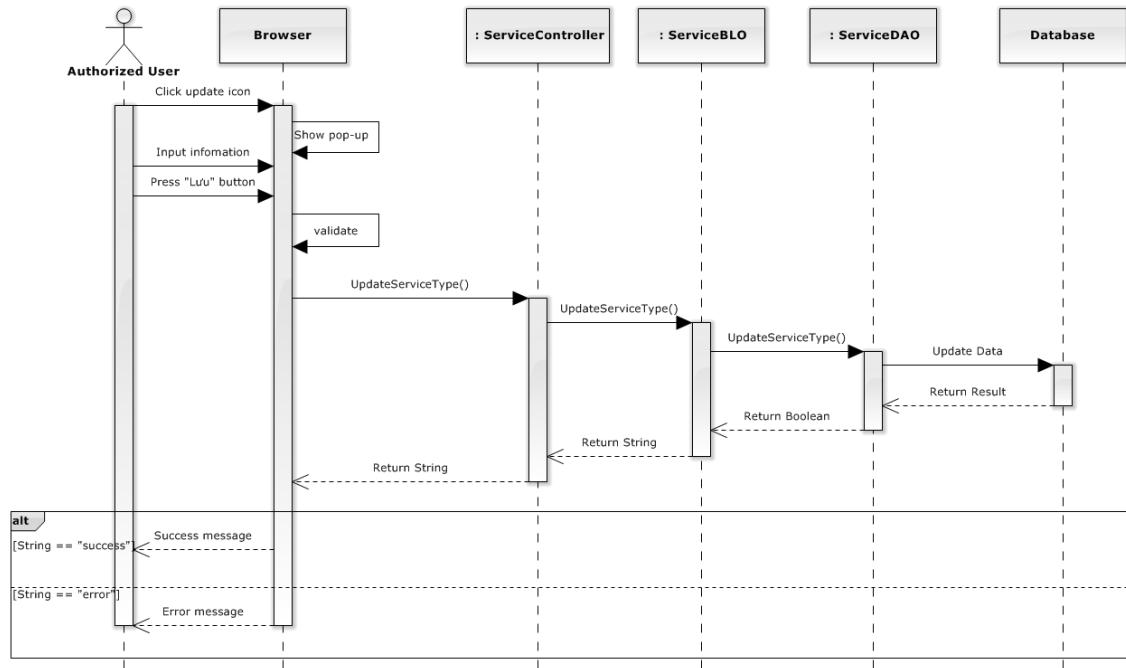


Figure 4-125: Update service type sequence diagram

4.3.15.4. Delete service type

4.3.15.4.1. Screen design

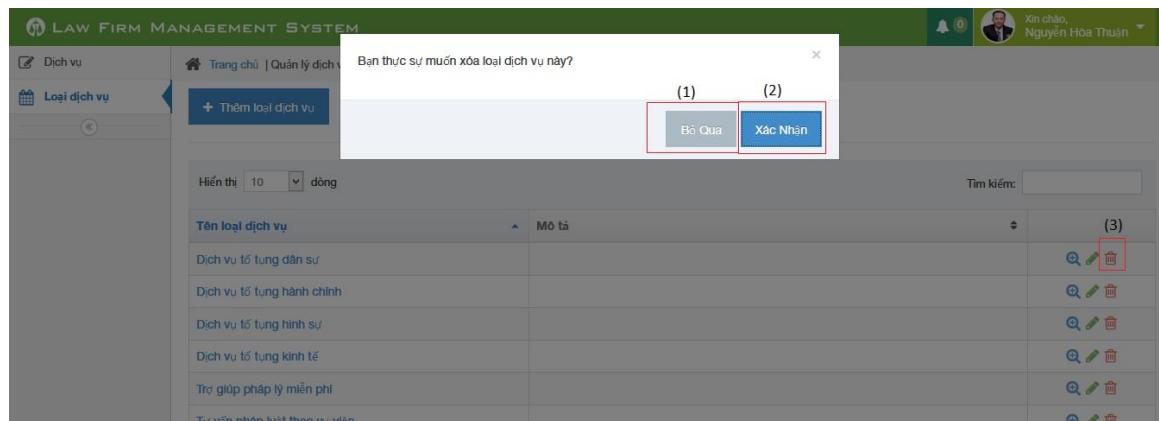


Figure 4-126: Delete service type image

No	Object/Control Name	Type	Required	Description
1	“Bỏ qua”	Button	Yes	Click to close delete service type
2	“Xác nhận”	Button	Yes	Click to confirm delete service type
3	Trash	Button	Yes	Click to show pop up delete service type

4.3.15.4.2. Sequence diagram

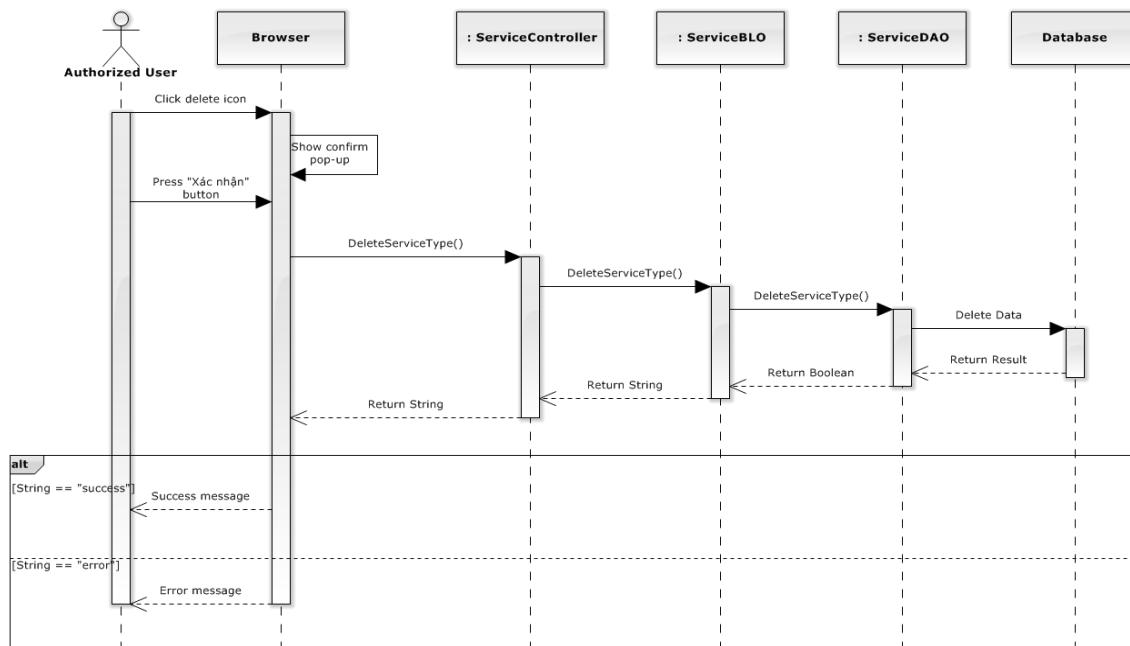


Figure 4-127: Delete service type sequence diagram

4.3.16. Manage Service

4.3.16.1. List Services

4.3.16.1.1. Class diagram

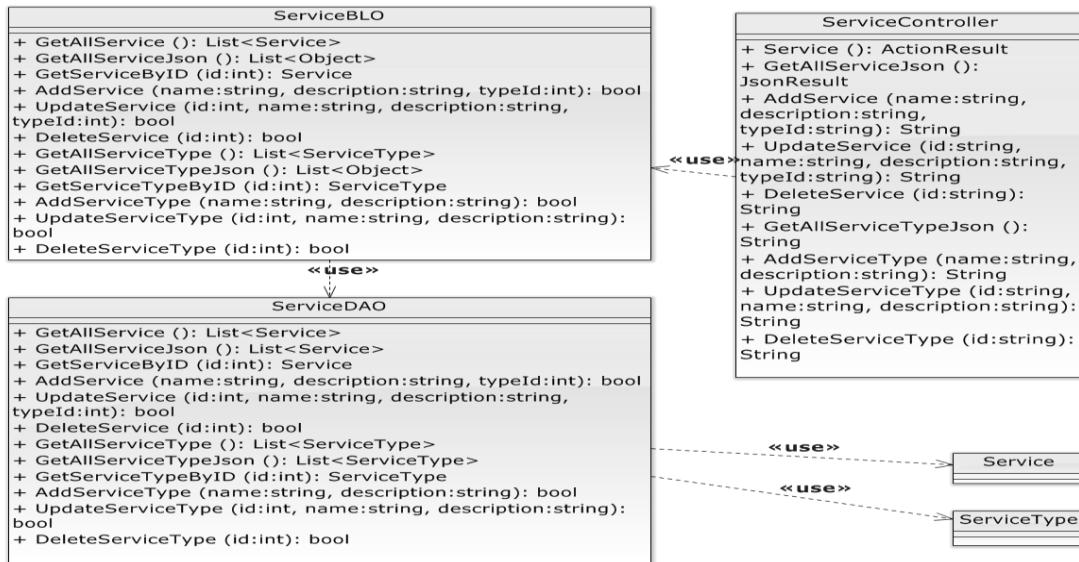


Figure 4-128: Manage service class diagram

4.3.16.1.2. Screen design

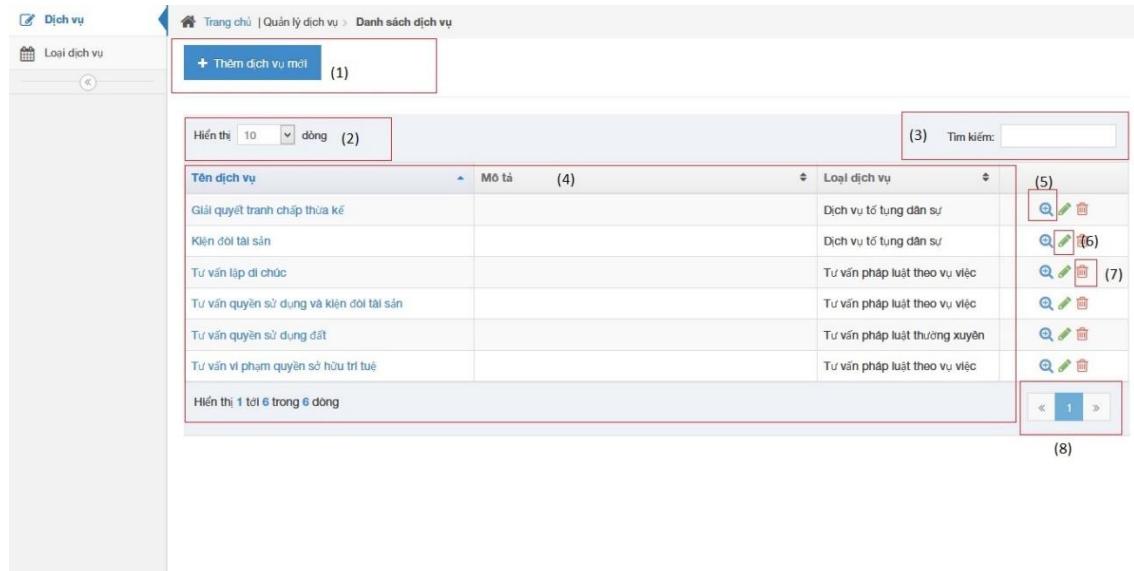


Figure 4-129: List service image

No	Object/Control Name	Type	Required	Description
1	Thêm dịch vụ mới	Button	Yes	Show Add new service pop-up
2	Number of rows	Combo-box	Yes	Choose number of rows in table
3	Search	Textbox	Yes	Search service
4	Services table	Table	Yes	List service
5	View service detail	Icon	Yes	Show service detail pop-up
6	Edit service	Icon	Yes	Delete service
7	Delete service	Icon	Yes	Show edit service pop-up
8	Paging	Button	Yes	Paging the service list

4.3.16.1.3. Sequence diagram

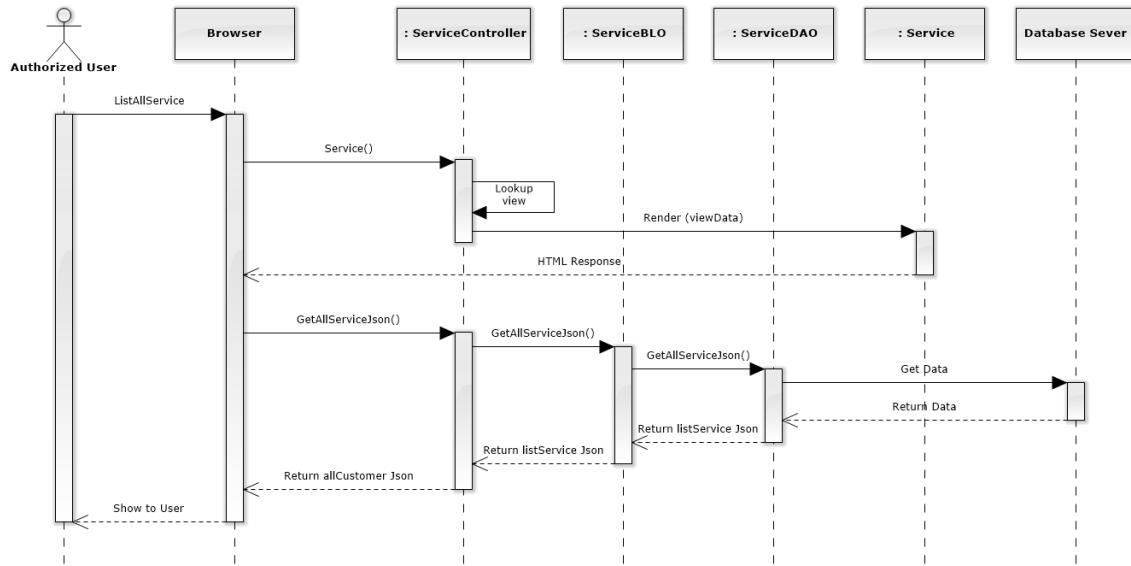


Figure 4-130: List Services Sequence Diagram

4.3.16.2. Add new service

4.3.16.2.1. Screen design

The screenshot shows a dialog box titled 'Thêm dịch vụ'. It contains three input fields: 'Tên dịch vụ: *' (1), 'Loại dịch vụ: *' (2), and 'Mô tả:' (3). At the bottom left is a red-bordered button labeled 'Đóng' (4). At the bottom right is another red-bordered button labeled 'Thêm mới' (5).

Figure 4-131: Add new service image

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No	Object/Control Name	Type	Required	Description
1	Tên dịch vụ	Textbox	Yes	Name Service
2	Loại dịch vụ	Combo-box	Yes	Service type
3	Mô tả	Textbox	Yes	Description
4	“Đóng”	Button	Yes	Click to close add new service pop-up
5	“Thêm mới”	Button	Yes	Click to add new service

4.3.16.2.2. Sequence diagram

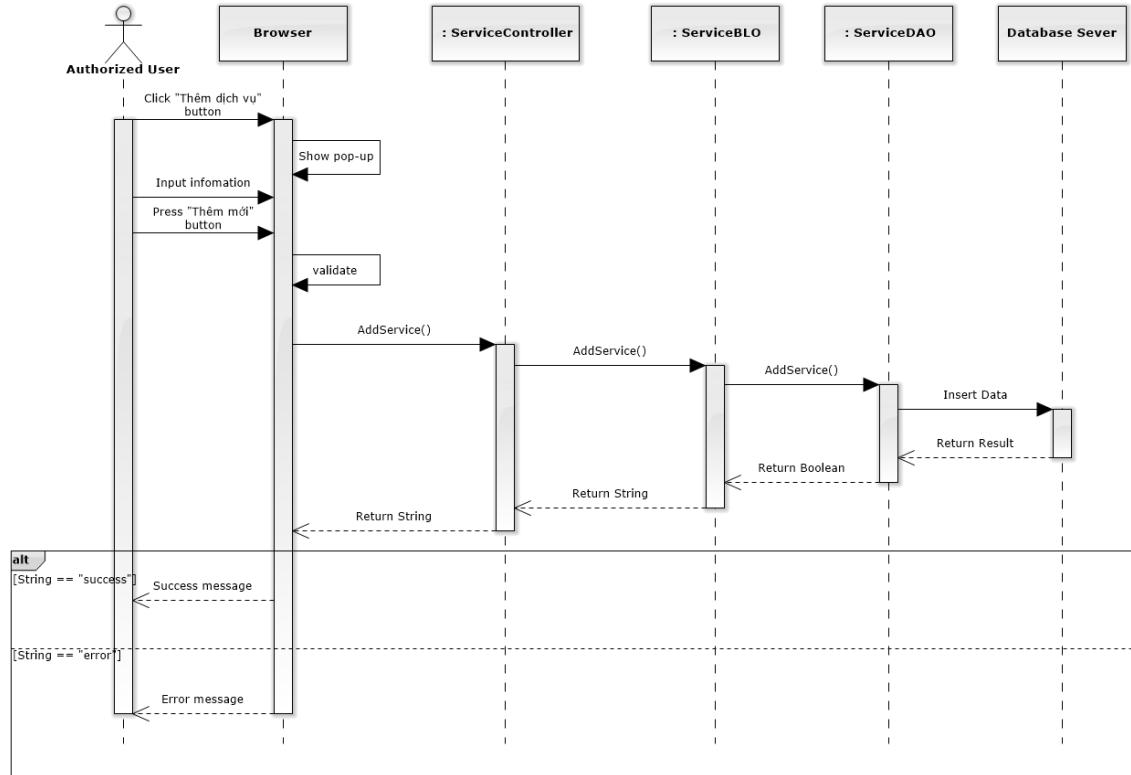


Figure 4-132: Add New Service Sequence Diagram

4.3.16.3. Edit service

4.3.16.3.1. Screen design

The screenshot shows the 'Chi Tiết Dịch Vụ' (Service Detail) screen. At the top, there are fields for 'Tên dịch vụ:' (Service Name) with a placeholder '(1)', 'Loại dịch vụ:' (Service Type) with a dropdown menu showing 'Dịch vụ tổ tụng dân sự' (Community Service) with a value '(2)', and a 'Mô tả:' (Description) field containing '(3)'.

At the bottom, there are two buttons: a grey 'Đóng' (Close) button with a red border labeled '(4)' and a green 'Lưu chỉnh sửa' (Save changes) button with a red border labeled '(5)'.

Figure 4-133: Edit service image

No	Object/Control Name	Type	Required	Description
1	Tên dịch vụ	Textbox	Yes	Name Service
2	Loại dịch vụ	Combo-box	Yes	Service type
3	Mô tả	Textbox	Yes	Description
4	“Đóng”	Button	Yes	Click to close edit service pop-up
5	“Lưu chỉnh sửa”	Button	Yes	Click to save edit service

4.3.16.3.2. Sequence diagram

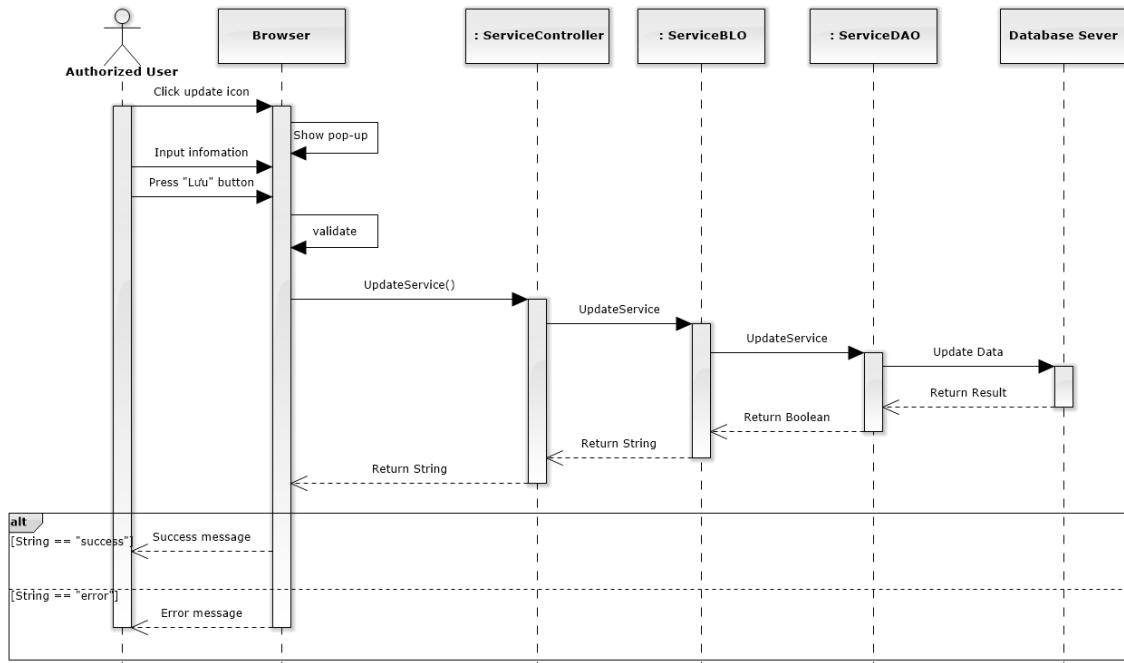


Figure 4-134: Edit Service Sequence Diagram

4.3.16.4. Delete service

4.3.16.4.1. Screen design

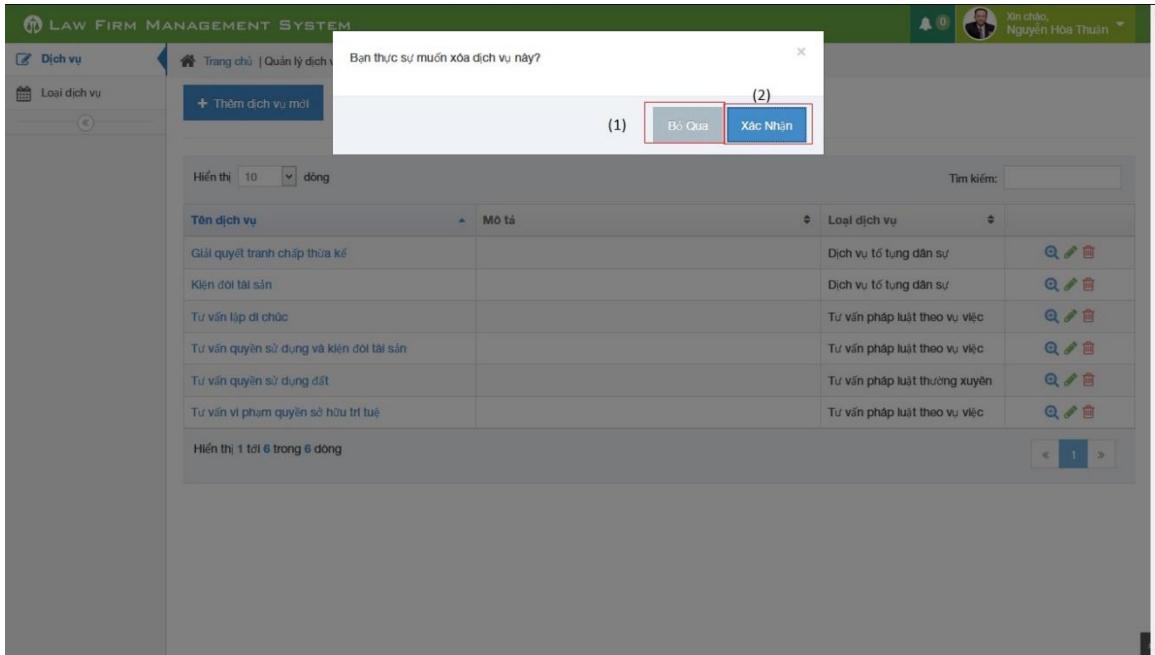


Figure 4-135: Delete service image

No	Object/Control Name	Type	Required	Description
1	BỎ QUA	Button	Yes	Click to close delete service pop-up
2	XÁC NHẬN	Button	Yes	Click to delete service pop-up

4.3.16.4.2. Sequence diagram

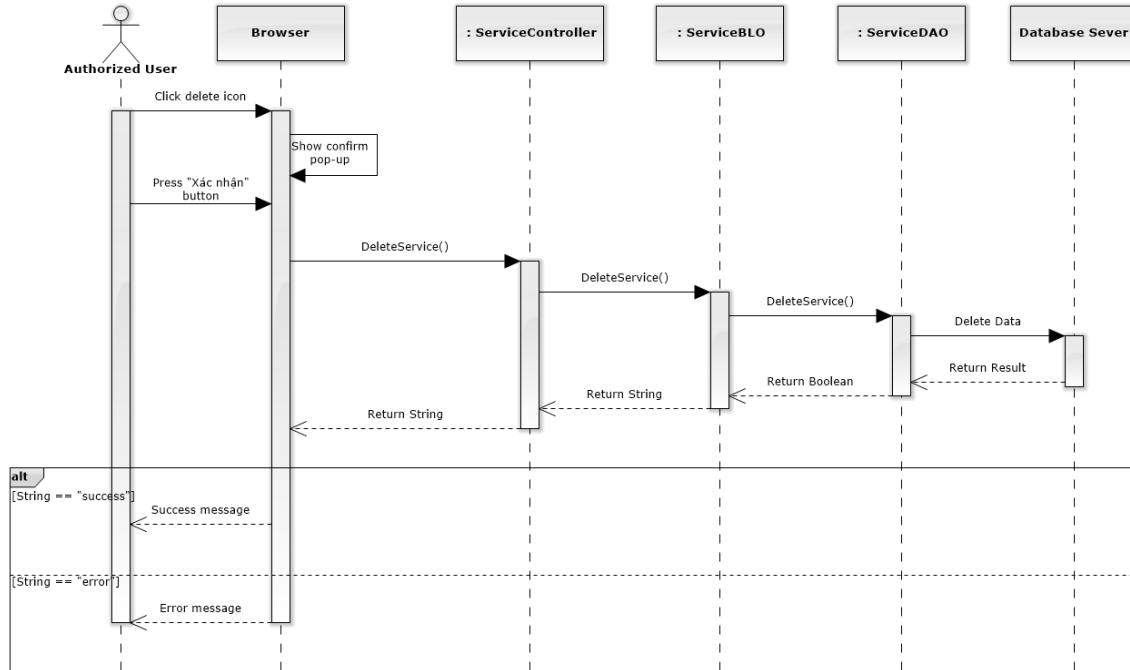


Figure 4-136: Delete Service Sequence Diagram

4.3.17. Manage Office

4.3.17.1. List offices

4.3.17.1.1. Class diagram

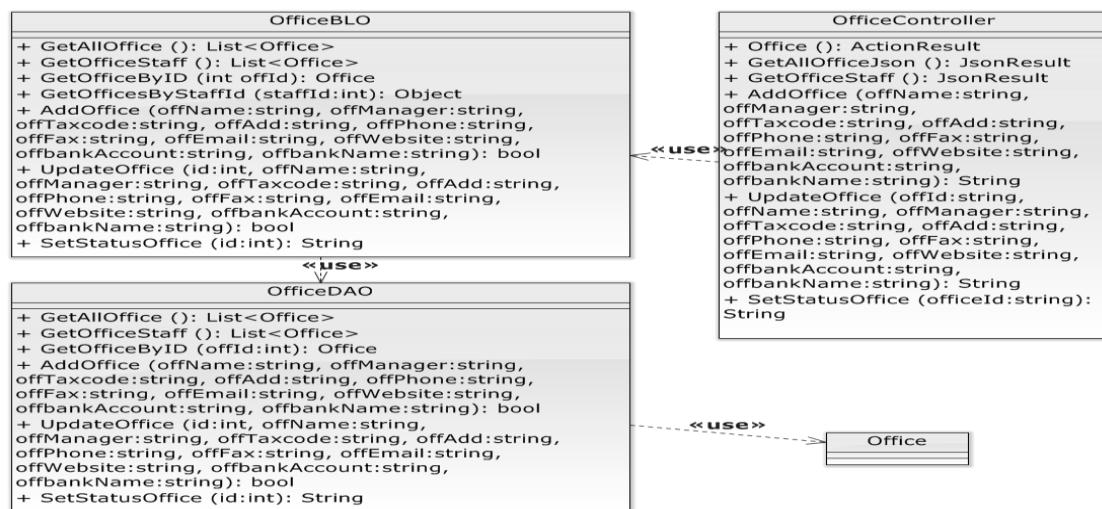


Figure 4-137: Manage office class diagram

4.3.17.1.2. Screen design

Figure 4-138: List office image

No	Object/Control Name	Type	Required	Description
1	Thêm văn phòng	Button	Yes	Click to show popup for add new office
2	Number of rows	Combo-box	Yes	Choose number of rows in table
3	Tìm kiếm	Textbox	Yes	Search office
4	List all office	Table	Yes	List all office
5	View	Button	Yes	Click to show popup detail of office
6	Edit	Button	Yes	Click to show popup edit detail of office information.
7	Paging	Button	Yes	Paging page

4.3.17.1.3. Sequence diagram

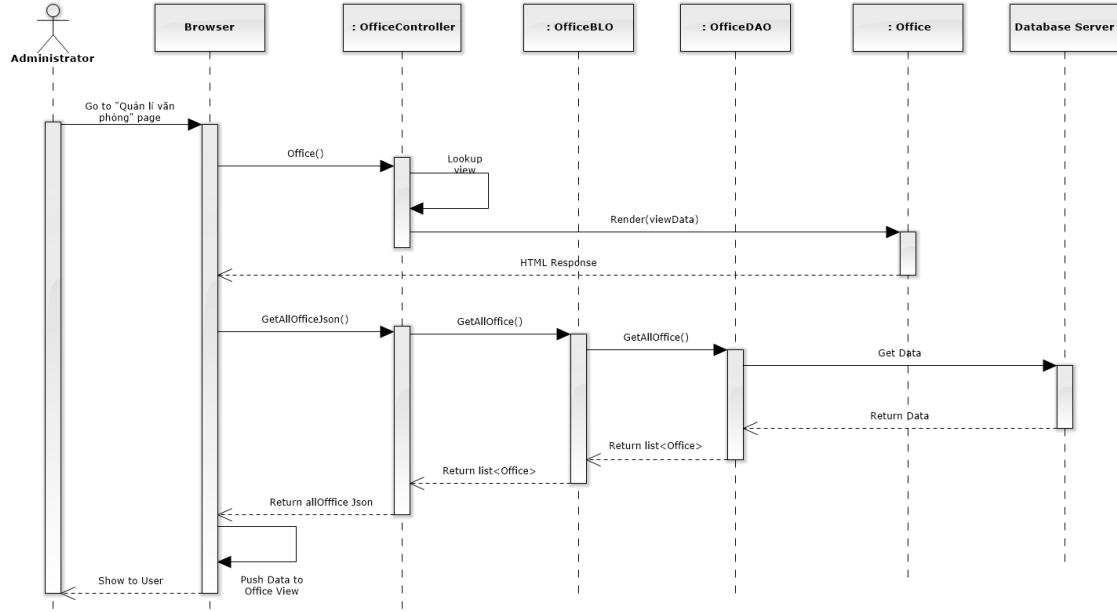


Figure 4-139: List Offices Sequence Diagram

4.3.17.2. Add new office

4.3.17.2.1. Screen design

Figure 4-140: Add new office image

No	Object/Control Name	Type	Required	Description
1	Tên văn phòng	Textbox	Yes	Name of office
2	Người quản lí	Textbox	Yes	Nam's manager of office
3	Số tài khoản	Textbox	Yes	Bank account number of office
4	Fax	Textbox	Yes	Fax of office

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5	Email	Textbox	Yes	Email of office
6	Địa chỉ văn phòng	Textbox	Yes	Address of office
7	Điện thoại	Textbox	Yes	Phone number of office
8	Mã số thuế	Textbox	Yes	Tax number of office
9	Ngân hàng	Textbox	Yes	Name of bank of office
10	Website	Textbox	Yes	Website of office
11	“Làm trống”	Button	Yes	Clear field
12	“Thêm mới”	Button	Yes	Click to add new office

4.3.17.2.2. Sequence diagram

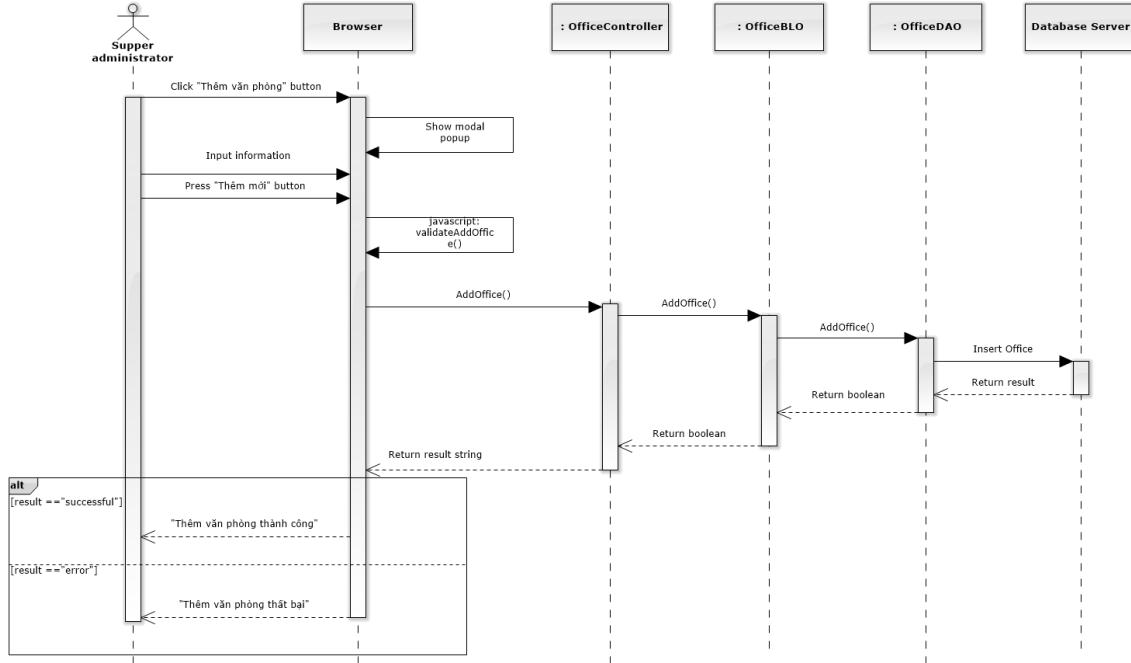


Figure 4-141: Add New Office Sequence Diagram

4.3.17.3. Edit office

4.3.17.3.1. Screen design

The screenshot shows a modal window titled "Chi tiết văn phòng". The form fields are as follows:

- Tên văn phòng * (1): Luật Thuận Nguyễn Hồ Chí Minh
- Địa chỉ văn phòng * (6): 218 Tân Hương, Phường Tân Quý, Quận Tân Phú, HCM
- Người quản lý * (2): Nguyễn Hòa Thuận
- Điện thoại * (7): 0866766963
- Số tài khoản (3):
- Mã số thuế (8):
- Fax (4):
- Ngân hàng (9):
- Email * (5): info@luatthuannguyen.com
- Website (10): www.luatthuannguyen.com
- Ngừng hoạt động (11):
- (12)
- (13)

Figure 4-142: Edit office image

No	Object/Control Name	Type	Required	Description
1	Tên văn phòng	Textbox	Yes	Name of office
2	Người quản lí	Textbox	Yes	Nam's manager of office
3	Số tài khoản	Textbox	Yes	Bank account number of office

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4	Fax	Textbox	Yes	Fax of office
5	Email	Textbox	Yes	Email of office
6	Địa chỉ văn phòng	Textbox	Yes	Address of office
7	Điện thoại	Textbox	Yes	Phone number of office
8	Mã số thuế	Textbox	Yes	Tax number of office
9	Ngân hàng	Textbox	Yes	Name of bank of office
10	Website	Textbox	Yes	Website of office
11	Ngừng hoạt động	Link	Yes	Status of office
12	“Đóng”	Button	Yes	Click to close edit office
13	“Lưu chỉnh sửa”	Button	Yes	Click to save edit office

4.3.17.3.2. Sequence diagram

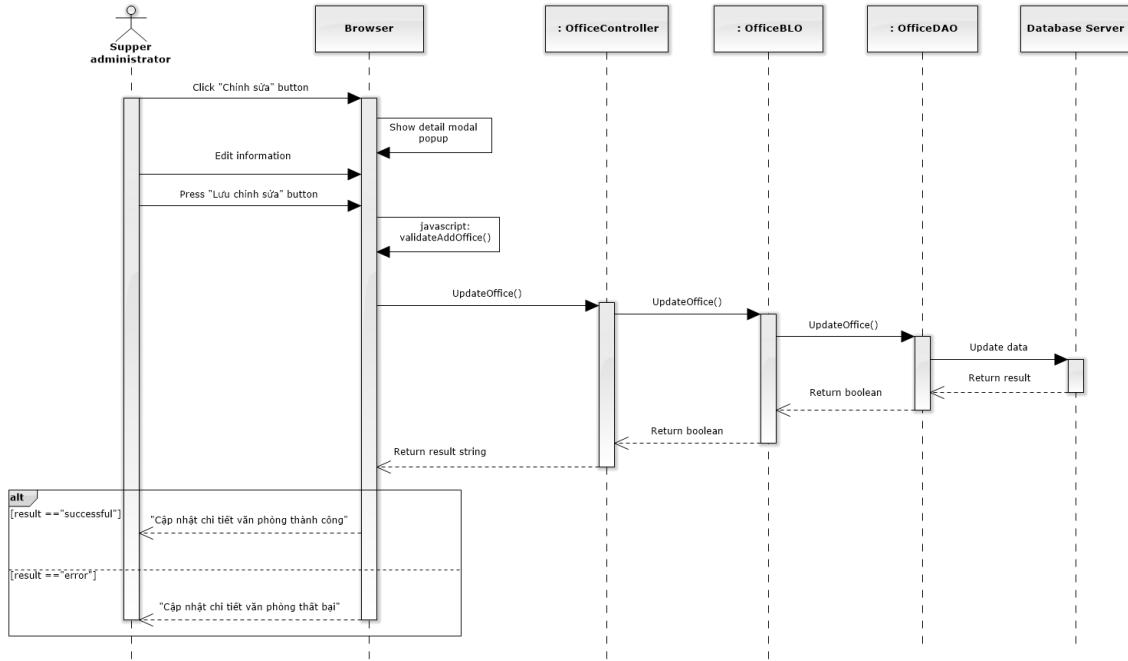


Figure 4-143: Edit Office Sequence Diagram

4.3.17.4. Deactivate/ Activate office

4.3.17.4.1. Screen design

Bạn có muốn thực hiện thao tác này?

