



**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 |

- Ha Noi, 09/2014 -

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.

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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:

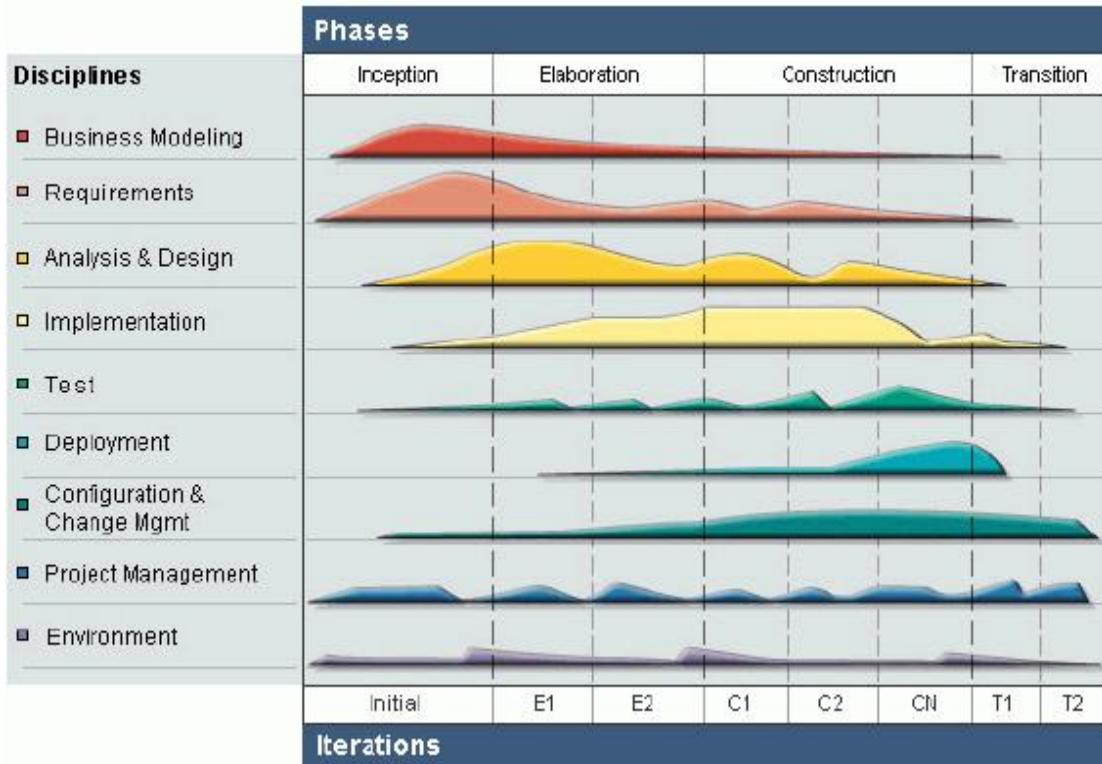


Figure 2-1: Rational Unified Process Process Model

- ❖ **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

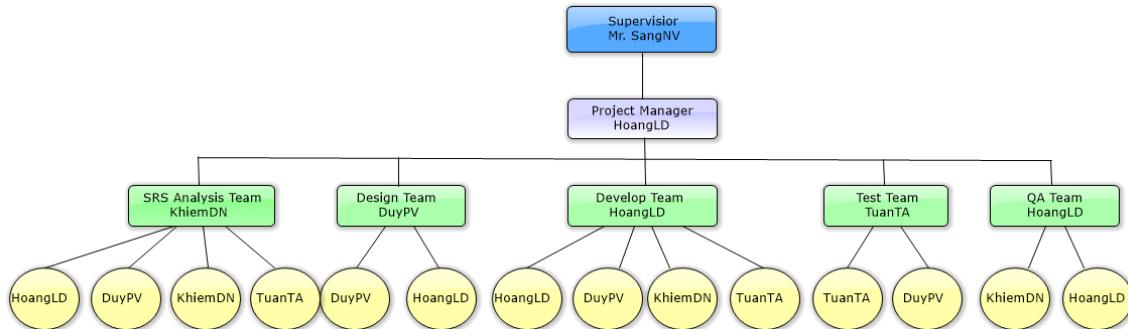


Figure 2-2: Roles and Responsibilities

| # | 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

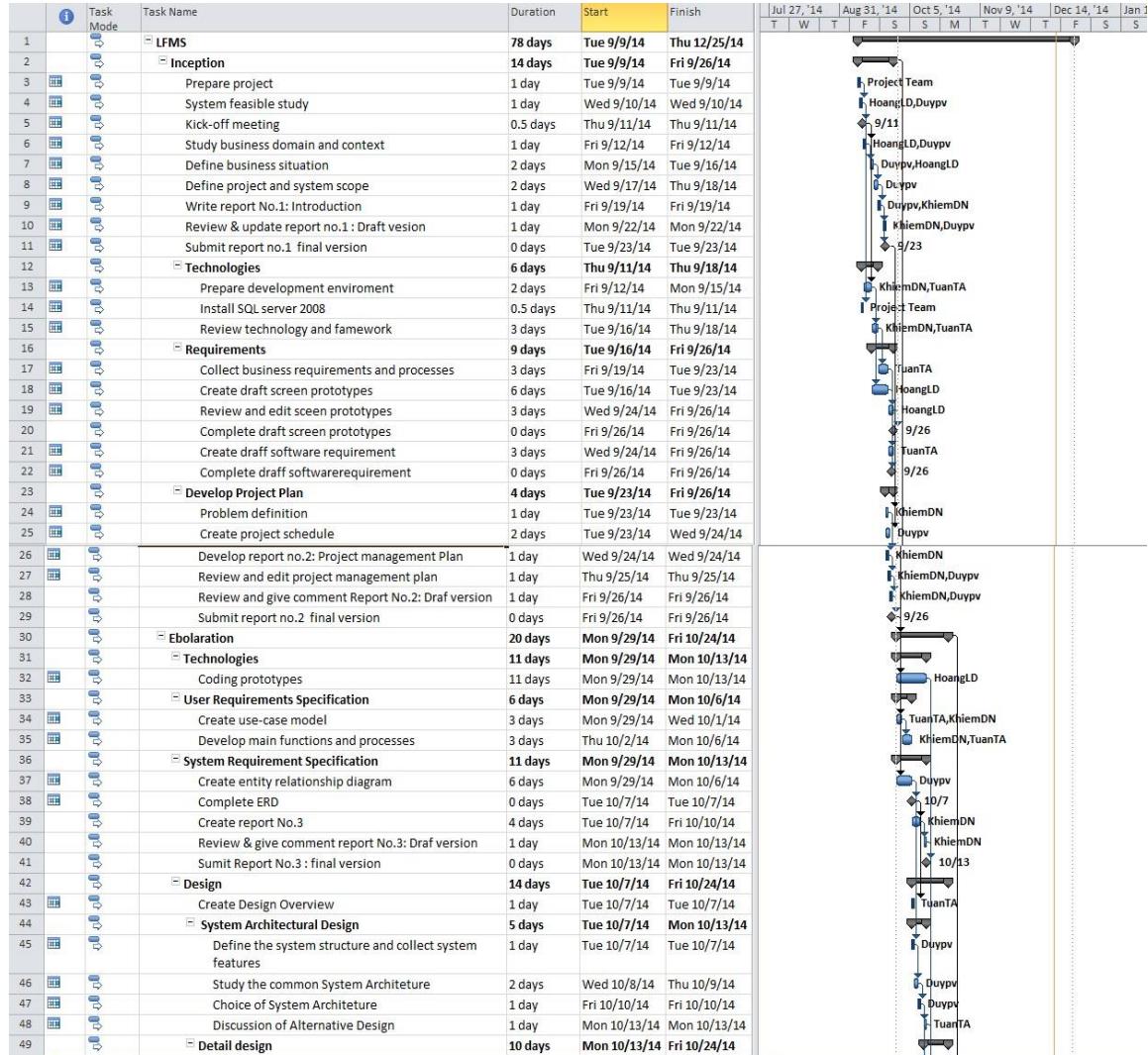


Figure 2-3: Project plan - 1

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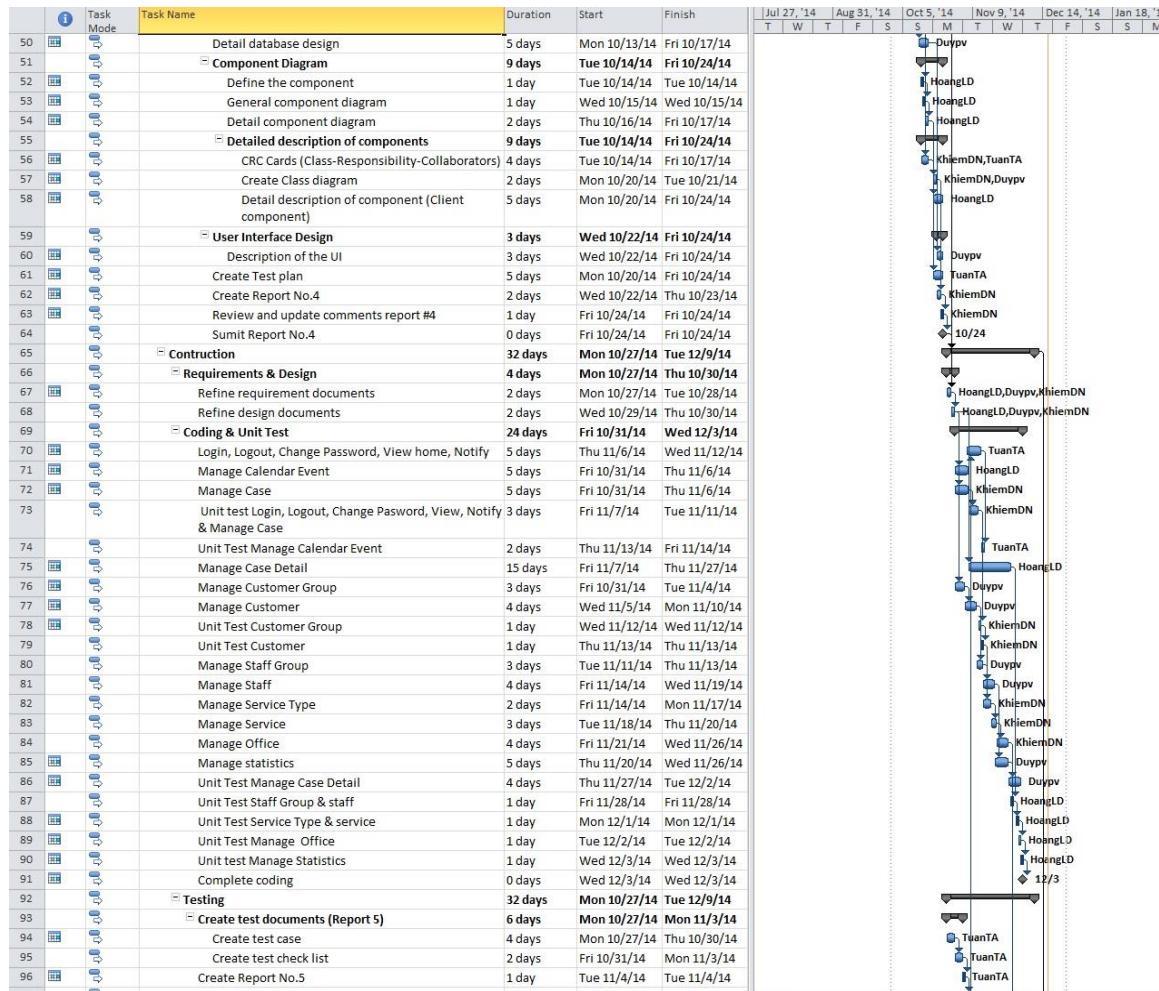