(1) (2)

Bỏ Qua Xác Nhận

Tên văn phòng

Luật Thuận Nguyễn Hồ Chí Minh

218 Tân Hương, Phường Tân Quý, Quận Tân Phú, HCM

Người quản lý *

Nguyễn Hòa Thuận

Điện thoại *

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Website

www.luatthuannguyen.com

Ngừng hoạt động (3)

Đóng

Chỉnh sửa

Figure 4-144: Deactivate / Activate Office image

No	Object/Control Name	Type	Required	Description
1	“BỎ QUA”	Button	Yes	Click to close Deactive office
2	“XÁC NHẬN”	Button	Yes	Click to Deactive office

3	Ngừng hoạt động	Link	Yes	Click to open confirm Deactive office
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4.3.17.4.2. Sequence diagram

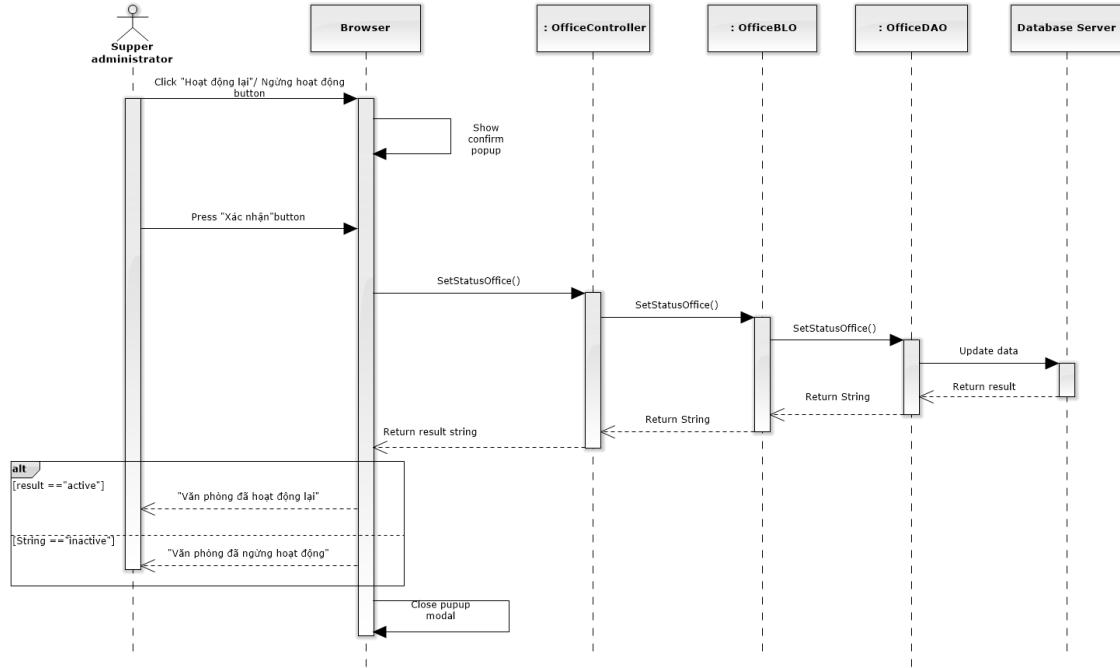


Figure 4-145: Deactivate / Activate Office Sequence Diagram

4.3.18. Statistic

4.3.18.1. Office statistic

4.3.18.1.1. Class diagram

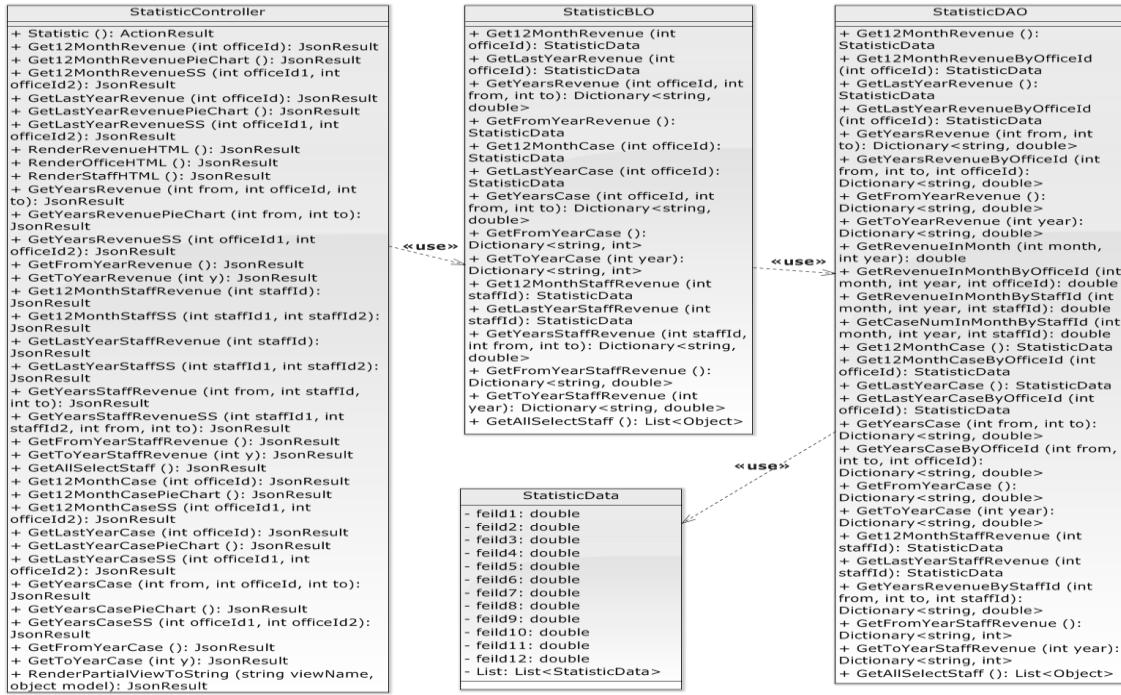


Figure 4-146: Statistic Class Diagram

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4.3.18.1.2. Screen design

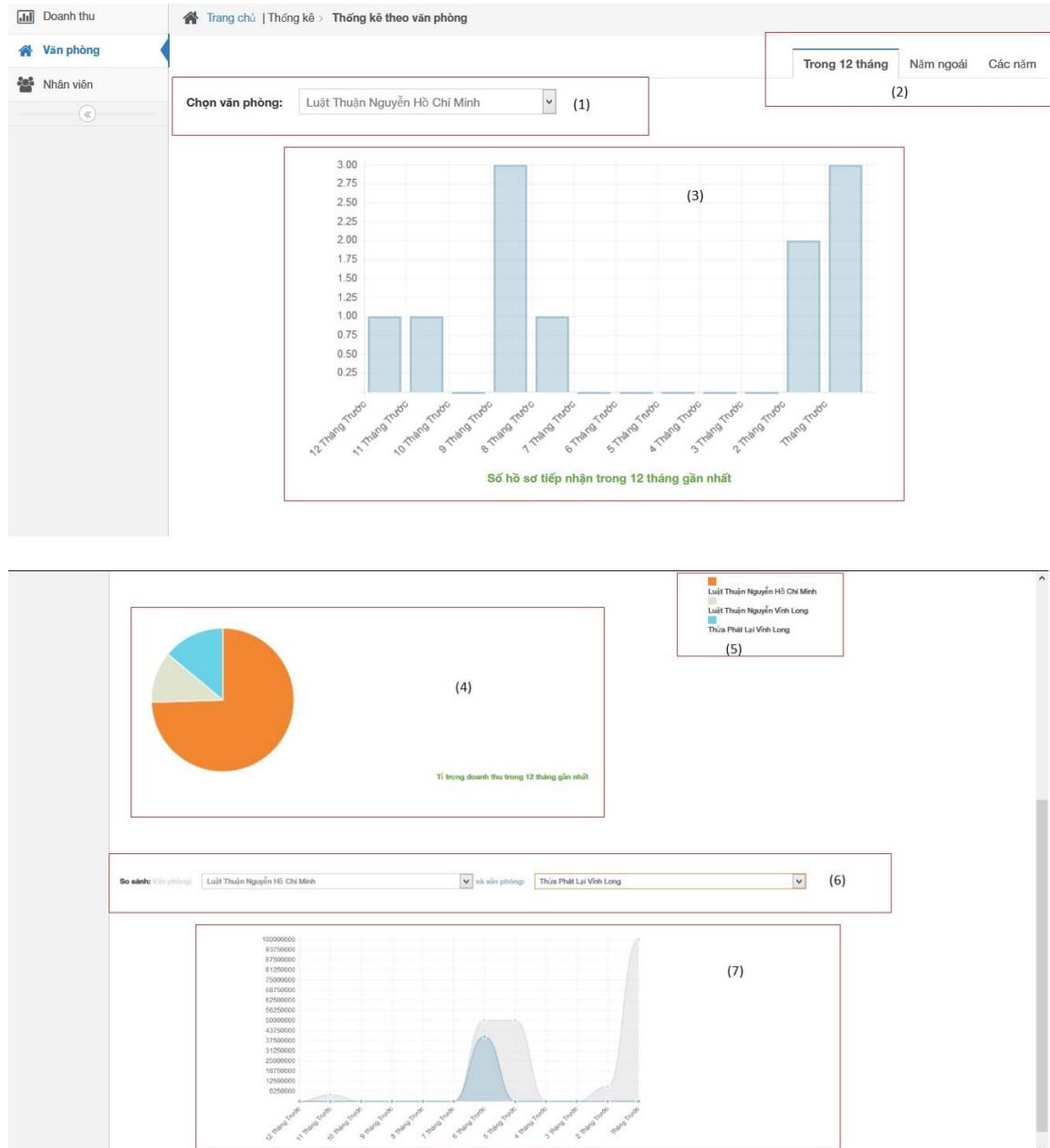


Figure 4-147: Office Statistic image

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No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng	Combo box	Yes	Click to choose name of office
2	Tab statistic	Link	Yes	Click to choose tab of statistic
3	Bar chart	Image	Yes	Image display of Bar chart
4	Pie chart	Image	Yes	Image display of Bar chart
5	Name office	Text	Yes	Name of office
6	Select name office	Combo box	Yes	Select name for comparison office
7	Comparison chart	Image	Yes	Image display of Bar chart

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4.3.18.1.3. Sequence diagram

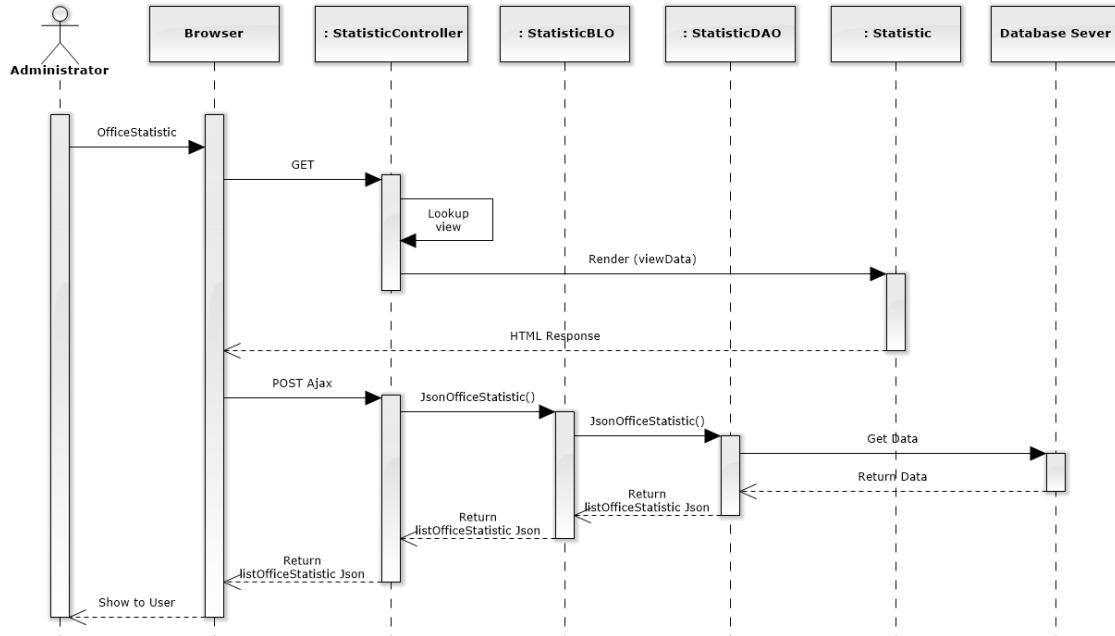


Figure 4-148: Office Statistic Sequence Diagram

4.3.18.2. Office statistic in year

4.3.18.2.1. Screen design

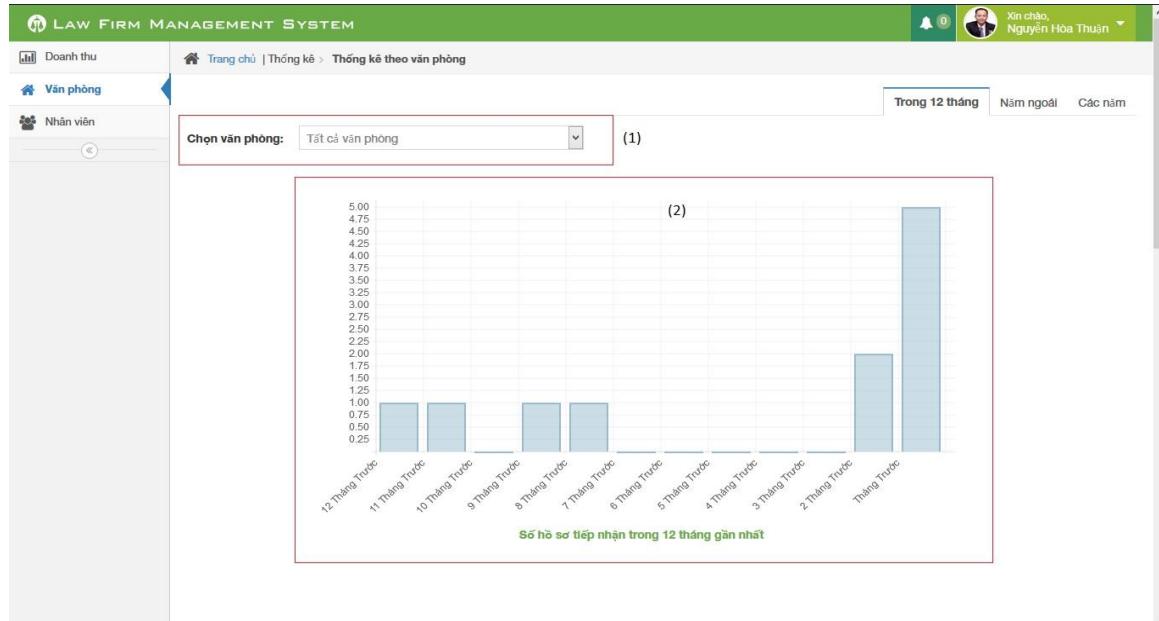


Figure 4-149: Office Statistic in year image

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng	Combo box	Yes	Click to choose name of office
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.2.2. Sequence diagram

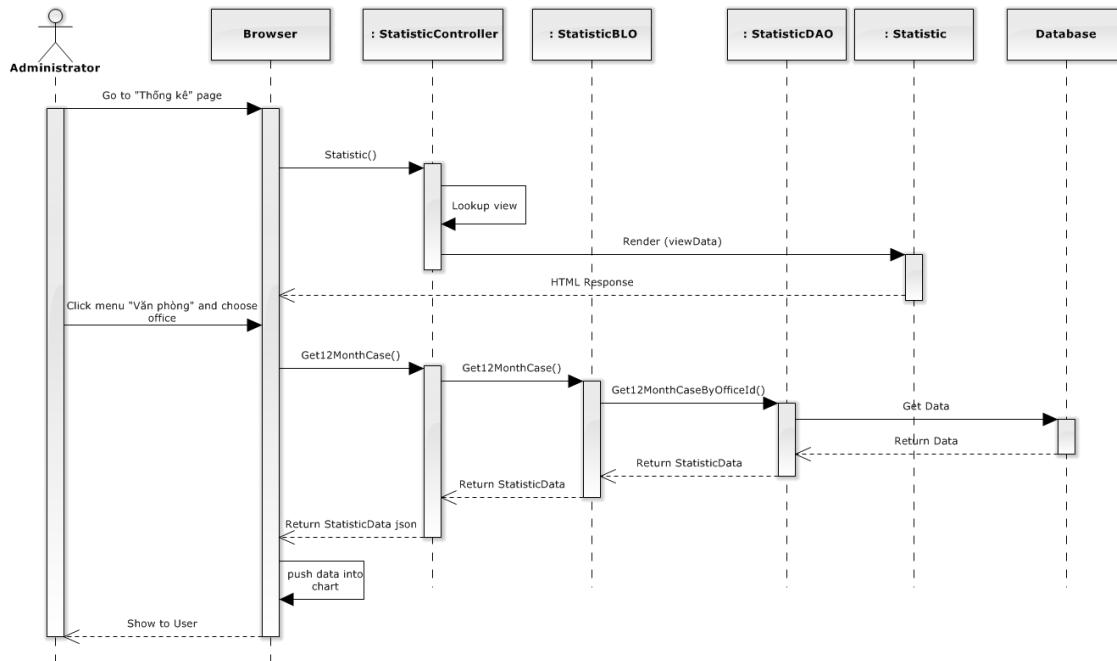


Figure 4-150: Office Statistic in year sequence diagram

4.3.18.3. Office statistic last year

4.3.18.3.1. Screen design

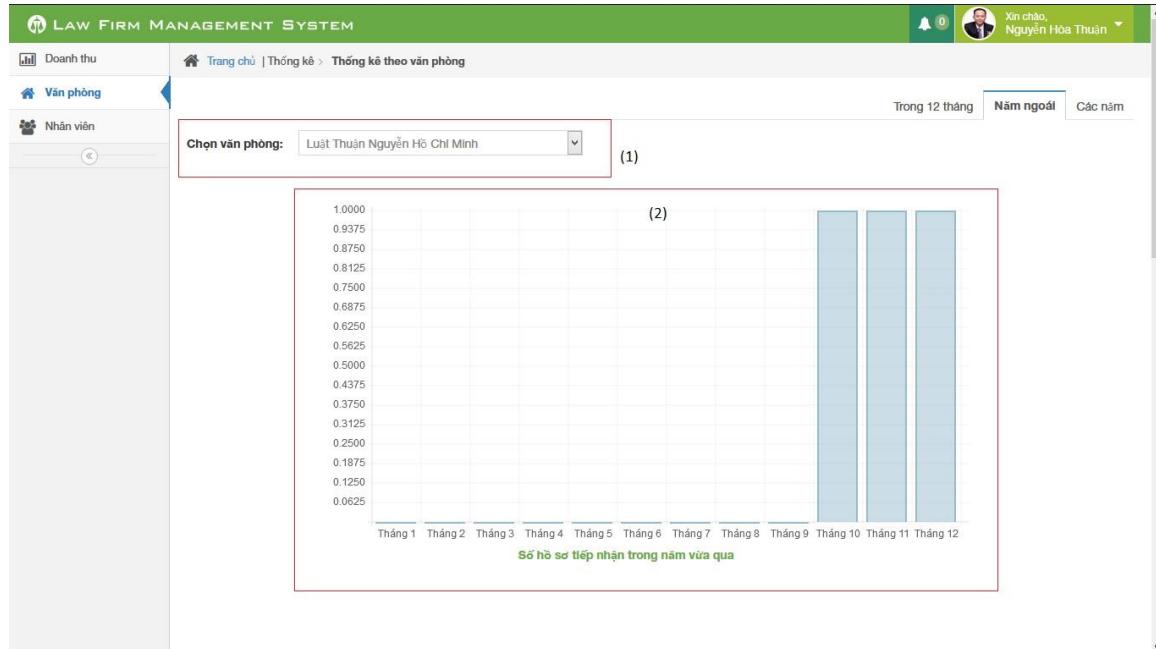


Figure 4-151: Office Statistic last year image

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng	Combo box	Yes	Click to choose name of office
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.3.2. Sequence diagram

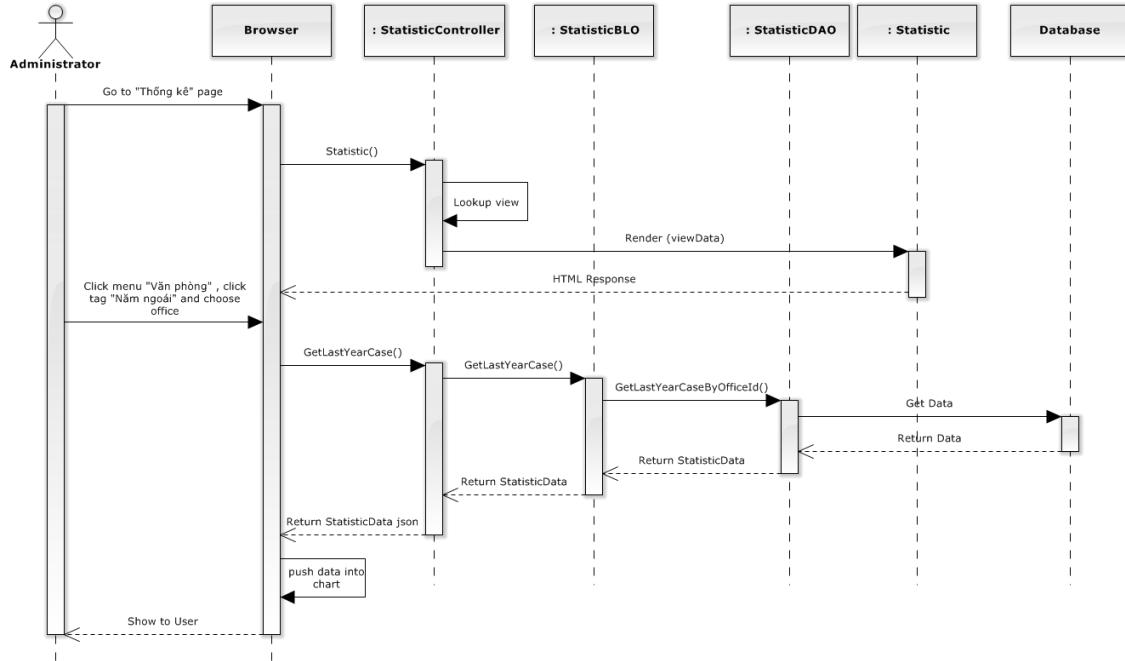


Figure 4-152: Office Statistic last year sequence diagram

4.3.18.4. Office statistic in every year

4.3.18.4.1. Screen design

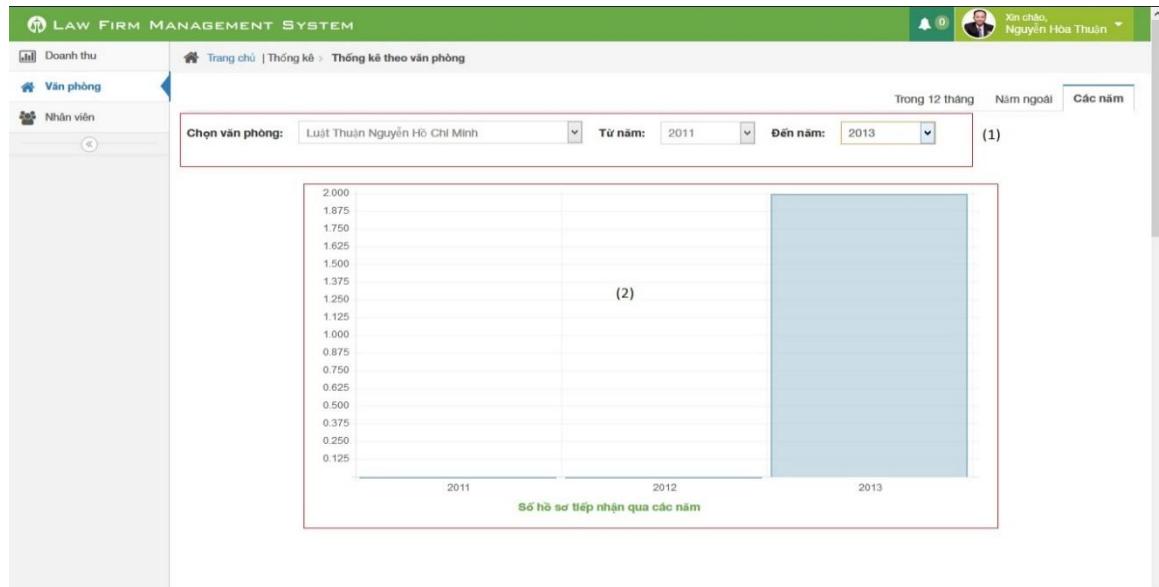


Figure 4-153: Office Statistic in every year image

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng từ năm đến năm	Combo box	Yes	Click to choose name of office with from year and to year
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.4.2. Sequence diagram

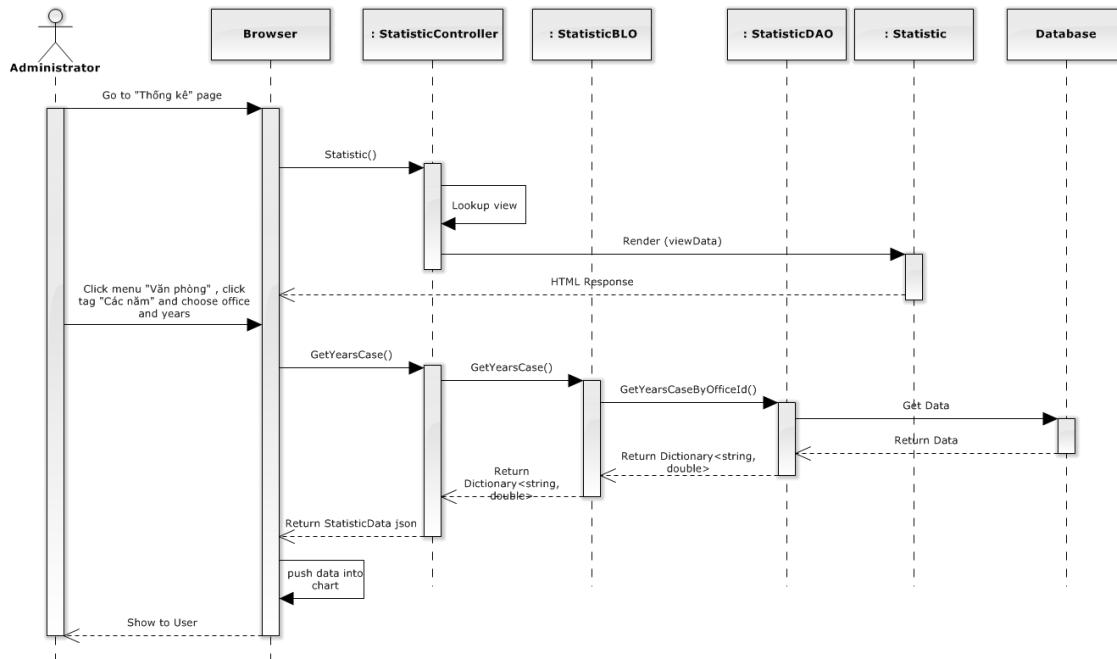


Figure 4-154: Office Statistic in every year sequence diagram

4.3.18.5. Staff statistic

4.3.18.5.1. Screen design

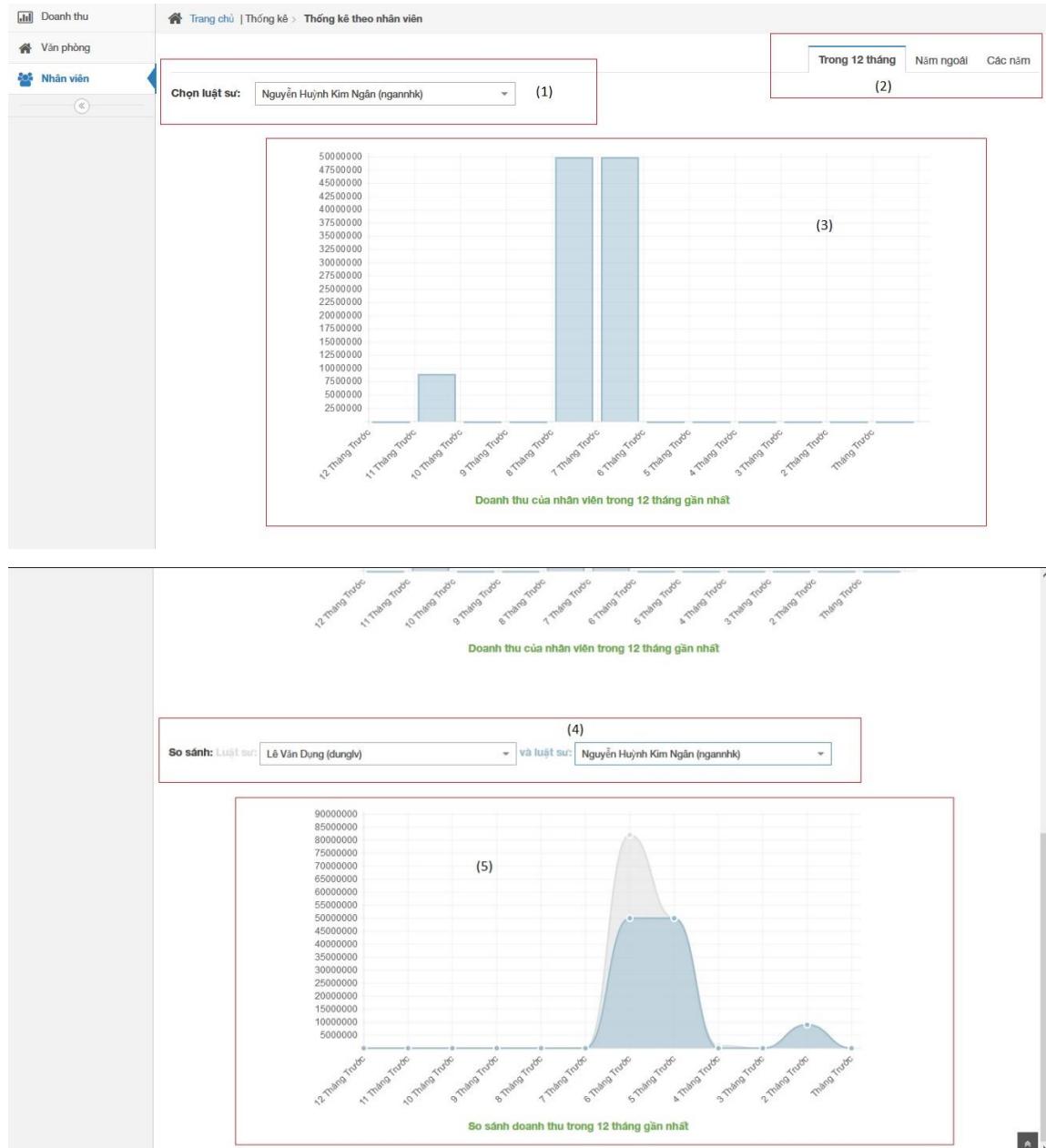


Figure 4-155: Staff Statistic image

No	Object/Control Name	Type	Required	Description
1	Chọn luật sư	Combo box	Yes	Click to choose name of staff
2	Tab statistic	Link	Yes	Click to choose tab of statistic
3	Bar chart	Image	Yes	Image display of Bar chart
4	Select name staff	Combo box	Yes	Select name for comparison staff
5	Comparison chart	Image	Yes	Image display of Bar chart

4.3.18.5.2. Sequence diagram

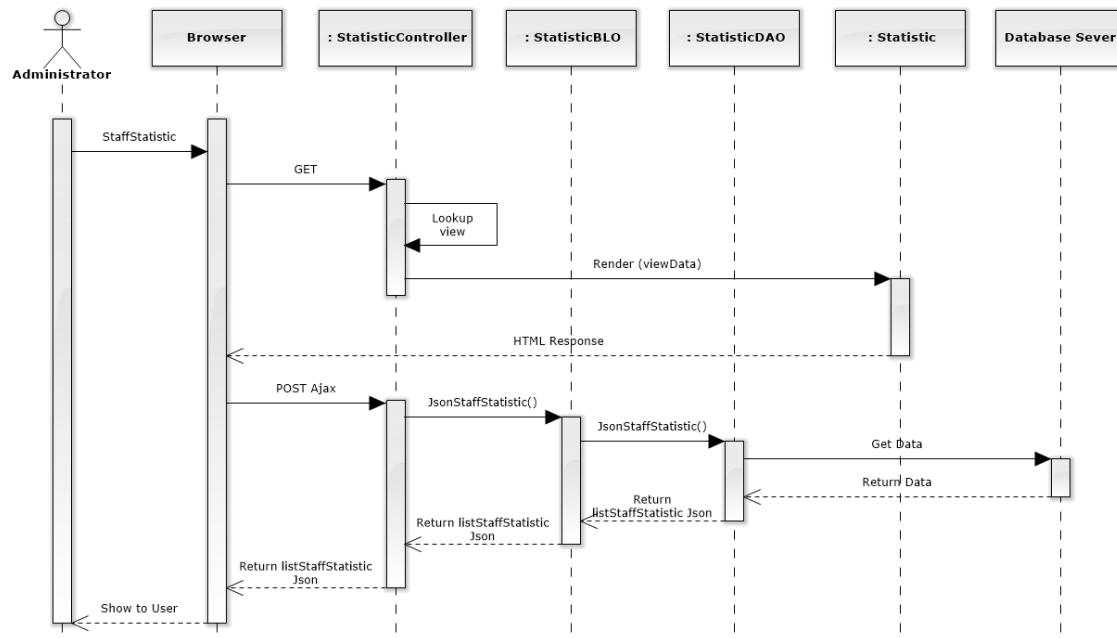


Figure 4-156: Staff Statistic Sequence Diagram

4.3.18.6. Staff statistic in year

4.3.18.6.1. Screen design

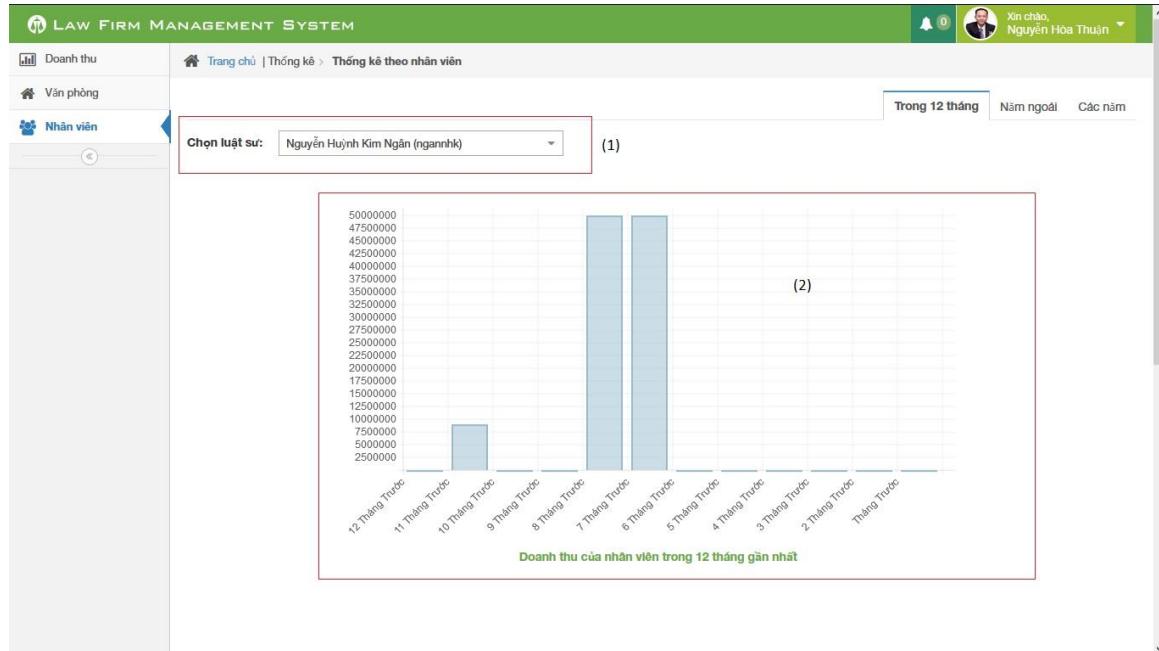


Figure 4-157: Staff Statistic in year image

No	Object/Control Name	Type	Required	Description
1	Chọn luật sư	Combo box	Yes	Click to choose name of lawyer
2	Bar chart	Image	Yes	Image display of Bar chart

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4.3.18.6.2. Sequence diagram

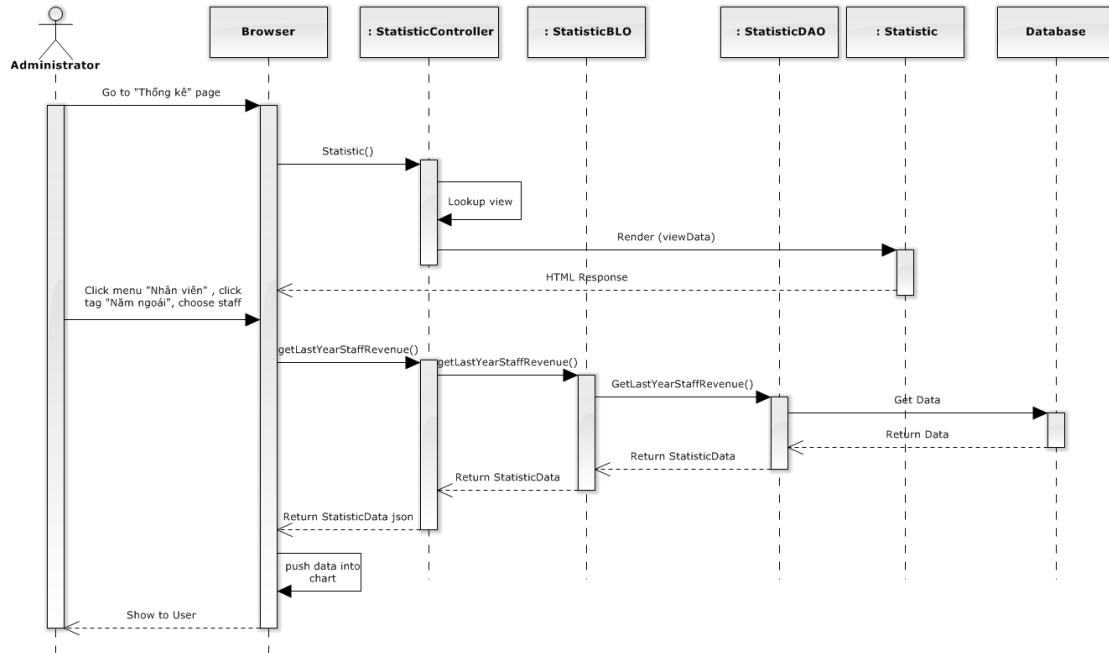


Figure 4-158: Staff Statistic in year sequence diagram

4.3.18.7. Staff statistic in last year

4.3.18.7.1. Screen design

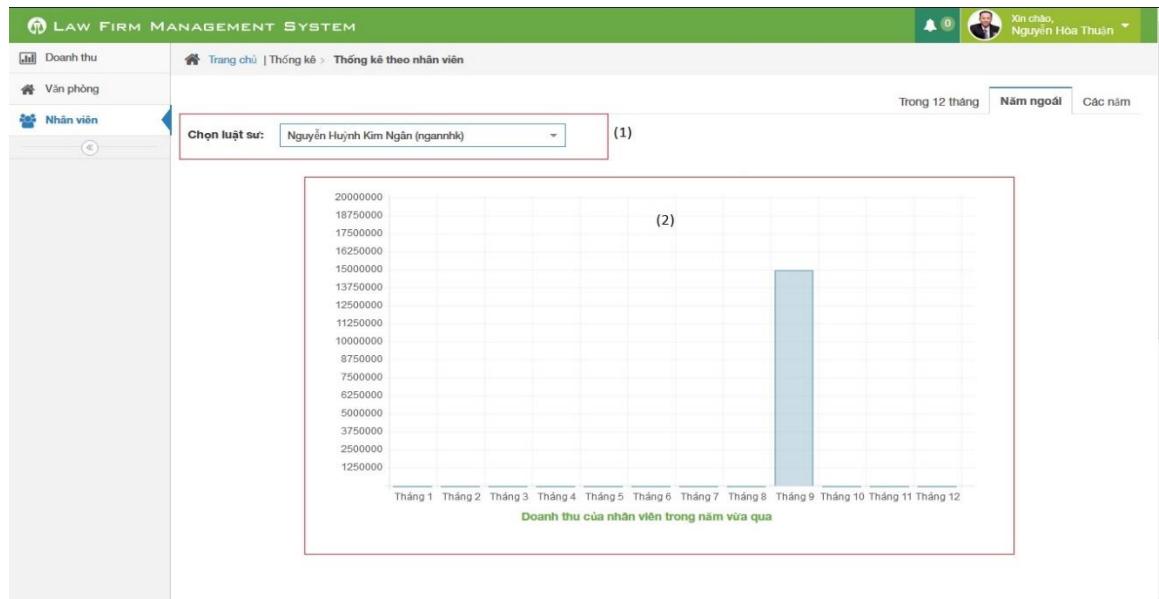


Figure 4-159: Staff Statistic in last year image

No	Object/Control Name	Type	Required	Description
1	Chọn luật sư	Combo box	Yes	Click to choose name of lawyer
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.7.2. Sequence diagram