Figure 2-4: Project plan - 2

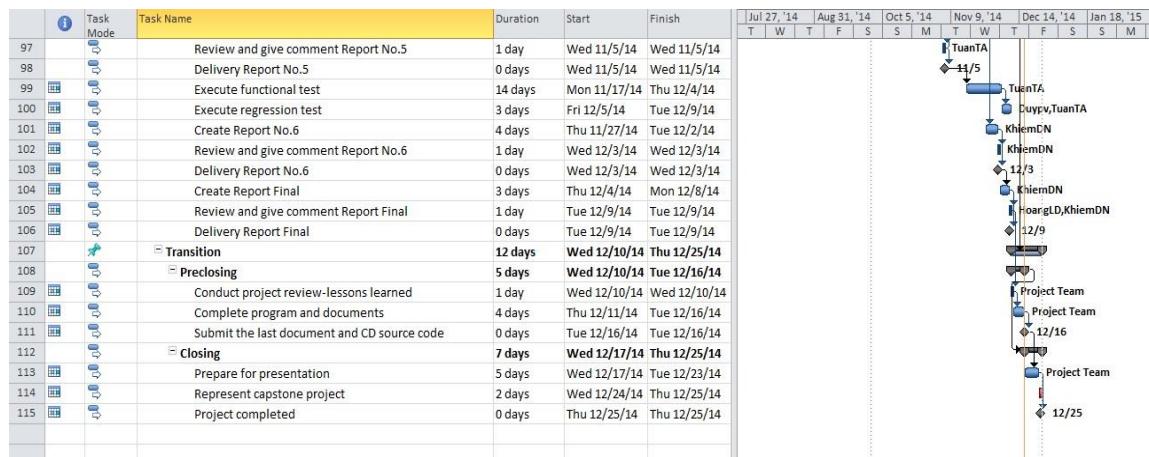


Figure 2-5: Project plan - 3

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

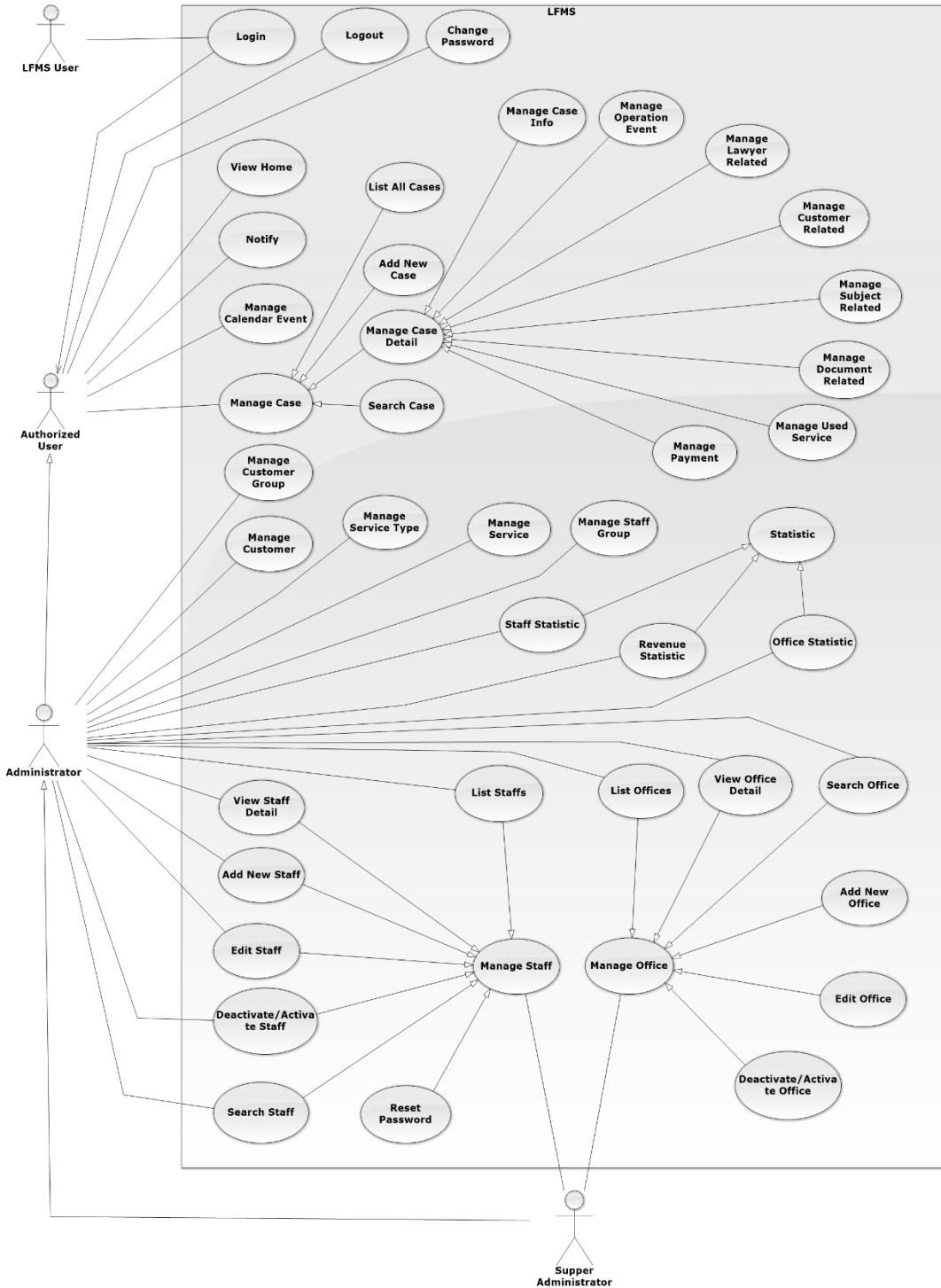


Figure 3-1: Overview Use-Case Diagram

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

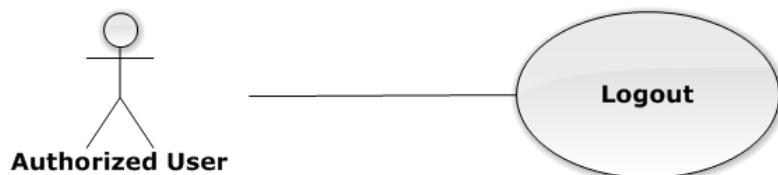


Figure 3-3: Logout Use-Case Diagram

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

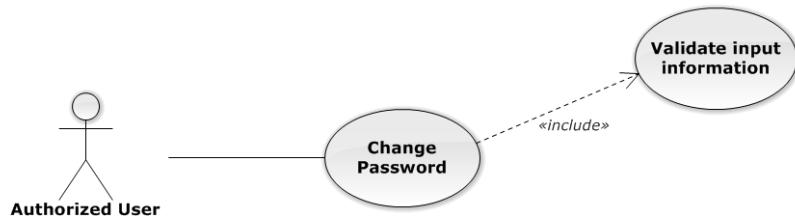


Figure 3-4: Change Password Use-Case Diagram

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

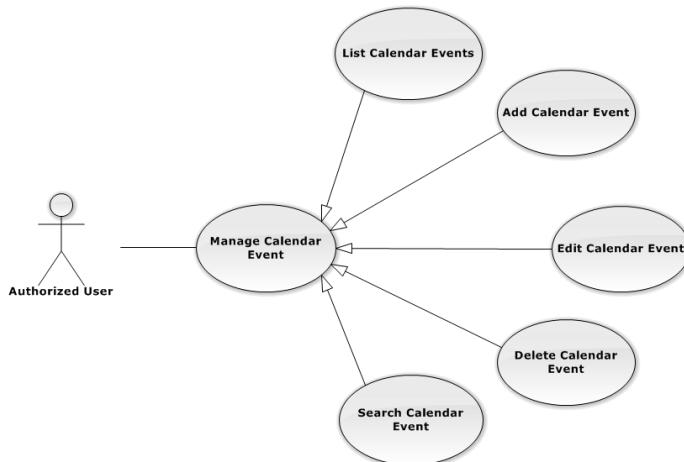


Figure 3-7: Manage Calendar Event Use-Case Diagram

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. | | |

| 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

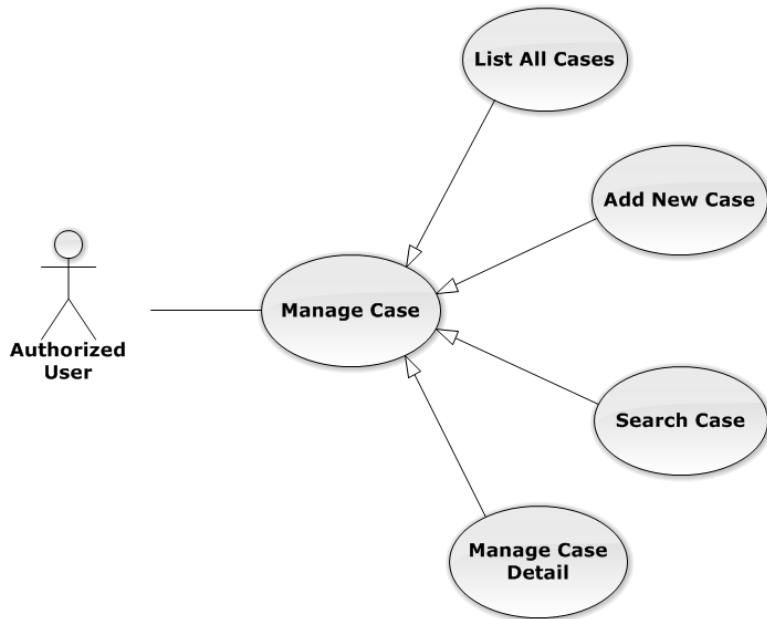


Figure 3-13: Manage Case Use-Case Diagram

3.2.2.7.1. UC0019 - List All Cases

3.2.2.7.1.1. Use-Case Diagram

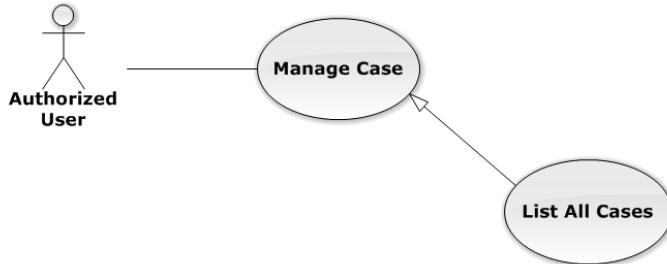


Figure 3-14: List All Cases Use-Case Diagram

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

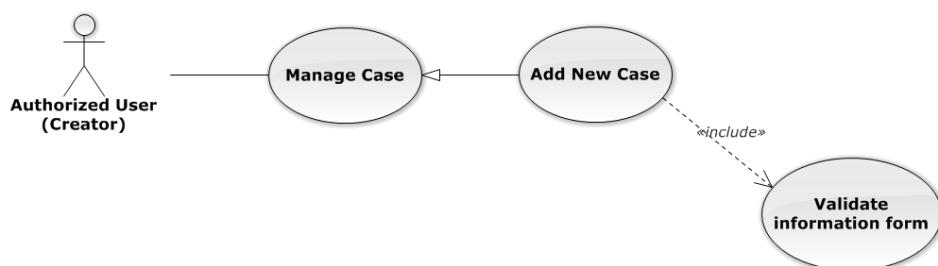


Figure 3-15: Add New Case Use-Case Diagram

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

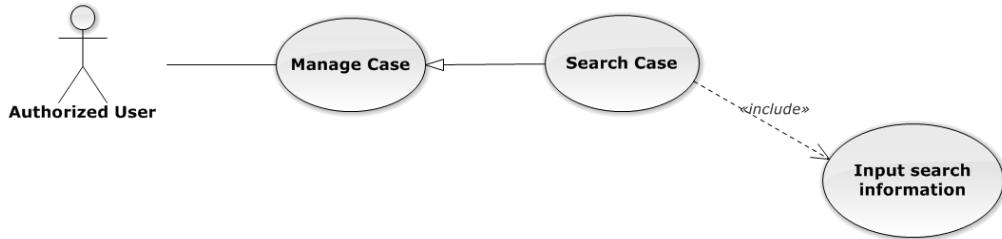


Figure 3-16: Search Case Use-Case Diagram

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

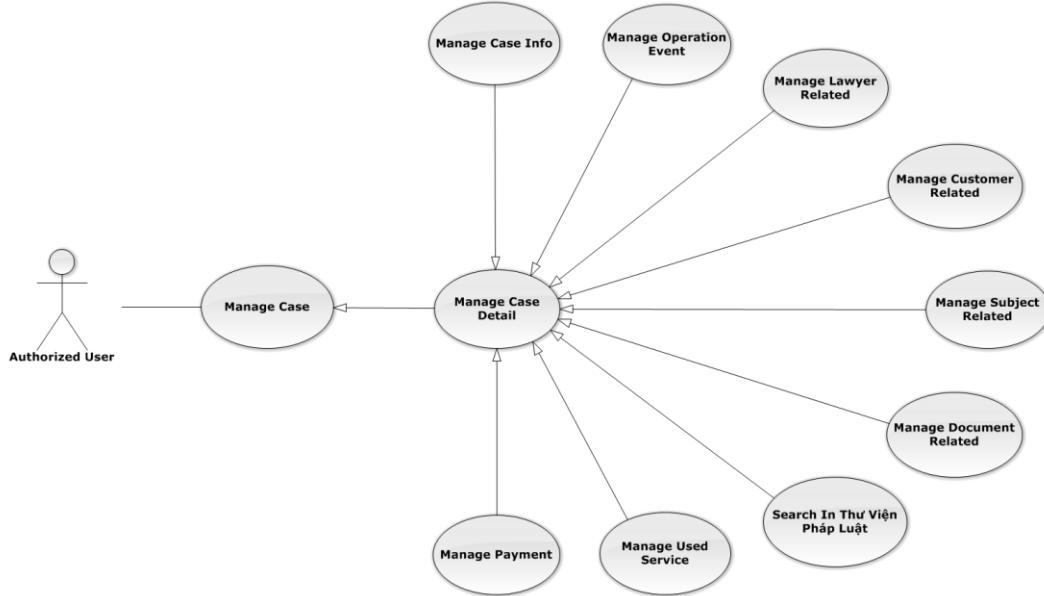


Figure 3-17: Manage Case Detail Use-Case Diagram

3.2.2.7.4.1. Manage Case Info

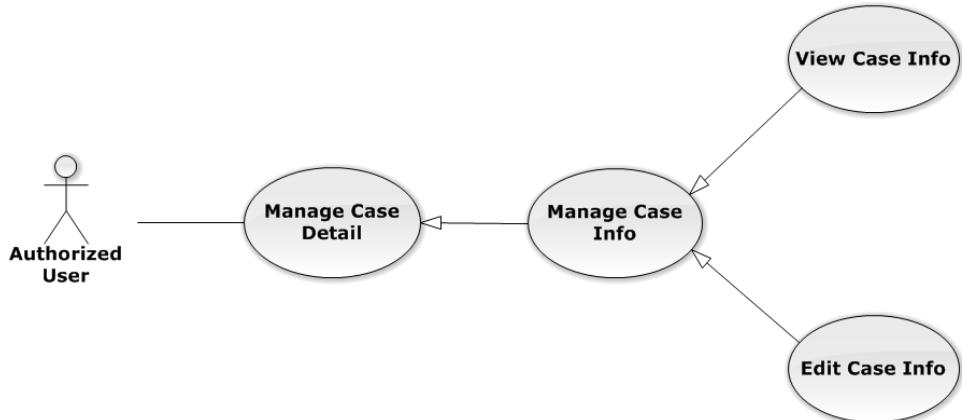


Figure 3-18: Manage Case Info Use-Case Diagram

3.2.2.7.4.1.1. UC0025 - View Case Info

3.2.2.7.4.1.1.1. Use-Case Diagram

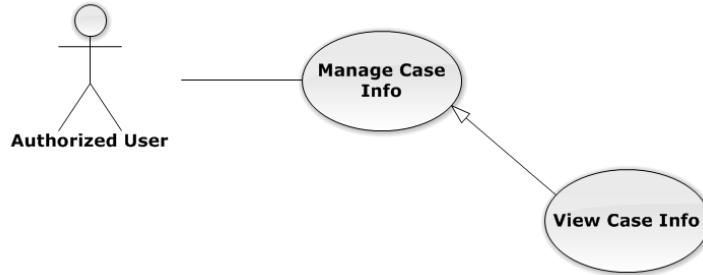


Figure 3-19: View Case Info Use-Case Diagram

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

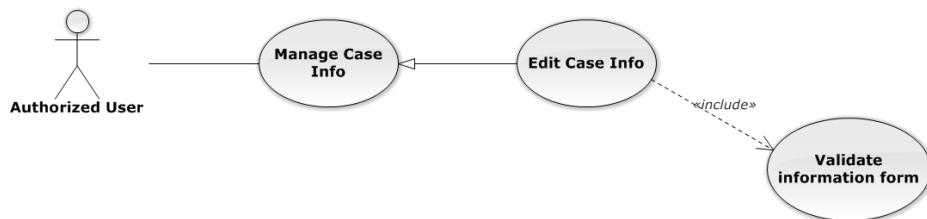


Figure 3-20: Edit Case Info Use-Case Diagram

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 |
| <p>Actor: Authorized User who is assigned in current case</p> <p>Summary: Staff can edit and update case detail</p> <p>Goal: Helps Staff easy to update case information</p> <p>Triggers: Staff click on “Lưu chỉnh sửa” button</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 • Click on edit icon beside “Thông tin chung” label before and the case have “Đang thụ lý” status <p>Post Conditions:</p> <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> <p>Main Success Scenario:</p> | | | |

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

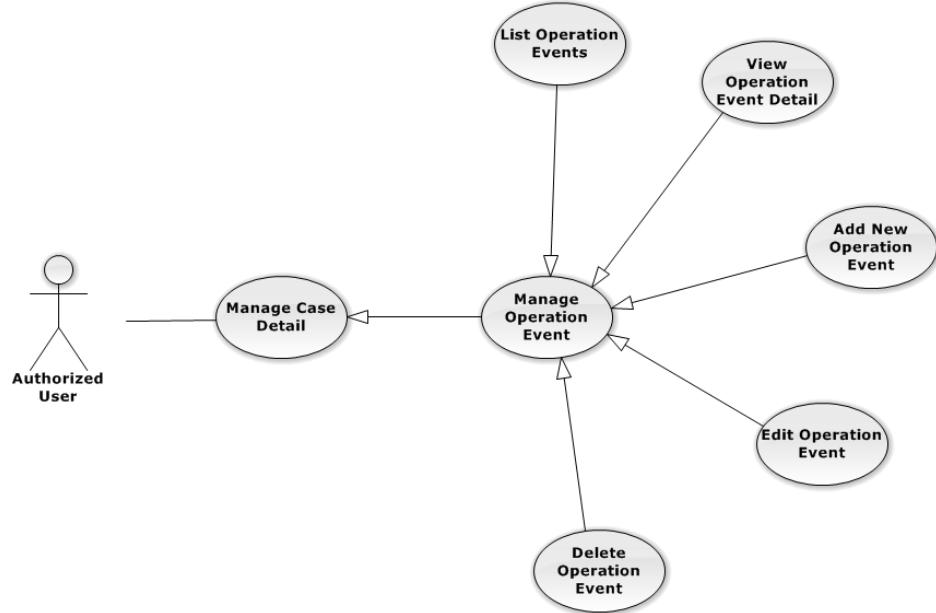


Figure 3-21: Manage Operation Event Use-Case Diagram

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

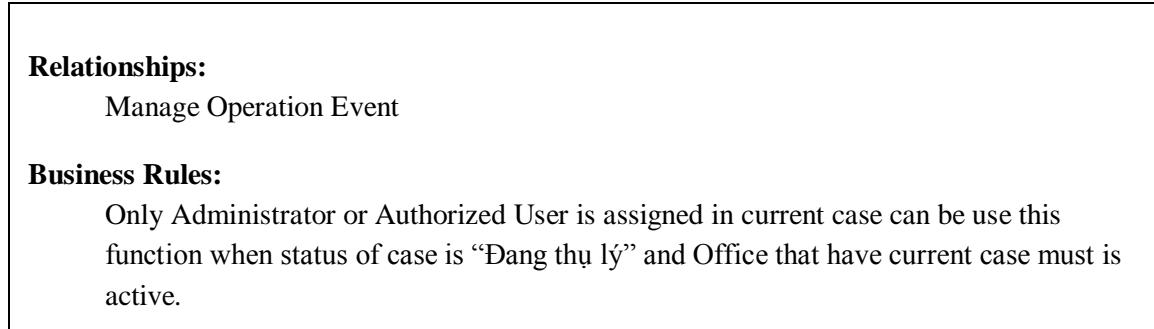


Figure 3-26: Delete Operation Event Use-Case Diagram

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

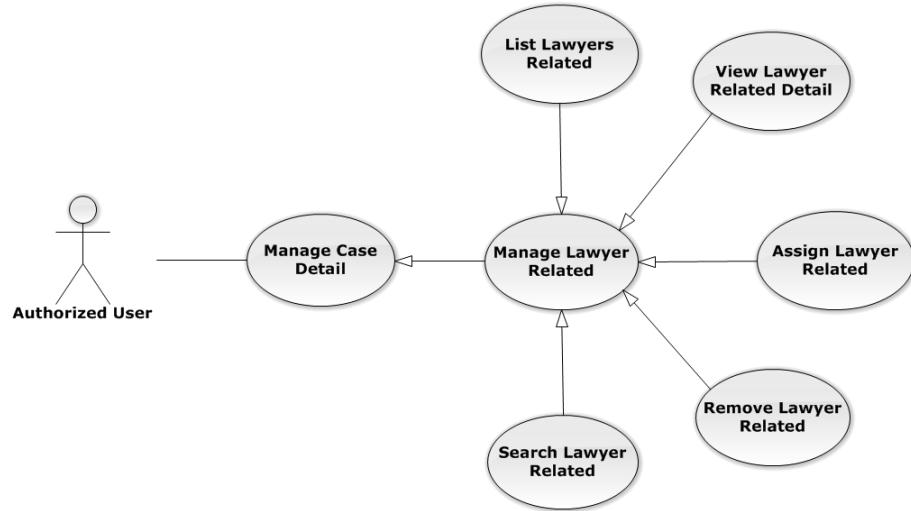


Figure 3-27: Manage Lawyer Related Use-Case Diagram

3.2.2.7.4.3.1. UC0039 - List Lawyers Related

3.2.2.7.4.3.1.1. Use-Case Diagram

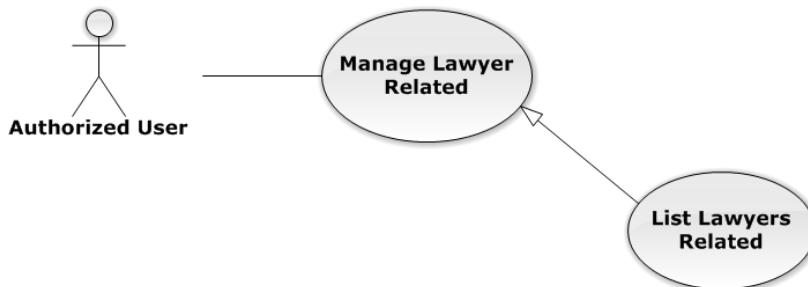


Figure 3-28: List Lawyers Related Use-Case Diagram

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

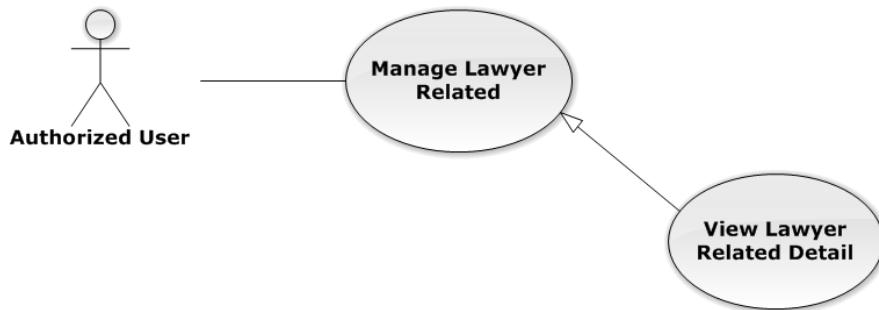


Figure 3-29: View Lawyer Related Detail Use-Case Diagram

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

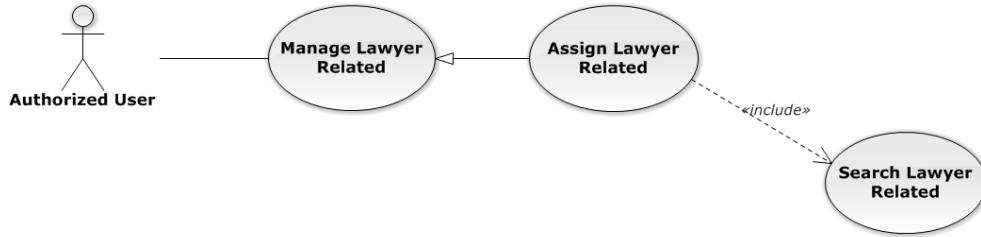


Figure 3-30: Assign Lawyer Related Use-Case Diagram

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

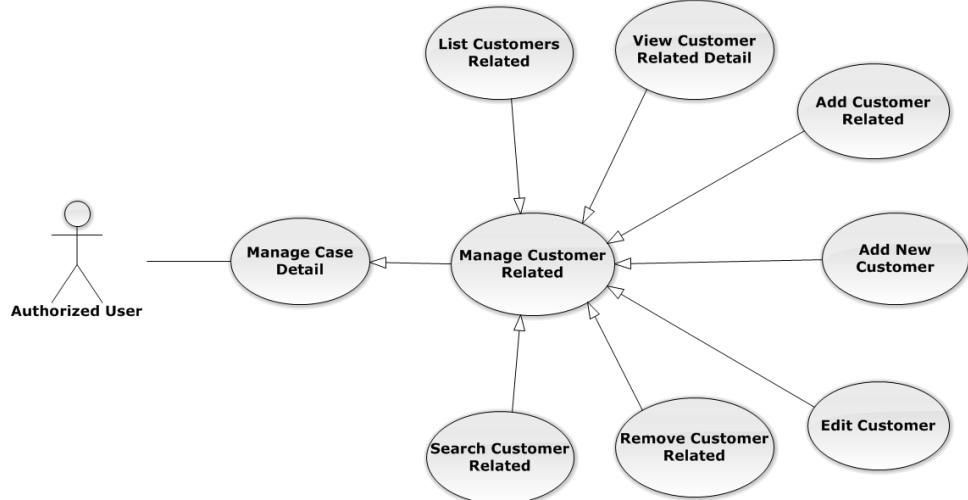


Figure 3-33: Manage Customer Related Use-Case Diagram

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

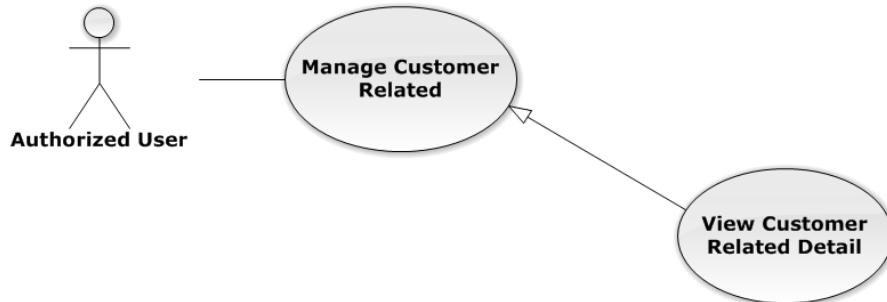


Figure 3-35: View Customer Related Detail Use-Case Diagram

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

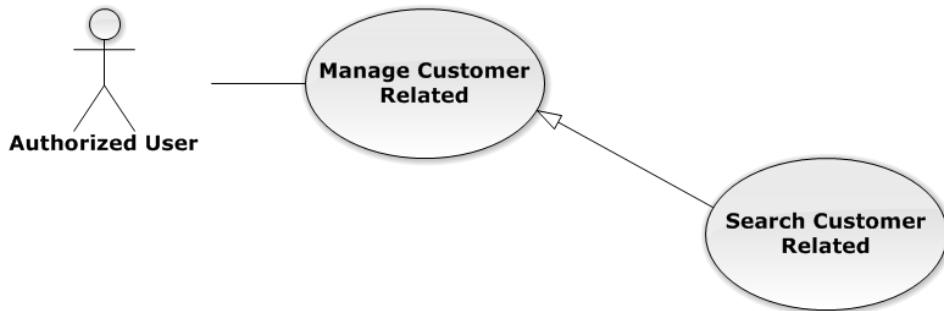


Figure 3-38: Search Customer Related Use-Case Diagram

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 |
|---|--------------------------|----------------------|

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

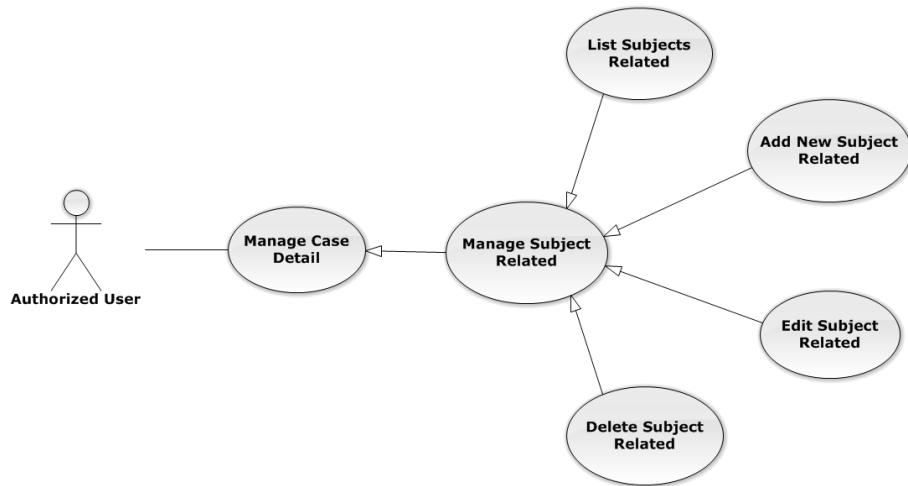


Figure 3-39: Manage Subject Related Use-Case Diagram

3.2.2.7.4.5.1. UC0059 - List Subjects Related

3.2.2.7.4.5.1.1. Use-Case Diagram

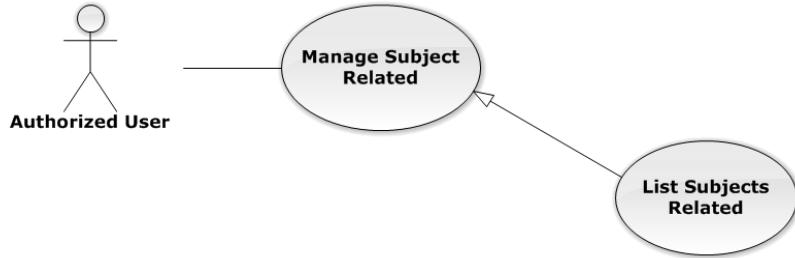


Figure 3-40: List Subjects Related Use-Case Diagram

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

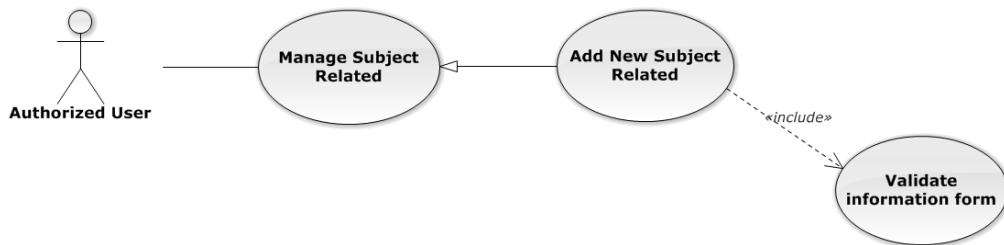


Figure 3-41: Add New Subject Related Use-Case Diagram

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

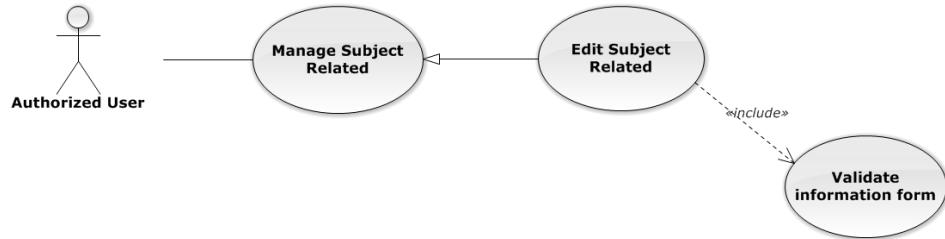


Figure 3-42: Edit Subject Related Use-Case Diagram

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

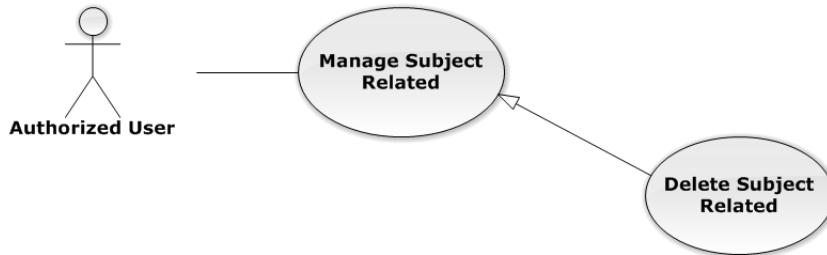


Figure 3-43: Delete Subject Related Use-Case Diagram

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

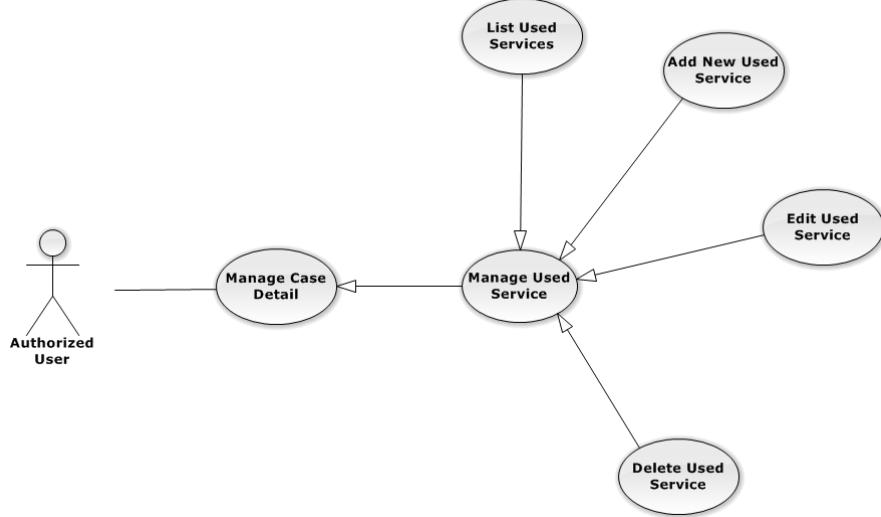


Figure 3-44: Manage Used Service Use-Case Diagram

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

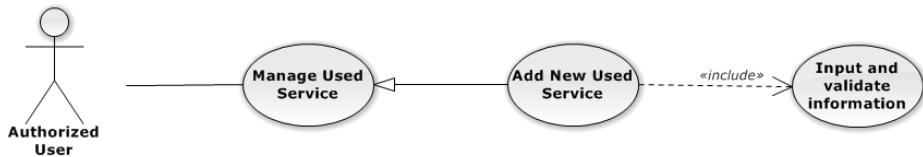


Figure 3-46: Add New Used Service Use-Case Diagram

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

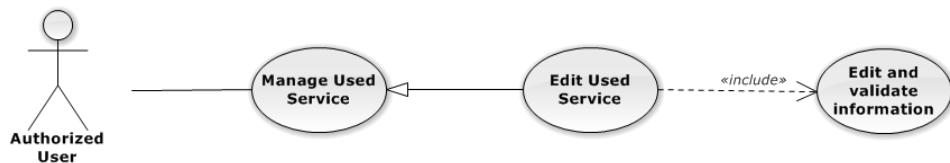


Figure 3-47: Edit Used Service Use-Case Diagram

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

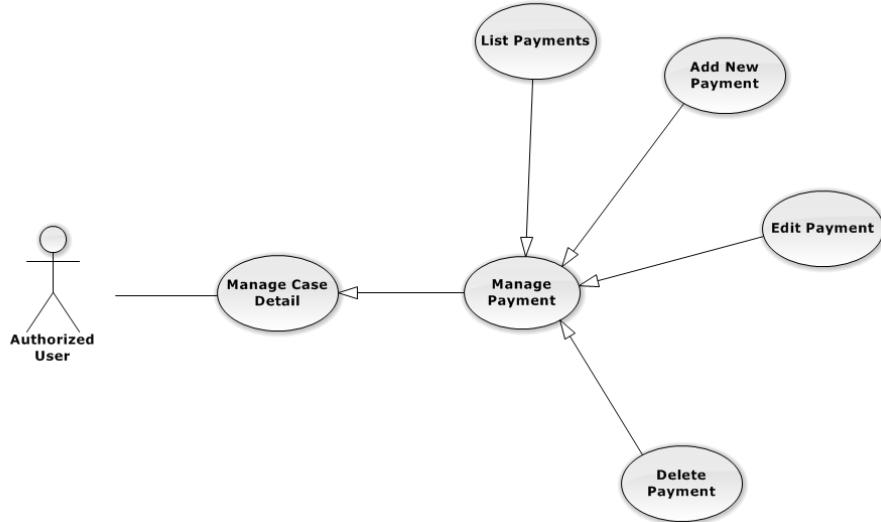


Figure 3-49: Manage Payment Use-Case Diagram

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

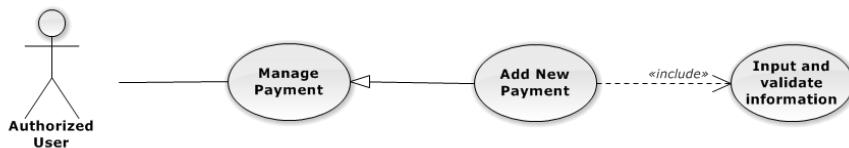


Figure 3-51: Add New Payment Use-Case Diagram

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

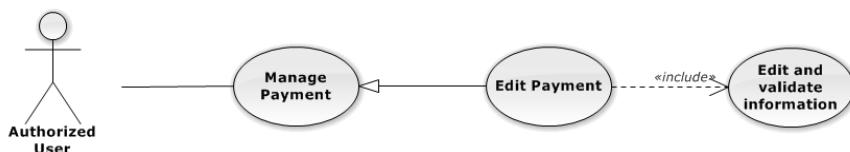


Figure 3-52: Edit Payment Use-Case Diagram

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

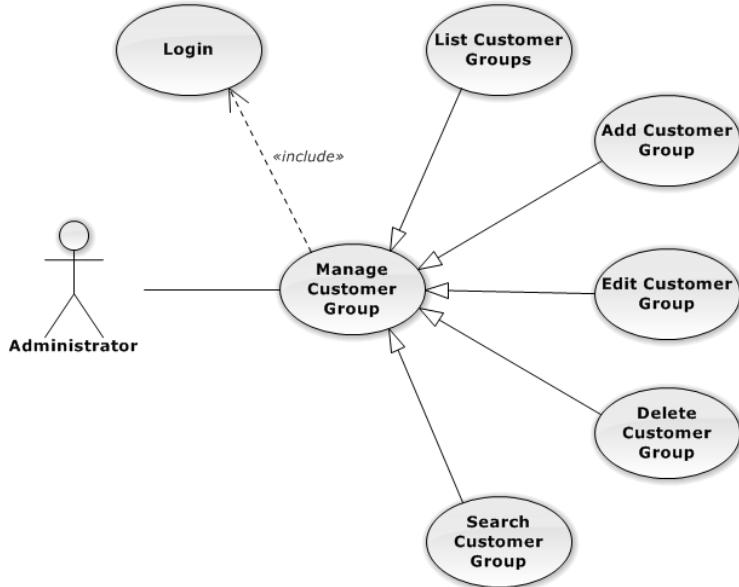


Figure 3-54: Manage Customer Group Use-Case Diagram

3.2.2.8.1. UC008343 - List Customer Groups

3.2.2.8.1.1. Use-Case Diagram

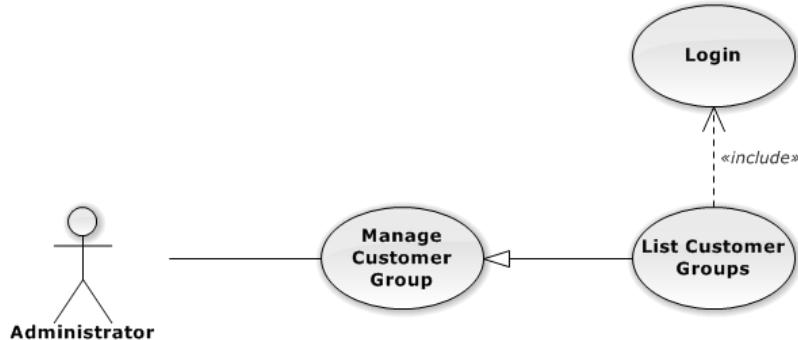


Figure 3-55: List Customer Groups Use-Case Diagram

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 | | | | | | |
| Actor: Administrator | | | | | | | | | |
| Summary: List All Customer Group. | | | | | | | | | |
| Goal: The purpose of List Customer Group use case is allowing Admin to view all Customer Groups. | | | | | | | | | |
| Triggers: User choose “Quản lý Nhóm Khách Hàng” in menu. | | | | | | | | | |
| Preconditions: User is authenticated and has role “admin”. The page is fully loaded. | | | | | | | | | |
| Post Conditions: Success: All Customer Groups are listed. 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 “Quản lý Nhóm Khách Hàng” in menu.</td><td>All Customer Groups are loaded.</td></tr> </tbody> </table> | | | | <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. | | | | | | | |
| Alternative Scenario: | | | | | | | | | |

| |
|------------------------|
| 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

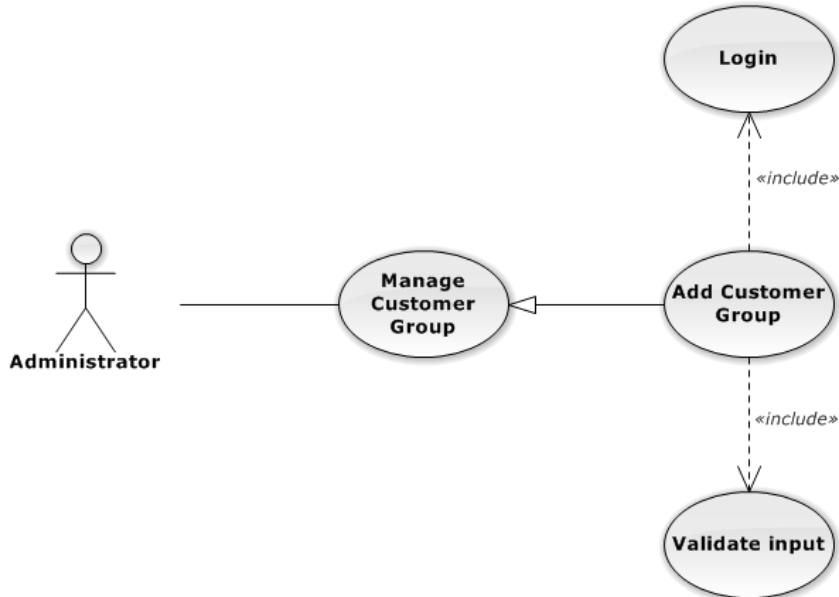


Figure 3-56: Add New Customer Group Use-Case Diagram

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

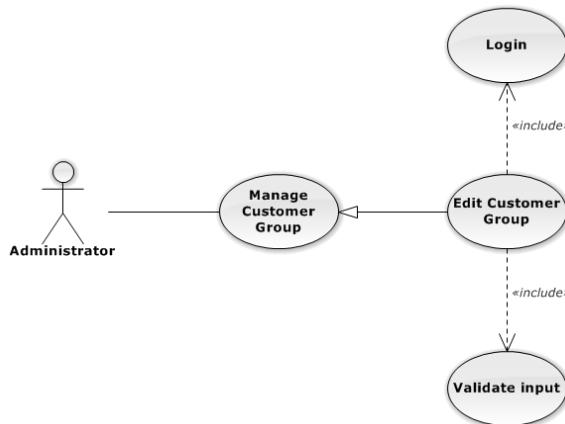


Figure 3-57: Edit Customer Group Use-Case Diagram

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

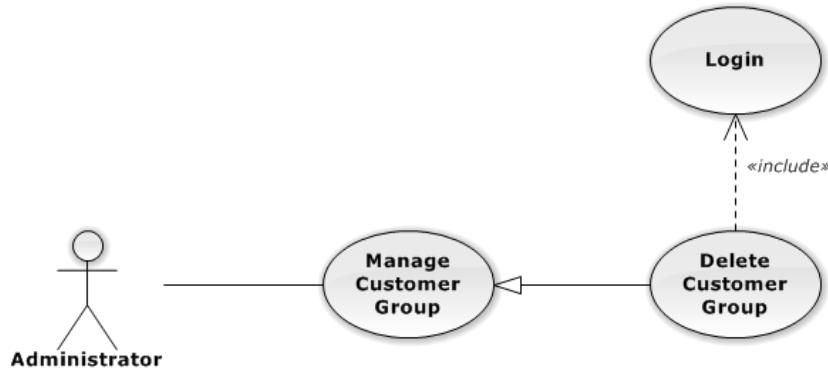


Figure 3-58: Delete Customer Group Use-Case Diagram

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

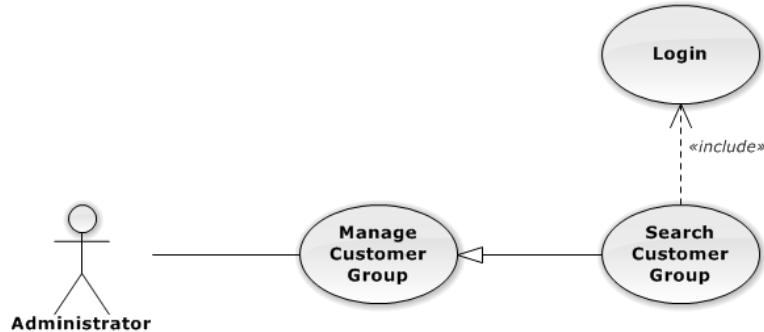


Figure 3-59: Search Customer Group Use-Case Diagram

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

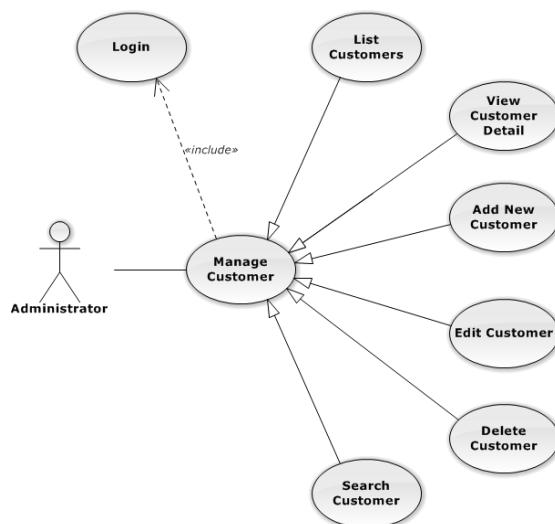


Figure 3-60: Manage Customer Use-Case Diagram

3.2.2.9.1. UC0048 - List Customers

3.2.2.9.1.1. Use-Case Diagram

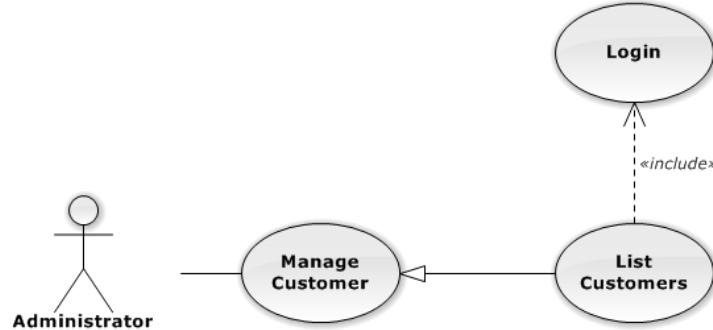


Figure 3-61: List Customers Use-Case Diagram

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

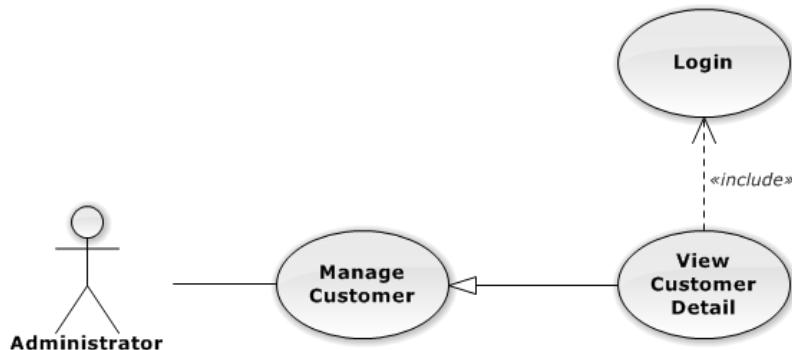


Figure 3-62: View Customer Detail Use-Case Diagram

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

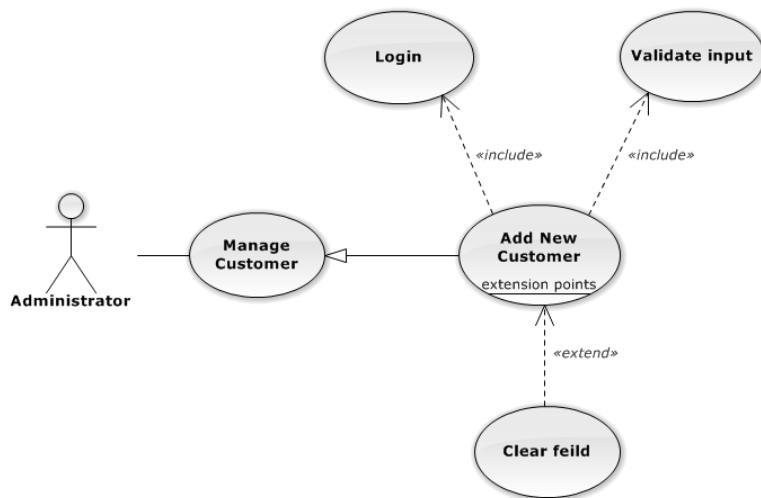


Figure 3-63: Add New Customer Use-Case Diagram

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

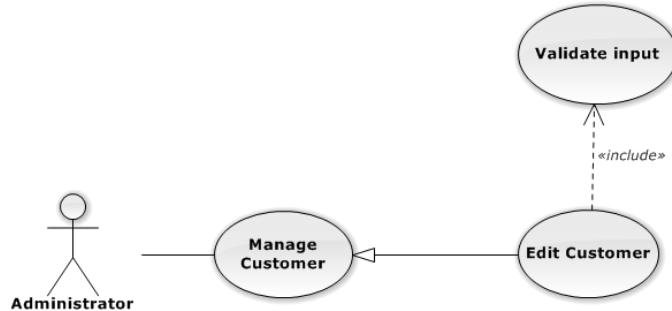


Figure 3-64: Edit Customer Use-Case Diagram

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

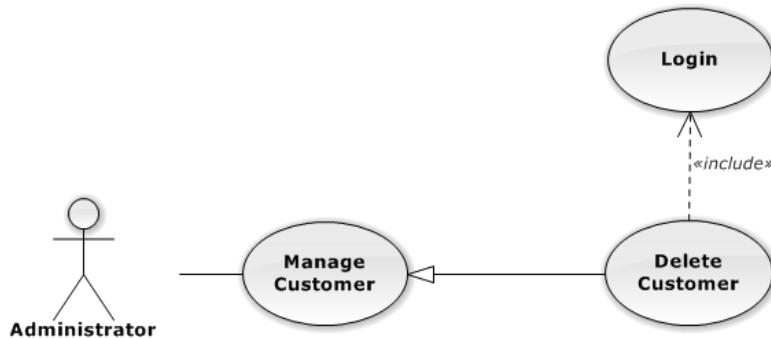


Figure 3-65: Delete Customer Use-Case Diagram

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 | | | | | | |
| Actor: Administrator | | | | | | | | | |
| Summary: Delete Customer. | | | | | | | | | |
| Goal: The purpose of Delete Customer use case is allowing Admin to delete Customer. | | | | | | | | | |
| Triggers: User choose “Quản lý Khách Hàng” in menu. | | | | | | | | | |
| Preconditions: User is authenticated and has role “admin”. | | | | | | | | | |
| Post Conditions: Success: The Customer is deleted. Failure: The Customer is not deleted 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 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> | <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>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] | | | | | | | |
| 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 confirm pop-up is closed.</td> </tr> </tbody> </table> | # | <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 | Presses “Đóng”, “X” button or click outside pop-up. | The confirm pop-up is closed. | | | | | | | |
| Exceptions: | | | | | | | | | |
| <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>User</i> | <i>System</i> | 1 | Delete Customer fail. | The confirm pop-up is closed and display error message “Xóa nhóm | | | |
| # | <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

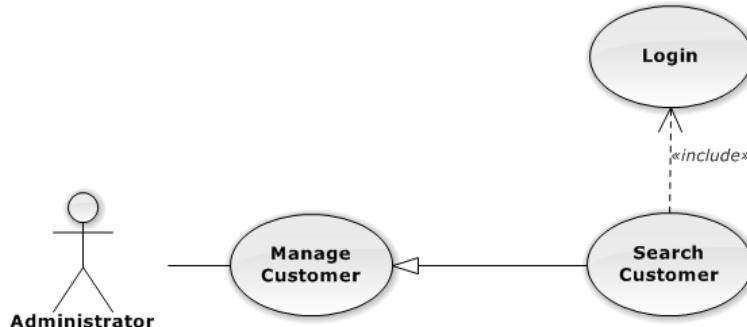


Figure 3-66: Search Customer Use-Case Diagram

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

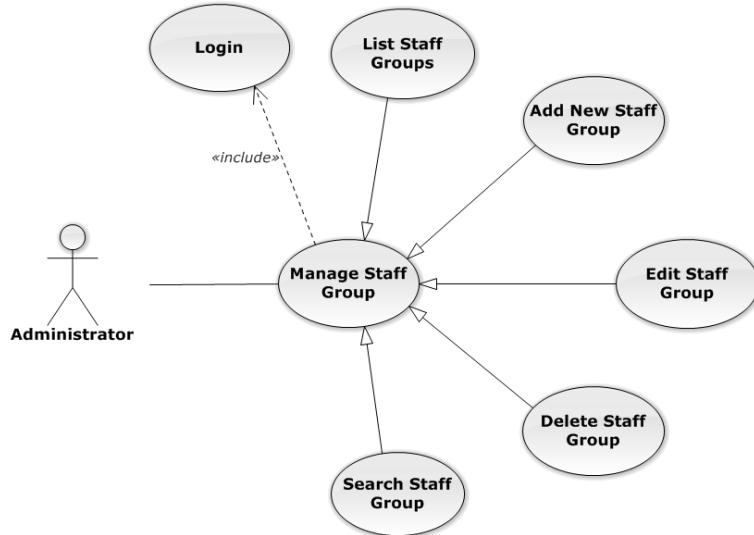


Figure 3-67: Manage Staff Group Use-Case Diagram

3.2.2.10.1. UC0054 - List Staff Groups

3.2.2.10.1.1. Use-Case Diagram

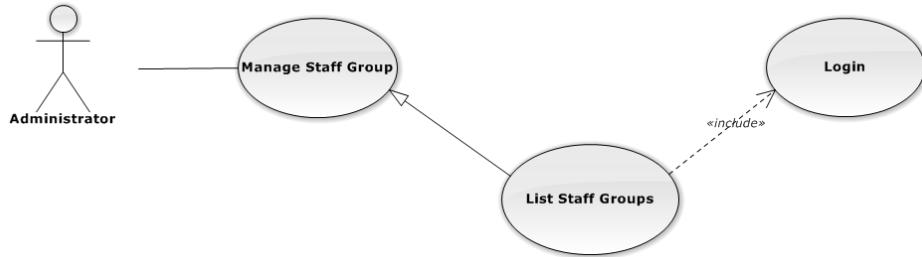


Figure 3-68: List Staff Groups Use-Case Diagram

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

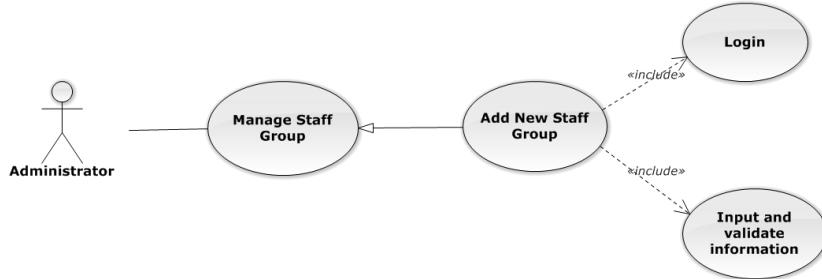


Figure 3-69: Add New Staff Group Use-Case Diagram

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

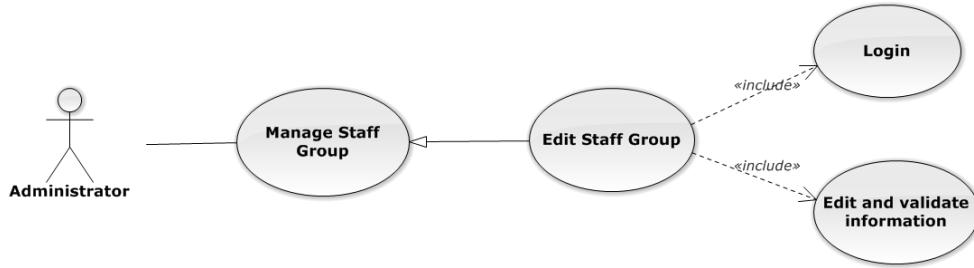


Figure 3-70: Edit Staff Group Use-Case Diagram

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

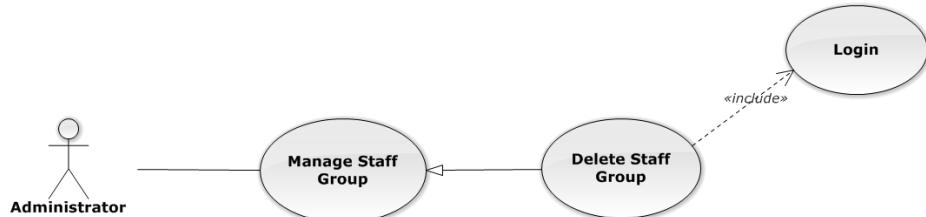


Figure 3-71: Delete Staff Group Use-Case Diagram

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

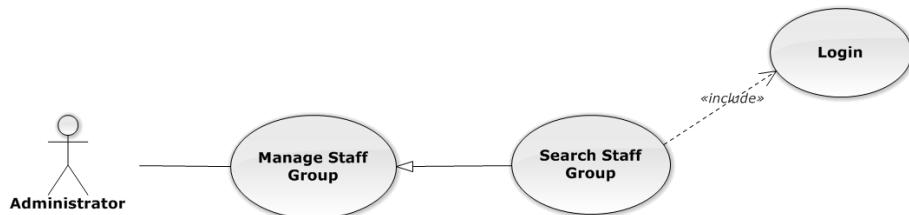


Figure 3-72: Search Staff Group Use-Case Diagram

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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;"><i>Step</i></th><th style="text-align: center; padding: 2px;"><i>User</i></th><th style="text-align: center; padding: 2px;"><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