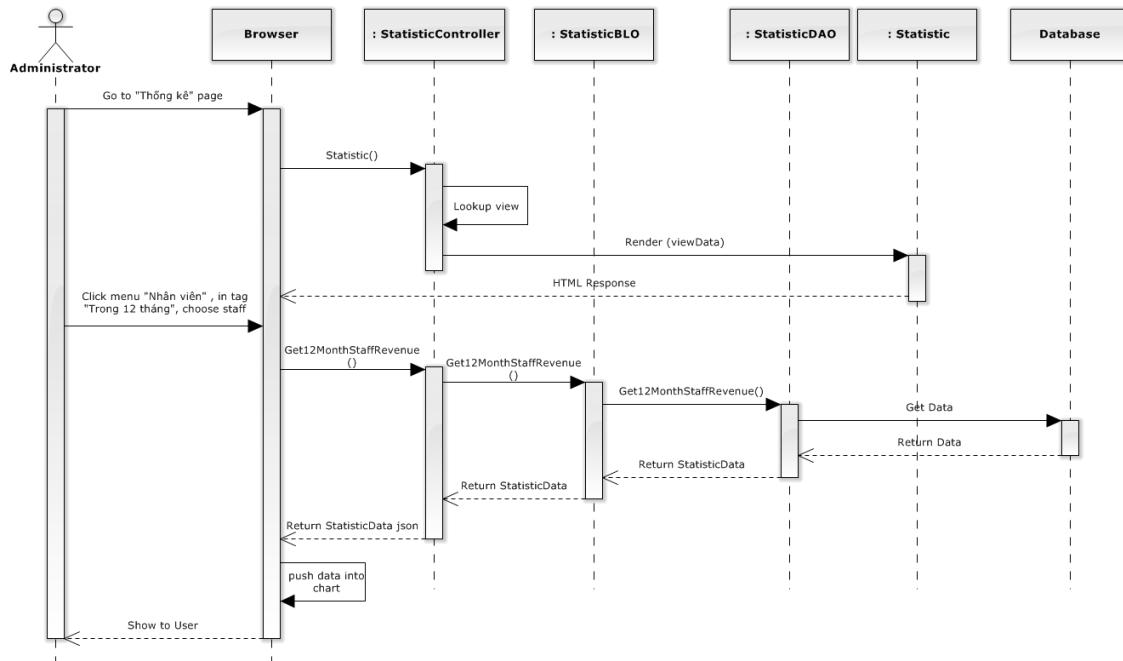


Figure 4-160: Staff Statistic in last year sequence diagram

4.3.18.8. Staff statistic in every year

4.3.18.8.1. Screen design

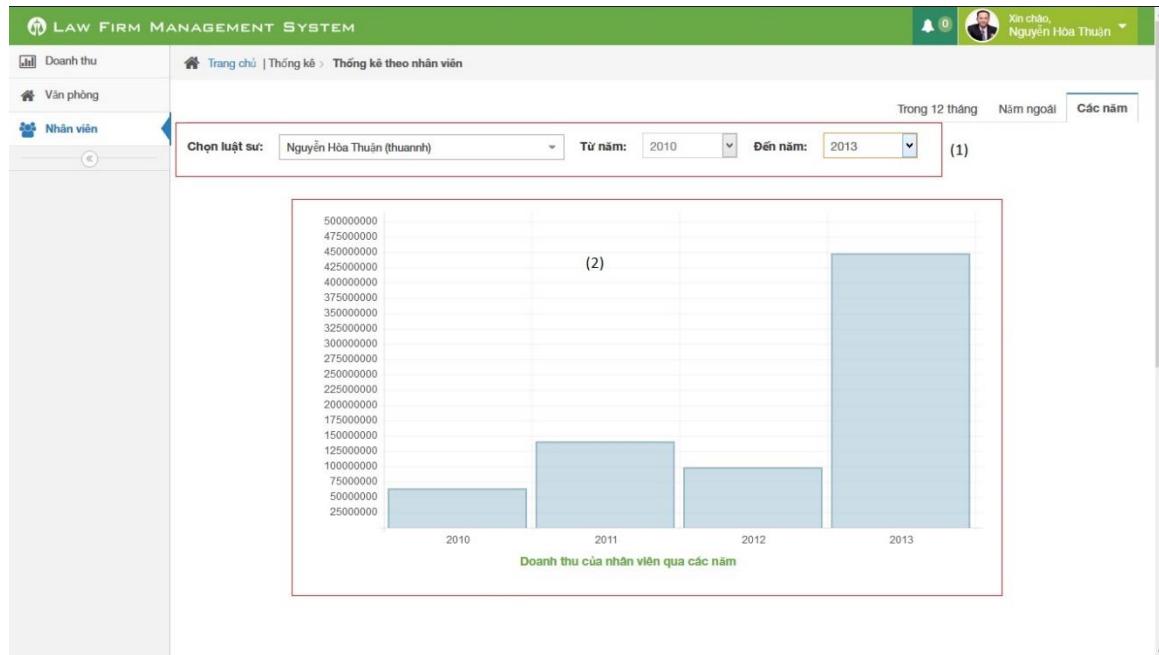


Figure 4-161: Staff Statistic in every year image

No	Object/Control Name	Type	Required	Description
1	Chọn luật sư từ năm đến năm	Combo box	Yes	Click to choose name of lawyer with from year and to year
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.8.2. Sequence diagram

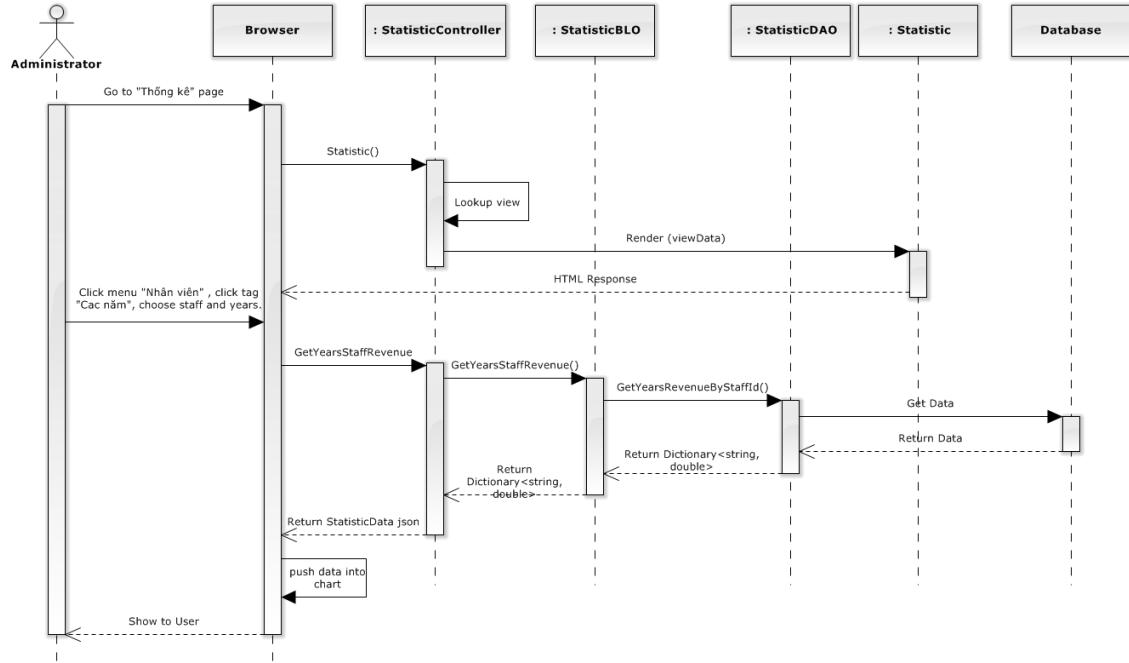


Figure 4-162: Staff Statistic in every year sequence diagram

4.3.18.9. Revenue statistic

4.3.18.9.1. Screen design

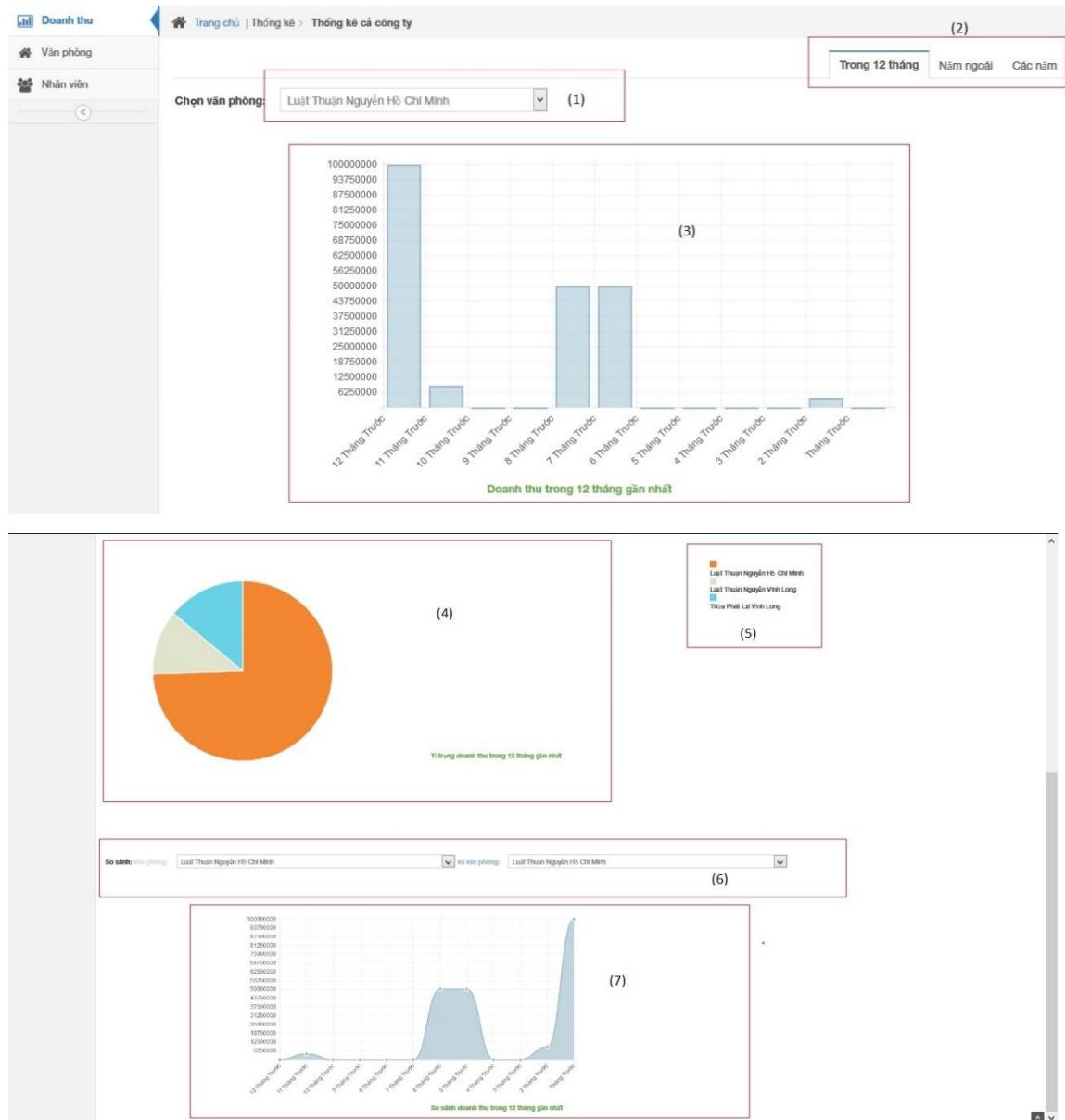


Figure 4-163: Revenue Statistic image

Capstone Project: LFMS

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng	Combo box	Yes	Click to choose name of office
2	Tab statistic	Link	Yes	Click to choose tab of statistic
3	Bar chart	Image	Yes	Image display of Bar chart
4	Pie chart	Image	Yes	Image display of Bar chart
5	Name office	Text	Yes	Name of office
6	Select name office	Combo box	Yes	Select name for comparison office
7	Comparison chart	Image	Yes	Image display of Bar chart

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4.3.18.9.2. Sequence diagram

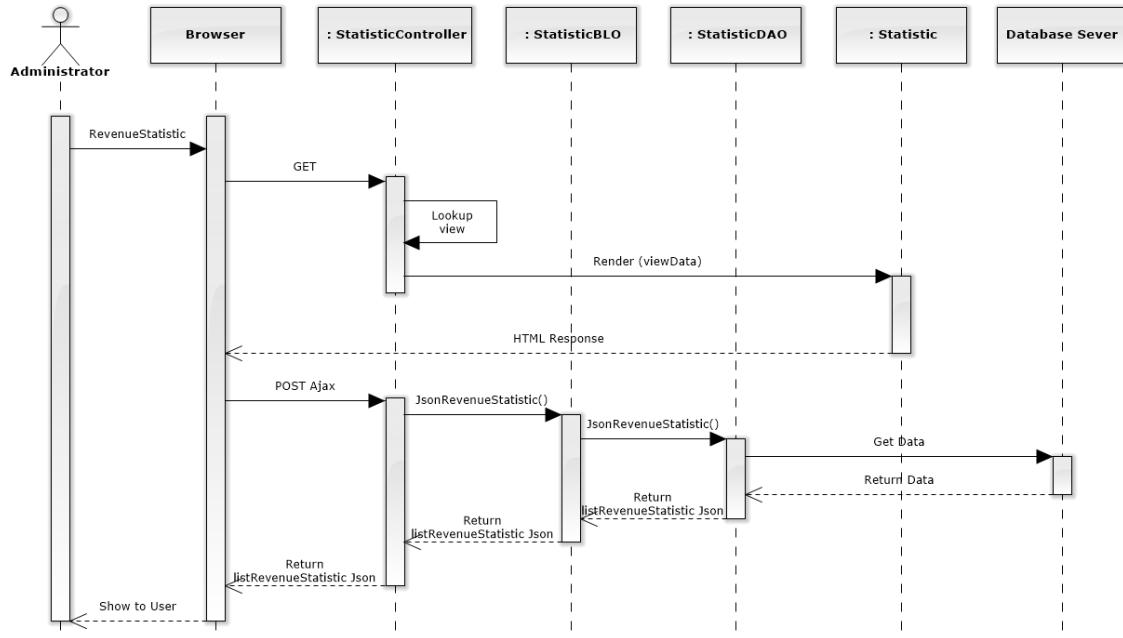


Figure 4-164: Revenue Statistic Sequence Diagram

4.3.18.10. Revenue statistic in year

4.3.18.10.1. Screen design

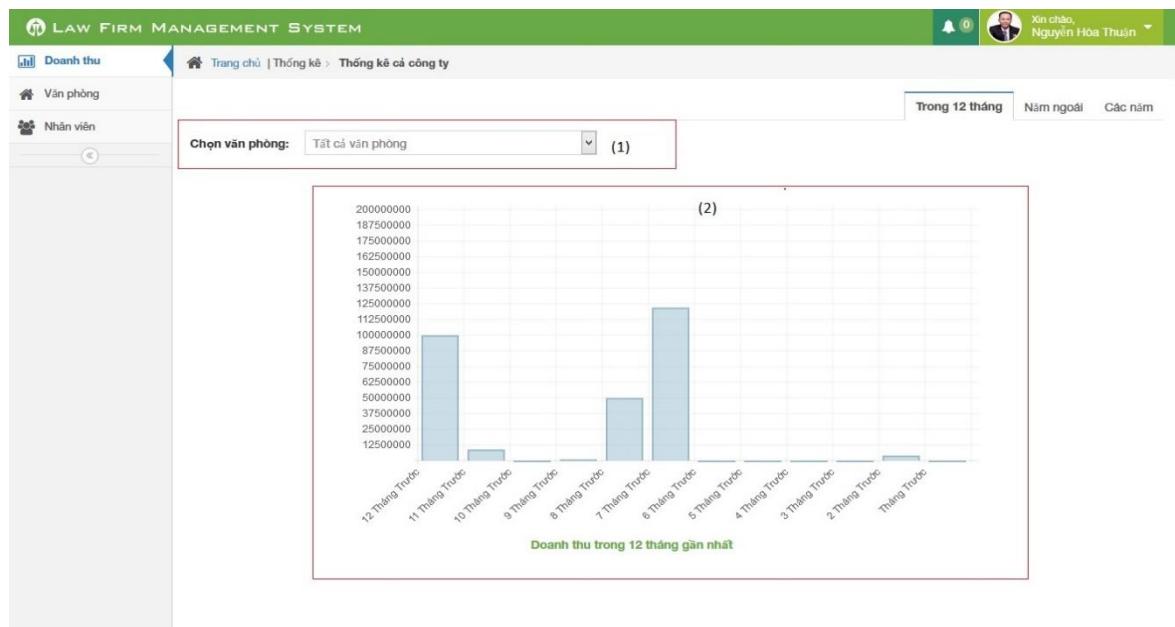


Figure 4-165: Revenue Statistic in year image

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng	Combo box	Yes	Click to choose name of office
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.10.2. Sequence diagram

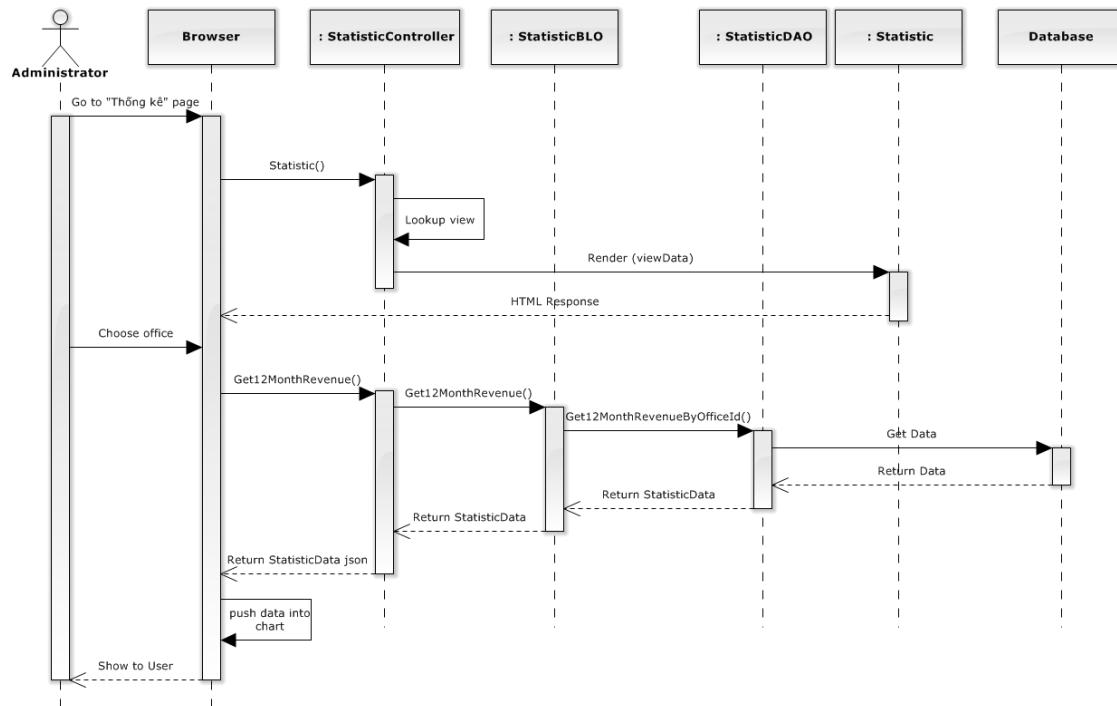


Figure 4-166: Revenue Statistic in year sequence diagram

4.3.18.11. Revenue statistic in last year

4.3.18.11.1. Screen design

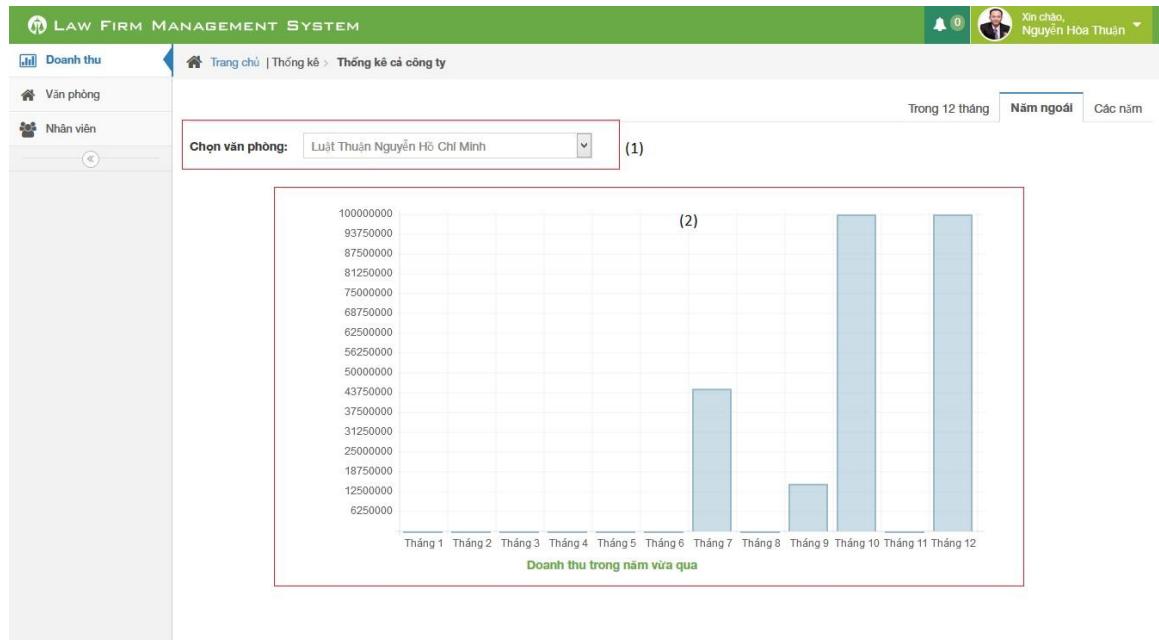


Figure 4-167: Revenue Statistic in last year image

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng	Combo box	Yes	Click to choose name of office
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.11.2. Sequence diagram

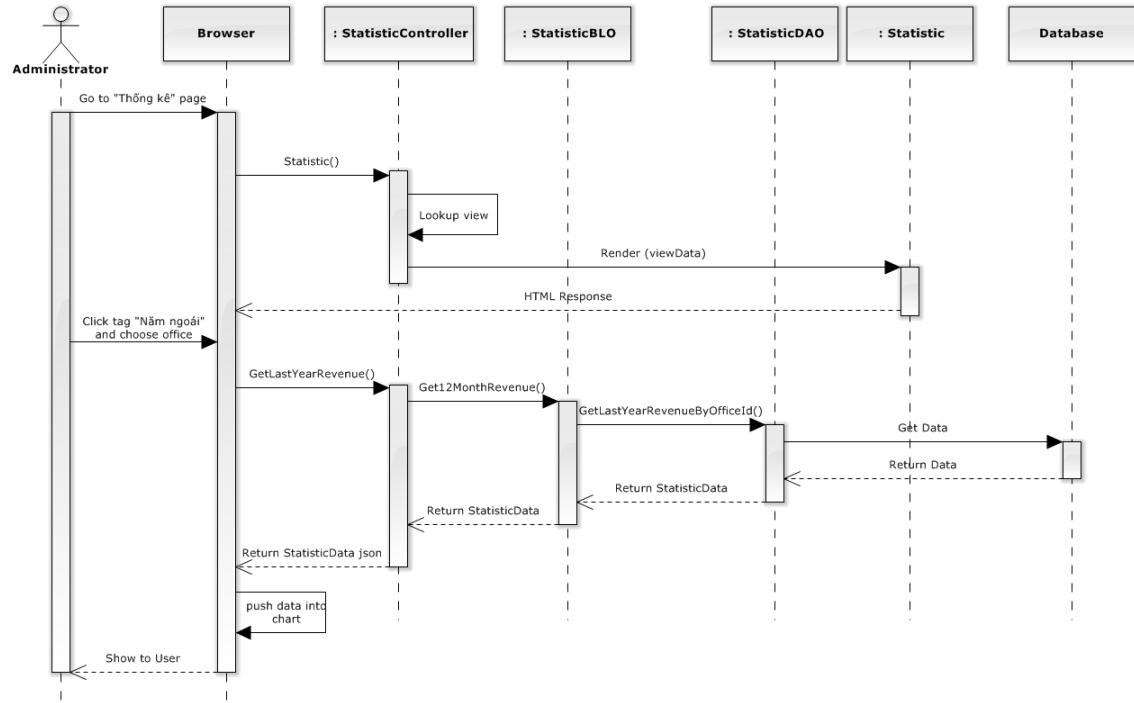


Figure 4-168: Revenue Statistic in last year sequence diagram

4.3.18.12. Revenue statistic in every year

4.3.18.12.1. Screen design

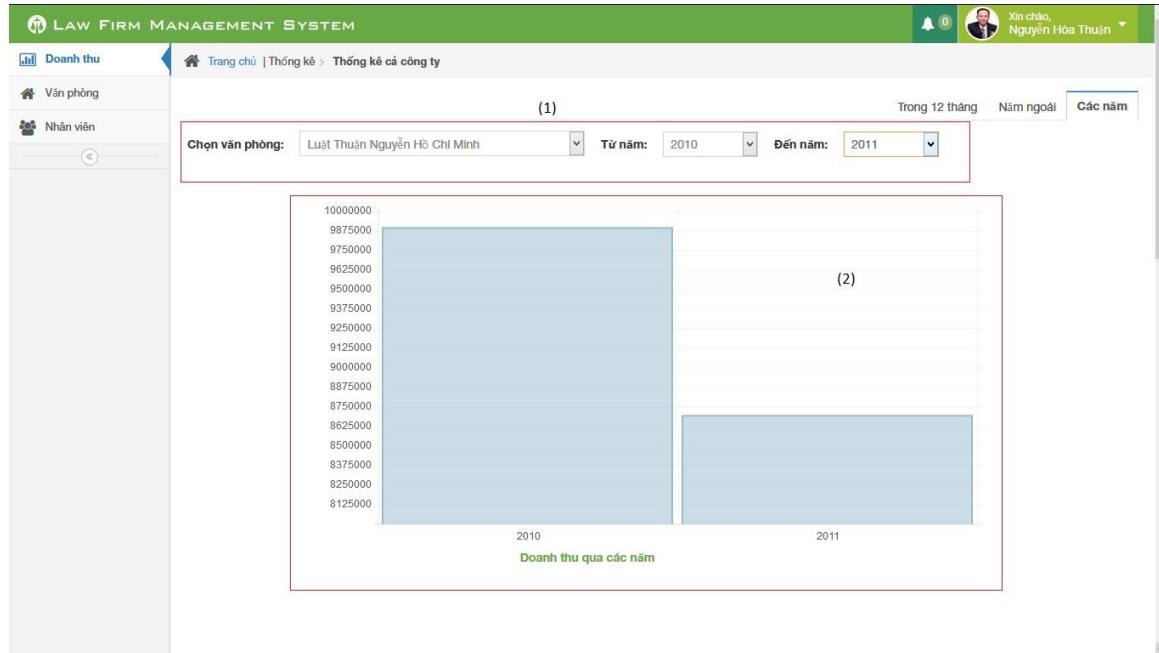


Figure 4-169: Revenue Statistic in every year image

No	Object/Control Name	Type	Required	Description
1	Chọn văn phòng từ năm đến năm	Combo box	Yes	Click to choose name of office with from year and to year
2	Bar chart	Image	Yes	Image display of Bar chart

4.3.18.12.2. Sequence diagram

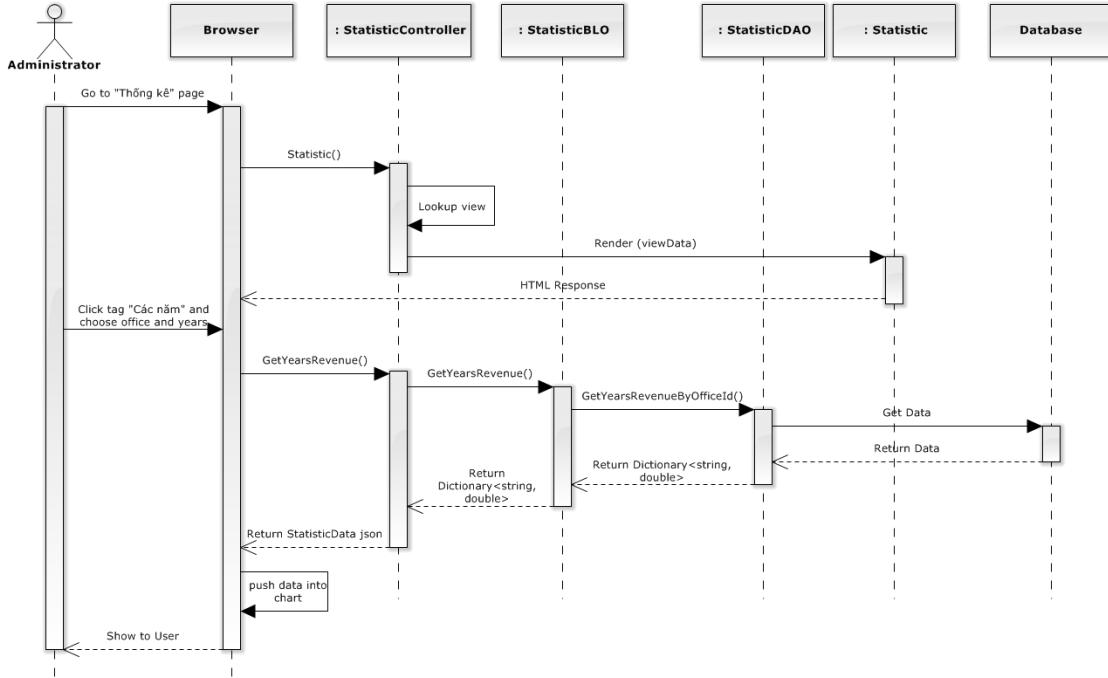


Figure 4-170: Revenue Statistic in every year sequence diagram

4.4. Database Design

4.4.1. Relational Database Diagram

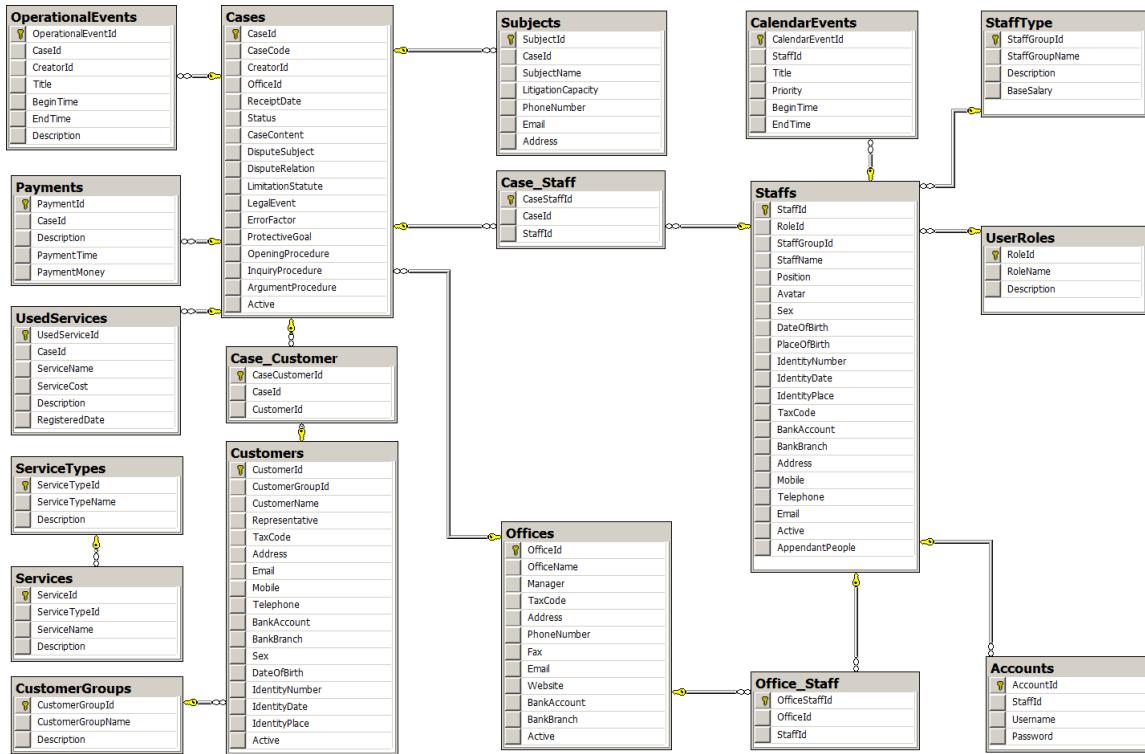


Figure 4-171: Relational Database Diagram

4.4.2. Table Dictionary

4.4.2.1. Cases Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
CaseId	int		PK	
CaseCode	nvarchar(50)			Mã hồ sơ
CreatorId	int		FK	
OfficeId	int		FK	
ReceiptDate	date			Ngày thụ lý

Status	nvarchar(50)			Trạng thái hồ sơ
CaseContent	nvarchar(MAX)			Nội dung
DisputeSubject	nvarchar(MAX)	x		Đối tượng tranh chấp
DisputeRelation	nvarchar(MAX)	x		Quan hệ tranh chấp
LimitationStatute	nvarchar(MAX)	x		Thời hiệu
LegalEvent	nvarchar(MAX)	x		Sự kiện pháp lý
ErrorFactor	nvarchar(MAX)	x		Yếu tố lỗi
ProtectiveGoal	nvarchar(MAX)	x		Mục tiêu bảo vệ
OpeningProcedure	nvarchar(MAX)	x		Phần thủ tục bắt đầu
InquiryProcedure	nvarchar(MAX)	x		Phần thủ tục xét hỏi
ArgumentProcedure	nvarchar(MAX)	x		Phần tranh luận
Active	bit			

4.4.2.2. OperationEvents Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
OperationalEventId	int		PK	
CaseId	int		FK	
CreatorId	int		FK	

Title	nvarchar(100)			Tiêu đề
BeginTime	datetime			Thời gian bắt đầu
EndTime	datetime			Thời gian kết thúc
Description	nvarchar(MAX)	x		Mô tả nội dung

4.4.2.3. Subjects Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
SubjectId	int		PK	
CaseId	int		FK	
SubjectName	nvarchar(50)			Tên chủ đề
LitigationCapacity	nvarchar(50)			Tư cách tố tụng
PhoneNumber	nvarchar(20)	x		Số điện thoại
Email	nvarchar(50)	x		Hòm thư
Address	nvarchar(100)	x		Địa chỉ

4.4.2.4. UsedServices Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
UsedServiceId	int		PK	
CaseId	int		FK	
ServiceName	nvarchar(50)			Tên dịch vụ sử dụng

ServiceCost	int			Chi phí của dịch vụ
RegisteredDate	date			Ngày đăng ký dịch vụ
Description	nvarchar(MAX)			Mô tả chi tiết

4.4.2.5. Payments Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
PaymentId	int		PK	
CaseId	int		FK	
Description	nvarchar(MAX)			Mô tả chi tiết
PaymentTime	datetime			Thời gian thanh toán
PaymentMoney	int			Số tiền thanh toán

4.4.2.6. Staffs Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
StaffId	int		PK	
StaffGroupId	int		FK	
StaffName	nvarchar(50)			Tên nhân viên
Position	nvarchar(50)	x		Chức vụ
Avatar	nvarchar(100)	x		Đường dẫn ảnh đại diện
Sex	nvarchar(30)	x		Giới tính

DateOfBirth	date			Ngày sinh
PlaceOfBirth	nvarchar(100)	x		Nơi sinh
IdentityNumber	nvarchar(12)			Số CMND
IdentityDate	date			Ngày cấp
IdentityPlace	nvarchar(50)			Nơi cấp
TaxCode	nvarchar(14)	x		Mã số thuế
BankAccount	nvarchar(20)	x		Số TK ngân hàng
BankBranch	nvarchar(50)	x		Chi nhánh ngân hàng
Address	nvarchar(100)			Địa chỉ
Mobile	nvarchar(20)			Số di động
Telephone	nvarchar(20)	x		Số máy bàn
Email	nvarchar(50)			Hòm thư
Active AppendantPeople	bit int	x		Người phụ thuộc

4.4.2.7. StaffType Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
StaffGroupId	int		PK	
StaffGroupName	nvarchar(50)			Tên nhóm nhân viên
Description	nvarchar(MAX)	x		Mô tả chi tiết
BaseSalary	float	x		Lương cơ bản

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4.4.2.8. UserRoles Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
RoleId	int		PK	
RoleName	nvarchar(50)			Tên vai trò
Description	nvarchar(MAX)	x		Mô tả chi tiết

4.4.2.9. Accounts Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
AccountId	int		PK	
StaffId	int		FK	
RoleId	int		FK	
Username	nvarchar(50)			Tên đăng nhập
Password	nvarchar(50)			Mật khẩu

4.4.2.10. CalendarEvents Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
CalendarEventId	int		PK	
StaffId	int		FK	
Title	nvarchar(100)			Tiêu đề
Priority	nvarchar(50)			Mức độ ưu tiên
BeginTime	datetime			Thời gian bắt đầu

EndTime	datetime			Thời gian kết thúc
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4.4.2.11. Customers Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
CustomerId	int		PK	
CustomerGroupId	int		FK	
CustomerName	nvarchar(50)			Tên khách hàng
Representative	nvarchar(50)	x		Người đại diện
TaxCode	nvarchar(14)	x		Mã số thuế
Address	nvarchar(100)			Địa chỉ
Email	nvarchar(50)			Hòm thư
Mobile	nvarchar(20)			Số di động
Telephone	nvarchar(20)	x		Số máy bàn
BankAccount	nvarchar(20)	x		Số TK ngân hàng
BankBranch	nvarchar(50)	x		Chi nhánh ngân hàng
Sex	nvarchar(20)	x		Giới tính
DateOfBirth	date	x		Ngày sinh
IdentityNumber	nvarchar(12)	x		Số CMND
IdentityDate	date	x		Ngày cấp
IdentityPlace	nvarchar(50)	x		Nơi cấp
Active	bit			

4.4.2.12. CustomerGroups Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
CustomerGroupId	int		PK	
CustomerGroupName	nvarchar(50)			Tên nhóm khách hàng
Description	nvarchar(MAX)	x		Mô tả chi tiết

4.4.2.13. Offices Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
OfficeId	int		PK	
OfficeName	nvarchar(100)			Tên văn phòng
Manager	nvarchar(50)			Quản lý
TaxCode	nvarchar(14)	x		Mã số thuế
Address	nvarchar(100)			Địa chỉ
PhoneNumber	nvarchar(20)			Số điện thoại
Fax	nvarchar(20)	x		Số Fax
Email	nvarchar(50)			Hòm thư
Website	nvarchar(50)	x		Địa chỉ web
BankAccount	nvarchar(20)	x		Số TK ngân hàng
BankBranch	nvarchar(50)	x		Chi nhánh ngân hàng
Active	bit			

4.4.2.14. Services Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
ServiceId	int		PK	
ServiceTypeId	int		FK	
ServiceName	nvarchar(50)			Tên dịch vụ
Description	nvarchar(MAX)	x		Mô tả chi tiết

4.4.2.15. ServiceTypes Table

Field Name	Type	Null	P/F Key	Thuật ngữ tiếng Việt
ServiceTypeId	int		PK	
ServiceTypeName	nvarchar(50)			Tên loại dịch vụ
Description	nvarchar(MAX)	x		Mô tả chi tiết

Report No.5: Software Testing

5.1. Introduction

5.1.1. System Overview

- This document describes plan and methods used in testing stage, an important step for grading the quality of product before packaging it.
- Testing group would plan, manage and execute the process of testing. Testers must execute and pass all test cases and technical details of system features.
- The testing group is also the coding group of Law Firm Management System.

5.1.2. Test Approach

The testing of project include unit test system test and acceptance test levels. It is hoped that there will be as less problem as possible in project.

- Unit testing will be done by team member and will be approved by team leader.
- System testing will be performed by all member of team. It will check all main-flow of the system to discover error or bugs that can't be found on unit testing level.
- Acceptance testing will be performed by all members of team and staffs at the Thuan Nguyen Law Firm. The project be checked from the Customer test to find out if the project in accordance with the expectations of Customer. The acceptance test will be done for a period of 2 weeks after completion of the System test process. Programs will enter into Acceptance test after all critical and major defects have been corrected. A program may have one major defect as long as it does not obstruct testing of the program. Prior to final completion of acceptance testing all open critical and major defects must be corrected.