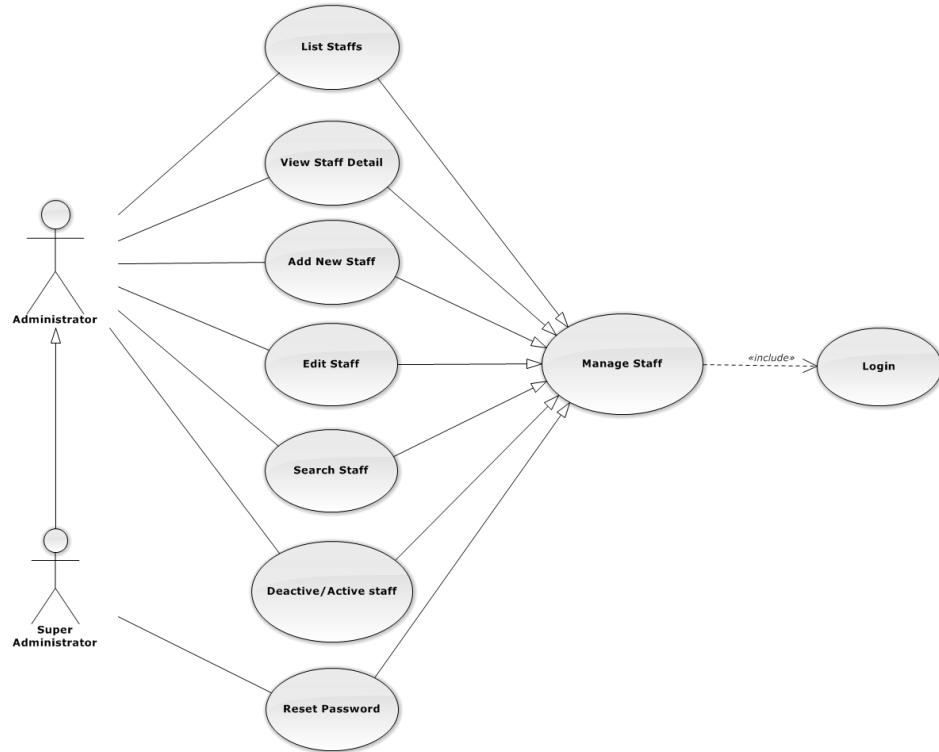


Figure 3-73: Manage Staff Use-Case Diagram

3.2.2.11.1. UC0059 - List Staffs

3.2.2.11.1.1. Use-Case Diagram

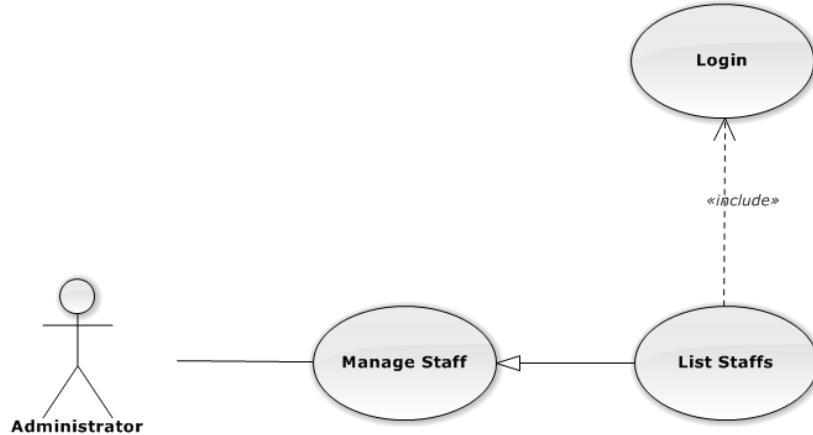


Figure 3-74: List Staffs Use-Case Diagram

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

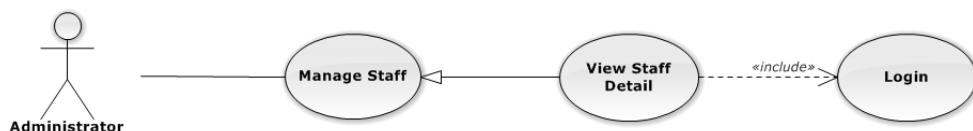


Figure 3-75: View Staff Detail Use-Case Diagram

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> | 1 | Staff click on “chi tiết” button or click on image link [Alternative 1] ,[Alternative 2] | The detail staff information is displayed. |
| <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