5.2. Test plan

5.2.1. Scope of testing

The scope of testing in the project include:

- **Stages of testing:** the team has responsibility to conduct Unite testing, Integration testing and System testing
- **Types of testing:** The test team use functional test, white-box test and user interface testing

- **Range of testing:** Team performs testing all functions defined in the SRS based on the approved version. Test cases of each function are defined in the Test cases document that will be tested to determine if they meet the requirements and intermediate result will also be checked according to the SRS

5.2.2. Requirement for testing

5.2.2.1. Test items

No	Group of functions	Functions
Web module		
UC001	Account control	Login
UC002		Logout
UC003		Change password
UC004	Manage Calendar Event	List calendar events
UC005		Add new calendar event
UC006		Edit calendar event
UC007		Delete calendar event
UC008		Search calendar event
UC009	Manage Case	List all cases
UC0010		Add new case
UC0011		Search case
UC0012	Manage case info	View Case Info
UC0013		Edit case info
UC0014	Manage operation event	List operation events
UC0015		View operation event detail
UC0016		Add new operation event
UC0017		Edit operation event
UC0018		Delete operation event
UC0019		List lawyer related

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UC0020	Manage Lawyer Related	View lawyer related detail
UC0021		Assign lawyer related
UC0022		Remove lawyer related
UC0023		Search lawyer related
UC0024	Manage customer related	List customers related
UC0025		View customer related detail
UC0026		Add customer related
UC0027		Remove customer related
UC0028		Search customer related
UC0029	Manage Subject Related	List subjects related
UC0030		Add new subject related
UC0031		Edit subject related
UC0032		Delete subject related
UC0033	Manage Document Related	View Document Related
UC0034		View Document Related Detail
UC0035		Upload Document Related
UC0036		Edit Document Related
UC0037		Delete Document Related
UC0038		Search Document Related
UC0039	Manage User Service	View User Services
UC0040		Add New User Service
UC0041		Edit User Service
UC0042		Delete User Service
UC0043	Manage Payment	View Payments
UC0044		Add New Payment
UC0045		Edit Payment

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UC0046		Delete Payment
UC0047	Manage Customer	List customers
UC0048		View customer detail
UC0049		Add new customer
UC0050		Edit customer
UC0051		Delete customer
UC0052		Search customer
UC0053	Manage Staff	List staffs
UC0054		View staff detail
UC0055		Add new staff
UC0056		Edit staff
UC0057		Deactive/Active staff
UC0058		Search staff
UC0059		Reset password
UC0060	Manage Service	List services
UC0061		View service detail
UC0062		Add new service
UC0063		Edit service
UC0064		Delete service
UC0065		Search service
UC0066	Statistics	Statistics of revenue by office
UC0067		Statistics of number of case by office
UC0068		Statistics of revenue by staff
UC0069	Manage Office	List offices
UC0070		View office detail
UC0071		Add new office
UC0072		Edit office
UC0073		Deactive/Active office

UC0074		Search office
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Table 5-3: Requirement for testing

5.2.2.2. Acceptance Test Criteria

- Test coverage on system test: $\geq 97\%$
- Test successful coverage: $\geq 97\%$

Number of test cases failed: less than 3% of total test cases

5.2.2.3. Constraints

- Duration of system testing is from 17 November to 9 December
- Testing team require 2 members

5.2.2.4. Risk list

The project could face with some risks:

- Lack of human resource
- Not enough test case cover for business project

5.2.3. Test strategy

5.2.3.1. Test policy

- “Test without good faith”
- “Find bugs as soon as possible and always make sure they have been fixed”
- “No outstanding high severity faults”
- “Ensuring the product covers key features and attributes requirements”
- “Each primary function has at least one test case”
- “Focus on main function”
- “If any test fails we need to test again”
- “Using valid and invalid data”

5.2.3.2. Test Model

Using V-Model to implement testing process

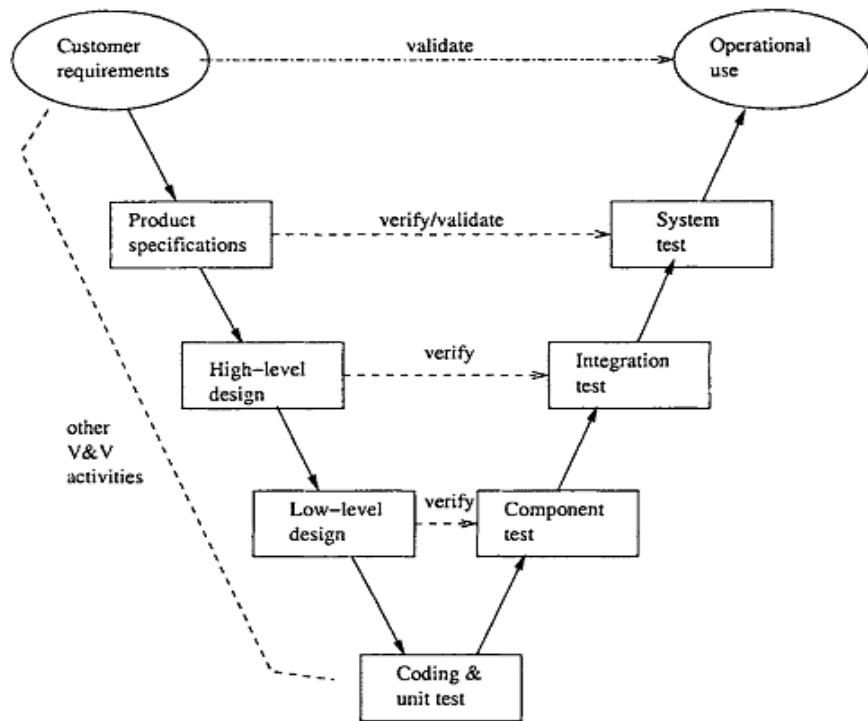


Figure 5-1: V-Model to implement testing process

Due to scope of LFMS project and project must always fulfill user requirements. With V-Model, software development is separated into two appropriate phases' groups: development and testing. Testing phase is carried out simultaneously from the early of project, the requirement specification phase. Therefore, tester could study and understand the entire requirement as well as business of project

Moreover, there are many variations among planning, design and implementation during the whole project. To catch up with all changes and ensure logic as well as business, V-model is chose as a solution to help testers control and follow the actual workflows.

This testing is executed to ensure that all requirements mentioned in SRS, included both functional requirements and non-functional requirements which are implemented correctly.

- **Technique:**
 - **Integration test:** Base on requirement in SRS and validation in database, test team will test as black box testing method to check if the input and output display as expected and does that flow work fluently
 - **System testing:** Based on requirements in SRS, test team will create scenarios for system testing (ST) to ensure project's business. In ST, tester will create test cases based on these scenarios and run to verify functional and non-functional requirements.
- **Completion criteria:**
 - All planned test cases have been executed compared with expected result in test cases.
 - System test cases must be green (passed) at least 97%
 - All defects must be logged into test documents and re-tested after it is fixed.
 - All defects, which are accepted by customer or project technical leader and project manager, will be marked as accepted and not be retested.
 - All defects must be resolved or accepted.
 - These criteria will be applied for all test types.
- **Special considerations:**
 - Test databases will be required
 - Testing may be stopped when
 - Time runs out
 - A certain number of defects found
 - Test coverage > 97%
 - Stop when testing becomes unproductive.

5.2.3.3. Type of testing

5.2.3.3.1. Functional Testing

Function testing of the target-of-test should focus on any requirements for test that can be traced directly to use cases or business functions and business rules. The goals of these tests are to verify proper data acceptance, processing, and retrieval, and the appropriate implementation of the business rules. Identified below is an outline of the testing recommended for each application.

Test Objective:	The type of this test is to ensure proper target-of-test functionality, including user interaction, all function defined in specification document implemented correctly.
Technique:	<p>The test team will use use-case testing or checklist-base testing to verify the following:</p> <p>Checking performance of software interface function.</p> <p>The appropriate error or warning messages are displayed when invalid data is used.</p> <p>Each business rule is properly applied.</p>
Completion Criteria:	All test case and checklist have been executed and successful coverage $>= 97\%$.
Special Considerations:	<p>Testing may be stopped when</p> <ul style="list-style-type: none"> • Time runs out • A certain number of defects found • Test coverage $> 97\%$ • Stop when testing becomes unproductive

Table 5-2: Functional testing

5.2.3.3.2. User Interface Testing

User Interface (UI) testing verifies a user's interaction with the software. The goal of UI testing is to ensure that the User Interface provides the user with the appropriate access and navigation through the functions of the target-of-test. In addition, UI testing ensures that the objects within the UI function as expected and conform to corporate or industry standards.

Test Objective:	Verify the following: Navigation through the target-of-test properly reflects business functions and requirements, including window-to-window, field-to-field, and use of access methods (tab keys, mouse movements, accelerator keys)
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Technique:	Use checklist and finite-state machine to create test case.
Completion Criteria:	All test case and checklist have been executed and successful coverage > =97%.

Table 5-3: User Interface testing

5.2.3.4. Test stage

Clearly state the stage in which the test will be executed. Identified below are the stages in which common test are executed

Type of Tests	Stage of Test		
	Unit	Integration	System
Function Test		x	x
User Interface test	x		x
Whitebox test	x		

Table 5-4: Test stages

5.2.3.5. Tools

Purpose	Tool	Vendor/In -house	Version
Access to website	Firefox		
Keep tracking defects	MS Word		Office 2010 & 2013
Test Plan	MS Word		Office 2010 & 2013
Test Case, Test Report	MS Excel		Office 2010 & 2013

Table 5-5: Tools

5.2.3.6. Resources

This table shows the staffing assumptions for the project.

Worker/Doer	Specific Responsibilities/Comments
Trần Anh Tuấn	Manage Test resource and assign test tasks Create Test Plan Review Test Cases Execute Test Create Test Report
Phạm Văn Duy	Execute Test

Table 5-6: Human resource

5.2.3.7. Schedule

Duration of all testing is from 27 October to 9 December

Duration of create test plan, test case and checklist are from 20 October to 3 November

5.3. Test Cases

5.3.1. Login

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Login						
	Steps						
	1. Go to Index page						
	2. Click on “Login” button						

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AU_01	Test Login Blank Field		<p>1. Type url “http://localhost:19442/Login/Login” into location of web browser</p> <p>Go to website Login page</p> <p>2. Click [Đăng nhập] button</p>	<p>1. Login page will be shown</p> <p>2. Login fail and error message is displayed: “Tên đăng nhập hoặc mật khẩu không đúng!”</p>	Pass	17/11/2014	
AU_02	Test Login Successfully		<p>1. Type url “http://localhost:19442/Login/Login” into location of web browser</p> <p>Go to website Login page</p> <p>2. Login account:</p> <ul style="list-style-type: none"> - Input the account into “Tên đăng nhập” example “thuannh” - Input password into “Mật khẩu” example “123456” - Click [Đăng nhập] button 	<p>1. Login page will be shown</p> <p>2. Login succeed and displayed:</p> <ul style="list-style-type: none"> - Login successfully. - [User] page will be shown. 	Pass	17/11/2014	

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AU_03	Test Login with wrong username		<p>1. Type url “http://localhost:19442/Login/Login” into location of web browser</p> <p>Go to website Login page</p> <p>2. Login account:</p> <ul style="list-style-type: none"> - Input the account into “Tên đăng nhập” example “thuannh123” - Input passowrd into “Mật khẩu” example “123456” -Click [Đăng nhập] button 	<p>1. Login page will be shown</p> <p>2. Login fail and displayed message: “Tên đăng nhập hoặc mật khẩu không đúng! ”</p>	Pass	17/11/2014	
AU_04	Test Login with wrong password		<p>1. Type url “http://localhost:19442/Login/Login” into location of web browser</p> <p>Go to website Login page</p> <p>2. Login account:</p> <ul style="list-style-type: none"> - Input the account into “Tên đăng nhập” example “thuannh123” - Input passowrd into “Mật khẩu” example “123456” -Click [Đăng nhập] button 	<p>1. Login page will be shown</p> <p>2. Login fail and displayed message: “Tên đăng nhập hoặc mật khẩu không đúng! ”</p>	Pass	17/11/2014	

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			<p>example “thuannh”</p> <ul style="list-style-type: none"> - Input password into “Mật khẩu” <p>example “123456789”</p> <ul style="list-style-type: none"> - Click [Đăng nhập] button 				
AU_05	Test Login with account is Active	User “thuannh” have status is Active	<p>1. Type url “http://localhost:19442/Login/Login” into location of web browser</p> <p>Go to website Login page</p> <p>2. Login account:</p> <ul style="list-style-type: none"> - Input the account into “Tên đăng nhập” <p>example “thuannh”</p> <ul style="list-style-type: none"> - Input passowrd into “Mật khẩu” <p>example “12345678”</p> <ul style="list-style-type: none"> -Click [Đăng nhập] button 	<p>1. Login page will be shown</p> <p>2. Login fail and displayed message: “Nhân viên đang ngừng hoạt động!”</p>	Pass	17/11/2014	
AU_06	Test Login with error server		<p>1. Type url “http://localhost:19442/Login/Login” into location of web browser</p>	<p>1. Login page will be shown</p>	Pass	17/11/2014	

			<p>Go to website Login page</p> <p>2. Login account:</p> <ul style="list-style-type: none"> - Input the account into “Tên đăng nhập” example “thuannh” - Input passowrd into “Mật khẩu” example “123456” -Click [Đăng nhập] button 	<p>2. Login fail and displayed message: “Lỗi kết nối đến máy chủ!”</p>			
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5.3.2. Logout

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Logout							
Steps							
AU_07	Test Logout	User have login	<p>1. Login account successful</p> <p>2. Logout account:</p> <ul style="list-style-type: none"> -Click on user account in right of the top -Click [Đăng xuất] button 	<p>1. [User] page will be shown</p> <p>2. Logout success and go back to website Login page</p>	Pass	17/11/2014	

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5.3.3. Change Password

ID	Test Case Description	Precondition s	Test Case Procedur e	Expected Output	Resul t	Test Date	Not e
Change Password							
Steps							
AU_08	Test change password screen	User have login	1. Login account successful 2. Go to change password screen: - Click on user account in right of the top -Click [Đổi mật khẩu] button	1. [User] page will be shown 2.“Thay đổi mật khẩu” Popup is displayed correctly Two button [Đổi mật khẩu], [Đóng]	Pass	17/11/2014	
AU_09	Test change password Blank Field	AC_08	1. Login account successful 2. Go to change password screen: - Click on user account in	1. [User] page will be shown 2.“Thay đổi mật khẩu” popup is displayed correctly	Pass	17/11/2014	

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			<p>right of the top -Click [Đổi mật khẩu] button</p> <p>3. Test blank field: Click [Đổi mật khẩu] button in “Thay đổi mật khẩu” popup</p>	<p>Two button [Đổi mật khẩu], [Đóng]</p> <p>3. Error message is displayed : “Hãy nhập lại mật khẩu cũ ” “Hãy nhập mật khẩu mới.” “Hãy nhập lại mật khẩu mới.”</p>			
AU_10	<p>Test change password</p> <p>Input not enough 6 character in field “Mật khẩu mới” and “Lặp lại mật khẩu mới”</p>	AC_08	<p>1. Login account succesful</p> <p>2. Go to change password screen: - Click on user account in right of the top. -Click [Đổi mật khẩu] button</p>	<p>1. [User] page will be shown</p> <p>2.“Thay đổi mật khẩu” popup is displayed correctly</p> <p>Two button [Đổi mật khẩu], [Đóng]</p>	Pass	17/11/2014	

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			3. Change password: -Input “123” to “Mật khẩu mới” text box -Input “123” to “Lặp lại mật khẩu mới” text box	3. Error message is displayed : “Mật khẩu mới phải có ít nhất 6 ký tự.”			
AU_1 1	Test change password Input character in field “Mật khẩu mới” and “Lặp lại mật khẩu mới” diffirent	AC_08	1. Login account succesful 2. Go to change password screen: - Click on user account in right of the top. -Click [Đổi mật khẩu] button 3. Change password: -Input “123456” to “Mật khẩu mới” text box -Input “123567” to “Lặp lại	1. [User] page will be shown 2.“Thay đổi mật khẩu” popup is displayed corectly Two button [Đổi mật khẩu], [Đóng]	Pass	17/11/2014	

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			mật khẩu mới” text box				
AU_1 2	<p>Test change password</p> <p>Input error old password(example: account “thuannh”)</p>	<p>AC_08</p> <p>Old password of user “thuannh” is 123456</p>	<p>1. Login account successful</p> <p>2. Go to change password screen:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. -Click [Đổi mật khẩu] button <p>3. Change password:</p> <ul style="list-style-type: none"> -Input “1234567” to “Mật khẩu cũ” text box -Input “12356” to “Mật khẩu mới” text box -Input “12356” to “Lặp lại mật khẩu mới” text box - Click [Đổi mật 	<p>1. [User] page will be shown</p> <p>2.“Thay đổi mật khẩu” popup is displayed correctly</p> <p>Two button [Đổi mật khẩu], [Đóng]</p> <p>3. Error message is displayed :</p> <p>“Mật khẩu cũ không đúng !”</p>	Pass	17/11/2014	

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			khẩu] button				
AU_1 3	Test change password Successfully(exampl : account “thuannh”)	AC_08 Old password of user “thuannh” is 123456	1. Login account succesful 2. Go to change password screen: - Click on user account in right of the top. -Click [Đổi mật khẩu] button 3. Change password: -Input “123456” to “Mật khẩu cũ” text box	1. [User] page will be shown 2.“Thay đổi mật khẩu” popup is displayed corectly Two button [Đổi mật khẩu], [Đóng]	Pass	17/11/201 4	

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			<ul style="list-style-type: none"> -Input “123567” to “Mật khẩu mới” text box -Input “123567” to “Lắp lại mật khẩu mới” text box - Click [Đổi mật khẩu] button 	<p>khẩu nhân viên thành công!”</p> <p>New password of user “thuannh” is 1234567</p>			
AU_1 4	Test change password Close button	AC_08	<ol style="list-style-type: none"> 1. Login account succesful 2. Go to change password screen: <ul style="list-style-type: none"> - Click on user account in right of the top. -Click [Đổi mật khẩu] button 3. Close “Thay đổi mật khẩu” popup: Click [Đóng] button or “X” button 	<p>1. [User] page will be shown</p> <p>2.“Thay đổi mật khẩu” Popup is displayed corectly</p> <p>Two button [Đổi mật khẩu], [Đóng]</p> <p>3. “Thay đổi mật khẩu” Popup is closed</p>	Pass	17/11/2014	

5.3.4. View Home

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Home							
Steps <ol style="list-style-type: none"> 1. User have login into system. 2. Click “Law Firm Management System” in page website header. 							
AU_1	Test View Home	User have login	1. Login account successful 2. Go to view Home page: Click [Law Firm Management System] in page website header.	1. [User] page will be shown 2. [Home] page will be shown	Pass	17/11/2014	

5.3.5. Manage Calendar Event

5.3.5.1. List Calendar Events

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List calendar events							
Steps <ol style="list-style-type: none"> 1. Go to Calendar Event page. 2. Click on [Lịch làm việc] tab. 							
LE_1	Test List calendar events	User have login	1. Login account successful	1. [User] page will be shown	Pass	18/11/2014	

			2. Go to view list calendar events page: Click on [Lịch làm việc] tab	2. List calendar events will be shown			
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5.3.5.2. Add New Calendar Event

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Calendar Event							
Steps							
CE_01	Test Add new calendar event	User have login	1. Login account successful 2. Go to list calendar events page: Click on [Lịch làm việc] tab 3. Add new calendar event: Click and drag at calendar, input event name and press “Xác nhận” button	1. [User] page will be shown 2. List calendar events will be shown 3. Event is created	Pass	18/11/2014	

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CE_02	Test Add new calendar event	User have login	<p>1. Login account succesful</p> <p>2. Go to list calendar events page:</p> <p>Click on [Lịch làm việc] tab</p> <p>3. Add new calendar event:</p> <p>Drag and drop an event tag to calendar, input event name and press “Xác nhận” button</p>	<p>1. [User] page will be shown</p> <p>2. List calendar events will be shown</p> <p>3. Event is created</p>	Pass	18/11/2014	
CE_03	Test Cancel add new calendar event	User have login	<p>1. Login account succesful</p> <p>2. Go to list calendar events page:</p> <p>Click on [Lịch làm việc] tab</p> <p>3. Cancel add new calendar event:</p> <p>Click and drag at calendar, input event name and press “Bỏ qua” button or “X” button</p>	<p>1. [User] page will be shown</p> <p>2. List calendar events will be shown</p> <p>3. Confirm pop-up is closed</p>	Pass	18/11/2014	

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CE_04	Test Cancel add new calendar event	User have login	<p>1. Login account succesful</p> <p>2. Go to list calendar events page:</p> <p>Click on [Lịch làm việc] tab</p> <p>3. Cancel add new calender event:</p> <p>Drag and drop an event tag to calendar, input event name and press “BỎ QUÁ” button or “X” button</p>	<p>1. [User] page will be shown</p> <p>2. List calendar events will be shown</p> <p>3. Confirm pop-up is closed</p>	Pass	18/11/2014	
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5.3.5.3. Edit Calendar Event

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Calendar Event							
Steps							
			<p>1. Go to Calendar Event page</p> <p>2. Click on [Lịch làm việc] tab</p>				
EE_01	Test Edit calendar event	User have login	<p>1. Login account succesful</p> <p>2. Go to list calendar events page:</p> <p>Click on [Lịch làm việc] tab</p> <p>3. Edit calendar event:</p>	<p>1. [User] page will be shown</p> <p>2. List calendar events will be shown</p>	Pass	18/11/2014	

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			Click at event name, input edit name and press “Lưu” button	3. Event is edited			
EE_03	Test Cancel Edit calendar event	User have login	<p>1. Login account succesful</p> <p>2. Go to list calendar events page:</p> <p>Click on [Lịch làm việc] tab</p> <p>3. Cancel edit calendar event:</p> <p>Click at event name, input edit name and press “Đóng” button or “X” button</p>	<p>1. [User] page will be shown</p> <p>2. List calendar events will be shown</p> <p>3. Edit pop-up is closed</p>	Pass	18/11/2014	

5.3.5.4. Delete Calendar Event

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Calendar Event							
Steps							
	1. Go to Calendar Event page 2. Click on [Lịch làm việc] tab						
EE_01	Test Delete calendar event	User have login	<p>1. Login account succesful</p> <p>2. Go to list calendar events page:</p>	<p>1. [User] page will be shown</p> <p>2. List calendar events will be shown</p>	Pass	18/11/2014	

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			Click on [Lịch làm việc] tab 3. Delete calendar event: Click at event name, press “Xóa Sự Kiện” button	3. Event is deleted			
EE_03	Test Cancel Delete calendar event	User have login	1. Login account successful 2. Go to list calendar events page: Click on [Lịch làm việc] tab 3. Cancel delete calendar event Click at event name, press “Đóng” button or “X” button	1. [User] page will be shown 2. List calendar events will be shown 3. Delete pop-up is closed	Pass	18/11 /2014	

5.3.5.5. Search Calendar Event

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Calendar Event							
Steps							
SE _01	Test Search calendar event	User have login	1. Login account successful 2. Go to list calendar events page:	1. [User] page will be shown 2. List calendar events will be shown	Pass	18/11 /2014	

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			Click on [Lịch làm việc] tab 3. Search calendar event: Click at “Lịch làm việc các luật sư” button, select another account at dropdown menu	3. Search results are displayed			
SE_03	Test Cancel Search calendar event	User have login	1. Login account succesful 2. Go to list calendar events page: Click on [Lịch làm việc] tab 3. Cancel search calendar event: Click at “Lịch làm việc các luật sư” button, select another account at dropdown menu, press “Đóng” button or “X” button	1. [User] page will be shown 2. List calendar events will be shown 3. Search tab is closed	Pass	18/11 /2014	

5.3.6. Manage Case

5.3.6.1. List All Cases

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List All Cases							
Steps							
1. Login the system with “Creator” role 2. Click on Plus button in home or go to “Danh sách hồ sơ” page							
LC_1	Test List all cases	User have login	1. Login account with “Creator” role successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button	1. [User] page will be shown 2. List all cases will be shown	Pass	19/11/2014	

5.3.6.2. Add New Case

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Case							
Steps							
1. Login the system with “Creator” role							

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<p>2. Click on Plus button in home or go to “Danh sách hồ sơ” page and then click on “Thêm hồ sơ tác nghiệp” button</p> <p>3. Input information</p> <p>4. Click on “Thêm mới” button</p>								
CA_01	Test add new case popup screen	Login with “Creator” role	<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen: Click on “Thêm hồ sơ tác nghiệp” button</p>	<p>1. [User] page will be shown</p> <p>2. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Ngày thu lý (datetime picker) - Thuộc văn phòng (dropdown list) - Nội dung (textarea) 	Pass	19/11/2014		
CA_02	Test add new case successfully	CA01	<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen: Click on “Thêm hồ sơ tác nghiệp” button</p>	<p>1. [User] page will be shown</p> <p>2. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Ngày thu lý (datetime picker) - Thuộc văn phòng (dropdown list) 	Pass	19/11/2014		

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				<p>- Nội dung (textarea)</p> <p>3. Add new case: - Input case information - Click on “Thêm mới” button</p>	<p>3. Add new case successful: - System will be create new case - Redirect to case detail page</p>			
CA_03	Test add new case validation	CA01		<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen: Click on “Thêm hồ sơ tác nghiệp” button</p> <p>3. Test add new case validation: - Do not input “Mã hồ sơ”</p>	<p>1. [User] page will be shown</p> <p>2. The modal popup will be show with: - Mã hồ sơ (textbox) - Ngày thu lý (datetime picker) - Thuộc văn phòng (dropdown list) - Nội dung (textarea)</p> <p>3. Error message will be displayed: “Nhập mã hồ sơ!”</p>	Pass	19/11/2014	

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			- Click on “Thêm mới” button				
CA_04	Test add new case validation	CA01	<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen: Click on “Thêm hồ sơ tác nghiệp” button</p> <p>3. Test add new case validation:</p> <ul style="list-style-type: none"> - Input case information, but do not input “Thuộc văn phòng” - Click on “Thêm mới” button 	<p>1. [User] page will be shown</p> <p>2. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Ngày thụ lý (datetime picker) - Thuộc văn phòng (dropdown list) - Nội dung (textarea) <p>3. Error message will be displayed: “Chọn văn phòng!”</p>	Pass	19/11/2014	
CA_05	Test add new case validation	CA01	<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen:</p>	1. [User] page will be shown	Pass	19/11/2014	

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			<p>Click on “Thêm hồ sơ tác nghiệp” button</p> <p>2. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Ngày thụ lý (datetime picker) - Thuộc văn phòng (dropdown list) <p>3. Test add new case validation:</p> <ul style="list-style-type: none"> - Input case information, but do not input “Nội dung” - Click on “Thêm mới” button <p>3. Error message will be displayed: “Nhập nội dung!”</p>			
CA_06	Test add new case validation	CA01	<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen: Click on “Thêm hồ sơ tác nghiệp” button</p>	<p>1. [User] page will be shown</p> <p>2. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Ngày thụ lý (datetime picker) - Thuộc văn phòng (dropdown list) 	Pass	19/11/2014

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			<p>3. Test add new case validation:</p> <ul style="list-style-type: none"> - Input case information, but input “Mã hồ sơ” already exist - Click on “Thêm mới” button 	<p>- Nội dung (textarea)</p> <p>3. Error message will be displayed: “Mã hồ sơ đã tồn tại!”</p>			
CA_07	Test cancel add new case	CA01	<p>1. Login account with “Creator” role successful</p> <p>2. Go to add new case popup screen: Click on “Thêm hồ sơ tác nghiệp” button</p> <p>3. Cancel add new case: Click on “Đóng” button or “X” button</p>	<p>1. [User] page will be shown</p> <p>2. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Ngày thụ lý (datetime picker) - Thuộc văn phòng (dropdown list) - Nội dung (textarea) <p>3. “Thêm hồ sơ tác nghiệp” popup is closed</p>	Pass	19/11/2014	

5.3.6.3. Search Case

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Case							
Steps							
SC_1	Test search cases	User have login	1. Login account with “Creator” role successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Search cases: Input into search textbox example “Tranh chấp”	1. [User] page will be shown 2. List all cases will be shown 3. All result content “Tranh chấp” are displayed	Pass	19/11/2014	

5.3.6.4. Manage Case Detail

5.3.6.4.1. Manage Case Info

5.3.6.4.1.1. View Case Info

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Case Info							
Steps							
VC_1	Test View Case Info	- User logged in - Admin or user is assigned in current case	1. Login account as admin or user account is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail	1. [User] page will be shown 2. List all caes will be shown 3. The page will be show with: - Mã hồ sơ (textbox) - Thuộc văn phòng	Pass	20/11/2014	

			in list all cases	(dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea)			
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5.3.6.4.1.2. Edit Case Info

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Case Info							
Steps							
	1. User logged in system 2. Go to Case Detail page 3. Click on edit icon button 4. Edit information 5. Click on “Lưu chỉnh sửa” button						

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CI_02	Test update case info successfully	CI01	<p>1. Login account as admin or user account is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) 	Pass	20/11/2014	
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			<p>4. Update case info:</p> <ul style="list-style-type: none"> - Click on icon edit button - Edit case info - Click on “Lưu chỉnh sửa” button 	<p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. System will be update case info</p> <p>- A notification will be displayed “Cập nhật thông tin hồ sơ thành công!”</p>			
CI_03	Test update case info validation	CI01	<p>1. Login account as admin or user account is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) 	Pass	20/11/2014	

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				<p>- Thuộc văn phòng (dropdown list)</p> <p>- Ngày thụ lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đối tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Validate update case info:</p> <ul style="list-style-type: none"> - Click on icon edit button - Edit case info, but “Nội dung tranh chấp” textbox is empty - Click on “Lưu chỉnh sửa” button 	<p>4. Error message will be displayed: “Nhập nội dung!”</p>		
CI_04	Test cancel update case info	CI01	1. Login account as admin or user account is assigned in	1. [User] page will be shown	Pass	20/11/2014	

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			<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) 		
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			<p>4. Cancel update case info:</p> <ul style="list-style-type: none"> - Click on icon edit button - Click on “Hủy chỉnh sửa” button 	<p>- Yêu tố lỗi (textarea)</p> <p>4. Two button is hidden</p> <ul style="list-style-type: none"> - All field is read only 			
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5.3.6.4.2. Manage Operation Event

5.3.6.4.2.1. List Operation Events

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Operation Events							
Steps							
LO_1	Test List Operation Events	<ul style="list-style-type: none"> - User logged in - Admin or user is assigned in current case 	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p>	Pass	20/11/2014	

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			<p>hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) 		
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			Click [Sự kiện] button	- Tiêu đề sự kiện (button)			
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5.3.6.4.2.2. View Operation Event Detail

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Operation Events Detail							
<p>Steps</p> <p>1. User logged in system</p> <p>2. Go to Case detail and click [Sự kiện] button</p>							
DO_1	Test View Operation Events Detail	<ul style="list-style-type: none"> - User logged in - Admin or user is assigned in current case 	<ol style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. List all caes will be shown 3. The page will be show with: <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	20/11/2014	

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			<p>in list all cases</p> <ul style="list-style-type: none"> - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to view</p>	<p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) - Tiêu đề sự kiện (button) <p>5. The page will be show all detail information of “Sự kiện”.</p>		
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			operation events detail: Click on “Tiêu đề sự kiện” and “Thời gian sự kiện” button.				
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5.3.6.4.2.3. Add New Operation Event

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Operation Event							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case detail and click [Sự kiện] button 3. Click on edit icon button 4. Click on [Thêm sự kiện] button 5. Input information and click [Tạo sự kiện] button 							
OE_01	Test Add new operation event screen	User have login User assign current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button	1. [User] page will be shown 2. List all caes will be shown	Pass	20/11 /2014	

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			<p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to add new operation event screen: -Click icon [Sửa sự kiện]</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) - Tiêu đề sự kiện (button) 		
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			tác nghiệp] button -Click [Thêm sự kiện] button	5. Popup is displayed correctly Two button [Đóng], [Tạo sự kiện]			
OE _02	Test Add new operation event Blank Field	User have login User assign current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases	1. [User] page will be shown 2. List all caes will be shown 3. The page will be show with: - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list)	Pass	20/11 /2014	

				<p>- Nội dung tranh chấp (textarea)</p> <p>- Đói tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p>		
			<p>4. Go to list operation events:</p> <p>Click [Sự kiện] button</p> <p>5. Go to add new operation event screen:</p> <p>- Click icon [Sửa sự kiện tác nghiệp] button</p> <p>- Click [Thêm sự kiện] button</p> <p>6. Add new operation event with blank field:</p> <p>Click [Tạo sự kiện] button</p>	<p>4. The page will be show with:</p> <p>- Thời gian sự kiện (button)</p> <p>- Tiêu đề sự kiện (button)</p> <p>5. Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo sự kiện]</p> <p>6. Error message is displayed “Hãy chọn thời gian và nhập tiêu đề!”</p>		

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OE_03	Test Add new operation event Add Successfull y	User have login User assign current case	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	20/11 /2014	
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				<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to add new operation event screen: -Click icon [Sửa sự kiện tác nghiệp] button -Click [Thêm sự kiện] button</p> <p>6. Add new operation event - Input all information in all field. -Click [Tạo sự kiện] button</p>	<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. The page will be show with: - Thời gian sự kiện (button) - Tiêu đề sự kiện (button)</p> <p>5. Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo sự kiện]</p> <p>6. Successful message is displayed. “Thêm sự kiện thành công!”</p> <p>New Event is inserted and display on timeline</p>		
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OE_04	<p>Test Add new operation event</p> <p>Close button</p>	<p>User have login</p> <p>User assign current case</p>	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	20/11 /2014	
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			<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to add new operation event screen: -Click icon [Sửa sự kiện tác nghiệp] button -Click [Thêm sự kiện] button</p> <p>6. Close popup add new operation event: Click [Đóng] button</p>	<ul style="list-style-type: none"> - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) - Tiêu đề sự kiện (button) <p>5. Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo sự kiện]</p> <p>6. Popup add new operation event is closed</p> <ul style="list-style-type: none"> - Back to timeline screen. 			
OE _05	Test Add new operation event	User have login User assign current case	1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	20/11 /2014	

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	<p>Input date to start > date to finish</p>	<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) 		
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			<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to add new operation event screen: -Click icon [Sửa sự kiện tác nghiệp] button -Click [Thêm sự kiện] button</p> <p>6. Add new operation event with input date to start > date to finish : - Choose date start “24/10/2014 0:0” and date finish “3/4/2014 0:0” -Click [Áp dụng] button - Click [Thêm mới] textbox</p>	<p>- Yêu tố lỗi (textarea)</p> <p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) - Tiêu đề sự kiện (button) <p>5. Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo sự kiện]</p> <p>6. System can not insert this date because date start > date finish.</p>			
OE _06	<p>Test Add new operation event</p> <p>Input time to start ></p>	<p>User have login</p> <p>User assign current case</p>	<p>1. Login account as admin or user is assigned in current case successful</p>	<p>1. [User] page will be shown</p>	Pass	20/11 /2014	

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	time to finish		<p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to list operation events:</p>	<p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) 		
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			<p>Click [Sự kiện] button</p> <p>5. Go to add new operation event screen:</p> <ul style="list-style-type: none"> - Click icon [Sửa sự kiện tác nghiệp] button - Click [Thêm sự kiện] button <p>6. Add new operation event with input time to start > time to finish :</p> <ul style="list-style-type: none"> - Choose date start “24/10/2014 10:00” and date finish “24/10/2014 09:00” - Click [Áp dụng] button - Click [Thêm mới] textbox 	<p>- Yêu tố lỗi (textarea)</p> <p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) - Tiêu đề sự kiện (button) <p>5. Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo sự kiện]</p> <p>6. System can not insert this date because time start > time finish.</p>			
OE _07	<p>Test Add new operation event</p> <p>Click [Hủy bỏ] button</p>	User have login User assign current case	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p>	Pass	20/11 /2014	

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			<p>or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) 		
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			<p>5. Go to add new operation event screen:</p> <ul style="list-style-type: none"> - Click icon [Sửa sự kiện tác nghiệp] button - Click [Thêm sự kiện] button <p>6. Add new operation event with click [Hủy bỏ] button:</p> <ul style="list-style-type: none"> - Choose date start “24/10/2014 0:0” and date finish “3/4/2014 0:0” - Click [Hủy bỏ] button 	<p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) - Tiêu đề sự kiện (button) <p>5. Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo sự kiện]</p> <p>6. Popup date time picker is closed and back to input screen.</p>		
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5.3.6.4.2.4. Edit Operation Event

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Edit Case Info						
	<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case detail and click [Sự kiện] button 3. Click on edit icon button 4. Click on [Edit] button 5. Input edit information and click [Lưu chỉnh sửa] button 						

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EOE_01	Test update operation event successfully	CI01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	20/11/2014	
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			<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to edit operation event screen: -Click icon [Sửa sự kiện tác nghiệp] button</p> <p>6. Update operation event: - Click icon [edit] button of operation event want to update - Edit operation event information - Click on “Lưu chỉnh sửa” button</p>	<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. The page will be show with:</p> <p>- Thời gian sự kiện (button)</p> <p>- Tiêu đề sự kiện (button)</p> <p>5. Edit operation event screen will be shown</p> <p>6. System will be update operation event</p> <p>- A notification will be displayed “Sửa sự kiện thành công!”</p>			
EOE_02	Test update operation event validation	CI01	1. Login account as admin or user is assigned in	1. [User] page will be shown	Fail	20/11/2014	

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			<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 		
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			<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to edit operation event screen: - Click icon [Sửa sự kiện tác nghiệp] button</p> <p>6. Update operation event with validation: - Click icon [edit] button of operation event want to update - Edit operation event information - “Tiêu đề sự kiện” is empty - “Thời gian sự kiện” is empty - Click on “Lưu chỉnh sửa” button</p>	<p>- Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea)</p> <p>4. The page will be show with: - Thời gian sự kiện (button) - Tiêu đề sự kiện (button)</p> <p>5. Edit operation event screen will be shown</p> <p>6. Error message will be displayed: “Hãy nhập tiêu đề và chọn thời gian cho sự kiện”</p>			
EOE_03	Test cancel update	CI01	1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	20/11/2014	

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	operation event		<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 		
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			<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to edit operation event screen: - Click icon [Sửa sự kiện tác nghiệp] button</p> <p>6. Close popup update operation event: - Click icon [edit] button of operation event want to update - Click on “Đóng” button</p>	<p>- Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea)</p> <p>4. The page will be show with:</p> <p>- Thời gian sự kiện (button) - Tiêu đề sự kiện (button)</p> <p>5. Edit operation event screen will be shown</p> <p>6. Two button is hidden - All field is read only</p>			
EOE_04	Test cancel update operation event with change information	CI01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p>	Pass	20/11/2014	

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			<p>top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to edit operation event screen: -Click icon [Sửa sự kiện]</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. The page will be show with:</p> <ul style="list-style-type: none"> - Thời gian sự kiện (button) 		
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			<p>tác nghiệp] button</p> <p>6. Close popup update operation event with change information:</p> <ul style="list-style-type: none"> - Click icon [edit] button of operation event want to update - Edit operation event information or delete operation event information - Click on “Đóng” button 	<p>- Tiêu đề sự kiện (button)</p> <p>5. Edit operation event screen will be shown</p> <p>6. Error message will be displayed: “Nội dung đã thay đổi, bạn có đồng ý không?”</p>			
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5.3.6.4.2.5. Delete Operation Event

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Operation Event							
Steps							
DO_01	Test delete operation event	User have login User assign	1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	20/11/2014	

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		current case	current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases	2. List all cases will be shown 3. The page will be show with: - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea)			
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			<p>4. Go to list operation events: Click [Sự kiện] button</p> <p>5. Go to edit operation event screen: Click icon [Sửa sự kiện tác nghiệp] button</p> <p>6. Delete operation event’ - Click icon [delete] button of operation event want to update - Click “Xác nhận” button</p>	<p>-Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea)</p> <p>4. The page will be show with:</p> <p>- Thời gian sự kiện (button) - Tiêu đề sự kiện (button)</p> <p>5. Edit operation event screen will be shown</p> <p>6. Operation event is deleted</p>			
DO_02	Test cancel delete operation event	DO_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	20/11/2014	

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			<p>click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to list operation events: Click [Sự kiện] button</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. The page will be show with:</p>		
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			<p>5. Go to edit operation event screen: Click icon [Sửa sự kiện tác nghiệp] button</p> <p>6. Delete operation event”</p> <ul style="list-style-type: none"> - Click icon [delete] button of operation event want to update - Click “BỎ Qua” or “X” button 	<p>- Thời gian sự kiện (button)</p> <p>- Tiêu đề sự kiện (button)</p> <p>5. Edit operation event screen will be shown</p> <p>6. The popup delete will be closed.</p>			
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5.3.6.4.3. Manage Lawyer Related

5.3.6.4.3.1. List Lawyers Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Lawyers Related							
Steps							
	<p>1. User logged in system</p> <p>2. Go to Case Detail and then “Người liên quan” page</p>						
LR_01	Test list lawyer related component	<ul style="list-style-type: none"> - User logged in - User is admin or creator of 	<p>1. Login account as admin or user is assigned in current case successful</p>	<p>1. [User] page will be shown</p>	Pass	21/11/2014	

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		current case	<p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) 		
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			<p>Click on “Người liên quan” button</p> <p>5. Go to list lawyer related component page:</p> <p>Click on “Luật sư” tab</p>	<p>- Yêu tố lỗi (textarea)</p> <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p> <p>- List of lawyer related (table)</p>			
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5.3.6.4.3.2. View Lawyer Related Detail

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Lawyer Related Detail							
<p>Steps</p> <p>1. User logged in system</p> <p>2. Go to Case Detail and then “Người liên quan” page</p> <p>3. Click on the lawyer related want to view detail</p>							
VL_01	Test view lawyer related component detail	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	21/11/2014	

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			<p>account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to view lawyer related</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p>		
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			<p>component detail:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on the lawyer want to view detail 	<p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - The popup detail of the lawyer will be shown 			
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5.3.6.4.3.3. Assign Lawyer Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Assign Lawyer Related							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on edit icon button 4. Search lawyer to assign 5. Click “Thêm vào danh sách” button 							
LR01	Test assign lawyer related component screen	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ul style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. List all caes will be shown 	Pass	21/11/2014	

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			<p>on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p>		
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			<p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button 	<p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) 			
LR02	Test assign lawyer related successfully	LR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) 	Pass	21/11/2014	

				<ul style="list-style-type: none"> - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button <p>6. Assign lawyer related component successful:</p>		
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			<ul style="list-style-type: none"> - Search and then choose one lawyer - Click on “Thêm vào danh sách” button 	displayed “Đã phân công luật sư!”			
LR03	Test assign lawyer related validation	LR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) 	Pass	21/11/2014	

				<ul style="list-style-type: none"> - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button <p>6. Assign lawyer related with validation:</p> <ul style="list-style-type: none"> - No choose lawyer - Click on “Thêm vào danh sách” button 	<ul style="list-style-type: none"> 4. “Người liên quan” page will be shown <p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. Error message will be displayed: “Hãy chọn 1 luật sư!”</p>		
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LR04	Test assign lawyer related validation	LR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 	Pass	21/11/2014	
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			<p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button <p>6. Assign lawyer related with validation:</p> <ul style="list-style-type: none"> - Choose the lawyer already exist in list - Click on “Thêm vào danh sách” button 	<p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. Error message will be displayed: “Đã tồn tại luật sư!”</p>		
LR05	Test complete assign lawyer related	LR01	1. Login account as admin or user is assigned in current case successful	1. [User] page will be shown	Pass	21/11/2014

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			<p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lối (textarea) <p>4. “Người liên quan” page will be shown</p>		
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			<p>Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button <p>6. Complete assign lawyer related:</p> <p>Click on “Hoàn thành” button</p>	<p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. Two button and search textbox is hidden</p>			
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5.3.6.4.3.4. Remove Lawyer Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Lawyer Related							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on edit icon button 4. Click on icon “Delete” button 							
DL_01	Test Delete lawyer related component	<ul style="list-style-type: none"> - User logged in - User is admin or creator of 	<p>1. Login account as admin or user is assigned in current case successful</p>	<p>1. [User] page will be shown</p>	Pass	21/11/2014	

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		current case	<p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 		
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			<p>Click on “Người liên quan” button</p> <p>5. Go to edit lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button <p>6. Delete lawyer related component:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on “Xác nhận” button 	<p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. System will be deleted lawyer related out of case:</p> <p>A notification will be displayed “Loại bỏ luật sư thành công!”</p>			
DL_02	Test cancel Delete	DL_01	1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	21/11/2014	

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	lawyer related		<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) 		
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			<p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to edit lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Click on edit icon button <p>6. Cancel Delete lawyer related component:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on “Bỏ Qua” or “X” button 	<p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. The popup Delete will be closed</p>		
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5.3.6.4.3.5. Search Lawyer Related

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Customer							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on edit icon button 4. Enter the name to search lawyer to assign 							
SCL_01	Test search Lawyer related successful	Authorized User	1. Login account as authorized user successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases. 4. Go “Người liên quan” page: Click on “Người liên quan” button 5. Go to assign lawyer related	1. [User] page will be shown 2. List all cases will be shown 3. The page detail will be show 5. The page will be show lawyer	Pass	21/11 /2014	

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			<p>component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Enter “Thuận” to search. 	“Nguyễn Hòa thuận”.			
SC_02	Test search Lawyer related fail	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases.</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. The result will be shown: not thing.</p>	Fail	21/11 /2014	

			- Enter “sdsd” to search.				
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5.3.6.4.4. Manage Customer Related

5.3.6.4.4.1. List Customers Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Customers Related							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on “Khách hàng” tab 							
LC_01	Test list customer related component	- User logged in - User is admin or creator of current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page :	1. [User] page will be shown 2. List all cases will be shown	Pass	22/11/2014	

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			<p>Click on case want to view detail in list all cases</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to list customer related component page:</p> <p>Click on “Khách hàng” tab</p>		
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				- List of customers related (table)			
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5.3.6.4.4.2. View Customer Related Detail

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Customer Related Detail							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on “Khách hàng” tab 3. Click on the customer related want to view detail 							
VC_01	Test view customer related component detail	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ol style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with: 	Pass	22/11/2014	

			<p>Click on case want to view detail in list all cases</p> <p>- Mã hồ sơ (textbox)</p> <p>- Thuộc văn phòng (dropdown list)</p> <p>- Ngày thụ lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đối tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to view customer related component detail:</p> <ul style="list-style-type: none"> - Click on “Khách hàng” tab - Click on the customer want to view detail 		
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				- List of customers related (table) - The popup detail of the customer will be shown			
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5.3.6.4.4.3. Add Customer Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add Customer Related							
Steps							
	<p>1. User logged in system</p> <p>2. Go to Case Detail and then “Người liên quan”, “Khách hàng” tab</p> <p>3. Click on edit icon button</p> <p>4. Search customer to assign (if not exist, user can be add new customer)</p> <p>5. Click “Thêm vào danh sách” button</p>						
CR01	Test add customer related component screen	- User logged in - Admin or user is assigned in current case	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p>	Pass	22/11/2014	

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			<p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add customer related component screen:</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p>		
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			<ul style="list-style-type: none"> - Click on “Khách hàng” tab - Click on edit icon button 	<ul style="list-style-type: none"> - List of customer related (table) - Tạo khách hàng (button) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) 			
CR02	Test add customer related successfully	CR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	22/11/2014	

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				<ul style="list-style-type: none"> - Ngày thu lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add customer related component screen:</p> <ul style="list-style-type: none"> - Click on “Khách hàng” tab - Click on edit icon button 		
				<p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of customer related (table) - Tạo khách hàng (button) - Tìm kiếm (dropdown list) 		

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			<p>6. Add customer related:</p> <ul style="list-style-type: none"> - Search and then choose one customer - Click on “Thêm vào danh sách” button 	<p>- Thêm vào danh sách (button)</p> <p>- Hoàn thành (button)</p> <p>6. System will be add customer related into case</p> <p>- A notification will be displayed “Thêm khách hàng thành công!”</p>			
CR03	Test add customer related validation	CR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) 	Pass	22/11/2014	

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			<p>detail in list all cases</p> <p>- Thuộc văn phòng (dropdown list)</p> <p>- Ngày thu lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đói tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add customer related component screen:</p> <ul style="list-style-type: none"> - Click on “Khách hàng” tab - Click on edit icon button 	<p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of customer related (table) - Tạo khách hàng (button) 		
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			<p>6. Add customer related with validation:</p> <ul style="list-style-type: none"> - No choose customer - Click on “Thêm vào danh sách” button 	<p>- Tìm kiếm (dropdown list)</p> <p>- Thêm vào danh sách (button)</p> <p>- Hoàn thành (button)</p> <p>6. Error message will be displayed: “Hãy chọn 1 khách hàng!”</p>			
CR04	Test add customer related validation	CR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	22/11/2014	

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				<p>- Ngày thu lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đối tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add customer related component screen: - Click on “Khách hàng” tab - Click on edit icon button</p> <p>6. Add customer</p>	<p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with: - List of customer related (table) - Tạo khách hàng (button) - Tìm kiếm (dropdown list)</p>		
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			<p>related with validation:</p> <ul style="list-style-type: none"> - Choose the customer already exist in list - Click on “Thêm vào danh sách” button 	<ul style="list-style-type: none"> - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. Error message will be displayed: “Đã tồn tại khách hàng!”</p>			
CR05	Test complete add customer related	CR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) 	Pass	22/11/2014	

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				<ul style="list-style-type: none"> - Nội dung tranh chấp (textarea) - Đổi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add customer related component screen: - Click on “Khách hàng” tab - Click on edit icon button</p> <p>6. Complete add customer related:</p>		
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			Click on “Hoàn thành” button	6. Three button and search textbox is hidden			
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5.3.6.4.4.4. Remove Customer Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Customer Related							
Steps							
			<ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on “Khách hàng” tab 3. Click on edit icon button 4. Click on icon “Delete” button 				
DC_01	Test Delete customer related component	- User logged in - User is admin or creator of current case	<ol style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with: 	Pass	22/11/2014	

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			<p>detail in list all cases</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to edit customer related component screen:</p> <ul style="list-style-type: none"> - Click on “Khách hàng” tab - Click on edit icon button 	<ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p>		
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			<p>6. Delete customer related component:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on “Xác nhận” button 	<ul style="list-style-type: none"> - List of customer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. System will be deleted customer related out of case:</p> <p>A notification will be displayed “Loại bỏ khách hàng thành công!”</p>			
DC_02	Test cancel Delete customer related	DC_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	22/11/2014	

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			<p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to edit customer related component screen:</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đói tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with:</p>		
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			<ul style="list-style-type: none"> - Click on “Khách hàng” tab - Click on edit icon button 6. Cancel Delete customer related component: - Click on icon [Delete] button - Click on “Bor Qua” or “X” button 	<ul style="list-style-type: none"> - List of customer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button) <p>6. The popup Delete will be closed</p>			
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5.3.6.4.4.5. Search Customer Related

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Customer							
Steps							
			<ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page and go to tab “Khách hàng”. 3. Click on edit icon button 4. Enter the name to search customer to add to case. 	<ol style="list-style-type: none"> 1. Login account as authorized user successful 2. Go to view list all cases: Click on Plus button in home or click on user 	Pass	22/11 /2014	

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			<p>account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases.</p> <p>4. Go “Người liên quan” page and tab “Khách hàng” : Click on “Người liên quan” button and then click on “Khách hàng” tab.</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Enter “Thuận” to search. 	<p>3. The page detail will be show.</p> <p>5. The page will be show lawyer “Nguyễn Hòa thuận”.</p> <p>.</p>			
SC_02	Test search Lawyer related fail	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p>	Pass	22/11 /2014	

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			<p>click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases.</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Enter “sdsd” to search. 	<p>3. The result will be shown: not thing.</p>			
ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Customer							
Steps							
<p>1. User logged in system</p> <p>2. Go to Manage Customer page</p> <p>3. Type in [Search] textbox</p> <p>4. Result will be shown</p>							
SCL_01	Test search Lawyer related successful	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to view list all cases:</p>	1. [User] page will be shown	Pass	22/11 /2014	

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			<p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases.</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Enter “Thuận” to search. 	<p>2. List all cases will be shown</p> <p>3. The page detail will be show</p> <p>5. The page will be show lawyer “Nguyễn Hòa thuận”.</p> <p>.</p>			
SC_02	Test search Lawyer related fail	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p>	Pass	22/11 /2014	

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			<p>sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases.</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to assign lawyer related component screen:</p> <ul style="list-style-type: none"> - Click on “Luật sư” tab - Enter “sdsd” to search. 	3. The result will be shown: not thing.			
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5.3.6.4.5. Manage Subject Related

5.3.6.4.5.1. List Subjects Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Subjects Related							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on “Chủ thẻ” tab 							
LS_01	Test list subjects	- User logged in	1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	23/11/2014	

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	related component	<ul style="list-style-type: none"> - User is admin or creator of current case 	<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 		
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			<p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to list subjects related component page: Click on “Chủ đề” tab</p>	<p>-Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea)</p> <p>4. “Người liên quan” page will be shown</p> <p>5. The page will be show with: - List of subjects related (table)</p>			
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5.3.6.4.5.2. Add New Subject Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Subject Related							
Steps							
	1. User logged in system						
	2. Go to Case Detail and then “Người liên quan”, “Chủ đề” tab						
	3. Click on edit icon button						
	5. Click “Tạo chủ đề” button						
SR01	Test add new subject related component screen	- User logged in - Admin or user is assigned in current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases:	1. [User] page will be shown 2. List all cases will be shown	Pass	23/11/2014	

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			<p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đói tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea) 		
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			<p>Click on “Người liên quan” button</p> <p>5. Go to add new subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button - Click on “Tạo chủ thẻ” button 	<p>4. “Người liên quan” page will be shown</p> <p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) - Địa chỉ (button) 				
SR02	Test add new subject related successfully	SR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p>	Pass	23/11/2014		

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			<p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add new subject related component screen: - Click on “Chủ đề” tab</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5.The modal popup will be show with:</p>		
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			<ul style="list-style-type: none"> - Click on edit icon button - Click on “Tạo chủ thẻ” button 6. Add new subject related: - Input information - Click on “Thêm mới” button 	<ul style="list-style-type: none"> - Tên chủ thẻ (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) - Địa chỉ (button) <p>6. System will be assign the lawyer into case</p> <p>- A notification will be displayed “Thêm chủ thẻ mới thành công!”</p>			
SR03	Test add new subject related validation	SR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p>	Pass	23/11/2014	

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			<p>Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add new subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button 	<ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (button) - Tư cách tố tụng (button) 		
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			<ul style="list-style-type: none"> - Click on “Tạo chủ thẻ” button 6. Add new subject related with validation: - Do not input “Tên chủ thẻ” - Click on “Thêm mới” button 	<ul style="list-style-type: none"> - Điện thoại (button) - Email (button) - Địa chỉ (button) 6. Error message will be displayed: “Nhập tên chủ thẻ!” 			
SR04	Test add new subject related validation	SR01	<ul style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. List all caes will be shown 3. The page will be show with: - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	23/11/2014	

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				<ul style="list-style-type: none"> - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea) <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>4. “Người liên quan” page will be shown</p>		
				<p>5. Go to add new subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ đề” tab - Click on edit icon button - Click on “Tạo chủ đề” button <p>6. Add new subject</p>	<p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ đề (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) 	

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			<p>related with validation:</p> <ul style="list-style-type: none"> - Do not input “Tư cách tố tụng” - Click on “Thêm mới” button 	<p>- Địa chỉ (button)</p> <p>6. Error message will be displayed: “Nhập tư cách tố tụng!”</p>			
SR05	Test add new subject related validation	SR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) 	Pass	23/11/2014	

				<ul style="list-style-type: none"> - Nội dung tranh chấp (textarea) - Đổi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to add new subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ đề” tab - Click on edit icon button - Click on “Tạo chủ đề” button <p>6. Add new subject related with validation:</p> <p>Input character is not number in</p>	<ul style="list-style-type: none"> - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5.The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ đề (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) - Địa chỉ (button) <p>6. Do not allow to input</p>		
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			“Điện thoại” textbox				
SR06	Test add new subject related validation	SR01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	23/11/2014	

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			<p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to add new subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button - Click on “Tạo chủ thẻ” button <p>6. Add new subject related with validation: Input wrong format email in “Email” textnox. Example “asdfg”</p>	<ul style="list-style-type: none"> - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5.The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) - Địa chỉ (button) <p>6. Error message will be displayed: “Email chưa đúng định dạng!”</p>			
SR07	Test cancel add new	SR01	1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	23/11/2014	

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	subject related		<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all caes will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) 		
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			<p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to add new subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ đề” tab - Click on edit icon button - Click on “Tạo chủ đề” button <p>6. Cancel add new subject related:</p> <p>Click on “Đóng” button or “X” button</p>	<p>- Yêu tố lỗi (textarea)</p> <p>4. “Người liên quan” page will be shown</p> <p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ đề (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) - Địa chỉ (button) <p>6. Popup add new subject related will be closed</p>			
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5.3.6.4.5.3. Edit Subject Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Edit Subject Related						
	Steps		<p>1. User logged in system</p> <p>2. Go to Case Detail and then “Người liên quan”, “Chủ đề” tab</p> <p>3. Click on edit icon button</p>				

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<p>5. Click on icon “Edit” button</p> <p>6. Input information in all fields, then click on “Lưu chỉnh sửa” button</p>							
ES_01	Test edit subject related component screen	<ul style="list-style-type: none"> - User logged in - Admin or user is assigned in current case 	<ol style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with: <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	23/11/2014	

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			<p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen: - Click on “Chủ thẻ” tab - Click on edit icon button - Click on icon “Edit” button</p>	<ul style="list-style-type: none"> - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p> <p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (textbox) - Tư cách tố tụng (textbox) - Điện thoại (textbox) - Email (textbox) - Địa chỉ (textbox) 			
ES_02	Test edit subject related successfully	ES_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) 		
			<p>4. Go “Người liên quan” page:</p>			

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			<p>Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button - Click on icon “Edit” button <p>6. Edit subject related:</p> <ul style="list-style-type: none"> - Update information - Click on “Lưu chỉnh sửa” button 	<p>4. “Người liên quan” page will be shown</p> <p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (textbox) - Tư cách tố tụng (textbox) - Điện thoại (textbox) - Email (textbox) - Địa chỉ (textbox) <p>6. System will be update information of subject into case</p> <ul style="list-style-type: none"> - A notification will be displayed “Cập nhật chủ thẻ thành công!” 			
ES_03	Test add new subject related validation	ES_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p>		
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			<p>5. Go to edit subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ đề” tab - Click on edit icon button - Click on icon “Edit” button <p>6. Edit subject related with validation:</p> <ul style="list-style-type: none"> - Do not input “Tên chủ đề” - Click on “Lưu chỉnh sửa” button 	<p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ đề (textbox) - Tư cách tó tụng (textbox) - Điện thoại (textbox) - Email (textbox) - Địa chỉ (textbox) <p>6. Error message will be displayed: “Nhập tên chủ đề!”</p>			
ES_04	Test edit subject related validation	ES_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go edit subject related</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p>		
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			<p>component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button - Click on icon “Edit” button <p>6. Edit subject related with validation:</p> <ul style="list-style-type: none"> - Do not input “Tư cách tố tụng” - Click on “Lưu chỉnh sửa” button 	<p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (textbox) - Tư cách tố tụng (textbox) - Điện thoại (textbox) - Email (textbox) - Địa chỉ (textbox) <p>6. Error message will be displayed: “Nhập tư cách tố tụng!”</p>			
ES_05	Test edit subject related validation	ES_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>“Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen:</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p>		
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			<ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button - Click on icon “Edit” button <p>6. Edit subject related with validation:</p> <p>Input character is not number in “Điện thoại” textbox</p>	<p>5.The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (textbox) - Tư cách tố tụng (textbox) - Điện thoại (textbox) - Email (textbox) - Địa chỉ (textbox) <p>6. Do not allow to input</p>			
ES_06	Test edit subject related validation	ES_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>Click on case want to view detail in list all cases</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button 		
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			<p>- Click on icon “Edit” button</p> <p>6. Edit subject related with validation:</p> <p>Input wrong format email in “Email” textnox.</p> <p>Example “asdfg”</p>	<p>- Tư cách tó tụng (textbox)</p> <p>- Điện thoại (textbox)</p> <p>- Email (textbox)</p> <p>- Địa chỉ (textbox)</p> <p>6. Error message will be displayed: “Email chưa đúng định dạng!”</p>			
ES_07	Test cancel edit subject related	ES_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	23/11/2014	

				<ul style="list-style-type: none"> - Ngày thu lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go “Người liên quan” page: Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button - Click on icon “Edit” button 		
				<p>4. “Người liên quan” page will be shown</p> <p>5. The modal popup will be show with:</p> <ul style="list-style-type: none"> - Tên chủ thẻ (textbox) - Tư cách tố tụng (textbox) - Điện thoại (textbox) 		

			<p>6. Cancel edit subject related: Click on “Đóng” button or “X” button</p>	<p>- Email (textbox) - Địa chỉ (textbox)</p> <p>6. Popup edit subject related will be closed</p>			
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5.3.6.4.5.4. Delete Subject Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Subject Related							
Steps							
	1. User logged in system 2. Go to Case Detail and then “Người liên quan” page 3. Click on “Chủ thẻ” tab 3. Click on edit icon button 4. Click on icon “Delete” button						
DS_01	Test Delete subject related component	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>“Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen:</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Người liên quan” page will be shown</p>		
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			<ul style="list-style-type: none"> - Click on “Chủ thẻ” tab - Click on edit icon button <p>6. Delete subject related component:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on “Xác nhận” button 	<p>5. The page will be show with:</p> <ul style="list-style-type: none"> - List of subject related (table) - “Tạo chủ thẻ” button - “Hoàn thành” (button) <p>6. System will be deleted subject related out of case: A notification will be displayed “Loại bỏ chủ thẻ thành công!”</p>			
DS_02	Test cancel Delete subject related	DC_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	23/11/2014	

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			<p>Click on case want to view detail in list all cases</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) <p>4. Go “Người liên quan” page:</p> <p>Click on “Người liên quan” button</p> <p>5. Go to edit subject related component screen:</p> <ul style="list-style-type: none"> - Click on “Chủ đề” tab - Click on edit icon button <p>6. Cancel Delete</p>		
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			<p>subject related component:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on “Bor Qua” or “X” button 	<p>- List of subjects related (table)</p> <ul style="list-style-type: none"> - “Tạo chủ thẻ” button - “Hoàn thành” (button) <p>6. The popup Delete will be closed</p>			
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5.3.6.4.6. Manage Document Related

5.3.6.4.6.1. View Document Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Document Related							
<p>Steps</p> <p>1. User logged in system</p> <p>2. Go to Case Detail and then “Tài liệu liên quan” page</p>							
VD_01	Test view document related component	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ul style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 	Pass	24/11/2014	

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			<p>account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p>		
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5.3.6.4.6.2. View Document Related Detail

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Document Related Detail							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Tài liệu liên quan” page 3. Right-click on the document want to view detail 4. Click on “Xem” button 							
DD_01	Test view document related component detail	- User logged in - User is admin or creator of current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view	1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with:	Pass	24/11/2014	

			<p>detail in list all cases</p> <p>- Mã hồ sơ (textbox)</p> <p>- Thuộc văn phòng (dropdown list)</p> <p>- Ngày thụ lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đối tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button 5. Go to view document related detail: - Right-click on the document want to view detail. Example: clip,file,image - Click on “Xem” button</p>	<p>4. “Tài liệu liên quan” page will be shown</p> <p>5. The detail of document related will be shown</p>		
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5.3.6.4.6.3. Upload Document Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Upload Document Related							
Steps <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Tài liệu liên quan” page 3. Click on “Tải lên” button 4. Choose document , then click on “Open” button 							
UD_01	Test upload document related component screen	- User logged in - User is admin or creator of current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases	1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with: - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list)	Pass	24/11/2014	

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				<p>- Ngày thu lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đôi tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Go to upload document related screen:</p> <p>- Choose document want to upload. Example: clip, file,image</p> <p>- Click on “Tải lên” button</p>		
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UD_02	Test upload document related component successful	UD_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	24/11/2014	
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				<p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Go to upload document related screen:</p> <ul style="list-style-type: none"> - Choose document want to upload. Example: clip, file,image - Click on “Tải lên” button <p>6. Upload document related:</p> <ul style="list-style-type: none"> - Choose file want to upload - Click on “Open” button 	<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “File Upload” popup will be shown</p> <p>Two dropdown: “File name”, “All file”</p> <p>Two button: “Open”, “Cancel”</p> <p>6. The file will be uploaded and shown</p>		
UD_03	Test upload document related component with validation	UD_01		1. Login account as admin or user is assigned in	1. [User] page will be shown	Pass	24/11/2014

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			<p>current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) 		
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			<p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Go to upload document related screen: - Choose document want to upload. Example: clip, file,image - Click on “Tải lên” button</p> <p>6. Upload document realted with validation: - Choose file with wrong format. Example: In “Clips” folder choose file have “.docx” or “.jpg” - Click on “Open” button</p>	<p>- Yêu tố lỗi (textarea)</p> <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “File Upload” popup will be shown</p> <p>Two dropdown: “File name”, “All file”</p> <p>Two button: “Open”, “Cancel”</p> <p>6. The ”File Upload” popup is closed</p> <p>A notice message will be shown: “Kiểu tập tin không được chấp nhận trong thư mục này.”</p>		
UD_04	Test cancel upload	UD_01	1. Login account as	1. [User] page will be shown	Pass	24/11/2014

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	document related component	<p>admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) 		
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Capstone Project: LFMS

			<p>4. Go to “Tài liệu liên quan” page:</p> <p>Click on “Tài liệu liên quan” button</p> <p>5. Go to upload document related screen:</p> <ul style="list-style-type: none"> - Choose document want to upload. <p>Example: clip, file,image</p> <ul style="list-style-type: none"> - Click on “Tải lên” button <p>6. Cancel upload document realted:</p> <p>Click on “Cancel” or “X” button</p>	<p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “File Upload” popup will be shown</p> <p>Two dropdown: “File name”, “All file”</p> <p>Two button: “Open”, “Cancel”</p> <p>6. The ”File Upload” popup is closed</p>		
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5.3.6.4.6.4. Edit Document Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Document Related							
Steps							
	<ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Tài liệu liên quan” page 3. Right-click on the document want to edit 4. Click on “Đổi tên” button 	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ol style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with: <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 	Pass	24/11 /2014	
ED_01	Test edit document related component screen						

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				<p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “Đổi tên” popup will be shown</p> <p>Two button: “OK”, “Hủy”</p> <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Go to edit document related screen: - Choose file want to edit. Example: clip, file,image</p> <p>- Right-click on it</p> <p>- Click on “Đổi tên” button</p>		
ED_02	Test edit document related component with blank filed	ED_01		<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	<p>Pass</p> <p>24/11 /2014</p>

			<p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “Đổi tên” popup will be shown</p>		
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			<p>5. Go to edit document related screen:</p> <ul style="list-style-type: none"> - Choose file want to edit. Example: clip, file,image - Right-click on it - Click on “Đổi tên” button <p>6. Edit document related with blank field:</p> <ul style="list-style-type: none"> - Clear infomation - Click on “OK” button 	<p>Two button: “OK”, “Hủy”</p> <p>6. “Thông tin” popup will be shown: “Tên tập tin hay thư mục không hợp lệ.” One button “OK”</p>			
ED_03	Test edit document related component with validation	ED_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p>	Pass	24/11 /2014	

			<p>detail in list all cases</p> <p>- Mã hồ sơ (textbox)</p> <p>- Thuộc văn phòng (dropdown list)</p> <p>- Ngày thụ lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đổi tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Go to edit document related screen: - Choose file want to edit. Example: clip, file,image - Right-click on it - Click on “Đổi tên” button</p>		
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			<p>6. Edit document realted with validation:</p> <ul style="list-style-type: none"> - Rename file with characters special. <p>Example: “*”, “\”, “/”, “?”, “:”, “””, “<”, “>”, “ ”</p> <ul style="list-style-type: none"> - Click on “OK” button 	<p>6. The ”Thông tin” popup will be shown:</p> <p>“Tên tập tin không thể chứa các kí tự: \ : * ? " < > ”</p>			
ED_04	Test edit document related component successful	ED_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) 	Pass	24/11 /2014	

				<ul style="list-style-type: none"> - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đổi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Go to edit document related screen:</p> <ul style="list-style-type: none"> - Choose file want to edit. Example: clip, file,image - Right-click on it - Click on “Đổi tên” button <p>6. Edit document realted:</p> <ul style="list-style-type: none"> - Rename file - Click on “OK” button 	<p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “Đổi tên” popup will be shown Two button: “OK”, “Hủy”</p> <p>6. The name of file will be changed and shown</p>		
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ED_05	Test cancel edit document related component	ED_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lối (textarea) 	Pass	24/11 /2014	
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			<p>4. Go to “Tài liệu liên quan” page:</p> <p>Click on “Tài liệu liên quan” button</p> <p>5. Go to edit document related screen:</p> <ul style="list-style-type: none"> - Choose file want to edit. Example: clip, file,image - Right-click on it - Click on “Đổi tên” button <p>6. Cancel edit document realted:</p> <p>Click on “Hủy” or “X” button</p>	<p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “Đổi tên” popup will be shown</p> <p>Two button: “OK”, “Hủy”</p> <p>6. The ”Đổi tên” popup is closed</p>			
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5.3.6.4.6.5. Delete Document Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Document Related							
Steps							
	1. User logged in system						
	2. Go to Case Detail and then “Tài liệu liên quan” page						
	3. Right-click on the document want to edit						
	4. Click on “Xóa” button						
DR_01	Test delete document related	- User logged in	1. Login account as admin or user is	1. [User] page will be shown	Pass	24/11 /2014	

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	component screen	<ul style="list-style-type: none"> - User is admin or creator of current case <p>assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go to “Tài liệu liên quan” page:</p> <p>Click on “Tài liệu liên quan” button</p> <p>5. Go to delete document related screen:</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. “Xác nhận” popup will be shown</p>			
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			<ul style="list-style-type: none"> - Choose file want to delete. Example: clip, file,image - Right-click on it - Click on “Xóa” button 	<p>“Bạn có chắc muốn xóa tập tin?”</p> <p>Two button: “OK”, “Hủy”</p>			
DR_02	Test delete document related component successful	DR_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	24/11 /2014	

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				<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lisi (textarea)</p> <p>4. “Tài liệu liên quan” page will be shown</p> <p>Click on “Tài liệu liên quan” button</p> <p>5. Go to delete document related screen:</p> <ul style="list-style-type: none"> - Choose file want to delete. Example: clip, file,image - Right-click on it - Click on “Xóa” button <p>6. Delete document related:</p> <p>Click on “OK” button</p>		
DR_03	Test cancel delete document related component	DR_01		<p>1. Login account as admin or user is assigned in current case successful</p> <p>1. [User] page will be shown</p>	Pass	24/11 /2014

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			<p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Tài liệu liên quan” page will be shown</p>		
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			<p>Click on “Tài liệu liên quan” button</p> <p>5. Go to delete document related screen:</p> <ul style="list-style-type: none"> - Choose file want to delete. Example: clip, file,image - Right-click on it - Click on “Xóa” button <p>6. Cancel delete document related:</p> <p>Click on “Hủy” or “X” button</p>	<p>5. “Xác nhận” popup will be shown</p> <p>“Bạn có chắc muốn xóa tập tin?”</p> <p>Two button: “OK”, “Hủy”</p> <p>6. “Xác nhận” popup is closed</p>			
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5.3.6.4.6.6. Search Document Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Document Related							
Steps							
	<p>1. User logged in system</p> <p>2. Go to Case Detail and then “Tài liệu liên quan” page</p> <p>3. Type in [Search] textbox</p> <p>4. Result will be shown</p>						

SD_01	Test search document related component successful	- User logged in - User is admin or creator of	1. Login account as admin or user is assigned in current case successful	1. [User] page will be shown	Pass	24/11 /2014	
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		current case	<p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go to “Tài liệu liên quan” page:</p> <p>Click on “Tài liệu liên quan” button</p> <p>5. Search document related successful:</p> <p>Type information</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lisi (textarea) <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. The result will be found and shown</p>		
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			already have in data on [Search] textbox. Example “Hòa Thuận”				
DR_02	Test search document related component fail	DR_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) 	Pass	24/11 /2014	

				<p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to “Tài liệu liên quan” page: Click on “Tài liệu liên quan” button</p> <p>5. Search document related fail: Type information do not have in data on [Search] textbox. Example “abcdef”</p> <p>4. “Tài liệu liên quan” page will be shown</p> <p>5. The result will be shown: “Không tìm thấy kết quả phù hợp”</p>		
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5.3.6.4.7. Manage Used Service

5.3.6.4.7.1. View User Services

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note

Capstone Project: LFMS

VU_01	Test view user services	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	25/11 /2014	
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				<p>4. Go to view user services: Click on “Hóa đơn” button</p>	<p>- Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea)</p> <p>4. “Hóa đơn” page will be shown: “Chi phí dịch vụ” will be shown</p>			
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5.3.6.4.7.2. Add New User Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New User Service							
<p>Steps</p> <p>1. User logged in system 2. Go to Case Detail and then “Hóa đơn” page 3. Click on icon “Chỉnh sửa chi phí” button 4. Click on “Thêm dịch vụ” button 5. Input information 6. Click on “Hoàn thành” button</p>							
AU_01	Test add new user service screen	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p>	1. [User] page will be shown	Pass	25/11 /2014	

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			<p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p> <p>4. Go to view user services:</p> <p>Click on “Hóa đơn” button</p>	<p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) 		
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			<p>5. Go to add new user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on “Thêm dịch vụ” button 	<p>-Sự kiện pháp lý (textarea)</p> <ul style="list-style-type: none"> - Yêu tố lỗi (textarea) <p>4. “Hóa đơn” page will be shown:</p> <p>“Chi phí dịch vụ” will be shown</p> <p>5. “Thêm dịch vụ” popup will be shown</p> <p>Two button: “Đóng”, “Thêm dịch vụ”</p>			
AU_02	Test add new user service with Blank Field	AU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	25/11 /2014	

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			<p>Click on case want to view detail in list all cases</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view user services:</p> <p>Click on “Hóa đơn” button</p> <p>5. Go to add new user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button 		
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			<p>- Click on “Thêm dịch vụ” button</p> <p>6. Add new user service with blank field:</p> <p>Click on “Thêm dịch vụ” button</p>	<p>5. “Thêm dịch vụ” popup will be shown</p> <p>Two button: “Đóng”, “Thêm dịch vụ”</p> <p>6. Error message is displayed in current field (field with * label with red color) require input data.</p>			
AU_03	Test add new user service with validation	AU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p>	Pass	25/11 /2014	

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			<p>detail in list all cases</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to add new user service screen: - Click on icon “Chỉnh sửa chi phí” button - Click on “Thêm dịch vụ” button</p>	<ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Hóa đơn” page will be shown:</p> <p>“Chi phí dịch vụ” will be shown</p> <p>5. “Thêm dịch vụ”</p>		
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Capstone Project: LFMS

			<p>6. Add new user service with validation:</p> <p>Input characters not numeric into “Chi phí” (textbox). Example “abcd”</p>	<p>popup will be shown</p> <p>Two button: “Đóng”, “Thêm dịch vụ”</p> <p>6. Can not input characters not numeric into “Chi phí” (textbox).</p>			
AU_04	Test add new user service successful	AU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng 	Pass	25/11 /2014	

				<p>(dropdown list)</p> <ul style="list-style-type: none"> - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to add new user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on “Thêm dịch vụ” button <p>6. Add new user service:</p> <ul style="list-style-type: none"> - Input information in all fields 		
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			<p>- Click on “Thêm dịch vụ” button</p> <p>6. Successful message is displayed.</p> <p>“Thêm dịch vụ thành công!”</p> <p>New user service is inserted and display in “Chi phí dịch vụ” View</p>	“Thêm dịch vụ”			
AU_05	Test cancel add new user service	AU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) 	Pass	25/11 /2014	

				<ul style="list-style-type: none"> - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to add new user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on “Thêm dịch vụ” button <p>6. Cancel add new user service:</p>		
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			Click on “Đóng” or “X” button	Two button: “Đóng”, “Thêm dịch vụ” 6. “Thêm dịch vụ” popup is closed			
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5.3.6.4.7.3. Edit User Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit User Service							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Hóa đơn” page 3. Click on icon “Chỉnh sửa chi phí” button 4. Click on icon “Edit” button 5. Input information 6. Click on “Sửa chi phí” button 							
EU_01	Test edit user service screen	- User logged in - User is admin or creator of current case	1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then	1. [User] page will be shown 2. List all cases will be shown	Pass	26/11 /2014	

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			<p>click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) <p>-Sự kiện pháp lý (textarea)</p> <p>4. Go to view user services:</p> <p>Click on “Hóa đơn” button</p>		
				<p>4. “Hóa đơn” page will be shown:</p> <p>“Chi phí dịch vụ” will be shown</p>		

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			<p>5. Go to edit user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on icon “Edit” button 	<p>5. “Sửa chi phí” popup will be shown</p> <p>Two button: “Đóng”, “Sửa chi phí”</p>			
EU_02	Test edit user service with Blank Field	EU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) 	Pass	26/11 /2014	

				<ul style="list-style-type: none"> - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to edit user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on icon “Edit” button <p>6. Edit user service with blank field: - Clear information in all fields</p>		
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			<ul style="list-style-type: none"> - Click on “Sửa chi phí” button 	color) require input data.			
EU_03	Test edit user service with validation	EU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) 	Pass	26/11 /2014	

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				<p>- Đổi tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>4. “Hóa đơn” page will be shown: “Chi phí dịch vụ” will be shown</p> <p>5. Go to edit user service screen: - Click on icon “Chỉnh sửa chi phí” button</p> <p>5. “Sửa chi phi” popup will be shown</p> <p>Two button: “Đóng”, “Sửa chi phí”</p> <p>6. Edit user service with validation: Input characters not numeric into “Chi phí” (textbox). Example “abcd”</p> <p>6. Can not input characters not numeric into “Chi phí” (textbox).</p>			
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EU_04	Test edit user service successful	EU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	26/11 /2014	
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Capstone Project: LFMS

				<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to edit user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on icon “Edit” button <p>6. Edit user service:</p> <ul style="list-style-type: none"> - Input information in all fields - Click on “Sửa chi phí” button 	<p>4. “Hóa đơn” page will be shown:</p> <p>“Chi phí dịch vụ” will be shown</p> <p>5. “Sửa chi phi” popup will be shown</p> <p>Two button: “Đóng”, “Sửa chi phí”</p> <p>6. Successful message is displayed.</p> <p>“Sửa dịch vụ thành công!”</p> <p>New information user service is inserted and display in “Chi phi dịch vụ” View</p>		
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Capstone Project: LFMS

EU_05	Test cancel edit user service	EU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	26/11 /2014	
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Capstone Project: LFMS

				<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to edit user service screen: - Click on icon “Chỉnh sửa chi phí” button</p> <p>6. Cancel edit user service: Click on “Đóng” or “X” button</p> <p>4. “Hóa đơn” page will be shown: “Chi phí dịch vụ” will be shown</p> <p>5. “Sửa chi phi” popup will be shown Two button: “Đóng”, “Sửa chi phí”</p> <p>6. “Sửa chi phi” popup is closed</p>		
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5.3.6.4.7.4. Delete User Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Edit User Service						
	Steps						
	1. User logged in system						

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<p>2. Go to Case Detail and then “Hóa đơn” page</p> <p>3. Click on icon “Chỉnh sửa chi phí” button</p> <p>4. Click on icon “Delete” button</p>								
DU_01	Test delete user service screen	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ul style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <ul style="list-style-type: none"> 3. Go to case detail page : <p>Click on case want to view detail in list all cases</p>	<ul style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) 	Pass	26/11 /2014		

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				<p>- Đối tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to delete user service screen: - Click on icon “Chỉnh sửa chi phí” button - Click on icon “Delete” button</p>	<p>4. “Hóa đơn” page will be shown:</p> <p>“Chi phí dịch vụ” will be shown</p> <p>5. The confirm popup will be shown</p> <p>Two button: “Đóng”, “Xác nhận”</p>		
DU_02	Test delete user service with Successful	DU_01		<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	26/11 /2014

			<p>right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea) <p>4. “Hóa đơn” page will be shown: “Chi phí dịch vụ” will be shown</p>		
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			<p>5. Go to delete user service screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa chi phí” button - Click on icon “Delete” button <p>6. Delete user service:</p> <p>Click on “Xác nhận” button</p>	<p>5. The confirm popup will be shown</p> <p>Two button: “Đóng”, “Xác nhận”</p> <p>6. User service will be deleted:</p> <p>“Xóa dịch vụ thành công!”</p>			
DU_03	Test cancel delete user service with	DU_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) 	Pass	28/11 /2014	

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			<p>detail in list all cases</p> <p>4. Go to view user services: Click on “Hóa đơn” button</p> <p>5. Go to delete user service screen: - Click on icon “Chỉnh sửa chi phí” button</p>	<ul style="list-style-type: none"> - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea) <p>4. “Hóa đơn” page will be shown: “Chi phí dịch vụ” will be shown</p> <p>5. The confirm popup will be shown Two button: “Đóng”, “Xác nhận”</p>		
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			<ul style="list-style-type: none"> - Click on icon “Delete” button 6. Cancel delete user service : Click on “BỎ qua” or “X” button 	6. The confirm popup is closed			
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5.3.6.4.8. Manage Payment