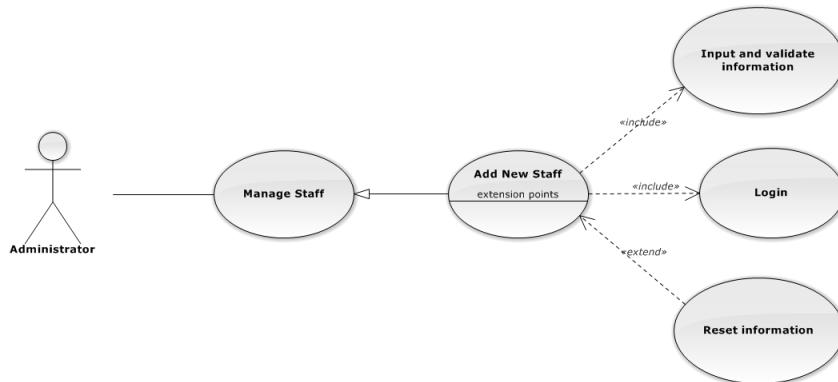


Figure 3-76: Add New Staff Use-Case Diagram

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

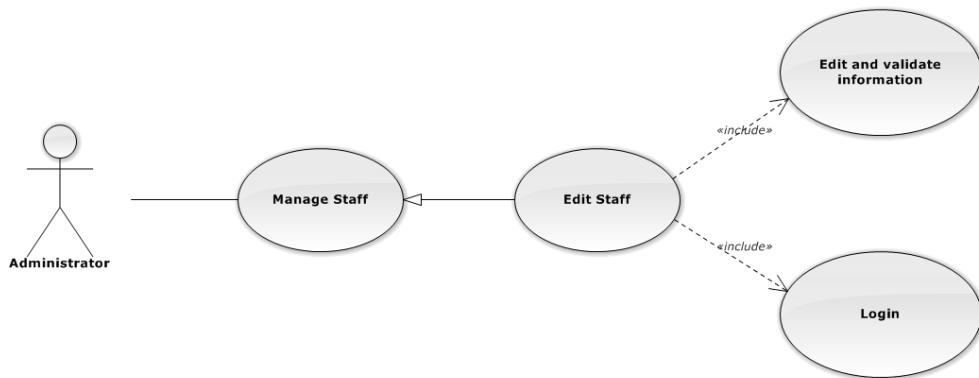


Figure 3-77: Edit Staff Use-Case Diagram

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

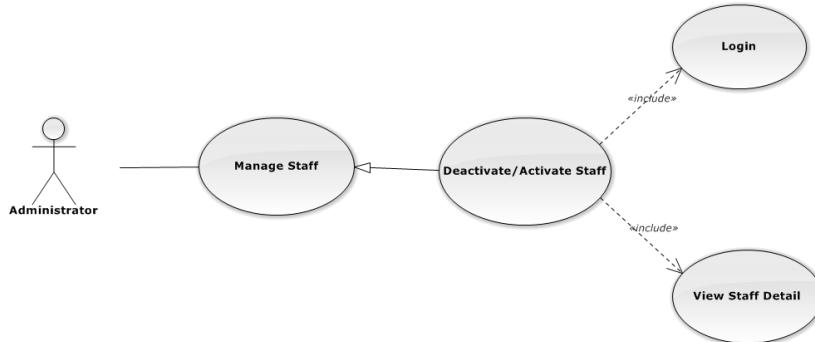


Figure 3-78: Deactivate/Activate Staff Use-Case Diagram

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

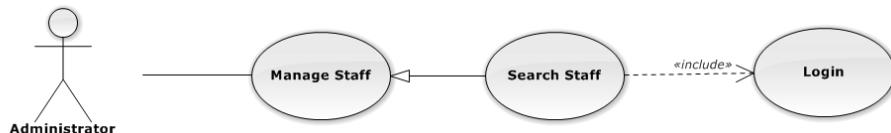


Figure 3-79: Search Staff Use-Case Diagram

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

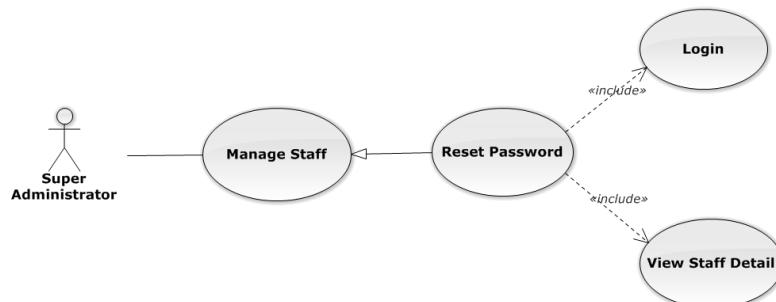


Figure 3-80: Reset Password Use-Case Diagram

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

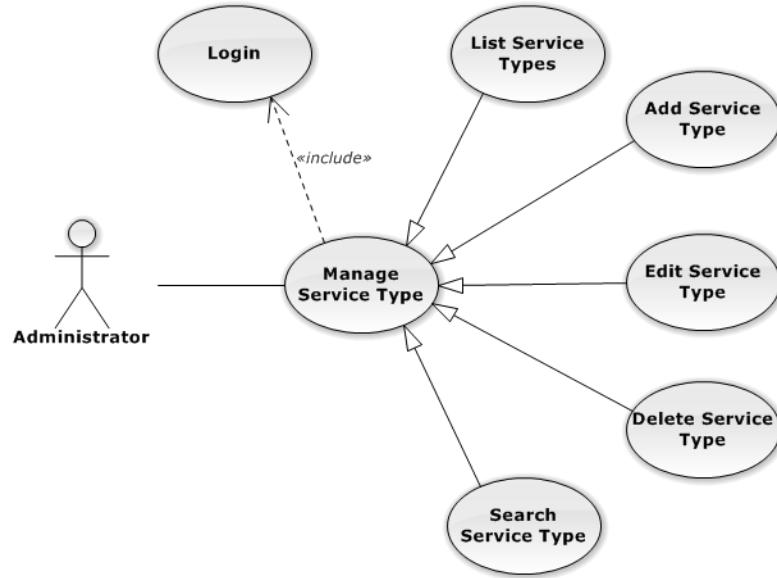


Figure 3-81: Manage Service Type Use-Case Diagram

3.2.2.12.1. UC0066 - List Service Types

3.2.2.12.1.1. Use-Case Diagram

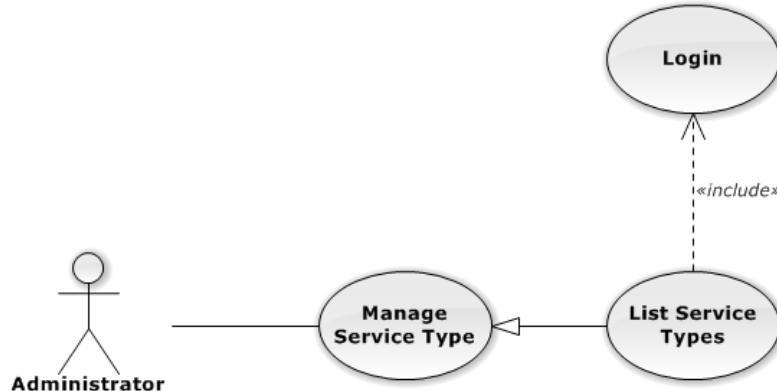


Figure 3-82: List Service Types Use-Case Diagram

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

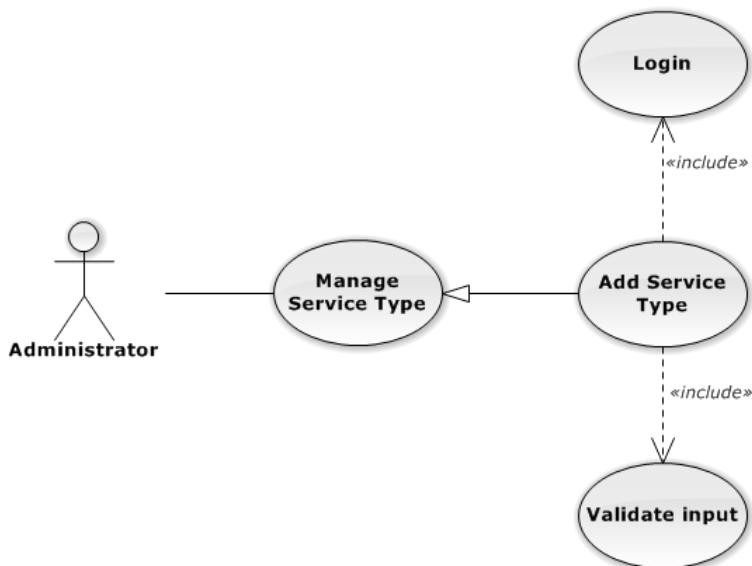


Figure 3-83: Add New Service Type Use-Case Diagram

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

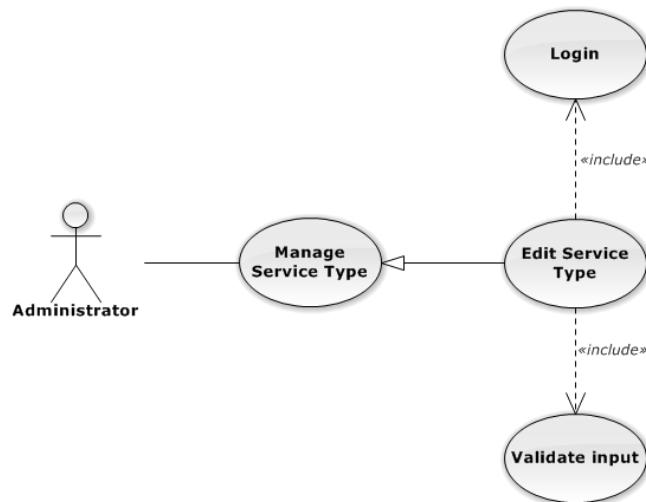


Figure 3-84: Edit Service Type Use-Case Diagram

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] |
|---|---|--|

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

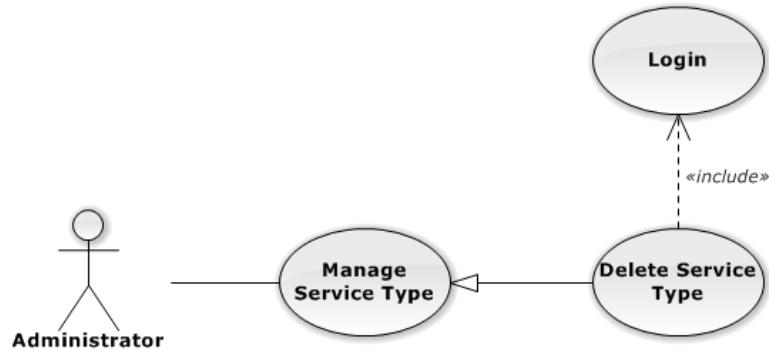


Figure 3-85: Delete Service Type Use-Case Diagram

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

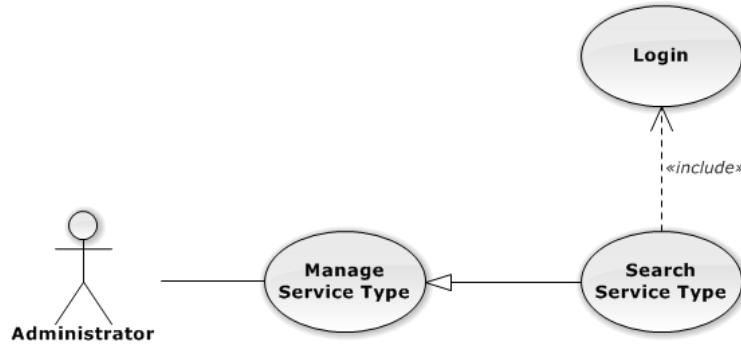


Figure 3-86: Search Service Type Use-Case Diagram

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

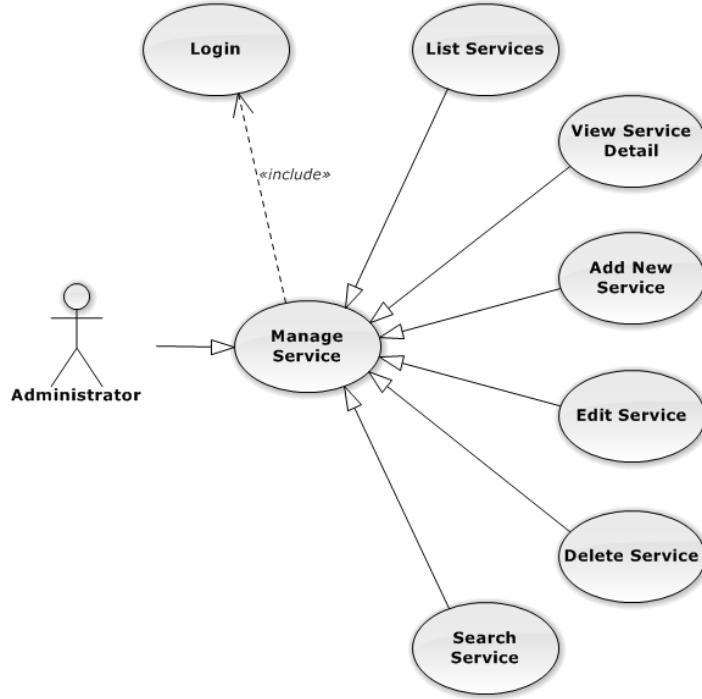


Figure 3-87: Manage Service Use-Case Diagram

3.2.2.13.1. UC0071 - List Services

3.2.2.13.1.1. Use-Case Diagram

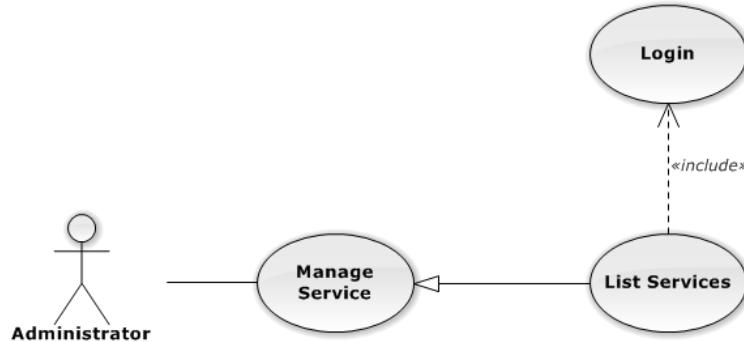


Figure 3-88: List Services Use-Case Diagram

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

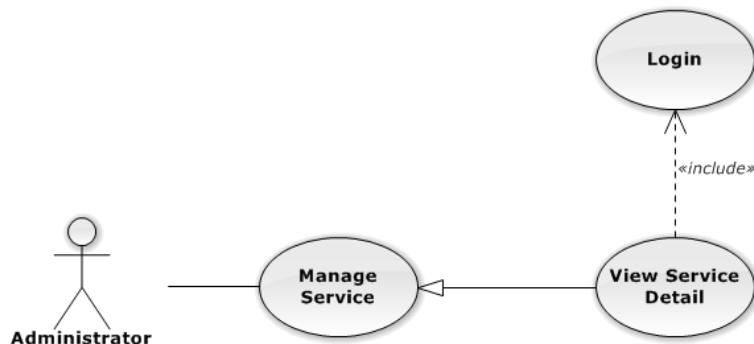


Figure 3-89: View Service Detail Use-Case Diagram

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

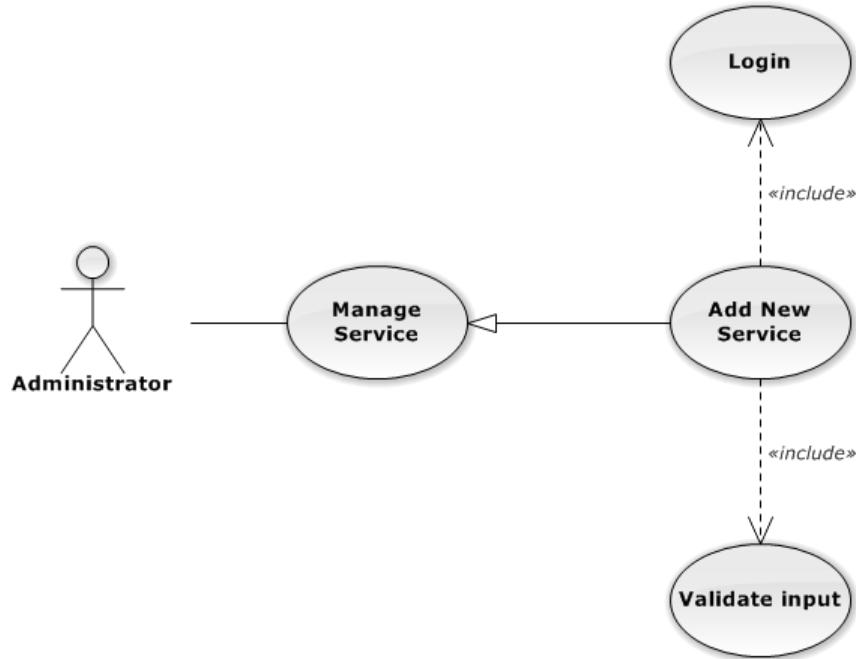


Figure 3-90: Add New Service Use-Case Diagram

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

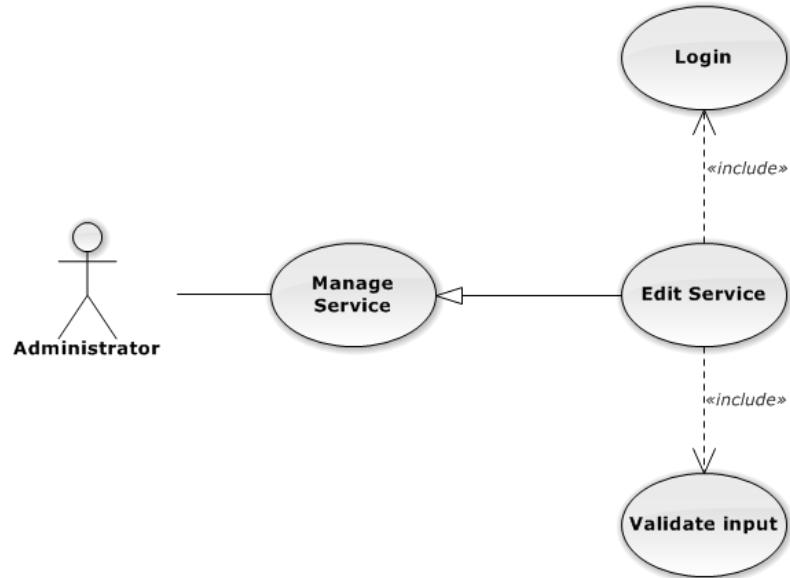


Figure 3-91: Edit Service Use-Case Diagram

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

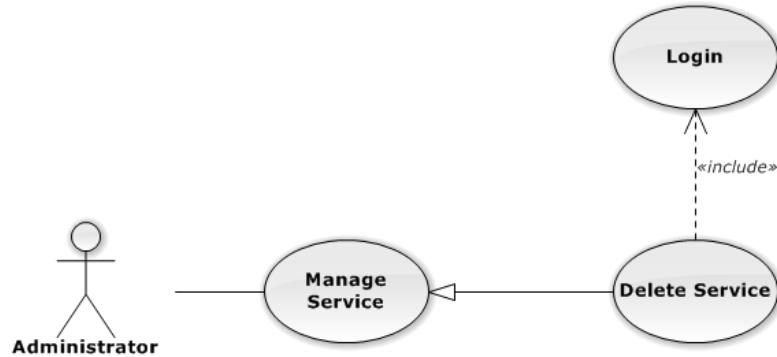


Figure 3-92: Delete Service Use-Case Diagram

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

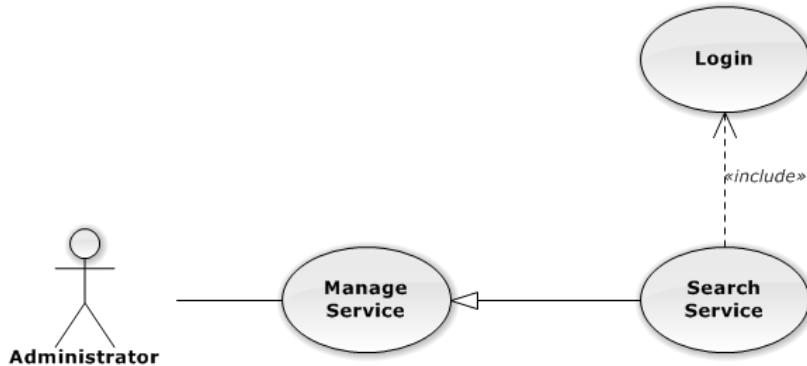


Figure 3-93: Search Service Use-Case Diagram

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

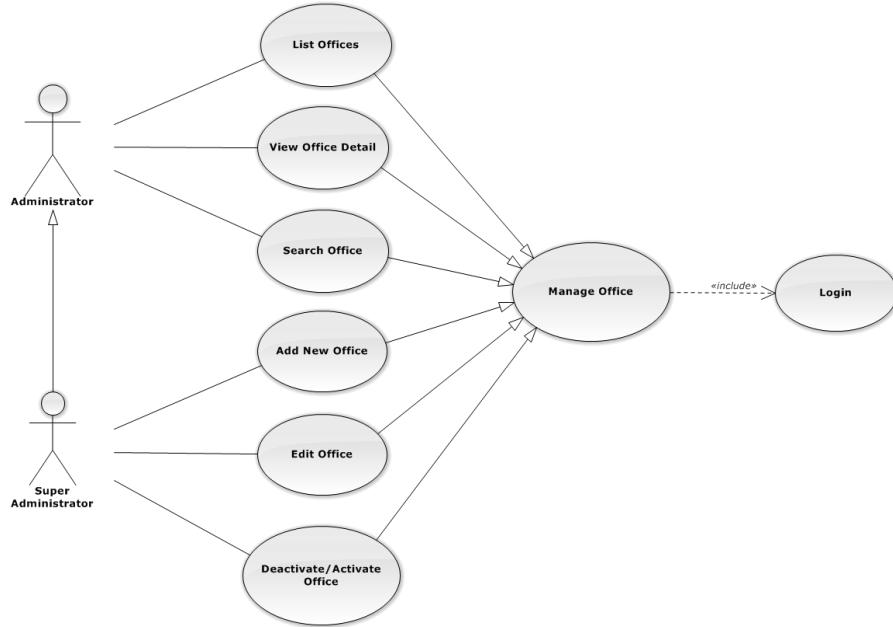


Figure 3-94: Manage Office Use-Case Diagram

3.2.2.14.1. UC0077 - List Offices

3.2.2.14.1.1. Use-Case Diagram

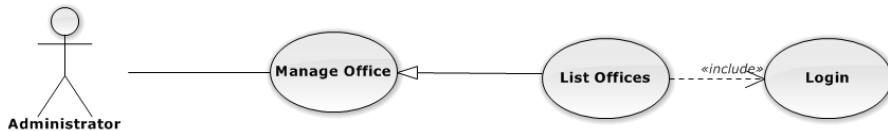


Figure 3-95: List Offices Use-Case Diagram

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

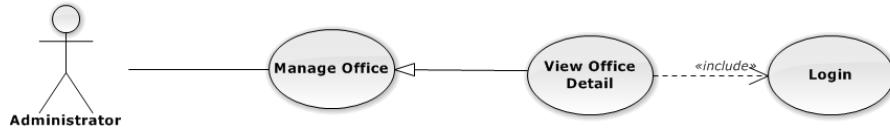


Figure 3-96: View Office Detail Use-Case Diagram

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:

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

Alternative Scenario:

| # | <i>User</i> | <i>System</i> |
|---|--|--|
| 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