5.3.6.4.8.1. View Payments

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Payments							
Steps							
			<ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Hóa đơn” page 				
VP_01	Test view user services	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ul style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 	Pass	28/11 /2014	

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			<p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to view payments: Click on “Hóa đơn” button</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p>		
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5.3.6.4.8.2. Add New Payment

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Payment							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Hóa đơn” page 3. Click on icon “Chỉnh sửa hóa đơn” button 4. Click on “Tạo thanh toán” button 5. Input information 6. Click on “Tạo thanh toán” button 							
AP_01	Test add new payment screen	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ol style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button 3. Go to case detail page : Click on case want to view detail in list all cases 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. List all cases will be shown 3. The page will be show with: <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	28/11 /2014	

				<ul style="list-style-type: none"> - Ngày thu lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to add new payment screen: - Click on icon “Chỉnh sửa hóa đơn” button - Click on “Tạo thanh toán” button</p>		
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AP_02	Test add new payment with Blank Field	AP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	28/11 /2014	
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				<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to add new payment screen: - Click on icon “Chỉnh sửa hóa đơn” button</p> <p>- Click on “Tạo hóa đơn” button</p> <p>6. Add new payment with blank field: Click on “Tạo thanh toán” button</p>	<p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p> <p>5. “Tạo thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Tạo thanh toán”</p> <p>6. Error message is displayed in current filed require input data.</p>		
AP_03	Test add new payment with validation	AP_01		<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	28/11 /2014

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			<p>home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đôi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea) <p>4. Go to view payments:</p>		
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			<p>Click on “Hóa đơn” button</p> <p>5. Go to add new payment screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa hóa đơn” button - Click on “Tạo thanh toán” button <p>6. Add new payment with validation:</p> <p>Input characters not numeric into “Số tiền” (textbox). Example “abcd”</p>	<p>“Hóa đơn thanh toán” will be shown</p> <p>5. “Tạo thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Tạo thanh toán”</p> <p>6. Can not input characters not numeric into “Số tiền” (textbox).</p>			
AP_04	Test add new payment successful	AP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	28/11 /2014	

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			<p>click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view payments:</p> <p>Click on “Hóa đơn” button</p>	<p>4. “Hóa đơn” page will be shown:</p> <p>“Hóa đơn thanh toán” will be shown</p>		
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			<p>5. Go to add new payment screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa hóa đơn” button - Click on “Tạo thanh toán” button <p>6. Add new payment:</p> <ul style="list-style-type: none"> - Input information in all fields - Click on “Tạo thanh toán” button 	<p>5. “Tạo thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Tạo thanh toán”</p> <p>6. Successful message is displayed.</p> <p>“Thêm thanh toán thành công!”</p> <p>New payment is inserted and display in “Hóa đơn thanh toán” View</p>			
AP_05	Test cancel add new payment	AP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	28/11 /2014	

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			<p>3. Go to case detail page : Click on case want to view detail in list all cases</p> <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to add new payment screen:</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lõi (textarea) <p>4. “Hóa đơn” page will be shown:</p> <p>“Hóa đơn thanh toán” will be shown</p>		
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			<ul style="list-style-type: none"> - Click on icon “Chỉnh sửa hóa đơn” button - Click on “Tạo thanh toán” button 6. Cancel add new payment: Click on “Đóng” or “X” button 	<p>5. “Tạo thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Tạo thanh toán”</p> <p>6. “Tạo thanh toán” popup is closed</p>			
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5.3.6.4.8.3. Edit Payment

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Payment							
Steps							
			<ol style="list-style-type: none"> 1. User logged in system 2. Go to Case Detail and then “Hóa đơn” page 3. Click on icon “Chỉnh sửa hóa đơn” button 4. Click on icon “Edit” button 5. Input information 6. Click on “Sửa thanh toán” button 				
EP_01	Test edit payment screen	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<ul style="list-style-type: none"> 1. Login account as admin or user is assigned in current case successful 2. Go to view list all cases: Click on Plus button in home or click 	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	28/11 /2014	

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			<p>on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) <p>4. Go to view payments: Click on “Hóa đơn” button</p>		
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			<p>5. Go to edit payment screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa hóa đơn” button - Click on icon “Edit” button 	<p>“Hóa đơn thanh toán” will be shown</p> <p>5. “Sửa thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Sửa thanh toán”</p>			
EP_02	Test edit payment with Blank Field	EP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) 	Pass	29/11 /2014	

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				<ul style="list-style-type: none"> - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) - Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to edit payment screen: - Click on icon “Chỉnh sửa hóa đơn” button - Click on icon “Edit” button</p> <p>6. Edit payment with blank field: - Clear information in all fields</p>		
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			<ul style="list-style-type: none"> - Click on “Sửa thanh toán” button 				
EP_03	Test edit payment with validation	EP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) 	Pass	29/11 /2014	

				<ul style="list-style-type: none"> - Đổi tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) - Thời hiệu (textarea) -Sự kiện pháp lý (textarea) - Yêu tố lỗi (textarea) <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to edit payment screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa hóa đơn” button - Click on icon “Edit” button <p>6. Edit payment with validation: Input characters not numeric into “Số tiền” (textbox). Example “abcd”</p>	<p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p> <p>5. “Sửa thanh toán” popup will be shown Two button: “Đóng”, “Sửa thanh toán”</p> <p>6. Can not input characters not numeric into “Số tiền” (textbox).</p>		
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Capstone Project: LFMS

EP_04	Test edit payment successful	EP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	29/11 /2014	
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				<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to edit payment screen: - Click on icon “Chỉnh sửa hóa đơn” button</p> <p>- Click on icon “Edit” button</p> <p>6. Edit payment: - Input information in all fields</p> <p>- Click on “Sửa thanh toán” button</p>	<p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p> <p>5. “Sửa thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Sửa thanh toán”</p> <p>6. Successful message is displayed. “Sửa thanh toán thành công!”</p> <p>New information payment is inserted and display in “Hóa đơn thanh toán” View</p>		
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Capstone Project: LFMS

EP_05	Test cancel edit payment	EP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) 	Pass	29/11 /2014	
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Capstone Project: LFMS

				<p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to edit payment screen: - Click on icon “Chỉnh sửa hóa đơn” button</p> <p>- Click on icon “Edit” button</p> <p>6. Cancel edit payment: Click on “Đóng” or “X” button</p>	<p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p> <p>5. “Sửa thanh toán” popup will be shown</p> <p>Two button: “Đóng”, “Sửa thanh toán”</p> <p>6. “Sửa thanh toán” popup is closed</p>		
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5.3.6.4.8.4. Delete Payment

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Edit Payment						
	Steps		1. User logged in system				

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<p>2. Go to Case Detail and then “Hóa đơn” page</p> <p>3. Click on icon “Chỉnh sửa hóa đơn” button</p> <p>4. Click on icon “Delete” button</p>								
DP_01	Test delete payment screen	<ul style="list-style-type: none"> - User logged in - User is admin or creator of current case 	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases:</p> <p>Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) 	Pass	29/11 /2014		

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				<p>- Đổi tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>- Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to delete payment screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa hóa đơn” button - Click on icon “Delete” button 	<p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p> <p>5. The confirm popup will be shown</p> <p>Two button: “Đóng”, “Xác nhận”</p>		
DP_02	Test delete payment with Successful	DP_01		<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p>	Pass	29/11 /2014

			<p>on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page :</p> <p>Click on case want to view detail in list all cases</p>	<p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) - Ngày thụ lý (datetime picker) - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đối tượng tranh chấp (textarea) - Quan hệ tranh chấp (textarea) <p>4. Go to view payments:</p> <p>Click on “Hóa đơn” button</p> <p>5. Go to delete payment screen:</p> <ul style="list-style-type: none"> - Click on icon “Chỉnh sửa” 	<p>4. “Hóa đơn” page will be shown:</p> <p>“Hóa đơn thanh toán” will be shown</p>		
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			<p>hóa đơn” button</p> <ul style="list-style-type: none"> - Click on icon “Delete” button <p>6. Delete payment:</p> <p>Click on “Xác nhận” button</p>	<p>5. The confirm popup will be shown</p> <p>Two button: “Đóng”, “Xác nhận”</p> <p>6. Payment will be deleted:</p> <p>“Xóa thanh toán thành công!”</p>			
DP_03	Test cancel delete payment with	DP_01	<p>1. Login account as admin or user is assigned in current case successful</p> <p>2. Go to view list all cases: Click on Plus button in home or click on user account in right of the top, then click on “Danh sách hồ sơ” button</p> <p>3. Go to case detail page : Click on case want to view detail in list all cases</p>	<p>1. [User] page will be shown</p> <p>2. List all cases will be shown</p> <p>3. The page will be show with:</p> <ul style="list-style-type: none"> - Mã hồ sơ (textbox) - Thuộc văn phòng (dropdown list) 	Pass	29/11 /2014	

				<p>- Ngày thu lý (datetime picker)</p> <p>- Trạng thái (dropdown list)</p> <p>- Nội dung tranh chấp (textarea)</p> <p>- Đổi tượng tranh chấp (textarea)</p> <p>- Quan hệ tranh chấp (textarea)</p> <p>- Thời hiệu (textarea)</p> <p>-Sự kiện pháp lý (textarea)</p> <p>- Yêu tố lỗi (textarea)</p> <p>4. “Hóa đơn” page will be shown: “Hóa đơn thanh toán” will be shown</p> <p>5. The confirm popup will be shown</p> <p>Two button: “Đóng”, “Xác nhận”</p> <p>6. The confirm</p>		
				<p>4. Go to view payments: Click on “Hóa đơn” button</p> <p>5. Go to delete payment screen: - Click on icon “Chinh sửa hóa đơn” button</p> <p>- Click on icon “Delete” button</p> <p>6. Cancel delete payment: Click on “Bỏ qua” or “X” button</p>		

				popup is closed			
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5.3.7. Manage Customer

5.3.7.1. List Customers

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Customers							
Steps							
LC_01	Test list customers screen	Authorized User	1. Login account as authorized user successful 2. Go to view list customers screen: - Click on user account in right of the top. - Click on [Quản lý khác hàng] button	1. [User] page will be shown 2. Manage customer page will be shown: List customer will be shown (table)	Pass	29/11 /2014	

5.3.7.2. View Customer Detail

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Customer Detail							
Steps <ol style="list-style-type: none"> 1. User logged in system 2. Go to Manage Customer page 3. Click on icon [View] button 							
VC_01	Test view customer detail	Authorized User	1. Login account as authorized user successful 2. Go to manage customer page: - Click on user account in right of the top. - Click on [Quản lý khác hàng] button 3. Go to view customer detail: Click on icon [View] of customer type want to view detail	1. [User] page will be shown 2. Manage customer page will be shown 3. “Chi tiết khách hàng” popup will be shown	Pass	29/11 /2014	

5.3.7.3. Add New Customer

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Customer							
Steps							
1. Go to Manage Customer page							
MA_01	Test Add new customer screen	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý khác hàng] button <p>3. Go to add new customer screen:</p> <p>Click [Thêm khách hàng] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Thêm khách hàng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p>	Pass	29/11 /2014	
MA_02	Test Add new customer screen Blank Field	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p>	Pass	29/10 /2014	

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			<ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý khách hàng] button 3. Go to add new customer screen: Click [Thêm khách hàng] button 4. Test blank field: Click [Thêm mới] button 	<p>3. “Thêm khách hàng” Popup is displayed correctly Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed in current field (field with * label with red color) require input data.</p>			
MA _03	<p>Test Add new customer screen</p> <p>Add Successfully</p>	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top - Click [Quản lý khách hàng] button 3. Go to add new customer screen: 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Thêm khách hàng” Popup is displayed correctly</p>	Pass	29/11 /2014	

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			<p>Click [Thêm khách hàng] button</p> <p>4. Add new customer:</p> <ul style="list-style-type: none"> - Input all information in all field. - Click [Thêm mới] button 	<p>Two button [Làm trống], [Tạo mới]</p> <p>4. Successful message is displayed.</p> <p>“Tạo khách hàng thành công!”</p> <p>New Customer is inserted and display in Customer View</p>			
MA _04	<p>Test Add new customer screen</p> <p>Clear data</p>	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý khác hàng] button <p>3. Go to add new customer sreen:</p> <p>Click [Thêm khách hàng] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Thêm khách hàng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. All field is reset to blank.</p>	Pass	29/11 /2014	

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			4. Clear data in “Thêm khách hàng” popup: - Input all information in all field. -Click [Làm trống] button				
MA _07	Test Add new customer screen Input regular expression in Email	Authorized User	1. Login account as authorized user successful 2. Go to manage customer page: - Click on user account in right of the top. - Click [Quản lý khác hàng] button 3. Go to add new customer sreen: Click [Thêm khách hàng] button 4. Add new customer with input regular expression in email:	1. [User] page will be shown 2. Manage customer page will be shown 3. “Thêm khách hàng” Popup is displayed correctly Two button [Làm trống], [Tạo mới] 4. Error message is displayed: “Hãy nhập địa chỉ email đúng”	Pass	29/11 /2014	

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			<ul style="list-style-type: none"> - Input all information in all field. -Input regular expression into “Email” textbox. Example “thuaninfo” - Click [Thêm mới] textbox 				
MA _08	<p>Test Add new customer screen</p> <p>Input Character in numeric's fields</p>	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý khác hàng] button <p>3. Go to add new customer sreen:</p> <p>Click [Thêm khách hàng] button</p> <p>4. Add new customer with input character in</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Thêm khách hàng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed:</p> <p>Can not input character in this fields</p>	Pass	29/11 /2014	

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			<p>numeric's fields:</p> <ul style="list-style-type: none"> - Input all information in all field. -Input character into “Điện thoại di động”, “Điện thoại cố định”, “Số tài khoản”, “Mã số thuế”, “Số CMND” textbox. <p>Example “asdfg”</p>				
MA _09	Test Cancel add new customer	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý khác hàng] button <p>3. Go to add new customer sreen:</p> <p>Click [Thêm khách hàng] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Thêm khách hàng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. The Add customer pop-up is closed</p>	Pass	29/11 /2014	

			4. Cancel add new customer: Click “X” button				
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5.3.7.4. Edit Customer

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Customer							
Steps							
EC_01	Test edit customer screen	Authorized User	1. Login account as authorized user successful 2. Go to manage customer page: - Click on user account in right of the top. - Click on [Quản lý khác hàng] button 3. Go to edit customer sreen: Click on icon [Edit] button	1. [User] page will be shown 2. Manage customer page will be shown 3. “Chi tiết khách hàng” Popup is displayed correctly	Pass	29/11 /2014	

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				Two button [Đóng], [Lưu chỉnh sửa]			
EC_02	Test edit customer screen Blank Field	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khách hàng] button <p>3. Go to edit customer screen:</p> <p>Click on icon [Edit] button</p> <p>4. Edit customer with blank field:</p> <ul style="list-style-type: none"> - Clear information all fields - Click on [Lưu chỉnh sửa] button 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Chi tiết khách hàng” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed in current filed (field with * label with red color) require input data.</p>	Pass	29/11 /2014	

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EC_03	Test Edit customer Successfull y	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top - Click on [Quản lý khách hàng] button <p>3. Go to edit customer sreen:</p> <p>Click on icon [Edit] button</p> <p>4. Edit customer:</p> <ul style="list-style-type: none"> - Update information in all fields - Click on [Lưu chỉnh sửa] button 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Chi tiết khách hàng” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Successful message is displayed.</p> <p>“Chỉnh sửa khách hàng thành công!”</p> <p>New information Customer is inserted and display in Customer View</p>	Pass	29/11 /2014	
EC_04	Test edit customer screen Input regular	Authorized User	1. Login account as authorized user successful	1. [User] page will be shown	Pass	29/11 /2014	

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	expression in Email		<p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khách hàng] button <p>3. Go to edit customer screen:</p> <p>Click on icon [Edit] button</p> <p>4. Edit customer with input regular expression in email:</p> <ul style="list-style-type: none"> - Input all information in all field. - Input regular expression into "Email" textbox. Example "thuaninfo" - Click [Lưu chỉnh sửa] button 	<p>2. Manage customer page will be shown</p> <p>3. "Chi tiết khách hàng" Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed: "Hãy nhập địa chỉ email đúng"</p>		
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Capstone Project: LFMS

EC_05	Test edit customer screen Input Character in numeric's fields	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khách hàng] button <p>3. Go to edit customer screen:</p> <p>Click on icon [Edit] button</p> <p>4. Edit customer with input character in numeric's fields:</p> <ul style="list-style-type: none"> - Input all information in all field. -Input character into “Điện thoại di động”, “Số tài khoản”, “Mã số thuế”, “Số CMND” textbox. Example “asdfg” 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Chi tiết khách hàng” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed: Can not input character in this fields</p>	Pass	29/11 /2014	
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EC_06	Test Cancel edit customer	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khác hàng] button <p>3. Go to edit customer screen:</p> <p>Click on icon [Edit] button</p> <p>4. Cancel edit customer:</p> <p>Click on “Đóng” or “X” button</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. “Chi tiết khách hàng” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. The edit customer pop-up is closed</p>	Pass	29/11 /2014	
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5.3.7.5. Delete Customer

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Delete Customer						
	Steps						
	1. User logged in system						
	2. Go to Manage Customer page						

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3. Click on icon [Delete] button							
DC_01	Test delete customer screen	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khác hàng] button <p>3. Go to delete customer screen:</p> <p>Click on icon [Delete] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. The popup confirm will be shown: Two button [Bỏ Qua], [Xác Nhận]</p>	Pass	29/11 /2014	
DC_02	Test delete customer successful	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. Customer will be deleted:</p>	Pass	29/11 /2014	

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			<ul style="list-style-type: none"> - Click on [Quản lý khác hàng] button 3. Delete customer: - Click on icon [Delete] button - Click on [Xác Nhận] button 	<p>A notice message will be shown “Xóa khách hàng thành công!”</p> <p>The page will be reloaded</p>			
DC_03	Test cancel delete customer	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top - Click on [Quản lý khác hàng] button <p>3. Cancel delete customer:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on [Bỏ Qua] or [X] button 	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. The popup confirm will be closed</p>	Pass	29/11 /2014	

5.3.7.6. Search Customer

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Customer							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to Manage Customer page 3. Type in [Search] textbox 4. Result will be shown 							
SC_01	Test search customer successful	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khách hàng] button <p>3. Search customer successful:</p> <p>Type information already have in data on [Search] textbox.</p> <p>Example “Thùy”</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. The result will be found and shown: [Tên khách hàng],[Người đại diện],[Địa chỉ liên hệ],[Số điện thoại]</p>	Pass	29/11 /2014	

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SC_02	Test search customer fail	Authorized User	<p>1. Login account as authorized user successful</p> <p>2. Go to manage customer page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý khác hàng] button <p>3. Search customer fail:</p> <p>Type information do not have in data on [Search] textbox.</p> <p>Example “abcdef”</p>	<p>1. [User] page will be shown</p> <p>2. Manage customer page will be shown</p> <p>3. The result will be shown: “Không tìm thấy kết quả phù hợp”</p>	Pass	29/11 /2014	
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5.3.8. Manage Staff

5.3.8.1. List Staffs

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	List Staffs						
	Steps		<p>1. User logged in system as role admin</p> <p>2. Go to [Quản lý nhân viên] page</p>				

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LS _01	Test view list staffs screen	User have login with “Admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to view list staffs page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown:</p> <p>List staffs will be shown (table)</p>	Pass	30/11/2014	
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5.3.8.2. View Staff Detail

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Staff Detail							
Steps							
			<p>1. User logged in system as role admin</p> <p>2. Go to [Quản lý nhân viên] page</p> <p>3. Click on icon [View] button</p>				
VS _01	Test view list staffs screen	User have login with “Admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to view list staffs page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button <p>3. Go to view staff detail:</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown:</p> <p>List staffs will be shown (table)</p> <p>3. The popup detail of the</p>	Pass	30/11/2014	

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			Click on icon [View] button of staff want to view detail	staff will be shown			
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5.3.8.3. Add New Staff

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Staff							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to [Quản lý nhân viên] page 3. Click on [Thêm nhân viên] button 4. Input information and click [Tạo mới] button. 							
ST _01	Test Add new staff screen	User have login with “Admin” role	1. Login account as “Admin” role successful 2. Go to manage staff page: - Click on user account in right of the top. - Click [Quản lý nhân viên] button 3. Go to add new staff screen: Click [Thêm nhân viên] button	1. [User] page will be shown 2. Manage staff page will be shown 3. “Thêm nhân viên” Popup is displayed correctly Two button [Làm trống], [Tạo mới]	Pass	30/11 /2014	

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ST _02	Test Add new staff Blank Field	ST _01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p> <p>4. Add new staff with blank field: Click [Thêm mới] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Thêm nhân viên” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed in current filed (field with * label with red color) require input data.</p>	Pass	30/11 /2014	
ST _03	Test Add new staff Add Successfull y	ST _01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p>	Pass	30/11 /2014	

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			<p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p> <p>4. Add new staff:</p> <ul style="list-style-type: none"> - Input all information in all field. - Click [Thêm mới] button 	<p>3. “Thêm nhân viên” Popup is displayed correctly Two button [Làm trống], [Tạo mới]</p> <p>4. Successful message is displayed. “Tạo nhân viên thành công!”</p> <p>New Staff is inserted and display in Staff View</p>			
ST _04	Test Add new staff Clear data	ST _01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p> <p>4. Clear data in “Thêm nhân viên” popup:</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Thêm nhân viên” Popup is displayed correctly Two button [Làm trống], [Tạo mới]</p> <p>4. All field is reset to blank.</p>	Pass	30/11 /2014	

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			<ul style="list-style-type: none"> - Input all information in all field. -Click [Làm trống] button 				
ST _05	Test Add new staff Input username is exist in database	ST _01 Have use thuannh in databasse	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p> <p>4. Add new staff with input username is exist in database:</p> <ul style="list-style-type: none"> - Input all information in all field. -Input “thuannh” in to “Tên đăng nhập” textbox -Click [Tạo mới] button 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Thêm nhân viên” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed. “Tên đăng nhập nhân viên đã tồn tại!”</p>	Pass	30/11 /2014	

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ST _06	Test Add new staff Input regular expression in username	ST _01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p> <p>4. Add new staff with input regular expression in username:</p> <ul style="list-style-type: none"> - Input all information in all field. - Input regular expression into “Tên đăng nhập” textbox. Example “thuan!@#” 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Thêm nhân viên” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed.</p> <p>“Tên đăng nhập không được chứa ký tự đặc biệt”</p>	Pass	30/11 /2014	
ST _07	Test Add new staff Input regular expression in Email	ST _01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p>	Pass	30/11 /2014	

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			<ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button 3. Go to add new staff screen: Click [Thêm nhân viên] button 4. Add new staff with input regular expression in email: - Input all information in all field. -Input regular expression in to “Email” textbox. Example “thuaninfo” - Click [Thêm mới] textbox 	<p>3. “Thêm nhân viên” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed.</p> <p>“Hãy nhập địa chỉ email đúng”</p>			
ST _08	Test Add new staff Input Character in numeric's fields	ST _01	<ul style="list-style-type: none"> 1. Login account as “Admin” role successful 2. Go to manage staff page: - Click on user account in right of the top. - Click [Quản lý nhân viên] button 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p>	Pass	30/11 /2014	

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			<p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p> <p>4. Add new staff with input character in numeric's field: - Input all information in all field. -Input character into “Điện thoại di động”, “Điện thoại nhà riêng”, “Số tài khoản”, “Mã số thuế” textbox. Example “asdfg”</p>	<p>3. “Thêm nhân viên” Popup is displayed correctly Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed: Can not input character in this fields</p>			
ST_09	Test Cancel add new staff	ST_01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page: - Click on user account in right of the top. - Click [Quản lý nhân viên] button</p> <p>3. Go to add new staff screen: Click [Thêm nhân viên] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p>	Pass	30/11 /2014	

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			4. Cancel add new staff: Click “X” button	Two button [Làm trống], [Tạo mới] 4. The Add new staff pop-up is closed			
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5.3.8.4. Edit Staff

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Staff							
Steps							
			<p>1. User logged in system as role admin</p> <p>2. Go to [Quản lý nhân viên] page</p> <p>3. Click on icon [Edit] button</p> <p>4. Input new information and click [Lưu chỉnh sửa] button.</p>	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button <p>3. Go to edit staff screen:</p> <p>Click on [edit] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Chi tiết nhân viên” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p>	Pass	30/11 /2014
ES_01	Test edit staff screen	User have login with “Admin” role					

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ES_02	Test edit staff Blank Field	ES_01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button <p>3. Go to edit staff screen: Click on [edit] button</p> <p>4. Edit staff with blank field:</p> <ul style="list-style-type: none"> - Clear data in all fields - Click [Lưu chỉnh sửa] button 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Chi tiết nhân viên” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed in current field (field with * label with red color) require input data.</p>	Pass	30/11 /2014	
ES_03	Test edit staff Successfull y	ES_01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p>	Pass	30/11 /2014	

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			<p>right of the top.</p> <ul style="list-style-type: none"> - Click on [Quản lý nhân viên] button <p>3. Go to edit staff screen:</p> <p>Click on [edit] button</p> <p>4. Edit staff successful:</p> <ul style="list-style-type: none"> - Update information in field - Click [Lưu chỉnh sửa] button 	<p>3. “Chi tiết nhân viên” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Successful message is displayed.</p> <p>“Cập nhật chi tiết nhân viên thành công!”</p> <p>New information Staff is inserted</p>			
ES_04	<p>Test edit staff</p> <p>Input regular expression in Email</p>	ES_01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to edit staff screen:</p> <p>Click on [edit] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Chi tiết nhân viên” Popup is displayed correctly</p>	Pass	30/11 /2014	

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			<p>4. Edit staff with input regular expression in email:</p> <ul style="list-style-type: none"> - Input all information in all field. -Input regular expression in to “Email” textbox. Example “thuaninfo” - Click [Lưu chỉnh sửa] button 	<p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed.</p> <p>“Hãy nhập địa chỉ email đúng”</p>			
ES_05	<p>Test edit staff</p> <p>Input Character in numeric’s fields</p>	ES_01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to edit staff screen:</p> <p>Click on [edit] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Chi tiết nhân viên” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p>	Pass	30/11 /2014	

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			<p>4. Edit staff with input character in numeric's field:</p> <ul style="list-style-type: none"> - Input all information in all field. -Input character into “Điện thoại di động”, “Điện thoại nhà riêng”, “Số tài khoản”, “Mã số thuế” textbox. <p>Example “asdfg”</p>	<p>4. Error message is displayed:</p> <p>Can not input character in this fields</p>			
ES_06	Test Cancel edit staff	ES_01	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to edit staff screen:</p> <p>Click on [edit] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Chi tiết nhân viên” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. The Edit staff pop-up is closed</p>	Pass	30/11 /2014	

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			4. Cancel edit staff: Click on “Đóng” or “X” button				
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5.3.8.5. Deactivate/Activate Staff

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Staff							
Steps							
			1. User logged in system as role admin 2. Go to [Quản lý nhân viên] page 3. Click on icon [Edit] button 4. Click on Deactivate/Activate, then click on “Xác nhận” button.	1. Login account as “Admin” role successful 2. Go to manage staff page: - Click on user account in right of the top. - Click on [Quản lý nhân viên] button 3. Go to edit staff screen: Click on [edit] button 4. Deactivate/Activate office:	1. [User] page will be shown 2. Manage staff page will be shown 3. “Chi tiết nhân viên” Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa]	Pass	30/11/2014
CS_01	Test Deactivate/Activate staff	User have login with “Admin” role					

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			<ul style="list-style-type: none"> - Click on [Ngừng hoạt động]/[Hoạt động lại] button - Click on [Xác nhận] button 	<p>4. Staff wil be Deactivate/Activated:</p> <p>A notice message will be shown "Nhân viên đã ngừng hoạt động"/"Nhân viên đã hoạt động lại"</p>			
CS_02	Test Cancel Deactivate/Activate staff	User have login with "Admin" role	<ul style="list-style-type: none"> 1. Login account as "Admin" role successful 2. Go to manage staff page: <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button 3. Go to edit staff screen: <ul style="list-style-type: none"> Click on [edit] button 4. Cancel Deactivate/Activate office: <ul style="list-style-type: none"> - Click on [Ngừng hoạt động]/[Hoạt động lại] button - Click on [Bỏ Qua] button 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. Manage staff page will be shown 	<ul style="list-style-type: none"> 3. "Chi tiết nhân viên" Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa] 4. The popup confirm will be closed 		

5.3.8.6. Search Staff

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Staff							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system as role admin 2. Go to [Quản lý nhân viên] page 3. Type in [Search] textbox 4. Result will be shown 							
SS_01	Test Search staff successful	User have login with “Admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button <p>3. Search staff successful:</p> <p>Type information already have in data on [Search] textbox.</p> <p>Example “Hòa Thuận”</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. The result will be found and shown:</p> <p>[Tên nhân viên],[Chức vụ],[Địa chỉ liên hệ],[Điện thoại],[Vai trò],[Trạng thái]</p>	Pass	30/11 /2014	

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SS_02	Test search staff fail	User have login with “Admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý nhân viên] button <p>3. Search staff fail:</p> <p>Type information do not have in data on [Search] textbox. Example “abcdef”</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. The result will be shown: “Không tìm thấy kết quả phù hợp”</p>	Fail	30/11 /2014	
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5.3.8.7. Reset Password

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Reset Password							
Steps							
<ol style="list-style-type: none"> 1. Go to Manage Staff page 2. Choose one staff and click [Edit] button. 3. Click “Đặt lại mật khẩu” link 							

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ST _16	Test Reset Password screen	User have login with role supper administrator	<p>1. Login account with role supper administrator successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button <p>3. Go to edit staff sreen:</p> <p>Click on icon [Edit] button</p> <p>4. Go to reset password sreen:</p> <p>Click [Đặt lại mật khẩu] link</p>	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p> <p>3. “Chi tiết nhân viên” popup will be shown</p> <p>4. Conrfirm Popup is displayed</p> <p>Two button [BỎ QUA], [XÁC NHẬN]</p>	Pass	30/11 /2014	
ST _17	Test Reset Password Click [BỎ QUA] button	User have login with role supper administrator	<p>1. Login account with role supper administrator successful</p> <p>2. Go to manage staff page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. 	<p>1. [User] page will be shown</p> <p>2. Manage staff page will be shown</p>	Pass	30/11 /2014	

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			<ul style="list-style-type: none"> - Click [Quản lý nhân viên] button 3. Go to edit staff screen: Click on icon [Edit] button 4. Go to reset password screen: Click [Đặt lại mật khẩu] link 5. Cancel reset password: Click [BỎ qua] button 	<ul style="list-style-type: none"> 3. “Chi tiết nhân viên” popup will be shown 4. Conrfirm Popup is displayed Two button [BỎ qua], [Xác nhận] 5. Back to “Chi tiết nhân viên” Popup and password of staff is not reset to default. 			
ST _18	Test Reset Password Successfull y	User have login with role supper administrator	<ul style="list-style-type: none"> 1. Login account with role supper administrator successful 2. Go to manage staff page: <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý nhân viên] button 3. Go to edit staff screen: Click on icon [Edit] button 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. Manage staff page will be shown 3. “Chi tiết nhân viên” popup will be shown 	Pass	30/11 /2014	

			<p>4. Go to reset password screen:</p> <p>Click [Đặt lại mật khẩu] link</p> <p>5. Reset password successful:</p> <ul style="list-style-type: none"> - Click [Xác nhận] button 	<p>4. Conrfirm Popup is displayed</p> <p>Two button [BỎ QUA], [XÁC NHẬN]</p> <p>5.Successful message is displayed.</p> <p>“Khôi phục mật khẩu thành công!”</p> <p>Password of staff is reset to default “123456”</p>			
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5.3.9. Manage Service

5.3.9.1. List Services

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Services							
Steps							
MA_01	Test view list service	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to view list service:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. 	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown:</p> <p>List all services will be shown(table)</p>	Pass	26/11 /2014	

			- Click [Quản lý dịch vụ] button				
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5.3.9.2. View Service Detail

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Service Detail							
Steps							
VS_01	Test view service detail	Login with “admin” role	1. Login account as “Admin” role successful 2. Go to view list services: - Click on user account in right of the top. - Click [Quản lý dịch vụ] button 3. Go to view service detail: Click on icon [View] of service want to view detail	1. [User] page will be shown 2. Manage service page will be shown: List all services will be shown(tab le) 3. The “Chi Tiết Dịch Vụ”	Pass	26/11 /2014	

				popup will be shown			
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5.3.9.3. Add New Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Service							
Steps							
1. Go to Manage Service page							
MA_01	Test Add new Service screen	Login with “admin” role	1. Login account as “Admin” role successful 2. Go to manage service page: - Click on user account in right of the top. - Click [Quản lý dịch vụ] button 3. Go to add new service screen: Click [Thêm dịch vụ] button	1. [User] page will be shown 2. Mange service page will be shown 3. “Thêm dịch vụ” Popup is displayed correctly Two button [Dóng], [Tạo mới]	Pass	26/11 /2014	

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MA _02	Test Add new Service screen	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý dịch vụ] button <p>3. Go to add new service screen:</p> <p>Click [Thêm dịch vụ] button</p> <p>4. Go to add new service with blank field:</p> <p>Click [Thêm mới] button</p>	<p>1. [User] page will be shown</p> <p>2. Mange service page will be shown</p> <p>3. “Thêm dịch vụ” Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo mới]</p> <p>4. Error message is displayed in current filed (field with * label with red color) require input data.</p>	Pass	26/11 /2014	
MA _03	Test Add new Service screen Add Successfull y	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. 	<p>1. [User] page will be shown</p> <p>2. Mange service page will be shown</p>	Pass	26/11 /2014	

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			<ul style="list-style-type: none"> - Click [Quản lý dịch vụ] button <p>3. Go to add new service screen:</p> <p>Click [Thêm dịch vụ] button</p> <p>4. Add new service successful:</p> <ul style="list-style-type: none"> - Input all information in all field. - Click [Thêm mới] button 	<p>3. “Thêm dịch vụ” Popup is displayed correctly</p> <p>Two button [Đóng], [Tạo mới]</p> <p>4. Successful message is displayed.</p> <p>“Tạo dịch vụ thành công!”</p> <p>New Service is inserted and display in Service View</p>			
MA_04	Test Cancel add new Service	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý dịch vụ] button <p>3. Go to add new service screen:</p>	<p>1. [User] page will be shown</p> <p>2. Mange service page will be shown</p> <p>3. “Thêm dịch vụ” Popup is</p>	Pass	26/11 /2014	

			<p>Click “Thêm dịch vụ” button</p> <p>4. Cancel add new service:</p> <p>Click “Đóng” button</p>	<p>displayed correctly</p> <p>Two button [Đóng], [Tạo mới]</p> <p>4. The Add service pop-up is closed</p>			
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5.3.9.4. Edit Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Service							
Steps							
			<p>1. User logged in system with role Admin</p> <p>2. Go to Manage Service page</p> <p>3. Click on icon [Edit] button</p> <p>4. Input information, then click on [Lưu chỉnh sửa] button</p>				
ES_01	Test Edit Service screen	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý dịch vụ] button <p>3. Go to edit service screen:</p> <p>Click on icon [Edit] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p> <p>3. “Chi Tiết Dịch Vụ” Popup is displayed correctly</p>	Pass	26/11 /2014	

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					Two button [Đóng], [Lưu chỉnh sửa]			
AS_02	Test Edit Service Blank Field	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý dịch vụ] button <p>3. Go to edit service screen:</p> <p>Click on icon [Edit] button</p> <p>4. Go to edit service with blank field:</p> <ul style="list-style-type: none"> - Clear data in all field - Click on [Lưu chỉnh sửa] button 	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p> <p>3. “Chi Tiết Dịch Vụ” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed in current filed (field with * label with red color) require input data.</p>	Fail	26/11 /2014		
AS_03	Test Edit Service Successfull y	Login with “admin” role	1. Login account as “Admin” role successful	1. [User] page will be shown	Pass	26/11 /2014		

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			<p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý dịch vụ] button <p>3. Go to edit service screen:</p> <p>Click on icon [Edit] button</p> <p>4. Edit service successful:</p> <ul style="list-style-type: none"> - Update all information in all field. - Click [Lưu chỉnh sửa] button 	<p>2. Manage service page will be shown</p> <p>3. “Chi Tiết Dịch Vụ” Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Successful message is displayed. “Chỉnh sửa dịch vụ thành công!” New information is inserted</p>		
AS_04	Test Cancel Edit Service	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. 	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p> <p>3. “Chi Tiết Dịch Vụ” Popup is</p>	Pass	26/11 /2014

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			<p>- Click on [Quản lý dịch vụ] button</p> <p>3. Go to edit service screen:</p> <p>Click on icon [Edit] button</p> <p>4. Cancel edit service:</p> <p>Click “Đóng” or “X” button</p>	<p>displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. The edit service pop-up is closed</p>			
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5.3.9.5. Delete Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Delete Service							
Steps							
			<p>1. User logged in system with role Admin</p> <p>2. Go to Manage Service page</p> <p>3. Click on icon [Delete] button</p>	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <p>- Click on user account in right of the top.</p>	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p>	Pass	26/11 /2014
ES_01	Test Delete Service screen	Login with “admin” role					

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			<ul style="list-style-type: none"> - Click on [Quản lý dịch vụ] button 3. Go to delete service screen: Click on icon [Delete] button 	<ul style="list-style-type: none"> 3. The popup confirm will be shown: Two button [BỎ QUA], [XÁC NHẬN] 			
ES_02	Test Delete Service Successful	Login with “admin” role	<ul style="list-style-type: none"> 1. Login account as “Admin” role successful 2. Go to manage service page: - Click on user account in right of the top. - Click on [Quản lý dịch vụ] button 3. Delete service: - Click on icon [Delete] button - Click on [Xác Nhận] button 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. Manage service page will be shown 3. Service will be deleted: A notice message will be shown “Xóa dịch vụ thành công!” The page will be reloaded 	Pass	26/11 /2014	

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ES_03	Test Cancel Delete Service	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý dịch vụ] button <p>3. Cancel delete service:</p> <ul style="list-style-type: none"> - Click on icon [Delete] button - Click on “BỎ QUÁ” or “X” button 	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p> <p>3. The popup confirm will be closed</p>	Pass	26/11 /2014	
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5.3.9.6. Search Service

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Search Service						
	Steps		1. User logged in system with role Admin				

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<p>2. Go to Manage Service page</p> <p>3. Type in [Search] textbox</p> <p>4. Result will be shown</p>								
SS_01	Test Search Service Successful	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý dịch vụ] button <p>3. Search service successful:</p> <p>Type information already have in data on [Search] textbox.</p> <p>Example “tranh cháp”</p>	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p> <p>3. The result will be found and shown: [Tên dịch vụ],[Mô tả],[Loại dịch vụ]</p>	Pass	26/11 /2014		
SS_02	Test Search Service Fail	Login with “admin” role	<p>1. Login account as “Admin” role successful</p> <p>2. Go to manage service page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. 	<p>1. [User] page will be shown</p> <p>2. Manage service page will be shown</p>	Pass	26/11 /2014		

			<ul style="list-style-type: none"> - Click on [Quản lý dịch vụ] button 3. Search service fail: <p>Type information do not have in data on [Search] textbox. Example “abcdef”</p>	<ul style="list-style-type: none"> 3. The result will be shown: “Không tìm thấy kết quả phù hợp” 			
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5.3.10. Statistics

5.3.10.1. Statistics of revenue by office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Statistics of revenue office in 12 months							
<p>Steps</p> <ol style="list-style-type: none"> 1. User logged in system 2. Go to [Thông kê] page 3. Click on [Doanh thu] button 4. Click on [Trong 12 tháng] tab 							
VS_01	Test view Statistics of revenue office in 12 months screen	User have login with role administrator	<ol style="list-style-type: none"> 1. Login account as administrator role successful 2. Go to Statistics page: <ul style="list-style-type: none"> - Click on user account in right of the top. 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. Statistics page will be shown 	Pass	27/11 /2014	