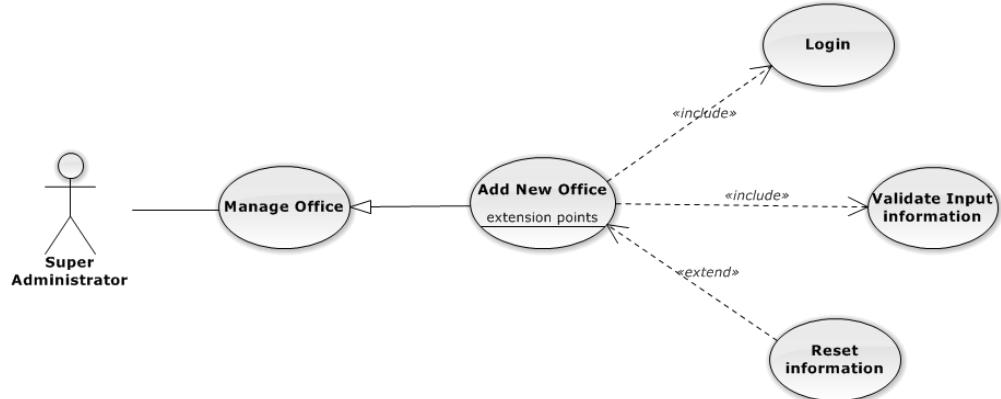


Figure 3-97: Add New Office Use-Case Diagram

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

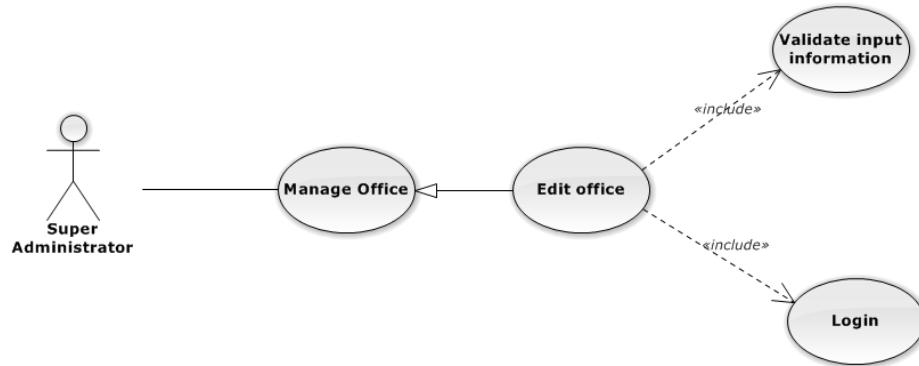


Figure 3-98: Edit Office Use-Case Diagram

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

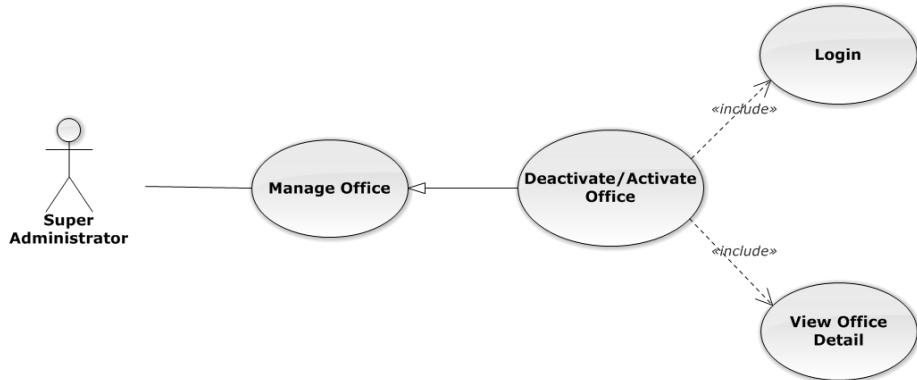


Figure 3-99: Deactivate/Activate Office Use-Case Diagram

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

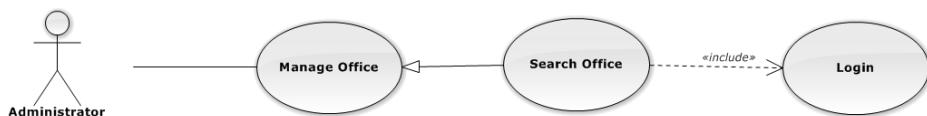


Figure 3-100: Search Office Use-Case Diagram

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

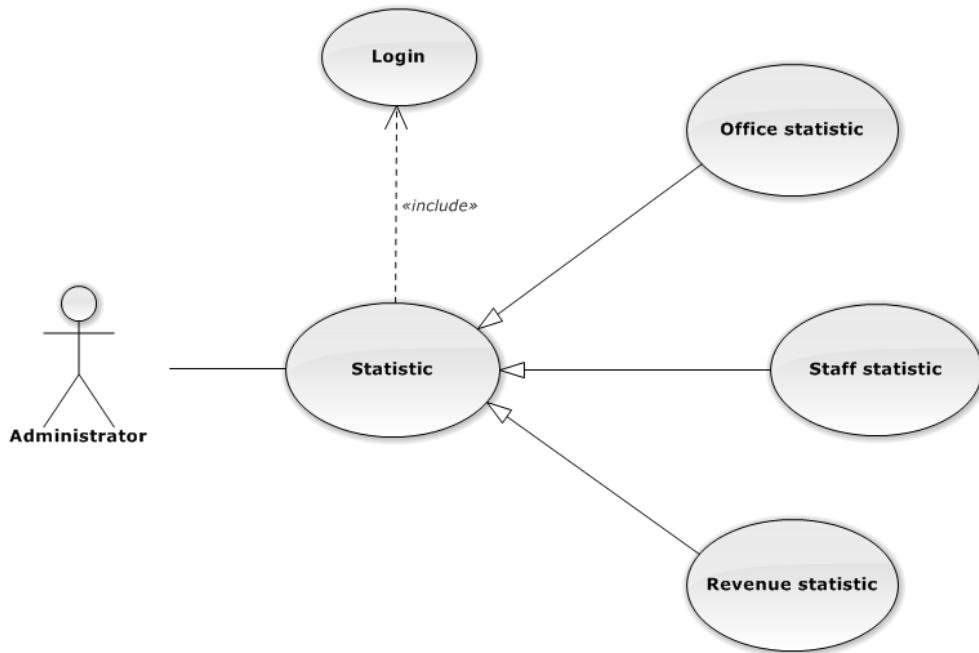


Figure 3-101: Statistic Use-Case Diagram

3.2.2.15.1. UC0083 - Office Statistic

3.2.2.15.1.1. Use-Case Diagram

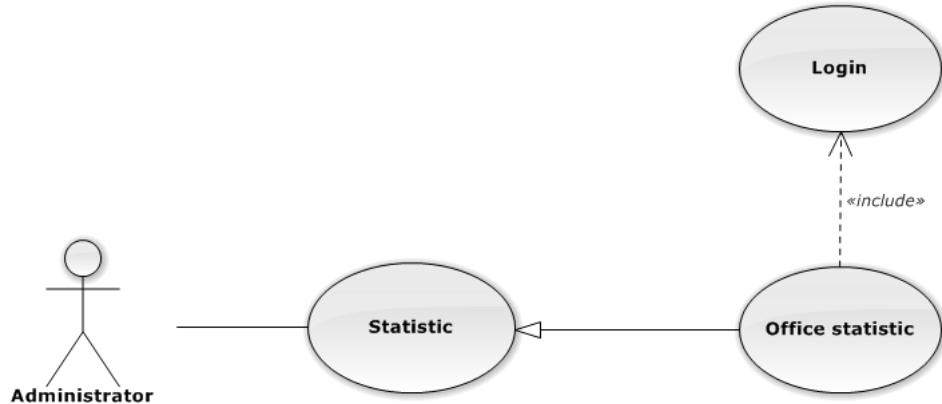


Figure 3-102: Office Statistic Use-Case Diagram

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

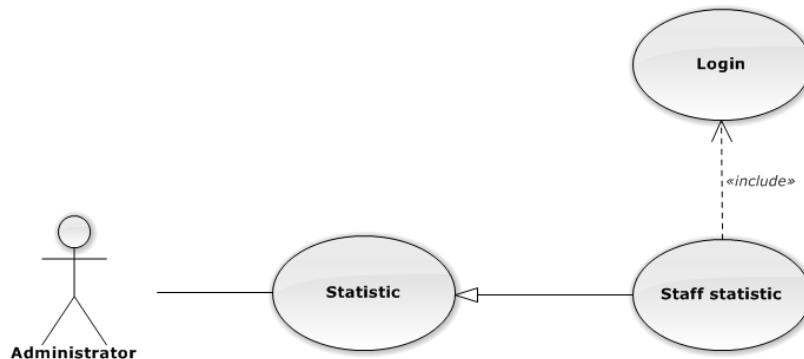


Figure 3-103: Staff Statistic Use-Case Diagram

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

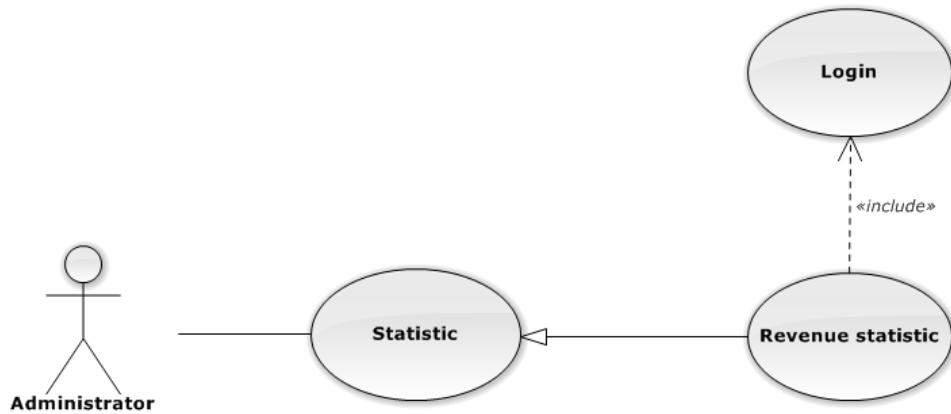


Figure 3-104: Revenue Statistic Use-Case Diagram

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

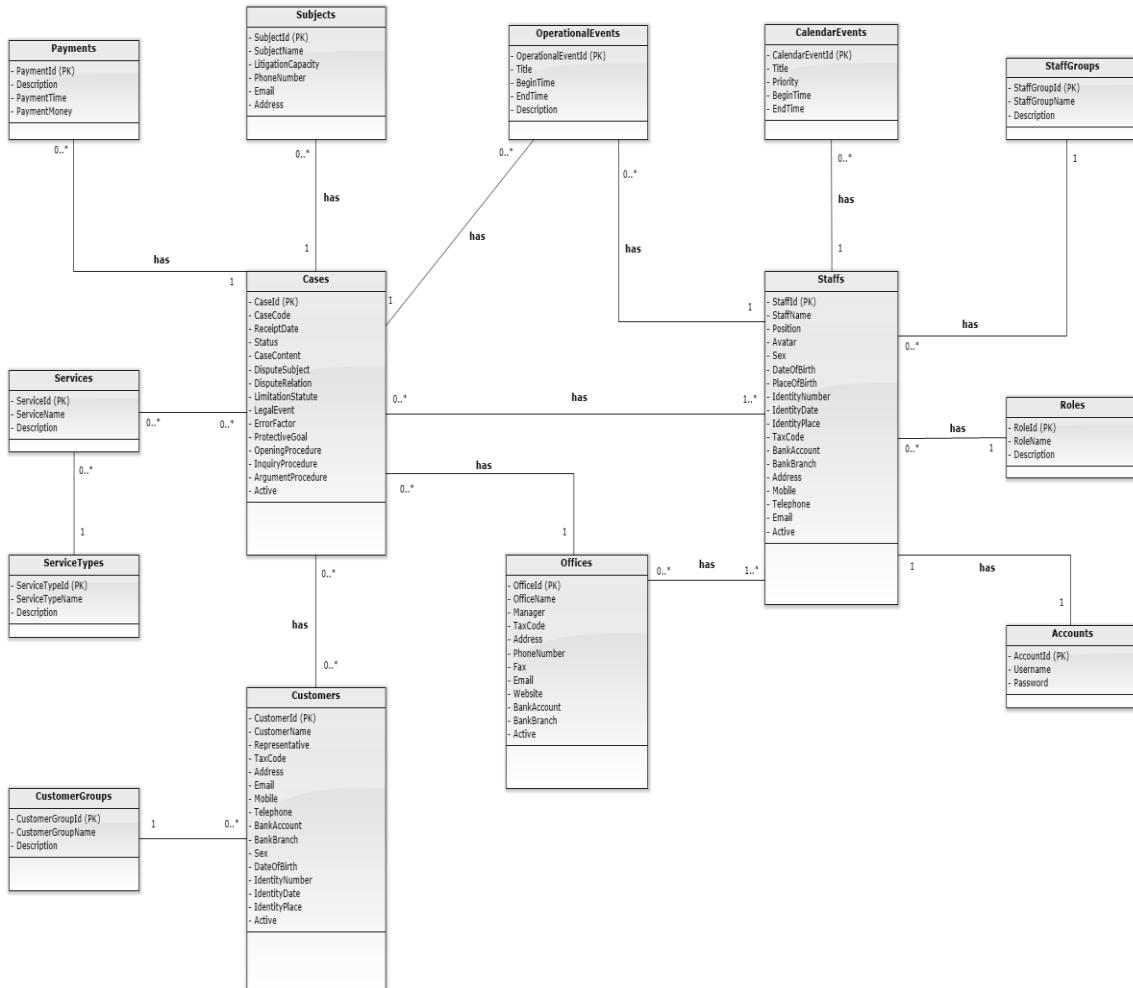


Figure 3-105: Entity Relationship Diagram

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

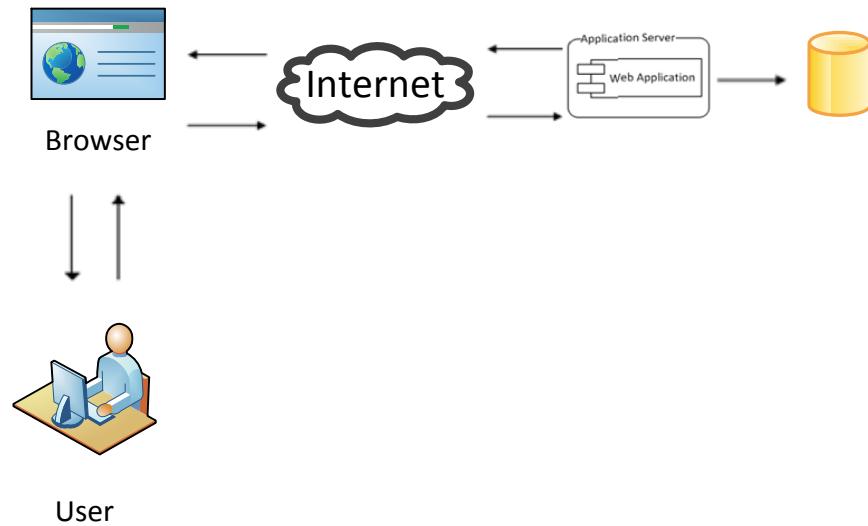


Figure 4-1: System Architecture

- 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

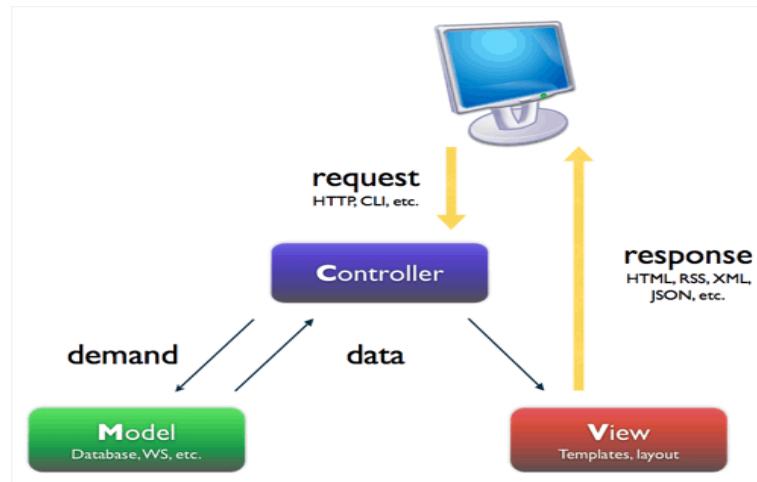


Figure 4-2: MVC Architecture

- 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

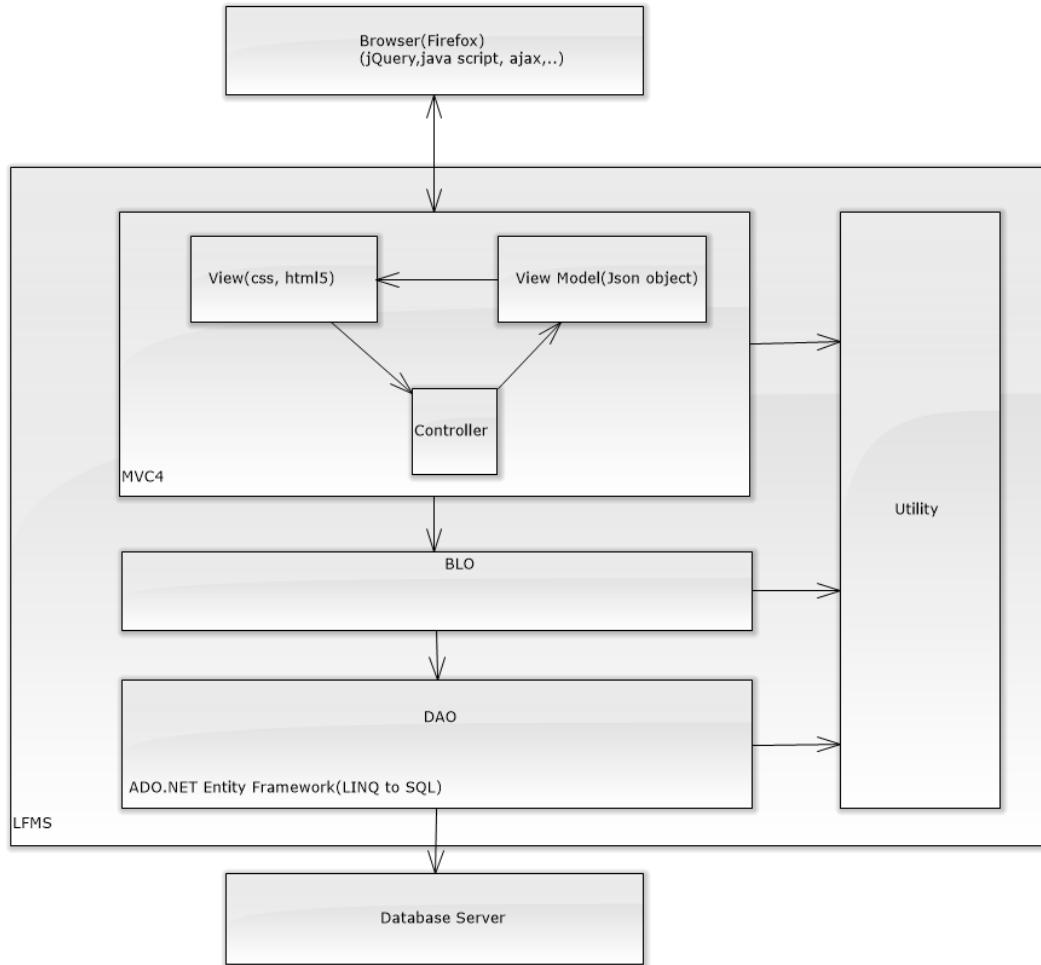


Figure 4-3: System overview

- 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

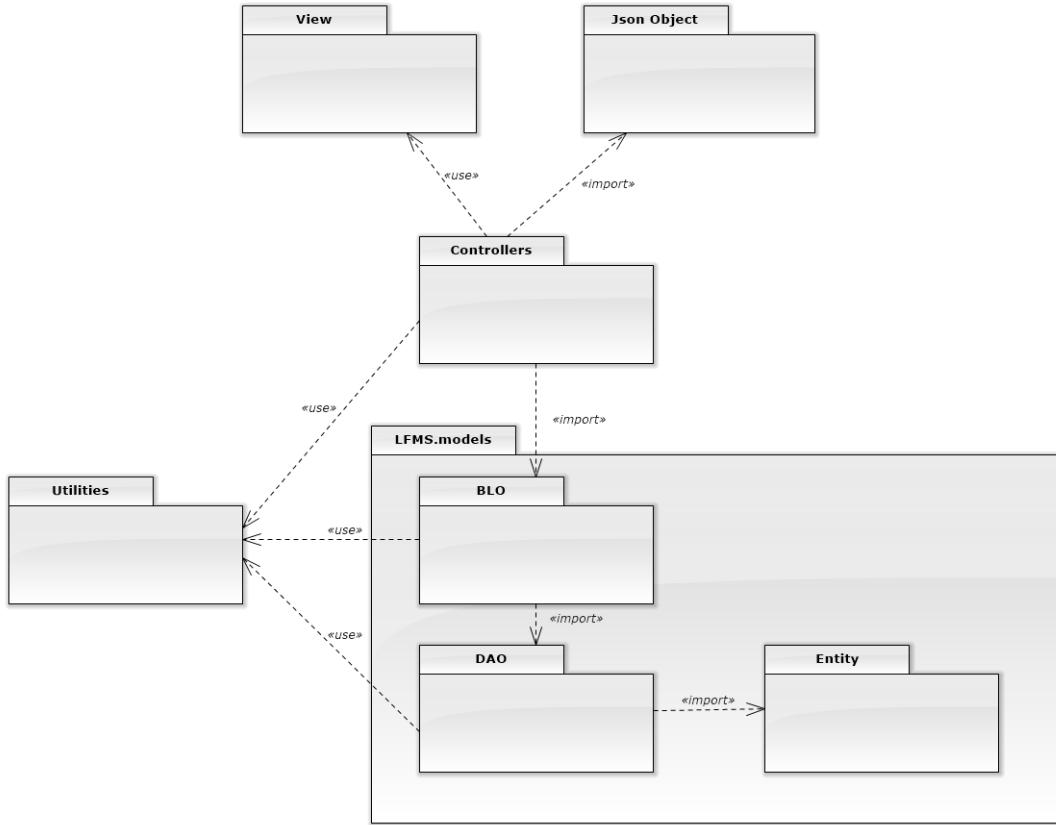


Figure 4-4: Package Diagram

4.3. Detailed Design

4.3.1. Data Model

4.3.1.1. Data Model Class Diagram

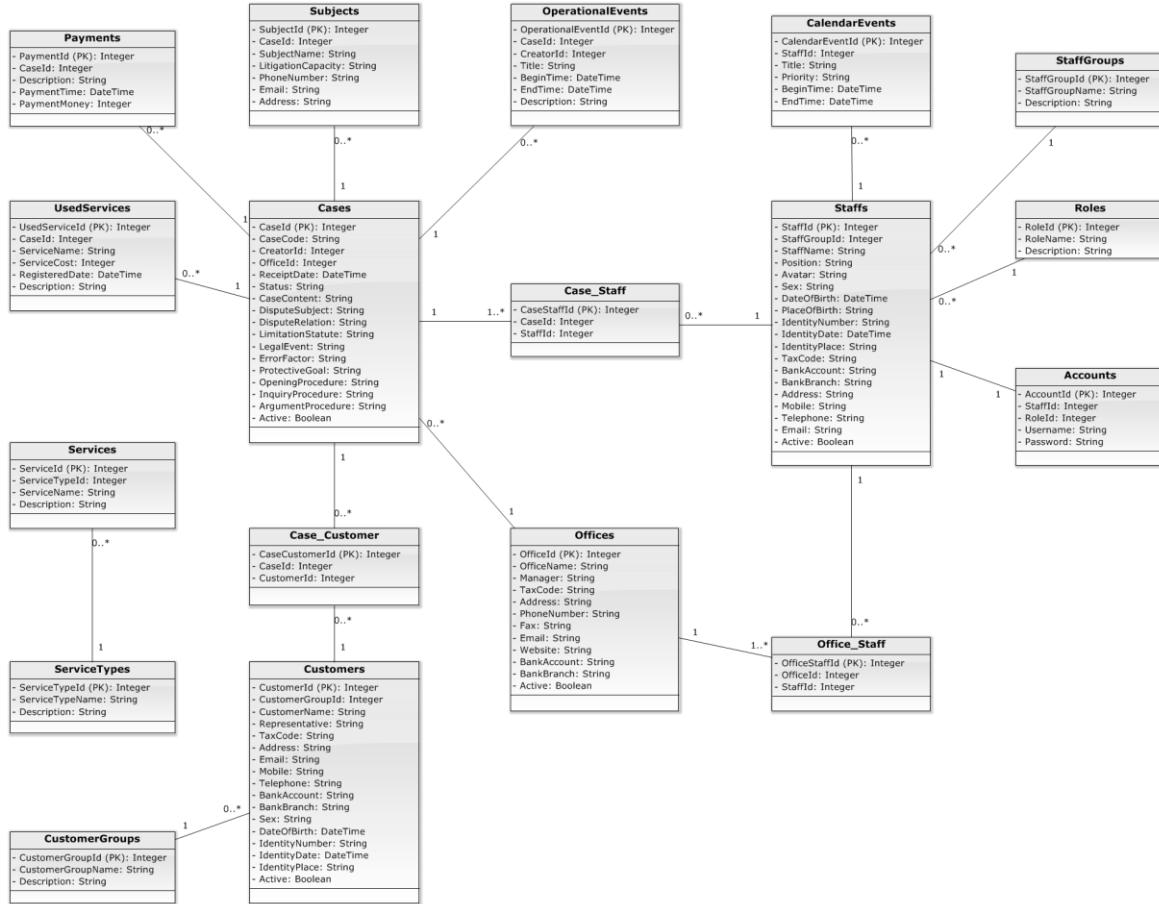


Figure 4-5: Data Model Class Diagram

4.3.2. Controller

4.3.2.1. Controller Class Diagram

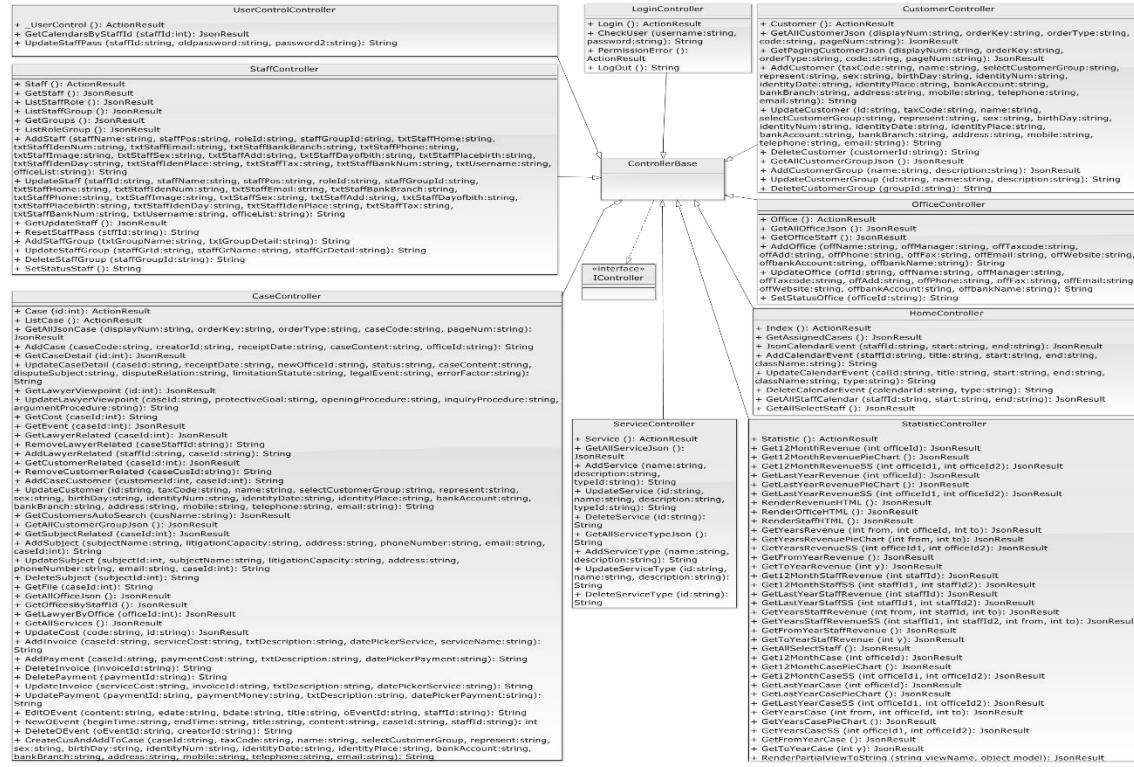


Figure 4-6: Controller Class Diagram

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. |
|--|-------------------|--------|--------|---|

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 |
|--|--------------------|--------------------------------|------|---|

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 |
|--|--------------------|--|------|---|

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 |
|--|---------------------|--------|--------|--|

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

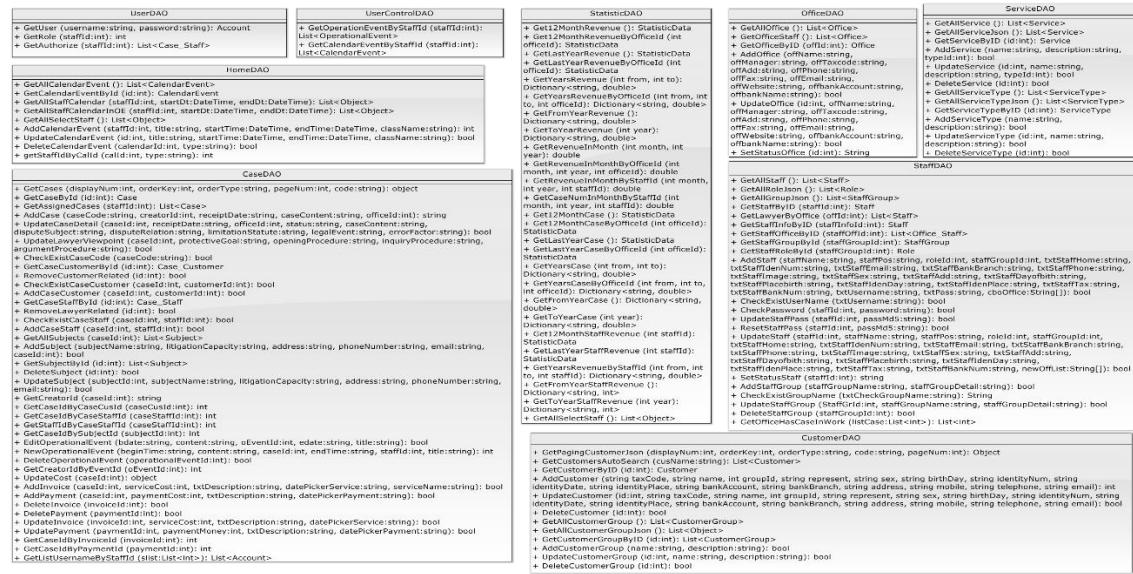


Figure 4-8: Data Access Class Diagram

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. |
|--|--------------------|----------------------------|-----|---|

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

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. |
|--|-------------------|-----|--------------|---|

4.3.5. Login

4.3.5.1. Class diagram

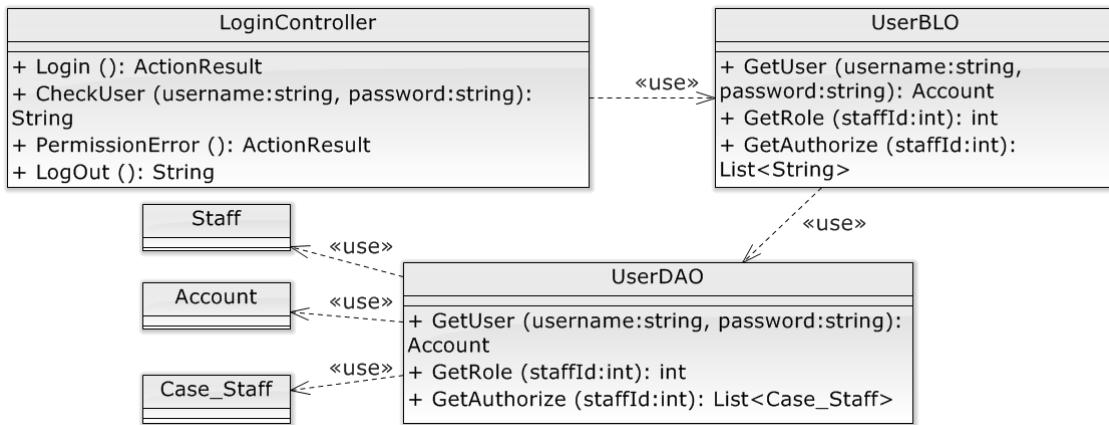


Figure 4-9: Login Class Diagram

4.3.5.2. Screen design

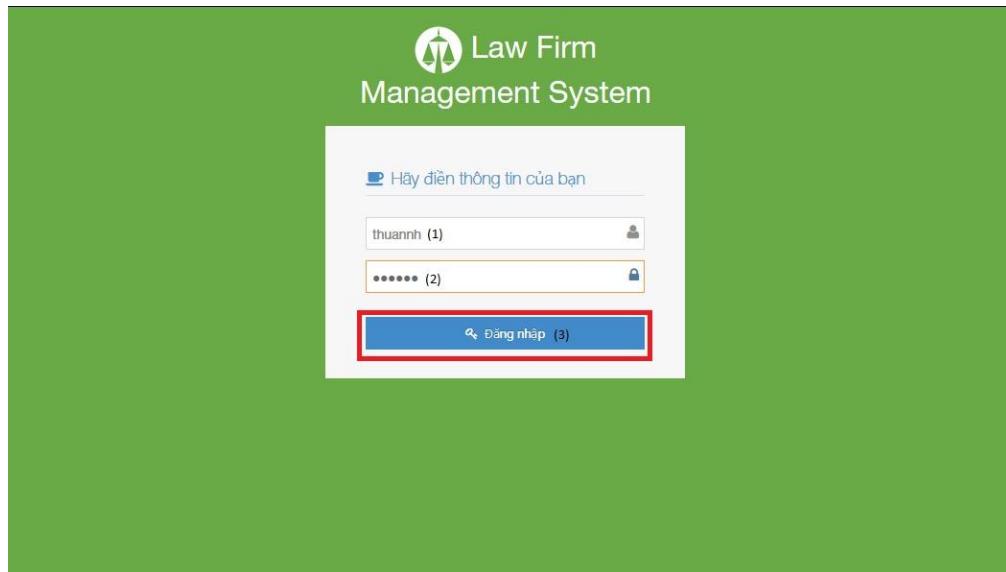


Figure 4-10: Login Image

| 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

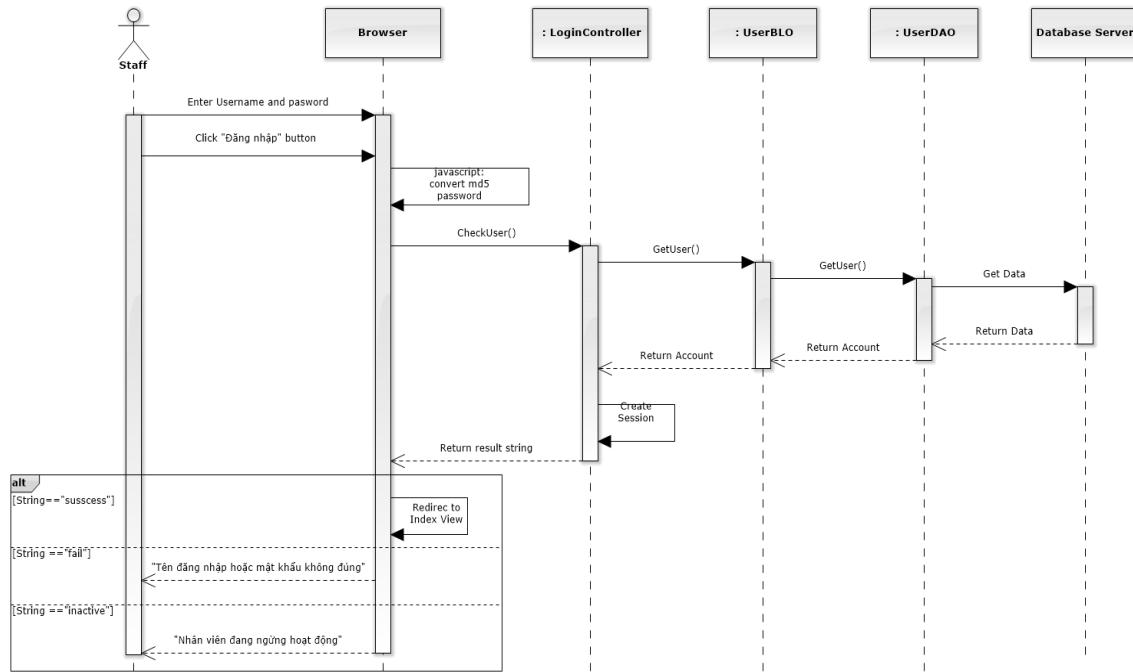


Figure 4-11: Login Sequence Diagram

4.3.6. Change password

4.3.6.1. Class diagram

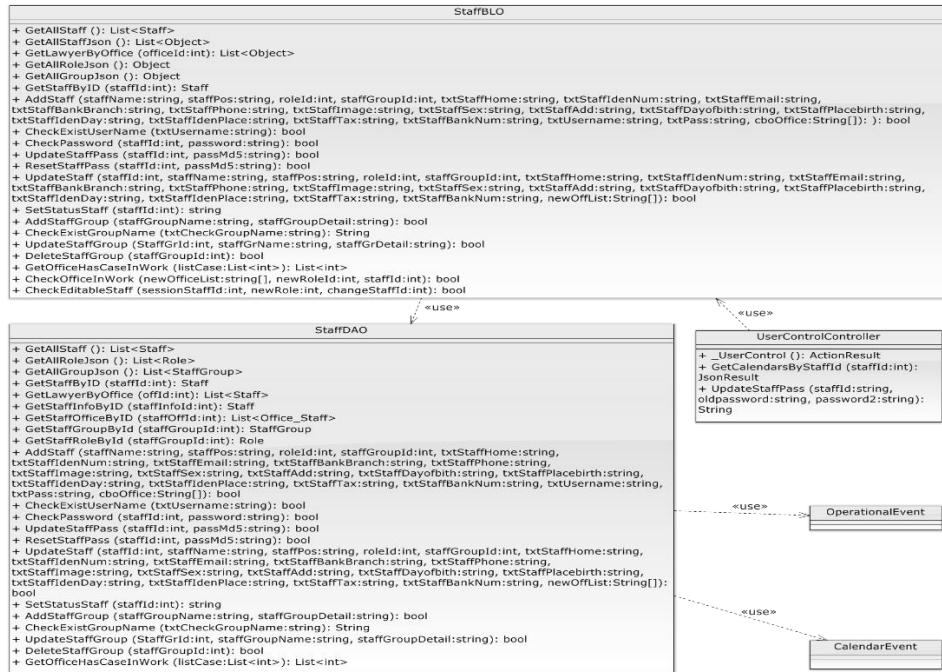


Figure 4-12: Change password class diagram

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 contains three fields with masked input:

- Mật khẩu cũ: * (1)
- Mật khẩu mới: * (2)
- Lặp lại mật khẩu mới: * (3)

At the bottom left is a button labeled "Đóng" (Close). At the bottom right is a green button labeled "Đổi mật khẩu" (Change password).

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

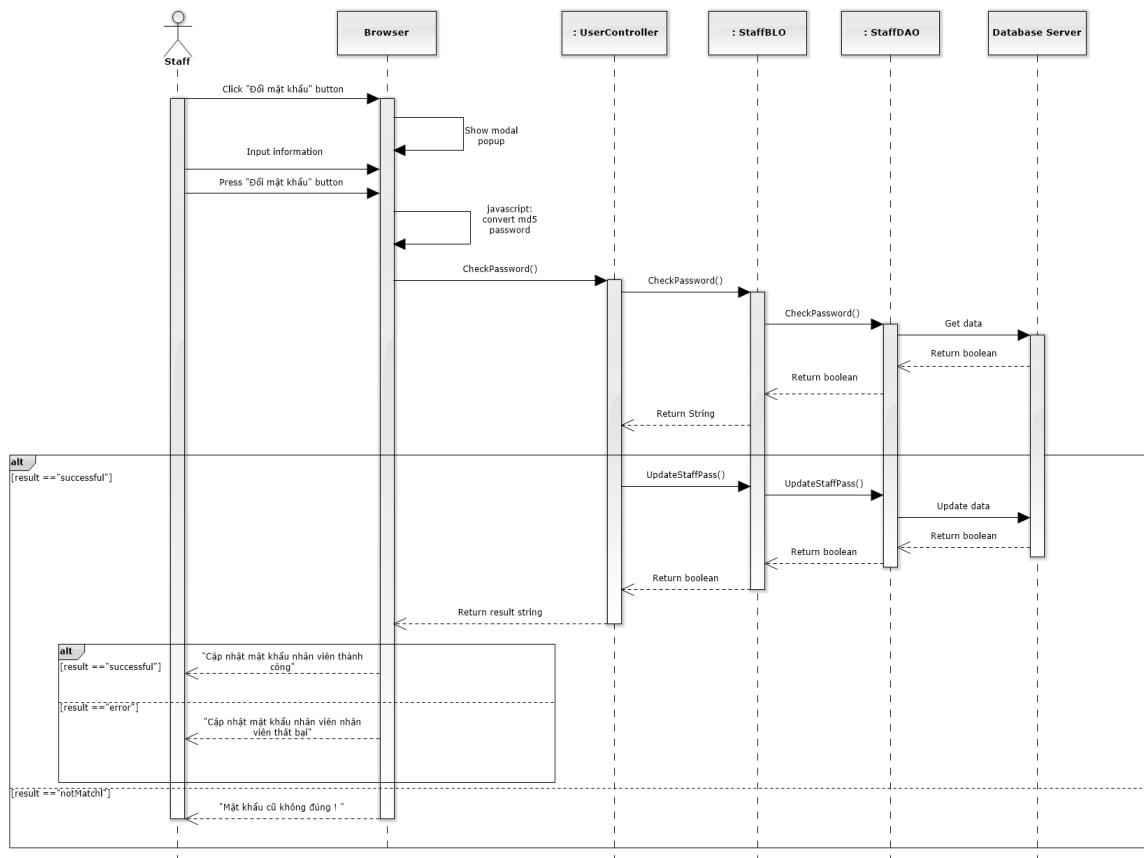


Figure 4-14: Change Password Sequence Diagram

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

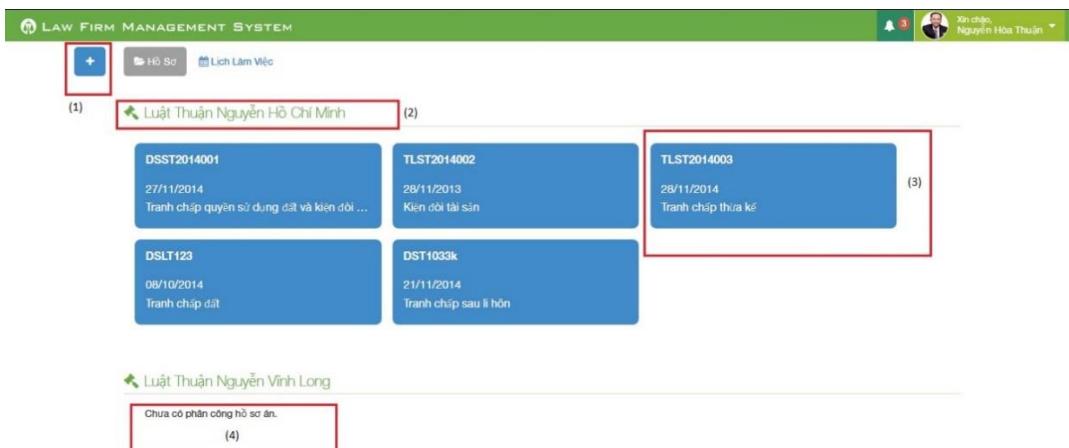


Figure 4-16: View Home image

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

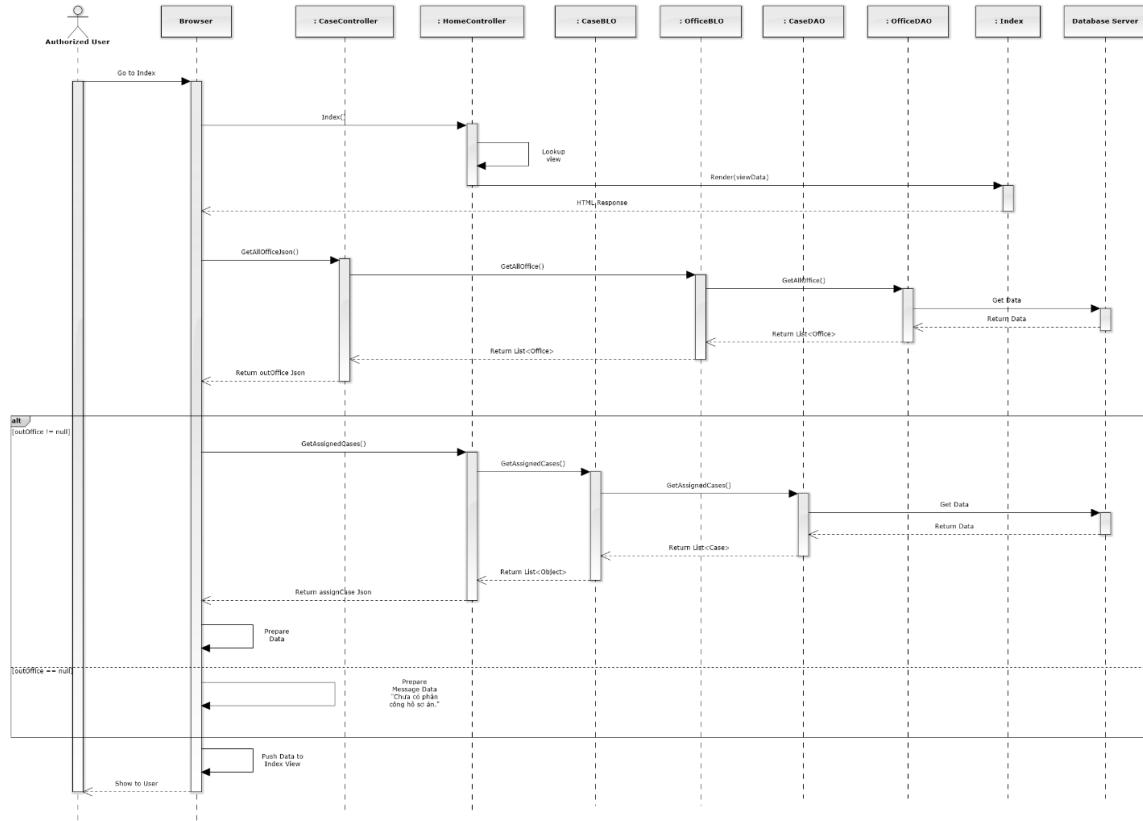


Figure 4-17: View Home Sequence Diagram

4.3.8. Notify

4.3.8.1. Class diagram

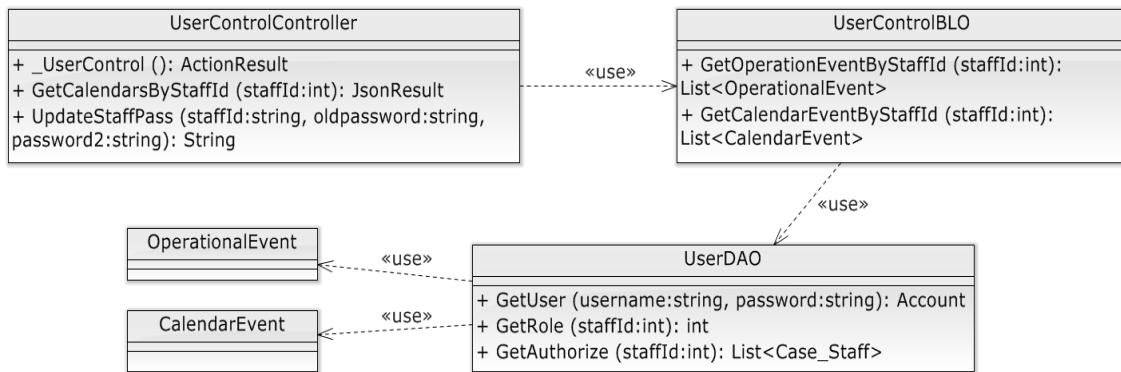


Figure 4-18: Notify event class diagram

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

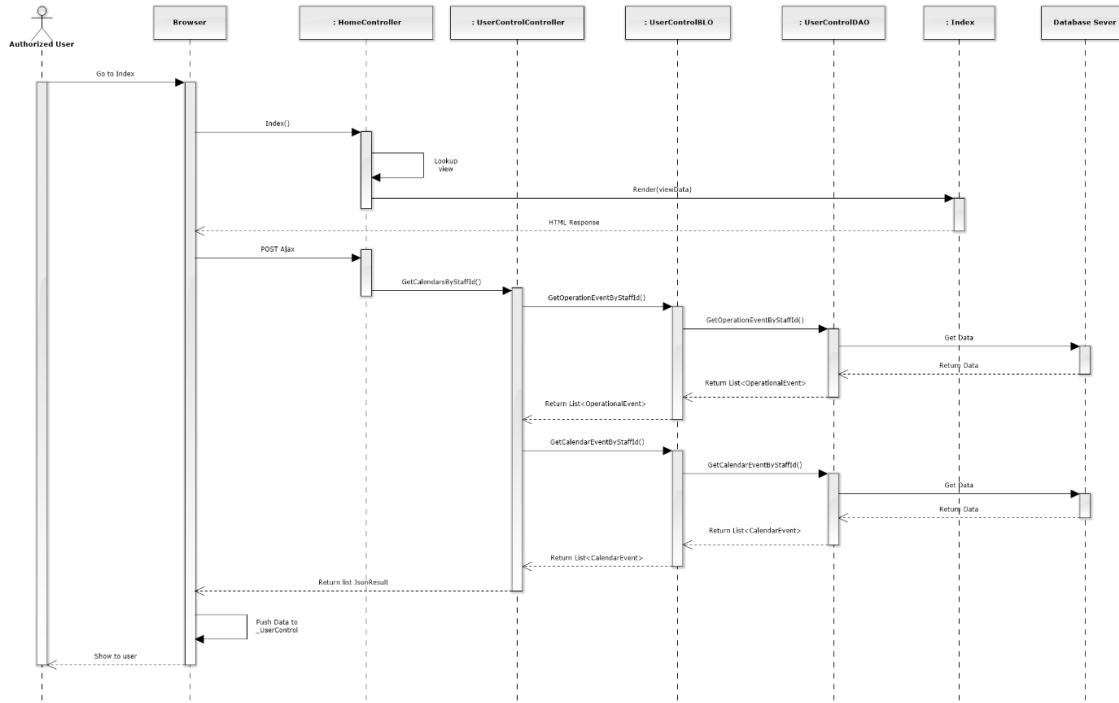


Figure 4-20: Notify Sequence Diagram

4.3.9. Manage Calendar Event

4.3.9.1. List Calendar Events

4.3.9.1.1. Class diagram

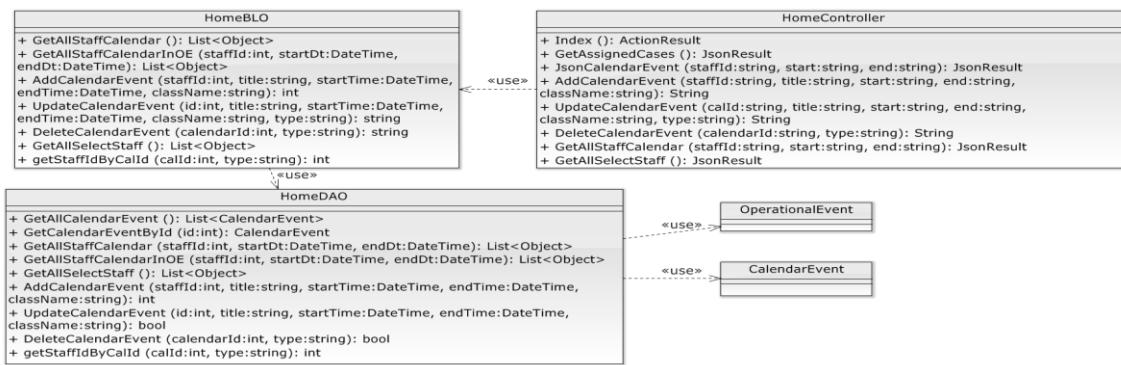


Figure 4-21: List calendar events class diagram

4.3.9.1.2. Screen design

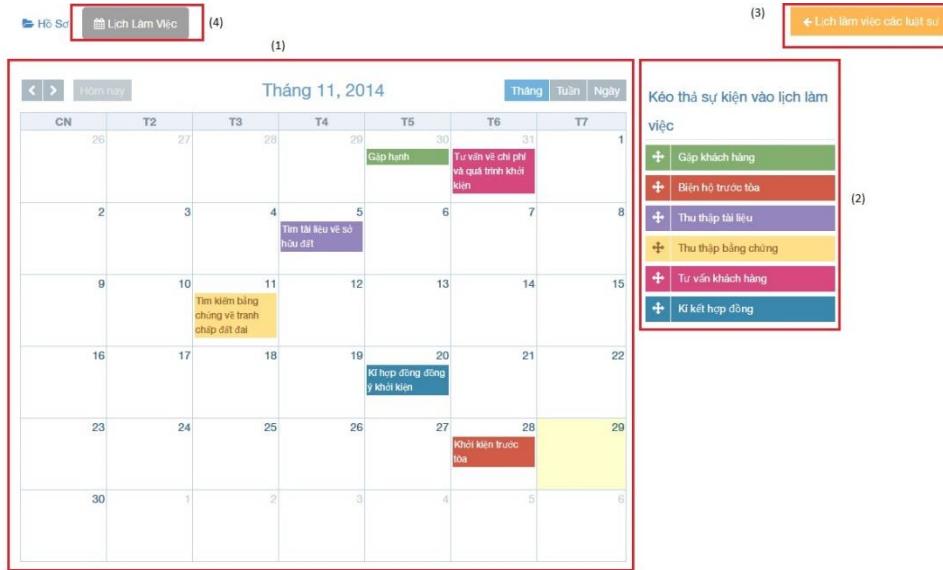


Figure 4-22: :List calendar events image

| 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

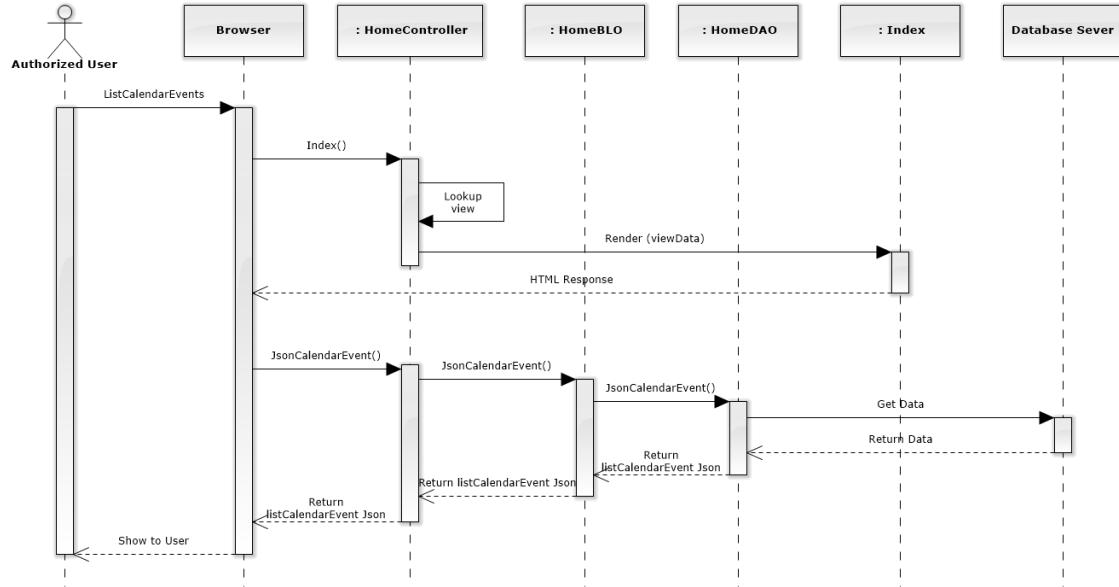


Figure 4-23: List Calendar Events Sequence Diagram

4.3.9.2. Add new calendar event

4.3.9.2.1. Screen design

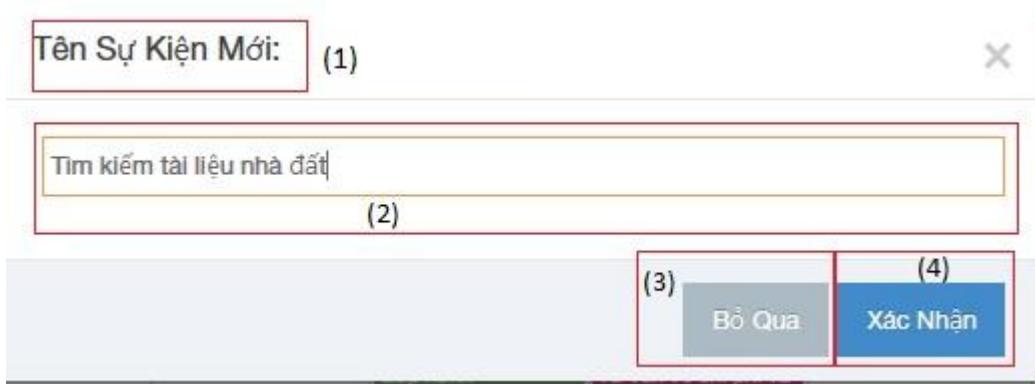


Figure 4-24 :Add new calendar events image

| 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

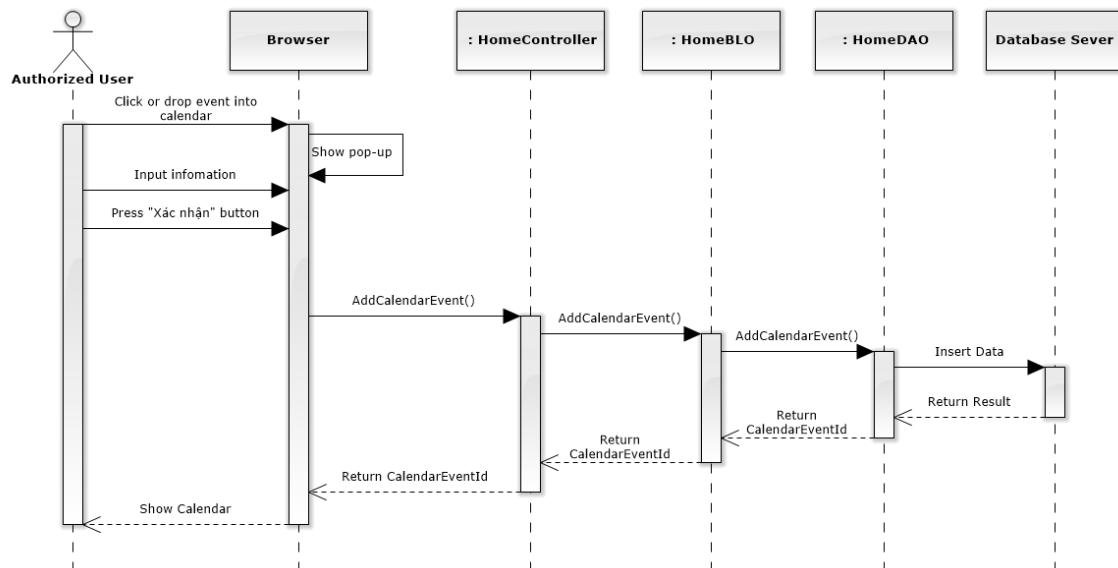


Figure 4-25: Add New Calendar Event Sequence Diagram

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

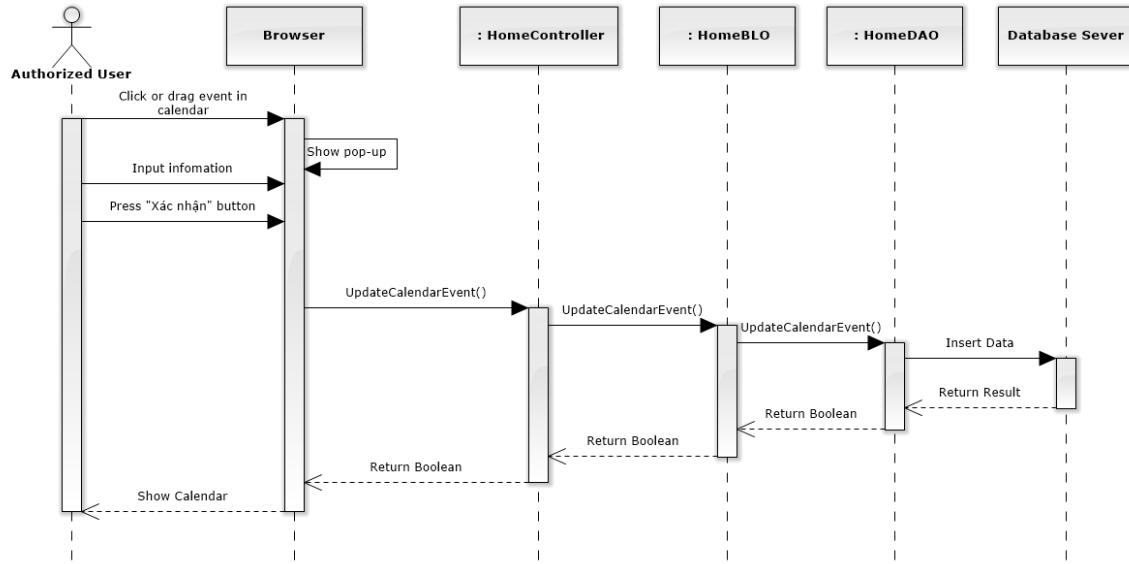


Figure 4-27: Edit Calendar Event Sequence Diagram

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

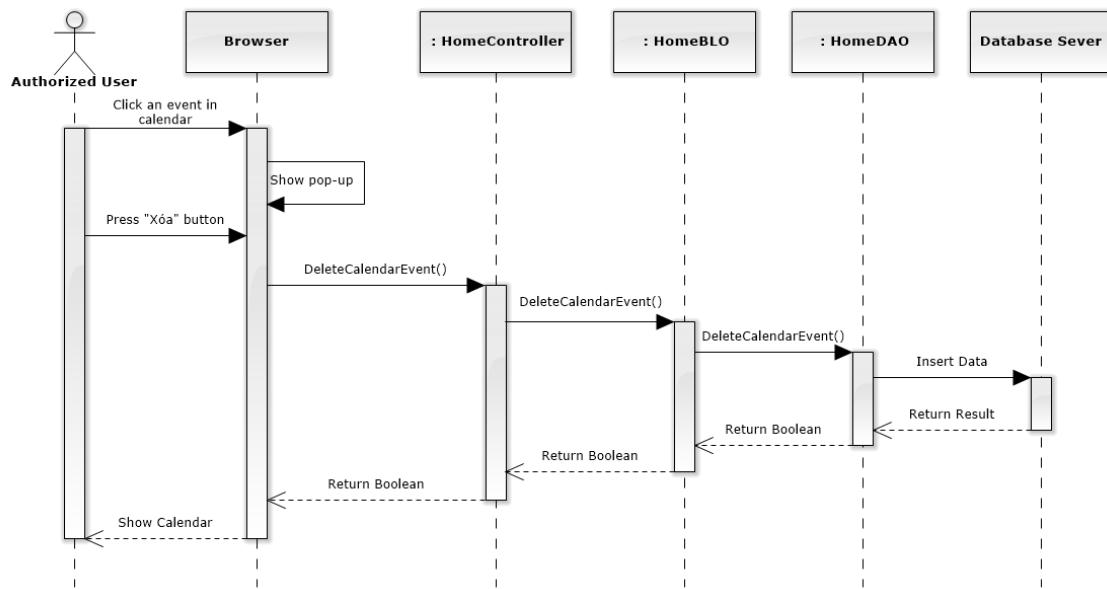


Figure 4-29: Delete Calendar Event Sequence Diagram

Capstone Project: LFMS

4.3.10. Manage Case

4.3.10.1. List all cases

4.3.10.1.1. Class diagram

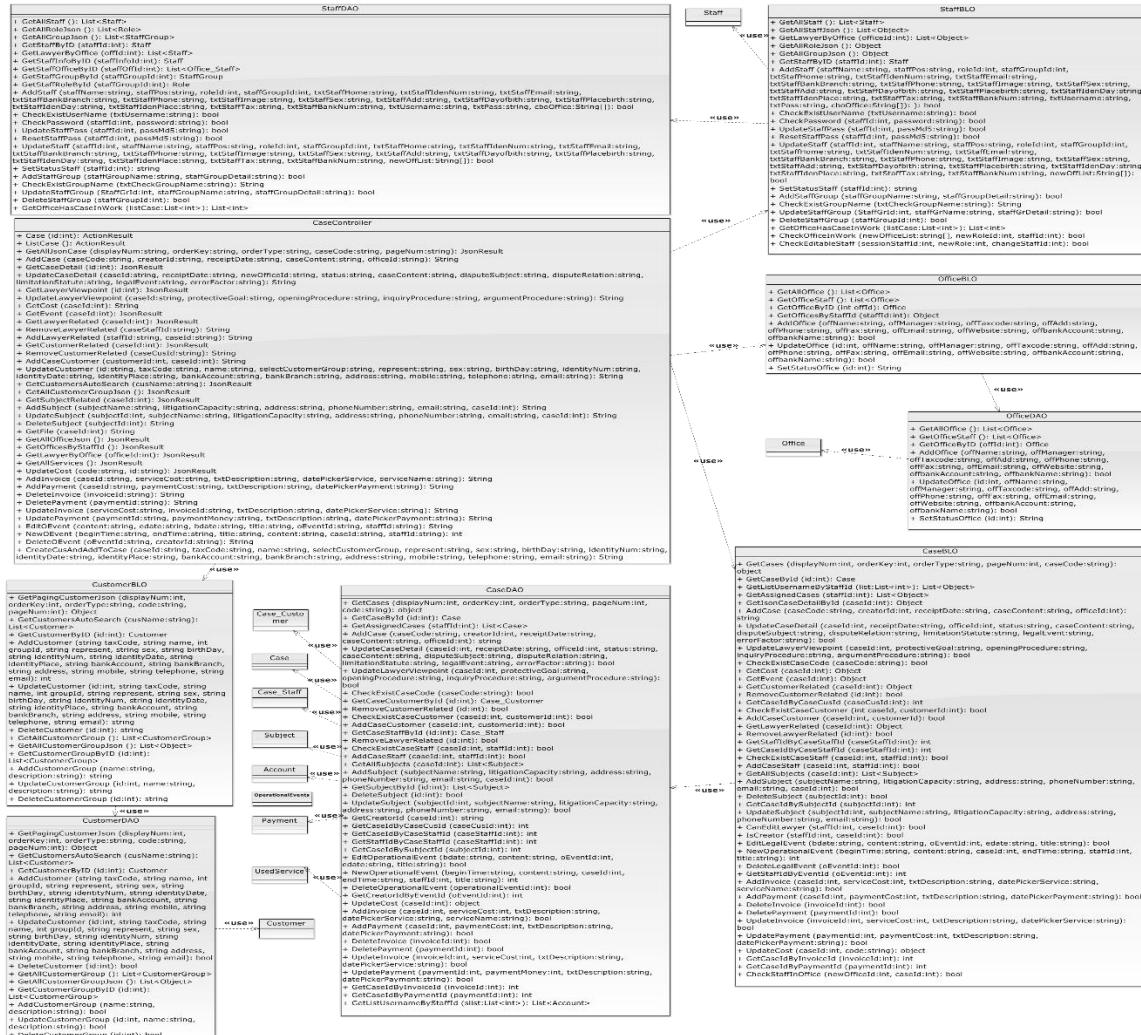


Figure 4-30 :Manage class diagram

4.3.10.1.2. Screen design

| Danh sách hồ sơ | | | | | |
|--|--|-------------|-------------------------------|---|--|
| <input type="button" value="Thêm hồ sơ tác nghiệp"/> (1) | | | | | |
| Hiển thị: 10 <input type="button" value="hồ sơ"/> (2) <input type="text" value="Tim kiem:"/> (3) | | | | | |