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			<ul style="list-style-type: none"> - Click on [Thống kê] button 3. Go to view Statistics of revenue office in 12 months: - Click on [Doanh thu] button - Click on [Trong 12 tháng] tab 	<ul style="list-style-type: none"> 3. Statistics of revenue office in 12 months will be shown 			
VS_02	Test choose office to view Statistics of revenue office in 12 months	VS_01	<ul style="list-style-type: none"> 1. Login account as administrator role successful 2. Go to Statistics page: - Click on user account in right of the top. - Click on [Thống kê] button 3. Go to view Statistics of revenue office in 12 months: - Click on [Doanh thu] button - Click on [Trong 12 tháng] tab 4. Choose office to view 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. Statistics page will be shown 3. Statistics of revenue office in 12 months will be shown 4. The revenue office want to view Statistics of revenue office in 12 months will be shown 	Pass	27/11 /2014	

			<p>Statistics of revenue office in 12 months:</p> <ul style="list-style-type: none"> - Click on [Chọn văn phòng] (dropdown) - Choose one office want to view Statistics of revenue office in 12 months 				
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5.3.10.2. Statistics of case by office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Statistics of case office in 12 months							
Steps							
	1. User logged in system 2. Go to [Thống kê] page 3. Click on [Văn phòng] button 4. Click on [Trong 12 tháng] tab						
VS_01	Test view Statistics of case office in 12 months screen	User have login with role administrator	<p>1. Login account as administrator role successful</p> <p>2. Go to Statistics page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Thống kê] button 3. Go to view Statistics of case 	<p>1. [User] page will be shown</p> <p>2. Statistics page will be shown</p> <p>3. Statistics of case office in</p>	Pass	27/11 /2014	

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			<p>office in 12 months:</p> <ul style="list-style-type: none"> - Click on [Văn phòng] button - Click on [Trong 12 tháng] tab 	12 months will be shown			
VS_02	<p>Test choose office to view Statistics of case office in 12 months</p>	VS_01	<p>1. Login account as administrator role successful</p> <p>2. Go to Statistics page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Thống kê] button <p>3. Go to view Statistics of case office in 12 months:</p> <ul style="list-style-type: none"> - Click on [Văn phòng] button - Click on [Trong 12 tháng] tab <p>4. Choose office to view Statistics of case office in 12 months:</p> <ul style="list-style-type: none"> - Click on [Chọn văn phòng] (dropdown) - Choose one office want to view Statistics of 	<p>1. [User] page will be shown</p> <p>2. Statistics page will be shown</p> <p>3. Statistics of case office in 12 months will be shown</p> <p>4. The case office want to view Statistics of case office in 12 months will be shown</p>	Pass	27/11 /2014	

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			case office in 12 months				
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5.3.10.3. Statistics of revenue by staff

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Statistics of revenue by staff in 12 months							
Steps							
	1. User logged in system 2. Go to [Thông kê] page 3. Click on [Nhân viên] button 4. Click on [Trong 12 tháng] tab						
VS_01	Test view Statistics of revenue by staff in 12 months screen	User have login with role administrator	1. Login account as administrator role successful 2. Go to Statistics page: - Click on user account in right of the top. - Click on [Thông kê] button 3. Go to view Statistics of revenue by staff in 12 months: - Click on [Nhân viên] button - Click on [Trong 12 tháng] tab	1. [User] page will be shown 2. Statistics page will be shown 3. Statistics of revenue by staff in 12 months will be shown	Pass	27/11 /2014	

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VS_02	Test choose office to view Statistics of revenue by staff in 12 months	VS_01	<p>1. Login account as administrator role successful</p> <p>2. Go to Statistics page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Thông kê] button <p>3. Go to view Statistics of revenue by staff in 12 months:</p> <ul style="list-style-type: none"> - Click on [Nhân viên] button - Click on [Trong 12 tháng] tab <p>4. Choose office to view Statistics of revenue by staff in 12 months:</p> <ul style="list-style-type: none"> - Click on [Chọn văn phòng] (dropdown) - Choose one office want to view Statistics of revenue by staff in 12 months 	<p>1. [User] page will be shown</p> <p>2. Statistics page will be shown</p> <p>3. Statistics of revenue by staff in 12 months will be shown</p> <p>4. The revenue staff want to view Statistics of revenue by staff in 12 months will be shown</p>	Pass	27/11 /2014	

5.3.11. Manage Office

5.3.11.1. List Offices

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
List Offices							
Steps <ol style="list-style-type: none"> 1. User logged in system 2. Go to [Quản lý văn phòng] page 							
OF_01	Test view list office	User have login with role super administrator	1. Login account as super administrator role successful 2. Go to manage office page: - Click on user account in right of the top. - Click on [Quản lý văn phòng] button	1. [User] page will be shown 2. Manage office page will be shown: List office will be shown(table)	Pass	27/11/2014	

5.3.11.2. View Office Detail

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
View Office Detail							
Steps <ol style="list-style-type: none"> 1. User logged in system 2. Go to [Quản lý văn phòng] page 							

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3. Click on the office want to view detail							
OD_01	Test view office detail	User have login with role supper administrator	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý văn phòng] button <p>3. Go to view office detail:</p> <p>Click on the office want to view detail</p>	<p>1. [User] page will be shown</p> <p>2. Manage office page will be shown: List office will be shown(table)</p> <p>3. The popup detail of the office will be shown</p>	Pass	27/11 /2014	

5.3.11.3. Add New Office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
	Add New Office						
	Steps		<p>1. User logged in system</p> <p>2. Go to [Quản lý văn phòng] page</p> <p>3. Click on [Thêm văn phòng] button</p> <p>4. Input information and click [Tạo mới] button.</p>				

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OF _01	Test Add new office screen	User have login with role supper administrator	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý văn phòng] button <p>3. Go to add new office screen:</p> <p>Click [Thêm văn phòng] button</p>	<p>1. [User] page will be shown</p> <p>2. Mange office page will be shown</p> <p>3.“Thêm văn phòng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p>	Pass	27/11 /2014	
OF _02	Test Add new office Blank Field	OF _01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý văn phòng] button <p>3. Go to add new office screen:</p>	<p>1. [User] page will be shown</p> <p>2. Mange office page will be shown</p> <p>3.“Thêm văn phòng” Popup is displayed correctly</p>	Pass	27/11 /2014	

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			<p>Click [Thêm văn phòng] button</p> <p>4. Add new office with blank field: Click [Thêm mới] button</p>	<p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed in current filed (field with * label with red color) require input data.</p>			
OF _03	Test Add new office Add Successfull y	OF _01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý văn phòng] button <p>3. Go to add new office screen: Click [Thêm văn phòng] button</p> <p>4. Add new office successful:</p>	<p>1. [User] page will be shown</p> <p>2. Mange office page will be shown</p> <p>3.“Thêm văn phòng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Successful message is displayed. “Thêm văn phòng thành công!”</p> <p>New office is inserted and</p>	Pass	27/11 /2014	

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			<ul style="list-style-type: none"> - Input all information in all field. -Click [Thêm mới] button 	display in Office View			
OF_04	Test Add new office Clear data	OF_01	<ol style="list-style-type: none"> 1. Login account as supper administrator role successful 2. Go to manage office page: <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý văn phòng] button 3. Go to add new office screen: Click [Thêm văn phòng] button 4. Clear data in add new office: <ul style="list-style-type: none"> - Input all information in all field. -Click [Làm trống] button 	<ol style="list-style-type: none"> 1. [User] page will be shown 2. Mange office page will be shown 3.“Thêm văn phòng” Popup is displayed correctly Two button [Làm trống], [Tạo mới] 4. All field is reset to blank. 	Pass	27/11 /2014	
OF_05	Test Add new staff	OF_01	1. Login account as	1. [User] page will be shown	Pass	27/11 /2014	

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	Input regular expression in Email	<p>super administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý văn phòng] button <p>3. Go to add new office screen:</p> <p>Click [Thêm văn phòng] button</p> <p>4. Add new staff with input regular expression in email:</p> <ul style="list-style-type: none"> - Input all information in all field. - Input regular expression into “Email” textbox. Example “thuaphaltlai” - Click [Thêm mới] textbox 	<p>2. Mange office page will be shown</p> <p>3.“Thêm văn phòng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Error message is displayed.</p> <p>“Hãy nhập địa chỉ email đúng”</p>		
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Capstone Project: LFMS

OF_06	Test Add new staff Input Character in numeric's fields	OF _01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click [Quản lý văn phòng] button <p>3. Go to add new office screen:</p> <p>Click [Thêm văn phòng] button</p> <p>4. Add new staff with input character in numeric's field:</p> <ul style="list-style-type: none"> - Input all information in all field. -Input character into “Điện thoại di động”, “Mã số thuế” textbox. Example “asdfg” 	<p>1. [User] page will be shown</p> <p>2. Mange office page will be shown</p> <p>3.“Thêm văn phòng” Popup is displayed correctly</p> <p>Two button [Làm trống], [Tạo mới]</p> <p>4. Can not input character in this fields</p>	Pass	27/11 /2014	
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5.3.11.4. Edit Office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Office							
Steps							
1. User logged in system 2. Go to [Quản lý văn phòng] page 3. Click on icon [Edit] button 4. Input information and click [Lưu chỉnh sửa] button.							
EO_01	Test edit office screen	User have login with role supper administrator	1. Login account as supper administrator role successful 2. Go to manage office page: - Click on user account in right of the top. - Click on [Quản lý văn phòng] button 3. Go to edit office screen: Click on icon [Edit] button	1. [User] page will be shown 2. Manage office page will be shown 3. “Chi tiết văn phòng” Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa]	Pass	1/12/2014	
EO_02	Test edit office Blank Field	EO_01	1. Login account as supper administrator role successful 2. Go to manage office page:	1. [User] page will be shown 2. Mange office page will be shown	Pass	1/12/2014	

Capstone Project: LFMS

			<ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý văn phòng] button 3. Go to edit office screen: Click on icon [Edit] button 4. Edit office with blank field: <ul style="list-style-type: none"> - Clear information - Click [Lưu chỉnh sửa] button 	<ul style="list-style-type: none"> 3.“ Chi tiết văn phòng” Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa] 4. Error message is displayed in current filed (field with * label with red color) require input data. 			
EO_03	<p>Test edit office</p> <p>Edit Successfull y</p>	EO_01	<ul style="list-style-type: none"> 1. Login account as supper administrator role successful 2. Go to manage office page: <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý văn phòng] button 3. Go to edit office screen: Click on icon [Edit] button 	<ul style="list-style-type: none"> 1. [User] page will be shown 2. Manage office page will be shown 3.“ Chi tiết văn phòng” Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa] 	Pass	1/12/2014	

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			<p>4. Edit office successful:</p> <ul style="list-style-type: none"> - Input new information - Click [Lưu chỉnh sửa] button 	<p>4. Successful message is displayed.</p> <p>“Cập nhật chi tiết văn phòng thành công!”</p> <p>New information is inserted</p>			
EO_04	<p>Test edit office</p> <p>Input regular expression in Email</p>	EO_01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý văn phòng] button <p>3. Go to edit office screen:</p> <p>Click on icon [Edit] button</p> <p>4. Input regular expression in email:</p> <ul style="list-style-type: none"> - Input all information in all field. - Input regular expression into “Email” textbox. <p>Example “thuaphaltlai”</p>	<p>1. [User] page will be shown</p> <p>2. Manage office page will be shown</p> <p>3. “ Chi tiết văn phòng” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Error message is displayed.</p> <p>“Hãy nhập địa chỉ email đúng”</p>	Pass	1/12/2014	

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			- Click [Lưu chỉnh sửa] button				
EO_06	Test edit office Input Character in numeric's fields	EO _01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page: - Click on user account in right of the top.</p> <p>- Click on [Quản lý văn phòng] button</p> <p>3. Go to edit office screen: Click on icon [Edit] button</p> <p>4. Input character in numeric's field: - Input all information in all field. -Input character into “Điện thoại di động”, “Mã số thuế” textbox. Example “asdfg”</p>	<p>1. [User] page will be shown</p> <p>2. Manage office page will be shown</p> <p>3.“ Chi tiết văn phòng” Popup is displayed correctly</p> <p>Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. Can not input character in this fields</p>	Fail	1/12/2014	

5.3.11.5. Deactivate/Activate Office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Deactivate/Activate Office							
Steps <ol style="list-style-type: none"> 1. User logged in system 2. Go to [Quản lý văn phòng] page 3. Click on icon [Edit] button 4. Choose Deactivate/Activate and click on [Xác nhận] button 							
EO_01	Test Deactivate/Activate office	User have login with role supper administrator	1. Login account as supper administrator role successful 2. Go to manage office page: - Click on user account in right of the top. - Click on [Quản lý văn phòng] button 3. Go to edit office screen: Click on icon [Edit] button 4. Deactivate/Activate office: - Click on [Ngừng hoạt động]/[Hoạt động lại] button - Click on [Xác nhận] button	1. [User] page will be shown 2. Manage office page will be shown 3. “Chi tiết văn phòng” Popup is displayed correctly Two button [Đóng], [Lưu chỉnh sửa] 4. The office will be Deactivated/Activated: A notice message will be shown “Văn	Pass	1/12/2014	

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				phòng đã ngừng hoạt động”/”Văn phòng đã hoạt động lại”			
EO_02	Test cancel Deactivate/ Activate office	EO_01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page: - Click on user account in right of the top.</p> <p>- Click on [Quản lý văn phòng] button</p> <p>3. Go to edit office screen: Click on icon [Edit] button</p> <p>4. Deactivate/Act ivate office: - Click on [Ngừng hoạt động]/[Hoạt động lại] button - Click on [Bỏ Qua] button</p>	<p>1. [User] page will be shown</p> <p>2. Manage office page will be shown</p> <p>3.“Chi tiết văn phòng” Popup is displayed corectly Two button [Đóng], [Lưu chỉnh sửa]</p> <p>4. The popup confirm will be closed</p>	Pass	1/12/ 2014	

5.3.11.6. Search Office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Search Office							
Steps							
			<ol style="list-style-type: none"> 1. User logged in system 2. Go to [Quản lý văn phòng] page 3. Type in [Search] textbox 4. Result will be shown 	<ol style="list-style-type: none"> 1. Login account as supper administrator role successful 2. Go to manage office page: <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý văn phòng] button 3. Search office successful: <p>Type information already have in data on [Search] textbox. Example “Thuận nguyễn” or “thuan nguyen”</p> 	Pass	1/12/2014	
SO_01	Test search office successful	User have login with role supper administrator					

EO_02	Test search office fail	EO_01	<p>1. Login account as supper administrator role successful</p> <p>2. Go to manage office page:</p> <ul style="list-style-type: none"> - Click on user account in right of the top. - Click on [Quản lý văn phòng] button <p>3. Search office fail:</p> <p>Type information do not have in data on [Search] textbox. Example “abcdef”</p>	<p>1. [User] page will be shown</p> <p>2. Manage office page will be shown</p> <p>3. The result will be shown: “Không tìm thấy kết quả phù hợp”</p>	Pass	1/12/2014	
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5.4. Checklists

5.4.1. Checklist of Validation

#	Question	Yes	No	N/A
1	Does a failure of validation on every field cause a sensible user error symbol?			
2	Is the user required to fix entries which have failed validation tests?			
3	Have any fields got multiple validation rules and if so are all rules being applied?			

4	If the user enters an invalid value and clicks on the insert button is the invalid entry identified and highlighted correctly with an error symbol?			
5	Is validation consistently applied at screen level unless specifically required at field level?			
6	For all numeric fields check whether negative numbers can and should be able to be entered.			
7	For all numeric fields check the minimum and maximum values and also some mid-range values allowable?			
8	For all character/alphanumeric fields check the field to ensure that there is a character limit specified and that this limit is exactly correct for the specified database size?			
9	Do all mandatory fields require user input?			
10	If any of the database columns do not allow null values then the corresponding screen fields must be mandatory. (If any field which initially was mandatory has become optional then check whether null values are allowed in this field.)			

5.4.2. Checklist for user interface

#	Question	Yes	No	N/A
USABILITY				
1	Are the entire field prompts spelt correctly?			
2	Are fonts too large or too small to read?			
3	Are names in command button & option box names are not abbreviations.			
4	Assure that option boxes, option buttons, and command buttons are logically grouped together in clearly demarcated areas "Group Box"			
5	Can the typical user run the system without frustration?			

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6	Does the site have a consistent, clearly recognizable "look-& feel"?			
7	Is all terminology understandable for all of the site's intended users?			
USER INTERFACE TESTING-COLOR				
1	Are hyperlink colors standard?			
2	Are the field prompts the correct color?			
3	Are the field backgrounds the correct color?			
4	Are the screen and field colors adjusted correctly for non-editable mode?			
5	Does the site use (approximately) standard link colors?			
6	Are all the buttons are in standard format and size?			
7	Is the general screen background the correct color?			
8	Is the page background (color) distraction free?			
USER INTERFACE TESTING-CONTENT				
1	All fonts to be the same			
2	Are all the screen prompts specified in the correct screen font?			
3	Is all text properly aligned?			
4	Is the text in all fields specified in the correct screen font?			
5	Is all the headings left aligned?			
6	Does the first letter of the second word appear in lowercase?			

5.4.1. Checklist for document

#	Question	Yes	No	N/A
TABLES AND FIGURES				
1	Does every table column, including the stub column, have a heading?			
2	Are references cited both in text and in the reference list?			
3	Is lettering in a figure no smaller than 12 points and no larger than 14 points?			
4	Are all figures and tables mentioned in the text and numbered in the order in which they are mentioned?			
REFERENCES				
1	Are references cited both in text and in the reference list?			
2	Do the text citations and reference list entries agree both in spelling and in date?			
3	Are journal titles in the reference list spelled out fully?			
4	Are the references (both in the parenthetical text citations and in the reference list) ordered alphabetically by the authors' surnames?			
5	Are inclusive page numbers for all articles or chapters in books provided in the reference list?			
6	Are references to studies included in your meta-analysis preceded by an asterisk?			
FORMAT				
1	Have you checked the journal's website for instructions to authors regarding specific formatting requirements for submission?			

2	Is the entire manuscript—including quotations, references, author note, content footnotes, and figure captions—double-spaced? Is the manuscript neatly prepared?			
3	Are the margins at least 1 in. (2.54 cm)?			
4	Are the title pages, abstracts, references, appendices, content footnotes, tables, and figures on separate pages (with only one table or figure per page)? Are the figure captions on the same page as the figures? Are manuscript elements ordered in sequence, with the text pages between the abstract and the references?			
PARAGRAPHS AND HEADINGS				
1	Is each paragraph longer than a single sentence but not longer than one manuscript page?			
2	Do the levels of headings accurately reflect the organization of the paper?			
3	Do all headings of the same level appear in the same format?			

5.5. Test Logs

5.5.1. Defect Logs

No	Module name	Defect	Priority	Status	Assign to	Fix on	Retest on
1	Edit Operation event	After updated successful, the event is shown not enough.	High	Complete	HoangLD	19/11/2014	20/11/2014

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2	Search lawyer related	When input wrong name, the result still be shown.	High	Complete	HoangLD	19/11/2014	20/11/2014
3	Search Staff	The result after search are wrong.	High	Complete	DuyPV	20/11/2014	22/11/2014
4	Edit Service	Edit with blank field, Error message aren't be shown.	High	Complete	KhiemDN	21/11/2014	23/11/2014
5	Edit Office	In numeric field, user can input character.	High	Complete	KhiemDN	27/11/2014	29/11/2014

5.5.2. Test Report

Project Name	Website of Law Firm Management System.	Creator	TuanTA
Project Code	LFMS	Reviewer/Approver	SangNV
Document Code	LFMS_TestReport	Issue Date	December 5 th 2014

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No	Function	Test Case				Checklist			Total
		Pass	Fail	Untested	N/A	Pass	Fail	N/A	
Web Module									
1	Login	6	0	0	0	27	0	4	37
2	Logout	1	0	0	0	22	0	9	32
3	Change password	7	0	0	0	29	0	2	38
4	List calendar events	1	0	0	0	25	0	24	50
5	Add new calendar event	4	0	0	0	31	0	0	35
6	Edit calendar event	2	0	0	0	31	0	0	35
7	Delete calendar event	2	0	0	0	24	0	7	33
8	Search calendar event	2	0	0	0	27	0	4	33
9	List all cases	1	0	0	0	25	0	6	32
10	Add new case	7	0	0	0	31	0	18	56
11	Search case	1	0	0	0	27	0	4	32
12	View Case Info	1	0	0	0	25	0	6	32
13	Edit case info	4	0	0	0	31	0	0	35
14	List operation events	1	0	0	0	25	0	6	32
15	View operation event detail	1	0	0	0	25	0	6	32

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16	Add new operation event	7	0	0	0	31	0	0	38
17	Edit operation event	5	1	0	0	31	0	0	38
18	Delete operation event	2	0	0	0	24	0	7	33
19	List lawyer related	1	0	0	0	25	0	24	32
20	View lawyer related detail	1	0	0	0	25	0	6	32
21	Assign lawyer related	5	0	0	0	31	0	0	36
22	Remove lawyer related	2	0	0	0	24	0	7	33
23	Search lawyer related	2	1	0	0	25	0	6	33
24	List customers related	1	0	0	0	25	0	6	32
25	View customer related detail	1	0	0	0	25	0	6	32
26	Add customer related	5	0	0	0	31	0	0	36
27	Remove customer related	2	0	0	0	24	0	7	33
28	Search customer related	2	0	0	0	25	0	7	33
29	List subjects related	1	0	0	0	25	0	6	32
30	Add new subject related	7	0	0	0	31	0	0	38

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31	Edit subject related	7	0	0	0	31	0	0	38
32	Delete subject related	3	0	0	0	24	0	7	34
33	View Document Related	1	0	0	0	25	0	6	32
34	View Document Related Detail	1	0	0	0	25	0	6	32
35	Upload Document Related	4	0	0	0	31	0	0	35
36	Edit Document Related	5	0	0	0	31	0	0	36
37	Delete Document Related	3	0	0	0	24	0	7	34
38	Search Document Related	2	0	0	0	25	0	6	33
39	View User Services	1	0	0	0	25	0	6	32
40	Add New User Services	5	0	0	0	31	0	0	36
41	Edit User Service	5	0	0	0	31	0	0	36
42	Delete User Service	3	0	0	0	24	0	7	36
43	View Payments	1	0	0	0	25	0	6	32
44	Add New Payment	5	0	0	0	31	0	0	36

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45	Edit Payment	5	0	0	0	31	0	0	36
46	Delete Payment	3	0	0	0	24	0	7	34
47	List customers	1	0	0	0	25	0	6	32
48	View customer detail	1	0	0	0	25	0	6	32
49	Add new customer	7	0	0	0	31	0	0	38
50	Edit customer	6	0	0	0	31	0	0	37
51	Delete customer	3	0	0	0	24	0	7	34
52	Search customer	2	0	0	0	25	0	6	33
53	List staffs	1	0	0	0	25	0	6	32
54	View staff detail	1	0	0	0	25	0	6	32
55	Add new staff	9	0	0	0	31	0	0	40
56	Edit staff	6	0	0	0	31	0	0	40
57	Deactive/Active staff	2	0	0	0	24	0	7	33
58	Search staff	2	1	0	0	25	0	7	33
59	Reset password	3	0	0	0	24	0	25	52
60	List services	1	0	0	0	25	0	6	32
61	View service detail	1	0	0	0	25	0	6	32
62	Add new service	4	0	0	0	31	0	0	35

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63	Edit service	4	1	0	0	31	0	0	35
64	Delete service	3	0	0	0	24	0	7	34
65	Search service	2	0	0	0	25	0	6	33
66	Statistics of revenue by office	2	0	0	0	25	0	6	33
67	Statistics of number of case by office	2	0	0	0	25	0	6	33
68	Statistics of revenue by staff	2	0	0	0	25	0	6	33
69	List offices	1	0	0	0	25	0	6	33
70	View office detail	1	0	0	0	25	0	6	32
71	Add new office	6	0	0	0	31	0	0	37
72	Edit office	5	1	0	0	31	0	0	38
73	Deactive/Active office	2	0	0	0	24	0	7	33
74	Search office	2	0	0	0	25	0	6	33
75	Document	0	0	0	0	136	8	0	144
	Total	218	5	0	0	2024	8	406	2661
	Test coverage	100%							
	Test successful coverage	99,5%							

Report No.6: Software User's Manuals

6.1. Installation Guide

6.1.1. Introduction

This document contains guide-lines step by step to use LFMS application, and set up its own database.

6.1.2. Environment

Following are the software required to start the LFMS System:

- Operating System: Windows 7, Windows 8.
- Application server: LFMS application system requires an application server IIS version 7 running on Windows 7
- Browsers: Firefox 20 or higher.
- .NET 4.0 Framework
- Database: SQL Server 2008
- Tool: Microsoft visual studio 2010

6.1.3. Application Installation

6.1.3.1. Database creation

Please follow these steps to create a new database for system:

- **Step 1:** Preparing database

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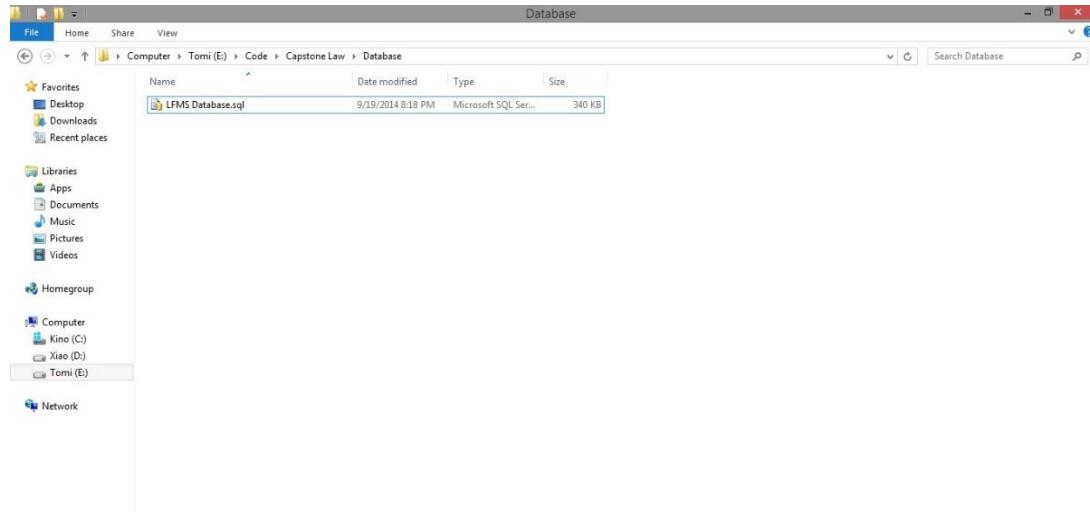


Figure 6-1: Prepare Database

They include a .sql file. The .sql file is database SQL script file.

- Step 2: Import database to SQL Server

Open Script file database using SQL Server

Copy user's directory that has install SQL Server and replace this location in script file.

```
Microsoft SQL Server Management Studio
Tools Window Community Help
LFMS Database.sql...ESS.LFMS (sa (52))
USE [master]
GO
/****** Object: Database [LFMS]      Script Date: 6/3/2014 12:36:05 AM *****/
CREATE DATABASE [LFMS]
ON PRIMARY
( NAME = N'LFMS' , FILENAME = N'C:\Program Files (x86)\Microsoft SQL Server\MSSQL10.SQLEXPRESS\MSSQL\DATA\LFMS.mdf' , SIZE = 4096KB , MAX
LOG ON
( NAME = N'LFMS_log' , FILENAME = N'C:\Program Files (x86)\Microsoft SQL Server\MSSQL10.SQLEXPRESS\MSSQL\DATA\LFMS_log.ldf' , SIZE = 1024
GO
ALTER DATABASE [LFMS] SET COMPATIBILITY_LEVEL = 110
GO
IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
begin
EXEC [LFMS].[dbo].[sp_fulltext_database] @action = 'enable'
end
GO
ALTER DATABASE [LFMS] SET ANSI_NULL_DEFAULT OFF
GO
ALTER DATABASE [LFMS] SET ANSI_NULLS OFF
GO
ALTER DATABASE [LFMS] SET ANSI_PADDING OFF
GO
ALTER DATABASE [LFMS] SET ANSI_WARNINGS OFF
GO
ALTER DATABASE [LFMS] SET ARITHABORT OFF
GO
ALTER DATABASE [LFMS] SET AUTO_CLOSE OFF
GO
ALTER DATABASE [LFMS] SET AUTO_CREATE_STATISTICS ON
GO
ALTER DATABASE [LFMS] SET AUTO_SHRINK OFF
GO
Connected. (1/1) | KHIEMDNSE60595|SQLEXPRESS (...) | sa (52) | LFMS | 00:00:00 | 0 rows
```

Figure 6-2: Execute script database

Excute script file to add new database into SQL Server

6.1.3.2. Setup *Internet Information Services(IIS)*

- **Step 1:** Go Start → Control panel → Click on Programs and Features → Click on Turn Windows features on or off.
- **Step 2:** Select this features in the picture below to install IIS Service.

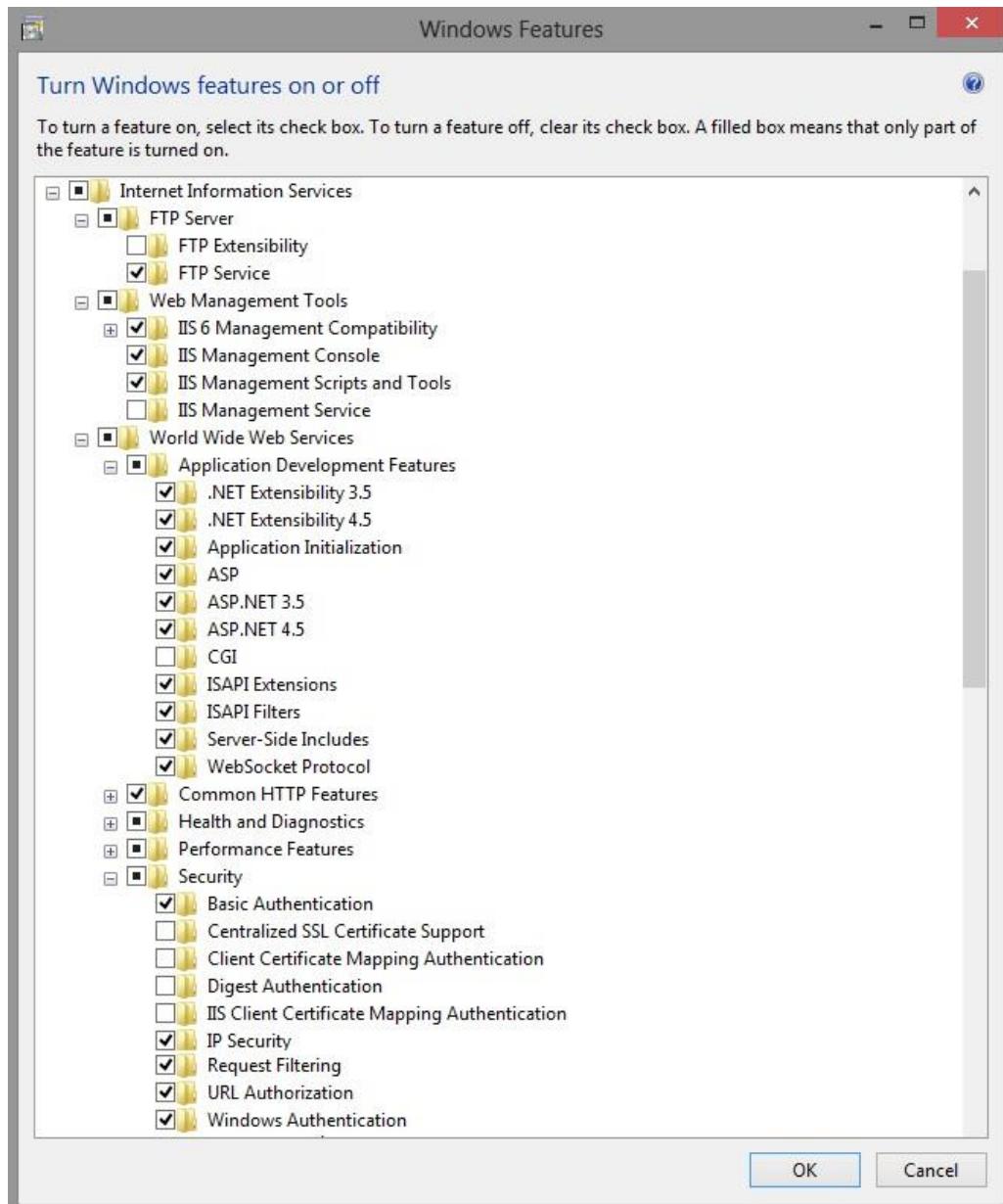


Figure 6-3: Setup IIS-1

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- Step 3: Go Start → type Run → input inetmgr

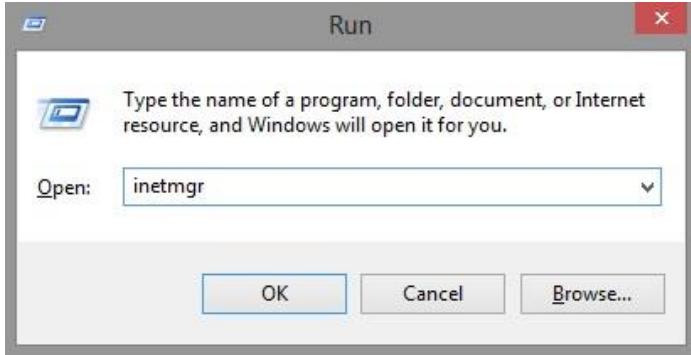


Figure 6-4: Setup IIS-2

- Step 4:** Go Application Pools → Right click to select Add Application Pool → Setup this like the picture below.

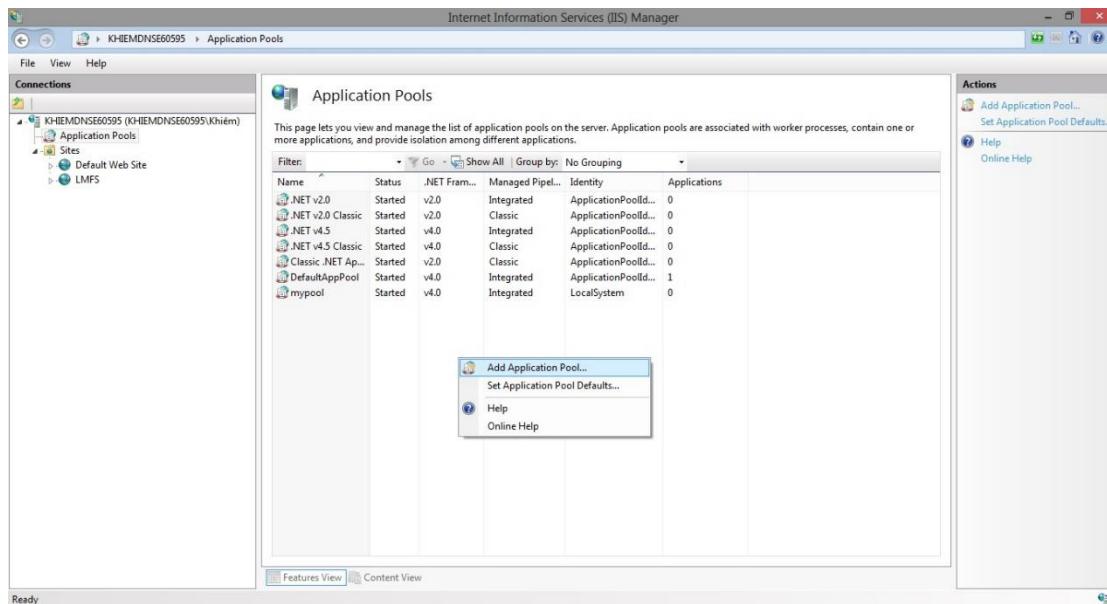


Figure 6-5: Setup IIS-3

Capstone Project: LFMS

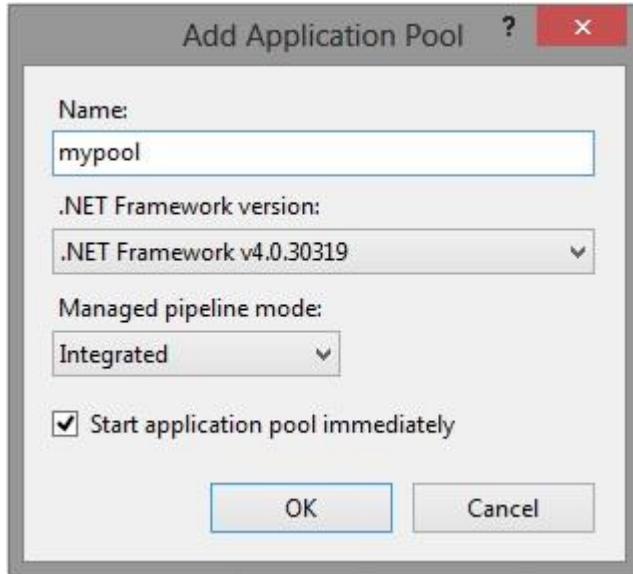


Figure 6-6: Setup IIS-5

- **Step 5:** Open Microsoft SQL Server Management Studio → Go Security → Right click to select New Login → Setup this like the picture below



Figure 6-7: Setup IIS-6

Capstone Project: LFMS

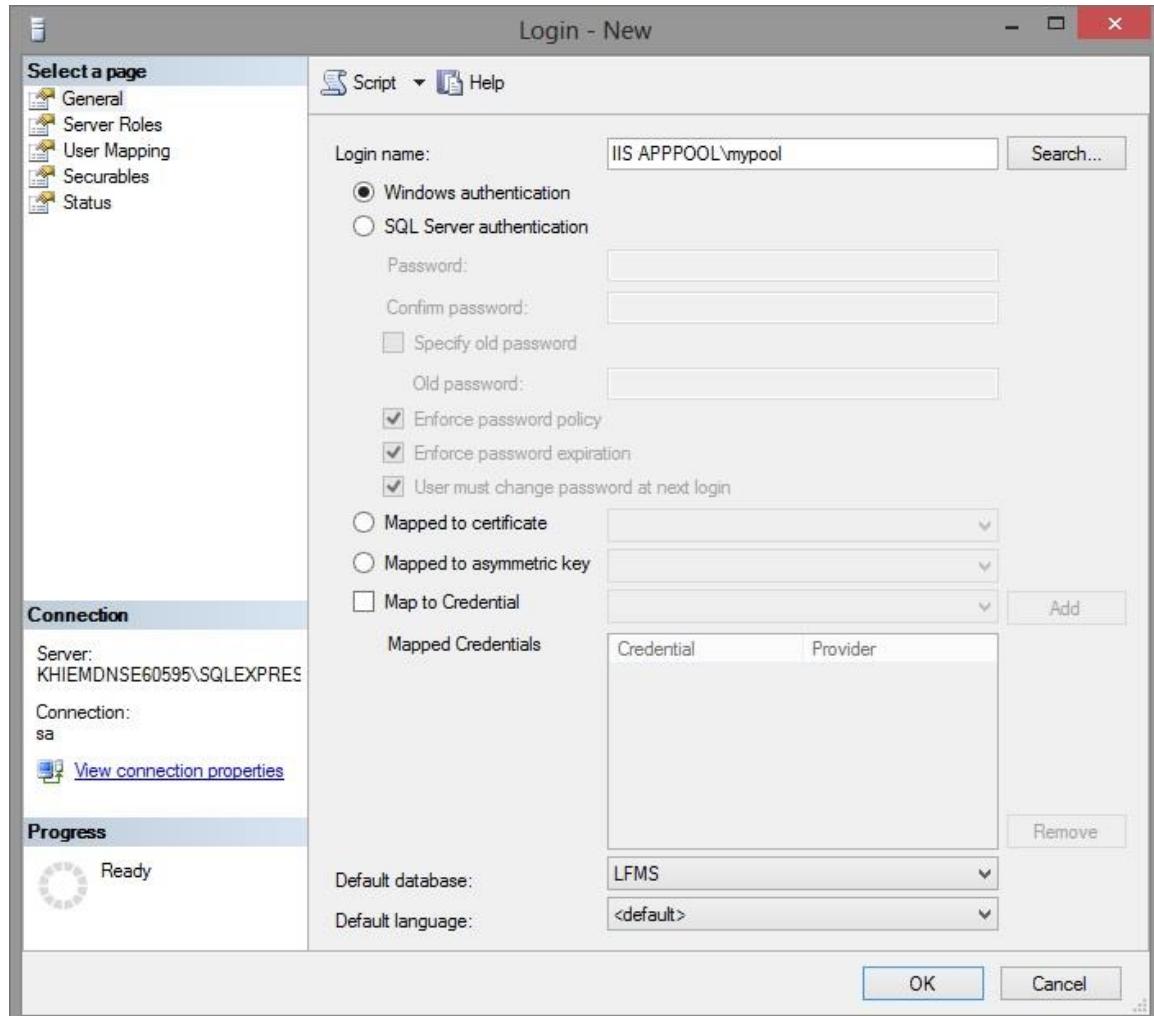


Figure 6-8: Setup IIS-7

Step 6: Go to login user has been created → Right click then select Properties → Click on User Mapping → Setup this like the picture below

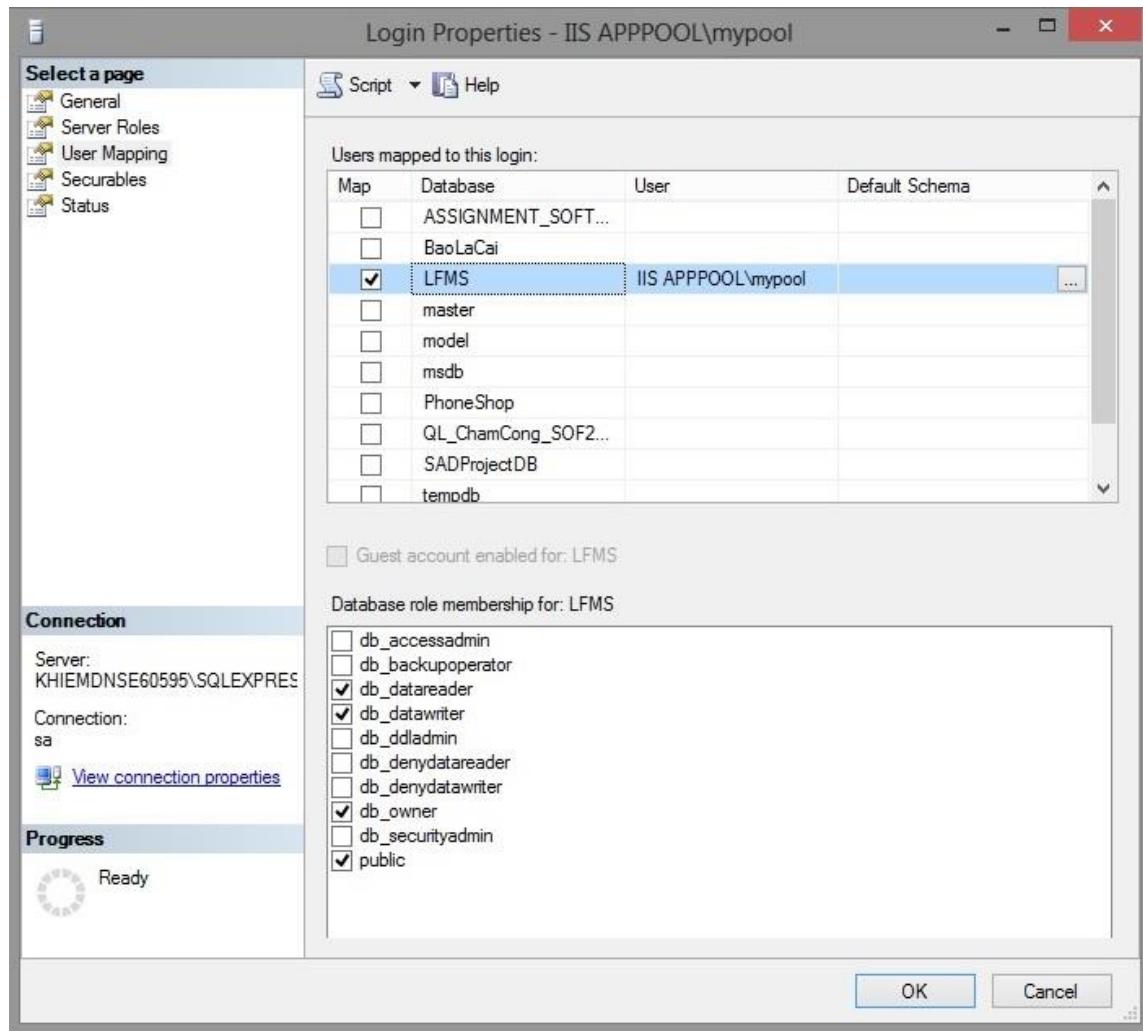


Figure 6-9: Setup IIS-8

6.1.3.3. Setup and Deploy website into IIS

- **Step 1:** Go Sites → Right click to select Add Website → Setup this like the picture below.

Capstone Project: LFMS

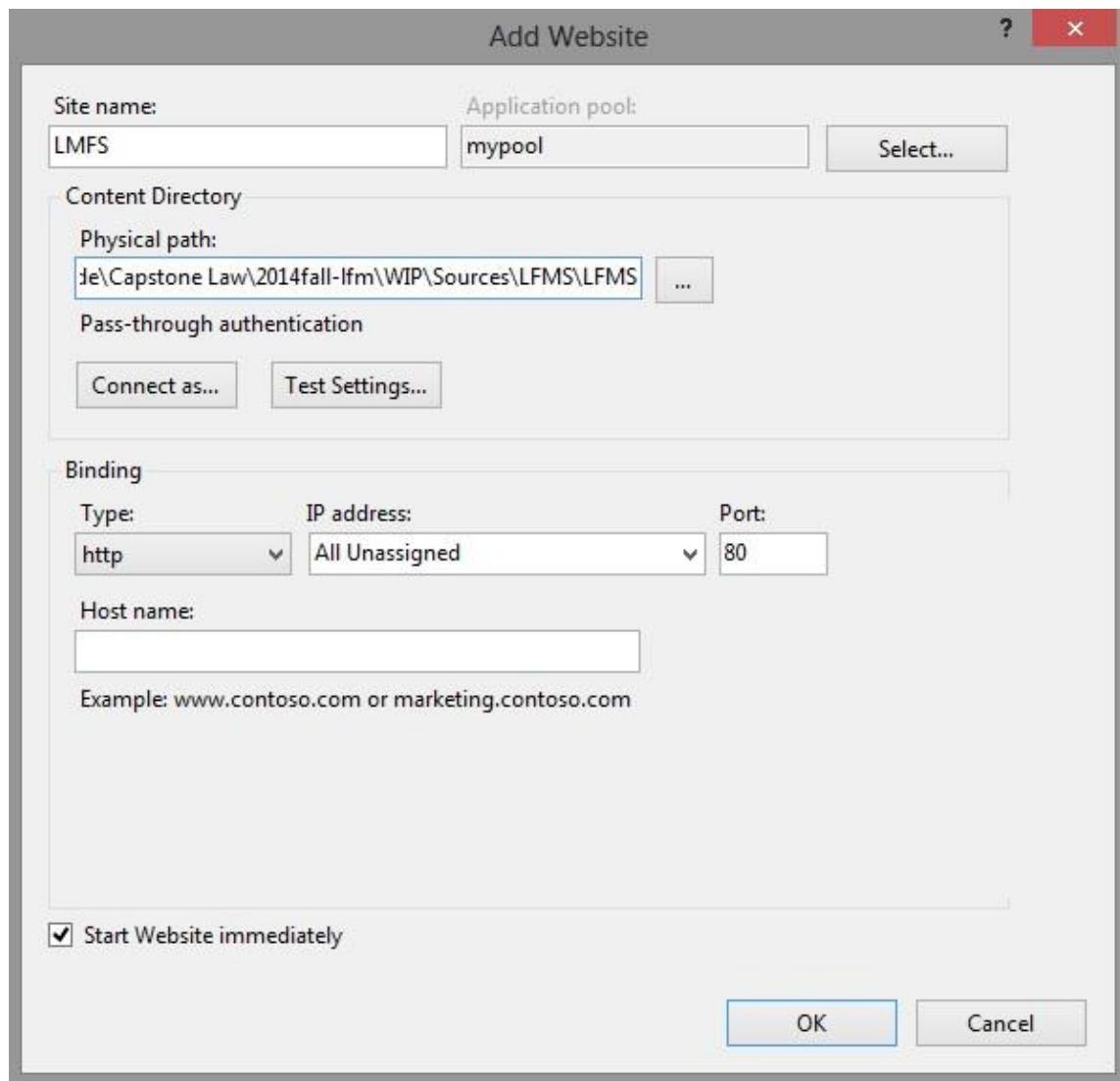


Figure 6-10: Deploy website on IIS-1

Capstone Project: LFMS

- **Step 2:** Go to website user has been created → Double click on Directory Browsing → Make this select Enable like the picture below.

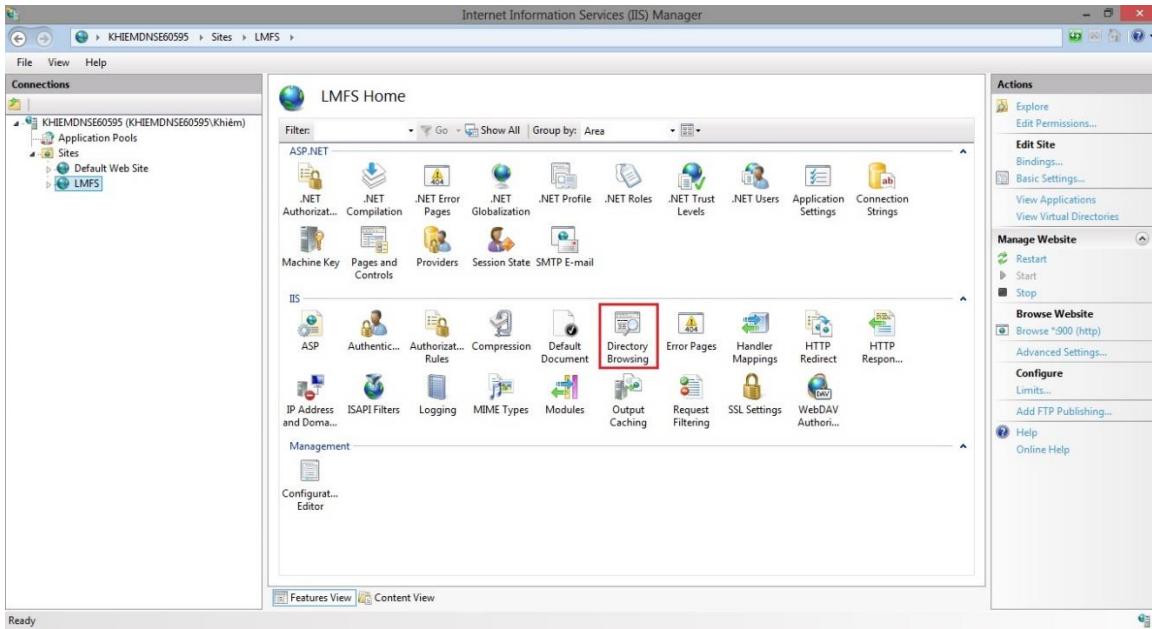


Figure 6-11: Deploy website on IIS-2

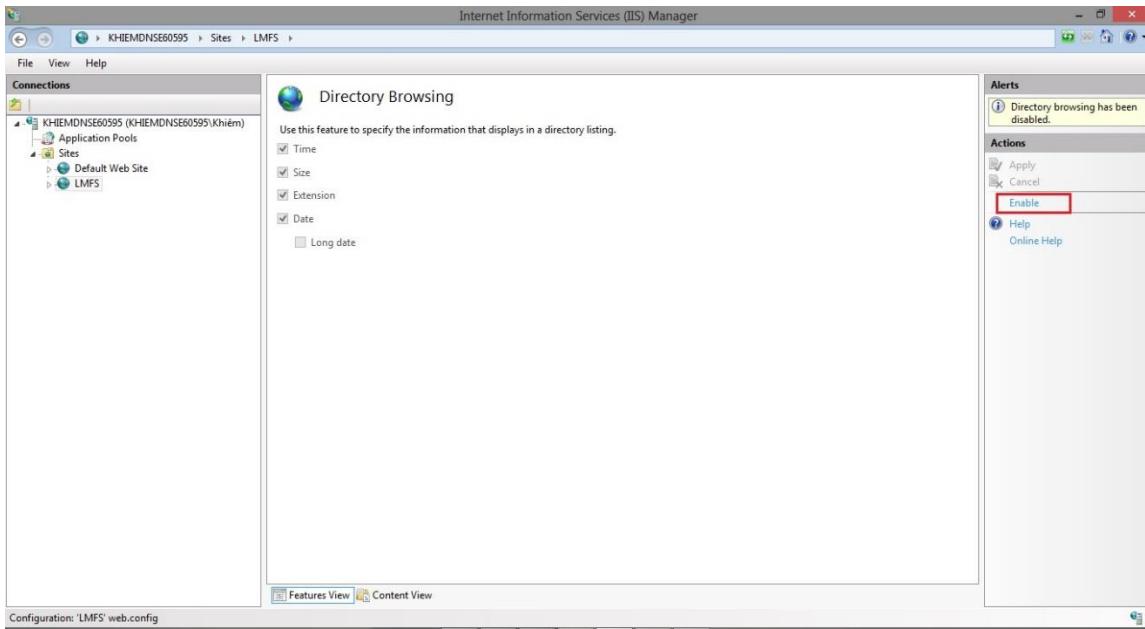


Figure 6-12: Deploy website on IIS-3

- **Step 3:** Go to website user has been created → Right click to select Manage website → Choose Browse like the picture below.

Capstone Project: LFMS

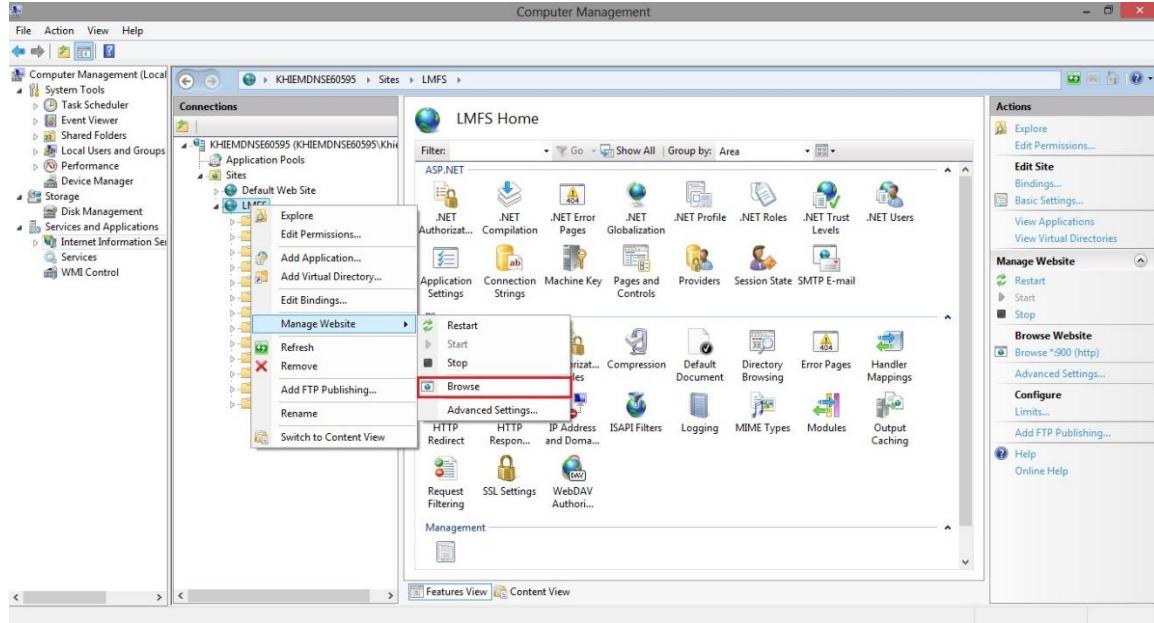


Figure 6-13: Deploy website on IIS-4

6.2. User's Guide

6.2.1. How to create a Calendar Event

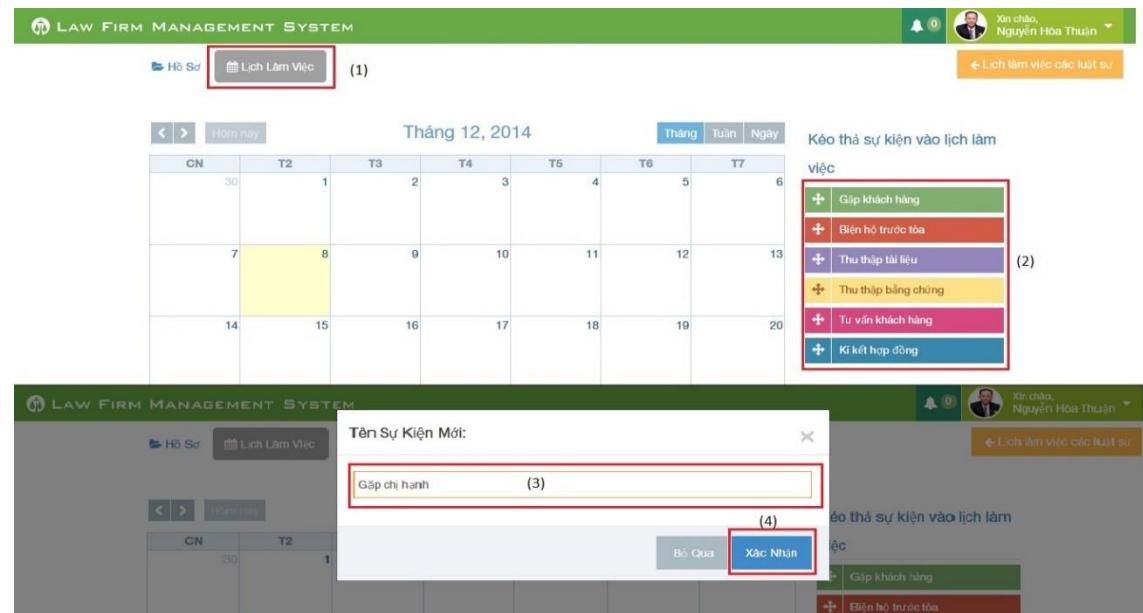


Figure 6-14: How to create a Calendar Event

Step	Description
1	At Index page, click at “Lịch làm việc” tab
2	Drag any event and drop it into calendar. (User can also click or click and drag anywhere in calendar to create a new event)
3	Input New calendar event name.
4	Press “Xác nhận” button to create new calendar event.

6.2.2. How to view calendar event of other lawyer

The figure consists of two screenshots of a web-based law firm management system. Both screenshots show a calendar for December 2014 with days labeled CN (Chủ Nhật), T2 (Thứ Hai), T3 (Thứ Ba), T4 (Thứ Tư), T5 (Thứ Năm), T6 (Thứ Sáu), and T7 (Thứ Bảy). The dates range from 30/11/2014 to 13/12/2014.

Screenshot 1: Shows the main calendar interface with a yellow box around the "Lịch Làm Việc" tab. A label "(1)" is placed next to this tab.

Screenshot 2: Shows the "Lịch làm việc các luật sư" (Lawyers' Work Schedule) section. It includes a "Kéo thả sự kiện vào lịch làm việc" (Drag and drop event into calendar) area with various event types like "Gặp Khách hàng" (Meet Client) and "Biên hồ trước tòa" (Court hearing preparation). A label "(2)" is placed next to the "Lịch làm việc các luật sư" button.

Screenshot 3: Shows the "Lịch làm việc" tab again, but with a dropdown menu "Luật sư:" containing "Nguyễn Thị Hòa Thảo (thaonth)". A label "(3)" is placed next to this dropdown.

Screenshot 4: Shows the "Lịch làm việc" tab with the dropdown set to "Nguyễn Thị Hòa Thảo (thaonth)". Below it is a smaller calendar for December 2014 with a yellow box around the 8th. A label "(4)" is placed next to the date 8/12/2014.

Figure 6-15: How to view calendar event of other lawyer

Step	Description
1	At Index page, click at “Lịch làm việc” tab
2	At “Lịch làm việc” tab click at “Lịch làm việc các luật sư”
3	Choose a name of lawyer user want to view at combo-box

4 Calendar event will show below combo-box

6.2.3. How to create an Operation Event

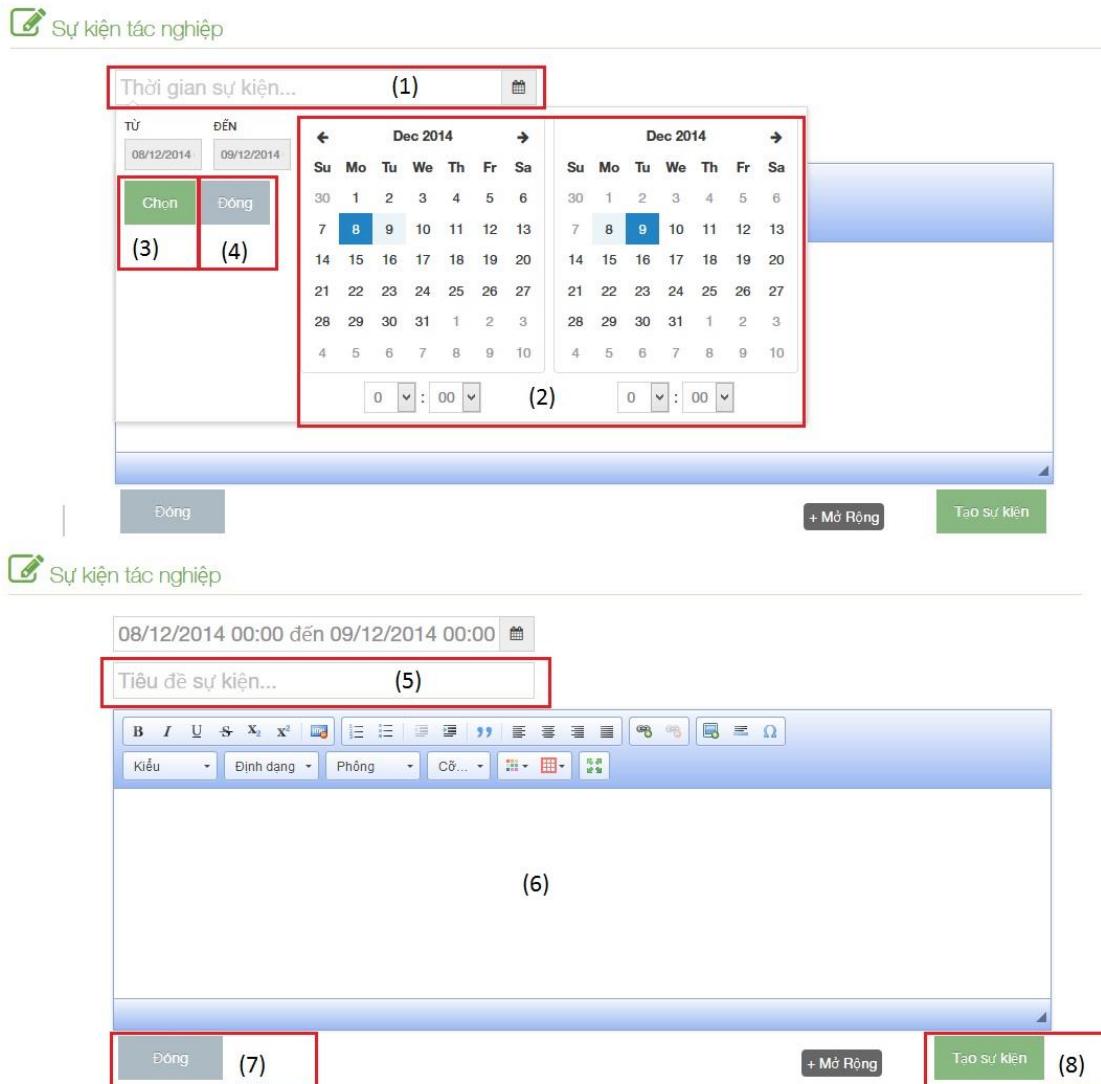


Figure 6-16: How to create an Operation Event

Step	Description
1	Click to text box to add time start and finish of event

2	Choose date and time of event
3	Click [Chọn] button to input data on “Thời gian sự kiện”
4	Click [Đóng] button to cancel input
5	Input title of event
6	Input content of event include: text, image....
7	Click [Đóng] button to close Popup and back to [List event] screen
8	Click [Tạo sự kiện] to insert new operation event

6.2.4. How to upload photos to Documents Related

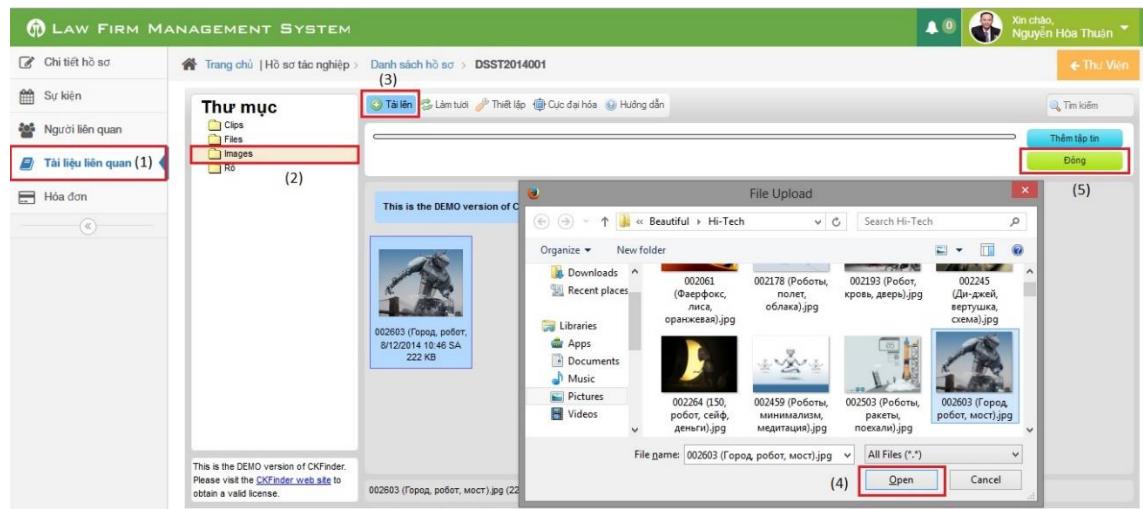


Figure 6-17: How to upload photos to Documents Related

Step	Description
1	Go to case detail page and then click on “Tài liệu liên quan” link
2	Click on “Images” button (can upload only image file format)
3	Click on “Tải lên” button to show a popup
4	Choose one or many photos and then click “Open” button
5	Click on “Đóng” button to complete upload

6.2.5. How to create a case

The screenshot shows two screenshots of the LFMS interface. The top screenshot shows the main dashboard with a list of cases. A red box labeled '(1)' highlights the 'Danh sách hồ sơ' item in the top right menu. A red box labeled '(2)' highlights the 'Thêm hồ sơ tác nghiệp' button in the top left corner of the main content area. The bottom screenshot shows a modal window titled 'Thêm hồ sơ tác nghiệp'. It contains fields for 'Mã hồ sơ', 'Ngày thụ lý', 'Thuộc văn phòng', and 'Nội dung'. A red box labeled '(3)' highlights the 'Thuộc văn phòng' dropdown, which has 'Luật Thuận Nguyễn Hồ Chí Minh' and 'Luật Thuận Nguyễn Vinh Long' listed. A red box labeled '(4)' highlights the green '[Thêm mới]' button at the bottom right of the modal.

Figure 6-18: How to create a Case

Step	Description
1	Click on list menu and then choose “Danh sách hồ sơ” to go to view list case page
2	Click on “Thêm hồ sơ tác nghiệp” to show a popup
3	Fill information of case: - Mã hồ sơ, Ngày thụ lý, Thuộc văn phòng, Nội dung is required
4	Click [Thêm mới] button to insert new case

6.2.6. How to create a customer

The screenshot shows two pages of the LFMS interface:

- Top Page (Step 1):** A list of customers. A red box highlights the "Quản lý khách hàng" (Customer Management) menu item in the top right corner.
- Bottom Page (Step 2):** A "Thêm Khách Hàng" (Add Customer) form. A red box highlights the "Thêm khách hàng" (Add Customer) button.
- Bottom Page (Step 3):** The same "Thêm Khách Hàng" form. A red box highlights the "Làm trống" (Clear) button.
- Bottom Page (Step 4):** The same "Thêm Khách Hàng" form. A red box highlights the "Nhóm khách hàng" (Customer Group) dropdown menu, which is currently set to "Cá nhân" (Individual).
- Bottom Page (Step 5):** The same "Thêm Khách Hàng" form. A red box highlights the "Thêm mới" (Add New) button.

Figure 6-19: How to create a Customer

Step	Description
1	Click on list menu and then choose “Quản lý khách hàng” to go to view list customer page
2	Click on “Thêm khách hàng” to show a popup
3	Fill information of case: <ul style="list-style-type: none"> - Tên khách hàng, Người đại diện, Nhóm khách hàng, Điện thoại di động, Địa chỉ is required - Điện thoại di động, Điện thoại cố định, số CMND, Mã số thuế, Số tài khoản must be number

	- Email to compliance with format
4	Click [Làm trống] button to clear all fill to blank.
5	Click [Thêm mới] button to insert new customer

6.2.7. How to create a Staff

The screenshot shows the LFMS interface. Step 1 shows the 'Quản lý nhân viên' option in the sidebar. Step 2 shows the 'Thêm nhân viên' button on the staff list page. Step 3 shows the staff creation form with various input fields like name, position, contact, and office. Step 4 shows the 'Thêm mới' button. Step 5 shows the 'Làm trống' button. Step 6 shows the success message 'Thành công'.

Figure 6-20: How to create a Staff

Step	Description
1	Click on list menu and then choose “Quản lý nhân viên” to go to view list staff page
2	Click on “Thêm nhân viên” to show a popup

3	Click to input avatar of staff
4	<p>Fill information of staff:</p> <ul style="list-style-type: none"> - Tên nhân viên, Tên đăng nhập, Nhóm nhân viên, Ngày sinh, Điện thoại di động, Email, Địa chỉ liên hệ, Thuộc văn phòng, Vai trò nhân viên, CMND, Ngày cấp CMND, Nơi cấp CMND is required - Điện thoại di động, Điện thoại nhà riêng, CMND, Mã số thuế, Số tài khoản must be number - Email to compliance with format
5	Click [Làm trống] button to clear all fill to blank.
6	Click [Thêm mới] button to insert new staff

6.2.8. How to create a service

The screenshot shows two consecutive steps in the system's service management module.

Step 1 (Top Screenshot): The user is on the 'Danh sách dịch vụ' (Service List) page. A red box highlights the blue '+ Thêm dịch vụ mới' (Add New Service) button in the top-left corner of the main content area. To the right, a sidebar menu is open under 'Quản lý dịch vụ', with a red box highlighting the 'Quản lý dịch vụ' option.

Step 2 (Bottom Screenshot): A modal window titled '+ Thêm dịch vụ' (Add New Service) is displayed. It contains fields for 'Tên dịch vụ*' (Service Name*) and 'Loại dịch vụ*' (Service Type*). Below these are 'Mô tả:' (Description) and 'Đóng' (Close) buttons. A red box highlights the green 'Thêm mới' (Add New) button at the bottom-right of the modal. The background shows the same service list from Step 1.

Figure 6-21: How to create a service

Step	Description
1	Click on list menu and then choose “Quản lý dịch vụ” to go to view list service page
2	Click on “Thêm dịch vụ mới” to show a popup
3	Fill information of case: - Tên dịch vụ, Loại dịch vụ is required
4	Click [Thêm mới] button to insert new service

6.2.9. How to create an office

The screenshot shows the 'Law Firm Management System' interface. At the top, there's a navigation bar with links like 'Trang chủ', 'Quản lý văn phòng', 'Danh sách văn phòng', and a user profile. A red box labeled '(2)' highlights the 'Thêm văn phòng' button on the left. The main area shows a list of offices with columns for name, address, phone, website, and status. A red box labeled '(1)' highlights the 'Quản lý văn phòng' status filter. Below this, a larger red box labeled '(3)' highlights the 'Thêm văn phòng' dialog box. Inside the dialog, fields for office name, address, contact person, phone, fax, email, and website are visible. Two buttons at the bottom are highlighted with red boxes: '(4)' for 'Làm trống' (Clear) and '(5)' for 'Thêm mới' (Add New).

Figure 6-22: How to create a Staff

Step	Description
1	Click on list menu and then choose “Quản lý văn phòng” to go to view list office page
2	Click on “Thêm văn phòng” to show a popup
3	Fill information of case: - Tên văn phòng, Địa chỉ văn phòng, Người quản lí, Điện thoại, Email is required - Điện thoại, Mã số thuế, Số tài khoản must be number - Email to compliance with format
4	Click [Làm trống] button to clear all fill to blank.
5	Click [Thêm mới] button to insert new service

6.2.10. How to view statistic

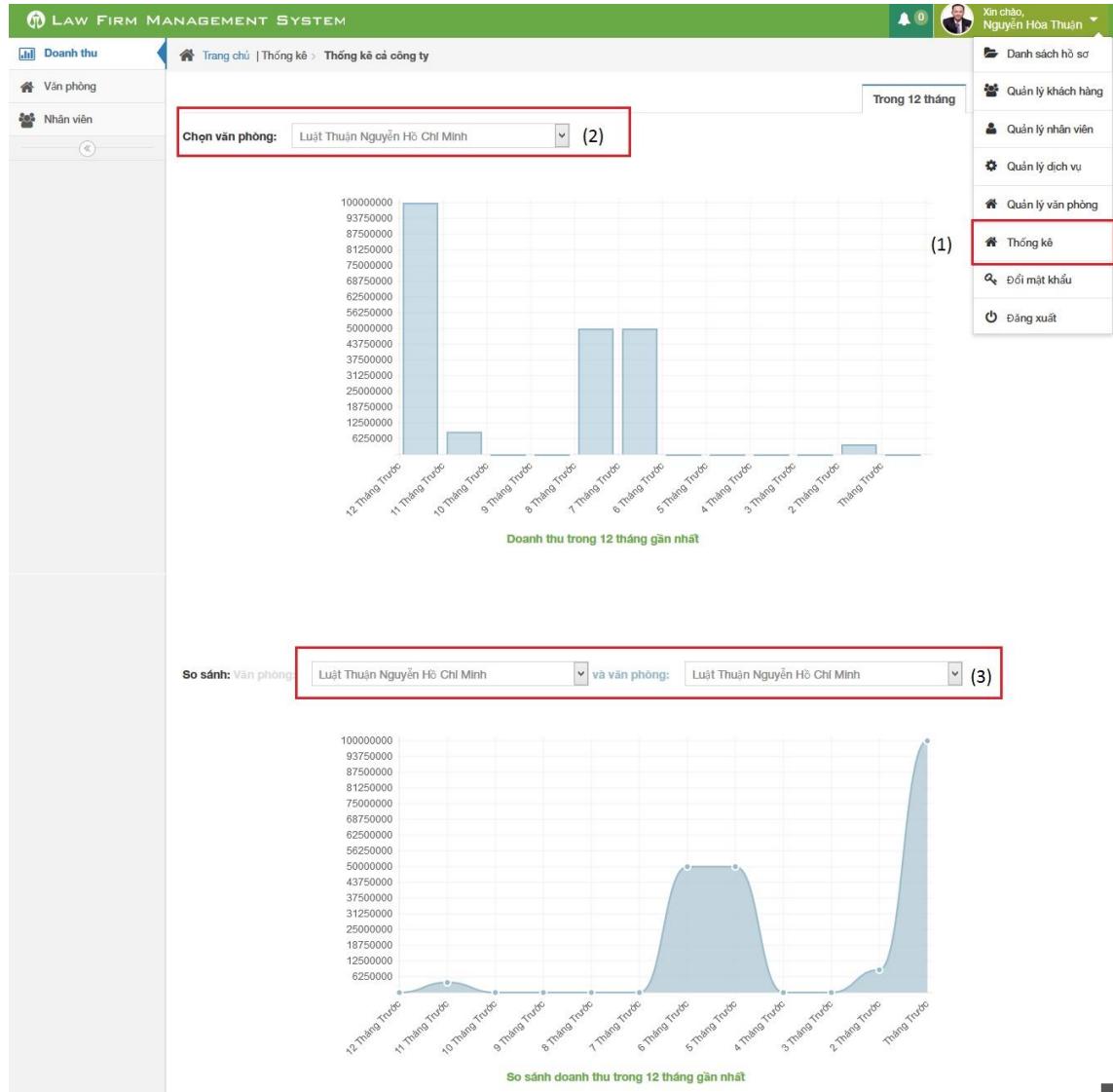


Figure 6-23: How to view statistic

Step	Description
1	Click on list menu and then choose “Thống kê” to go to view list statistic page
2	Choose office user want to show statistic
3	Choose two office user want to compare in statistic

6.3. Project Result Report

6.3.1. Project judging

6.3.1.1. Advantages of LFMS

The idea of the LFMS is to develop a new website for “Thuan Nguyen Lawyer Office. It has main features of existing website such as easy to manage than traditional methods, online data storage and centralized etc... Besisdes, it has some extra functions: schedule notify each time event occur and statistic in every year

- Lawyers can work more effective, easier and simpler way without remember schedule and operation event.
- Law firm can manage all information like case, customer, staff service and office easier.
- Accounting easier with auto statistical in every year.

6.3.1.2. Current limitations of LFMS

However, some limitations still exist

- Still not using search in “Thư viện pháp luật”
- Only support Firefox

6.3.1.3. Expectation in future

- Develop function search in “Thư viện pháp luật”
- Support more in other browser

6.3.2. Project summary

Project Title	Website of law firm management system
Project Supervisor	Nguyễn Văn Sang

Capstone Project: LFMS

Committers (5)			
1	Project Manager	Lê Duy Hoàng	Hoangldse60744@fpt.edu.vn
2	Project Technical Leader	Lê Duy Hoàng	Hoangldse60744@fpt.edu.vn
3	Developer	Đặng Nguyễn Khiêm	Khiemdse60595@fpt.edu.vn
4	Developer	Phạm Văn Duy	Duypvse60634@fpt.edu.vn
5	Tester	Trần Anh Tuấn	Tuantase60631@fpt.edu.vn
Main objective		Develop a website that helps users can manage all information like case, customer, staff, service and office easier.	
Purpose		Lawyers can work more effective, easier and simpler	
Items		Plan	Actual
Releases Date		25/12/2013	27/12/2013
Releases version		1.0	1.0
Days		78	80
Test cases		223 test case	
Defects		8	
Document pages		> 200 (include appendix)	
Lines of code		Approximately 50.000	

6.3.3. Lesson learned

- Before this capstone project, we do not know much about ASP. Net MVC4, Ajax and C #language. After more than 3 months, we have more experience and deeply understand how to create a MVC4 website, how to face with problems and bugs in developing a MVC4 website.
- We also improved lots of skills
 - Firstly, about technical, we know how to develop application with C# language, how to use SVN to store source code and how to work efficiently with Microsoft Office.
 - Secondly, about soft skills, while doing this project, we can gain skills in how to work with team efficiently, how to avoid conflict in team members. After lots of team meeting, we know how to brainstorm with all team to generate creative idea or solution to a problem. In addition, two important skills are researching and self-studying, we have to research and self-study a lot to do our work in project, to solve a problem.
 - Finally, one of the most important skill we have learnt through this project is project management. We know how to manage a project from the beginning to the end, how to create project plan, how to collect requirements, how to create SRS, how to design an application, how to create test cases etc. It is very important for our job in the future.
- Through this capstone project, we have more experiences in risk and issues management
 - About technique :
 - Some members do not have high level in work with ASP. Net MVC 4, Ajax, Jquery before start this project so we assign some members to take responsibility for researching and training the others.
 - Members do not understand about some general techniques such as searching in internet or asking for supporting from community. We have to support to guide each other to work efficiently.
 - About human resources:
 - Some members are lazy for a while; they cannot finish their work before deadline or cannot do their tasks so we define detail schedules, and often reminding each other.

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- We held lots of team meeting for team members to meet each other, to brainstorming to think about solution of a problem and to support other members.
- Team members must report what they do twice a week and project manager has to define schedule according to members' capability.
- About the missing deadline, there are some reasons
 - The coding language is new with us, so we need more time to be acquainted with it.
 - Sometimes source code has problems and members cannot check in, check out to submit their works
 - There are some conflicts between team members; they lead to the waste of time.

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