| 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 |
|---|--------|--------|-----|------------------------|

4.3.10.1.3. Sequence diagram

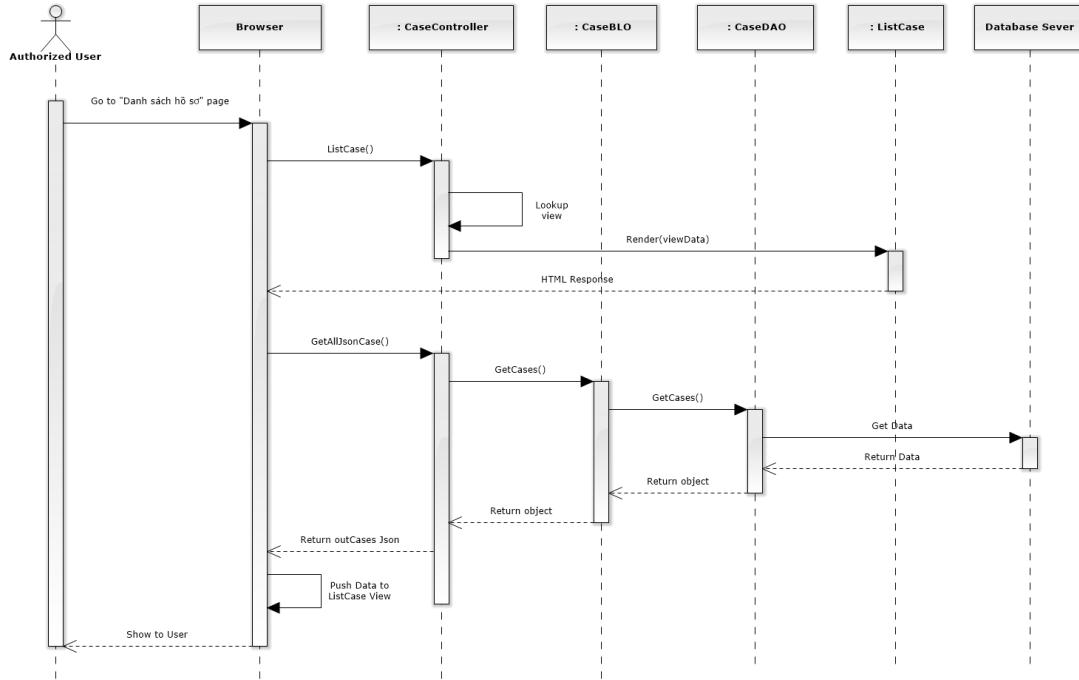


Figure 4-32: List All Cases Sequence Diagram

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 |
|---|------------|--------|-----|----------------------------|

4.3.10.2.2. Sequence diagram

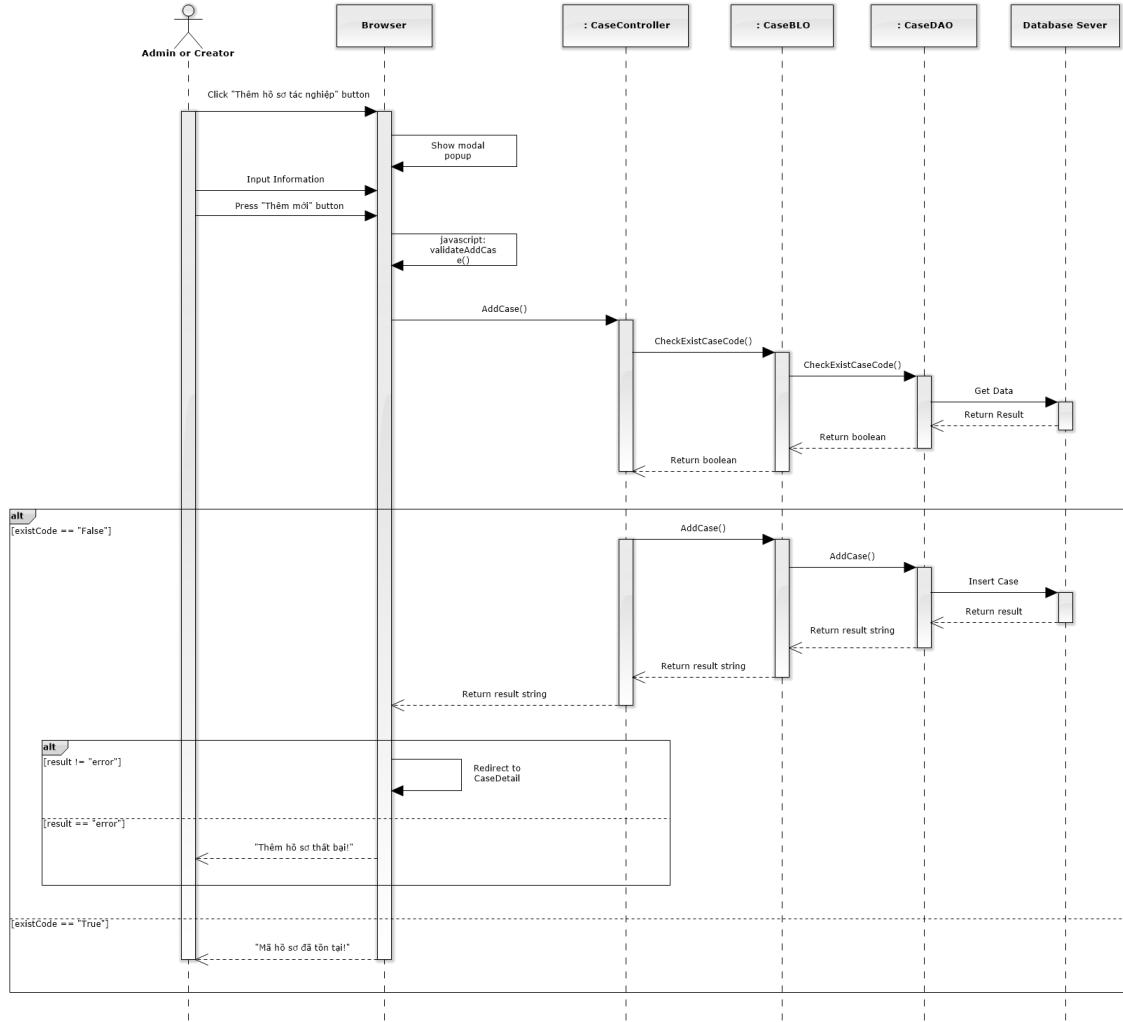


Figure 4-34: Add New Case Sequence Diagram

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

Chỉ tiết hồ sơ

Trang chủ | Hồ sơ tác nghiệp > Danh sách hồ sơ > DSST2014001

Sự kiện

Người liên quan

Tài liệu liên quan

Hóa đơn

(2)

Thông tin chung

Nội dung

Thông tin khác

Mã hồ sơ

DSST2014001 (3)

Nội dung tranh chấp *

Tranh chấp quyền sử dụng đất và kiện đòi tài sản (7)

Đối tượng tranh chấp

- Nhà và đất tại xã 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)

Thời hiệu

- Còn trong thời hiệu khởi kiện căn cứ điểm a, khoản 3 điều 159 BL TTDN; (10)
- Thuộc thẩm quyền của TAND huyện Cẩm Mỹ căn

Thuộc văn phòng *

Luật Thuận Nguyễn Hồ Chí Minh (4)

Ngày thụ lý *

27/11/2014 (5)

Trạng thái *

Đang thụ lý (6)

Quan hệ tranh chấp

- Quyền sử dụng đất và tài sản gắn liền với đất
- Đất tài sản (9)

Yêu tố lỗi

(11)

(12)

(13) Hủy chỉnh sửa

(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 |
|----|-----------------|--------|-----|----------------|

4.3.10.3.2.2. Sequence diagram

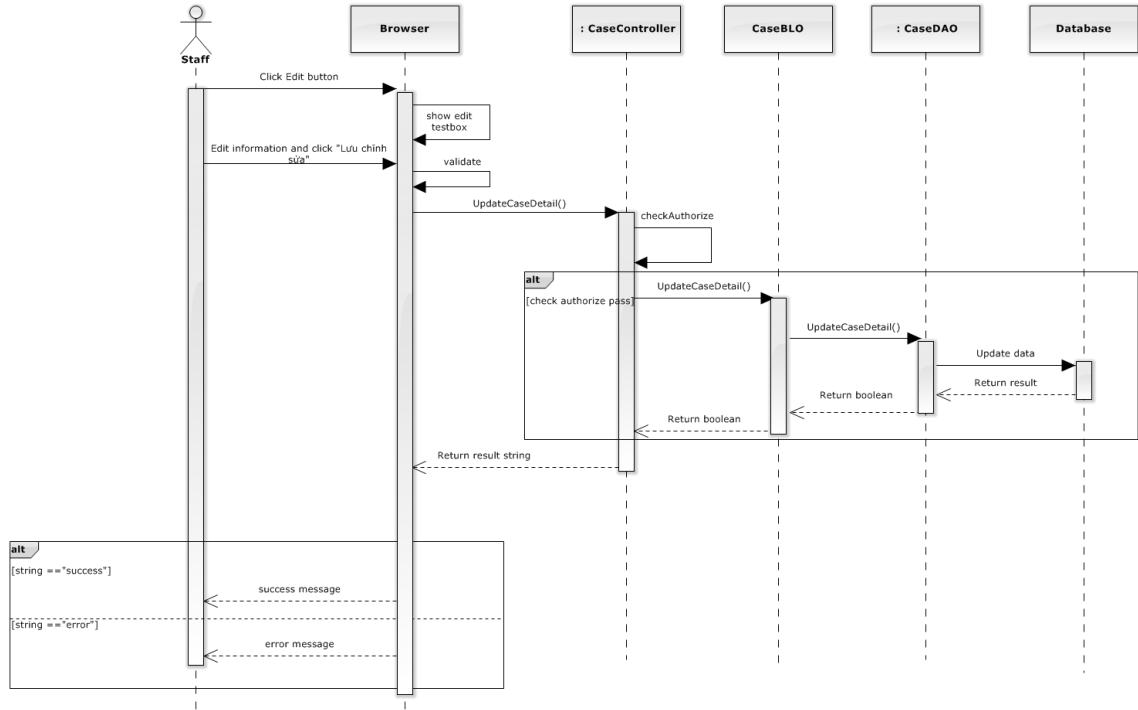


Figure 4-36: Update case detail sequence diagram

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

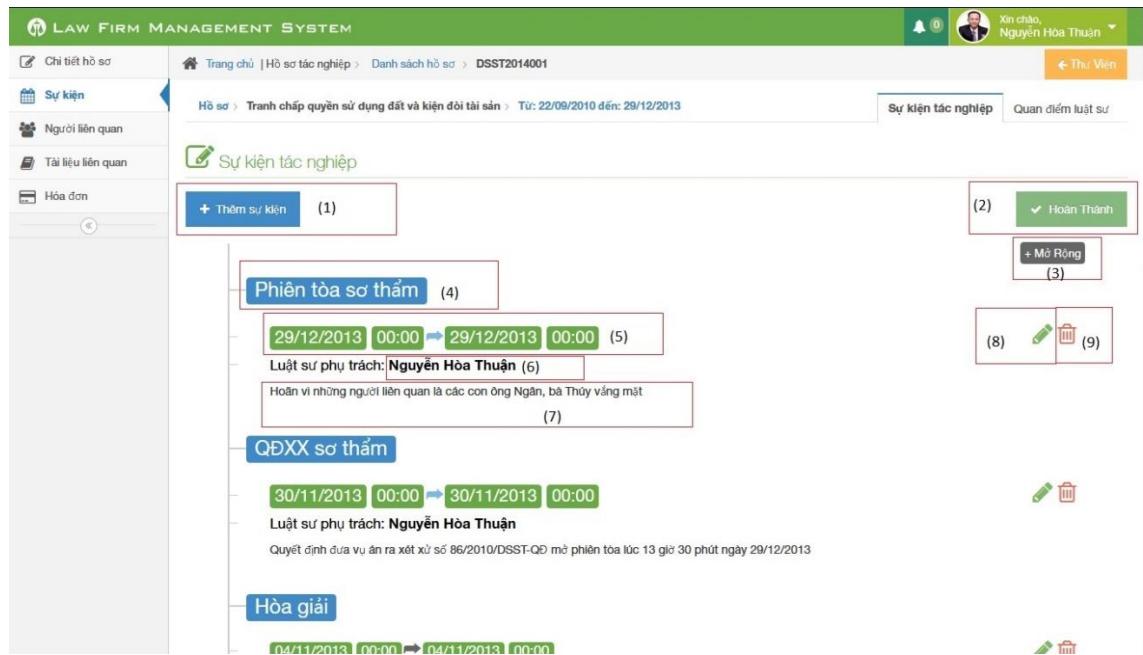


Figure 4-37: List operation event image

| 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 |

Capstone Project: LFMS

| | | | | |
|---|----------------|-------------|-----|--|
| 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

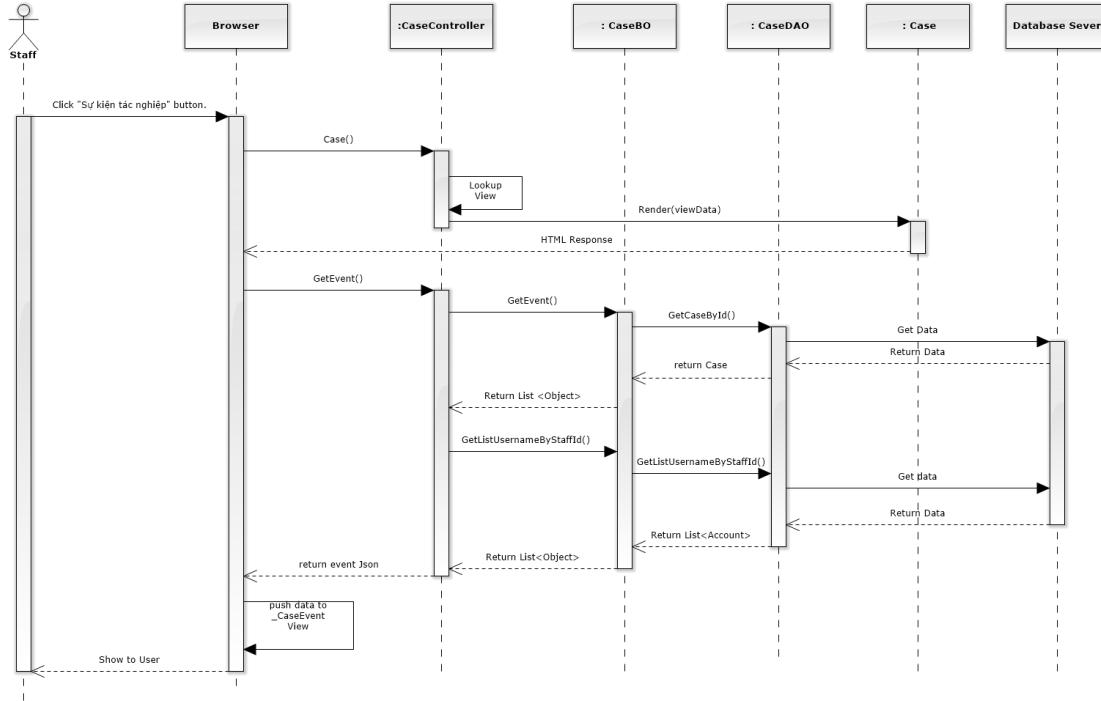


Figure 4-38: List Operation Events Sequence Diagram

4.3.10.3.3.2. Add new operation event

4.3.10.3.3.2.1. Screen design

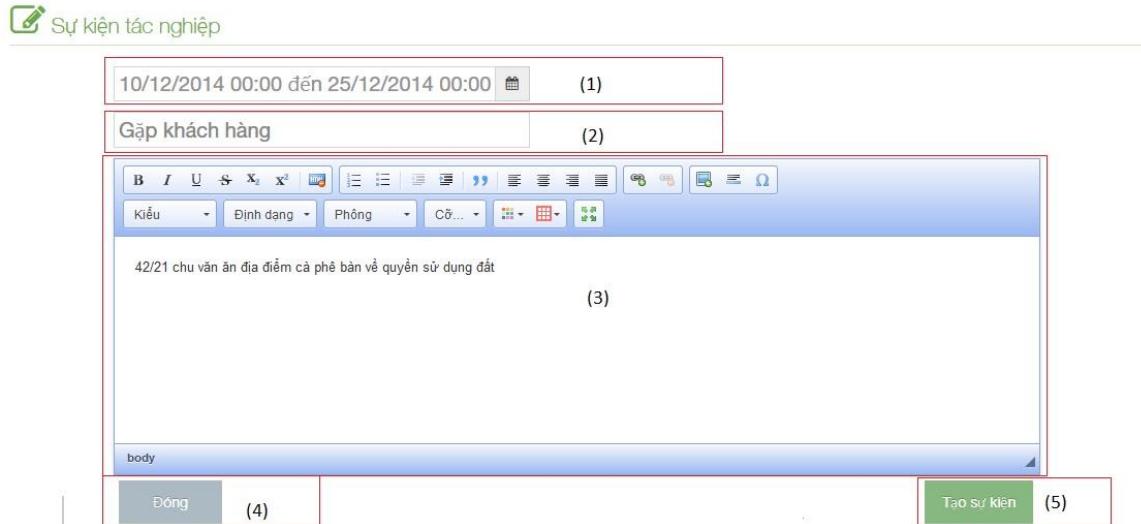


Figure 4-39: Add new operation event image

Capstone Project: LFMS

| 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

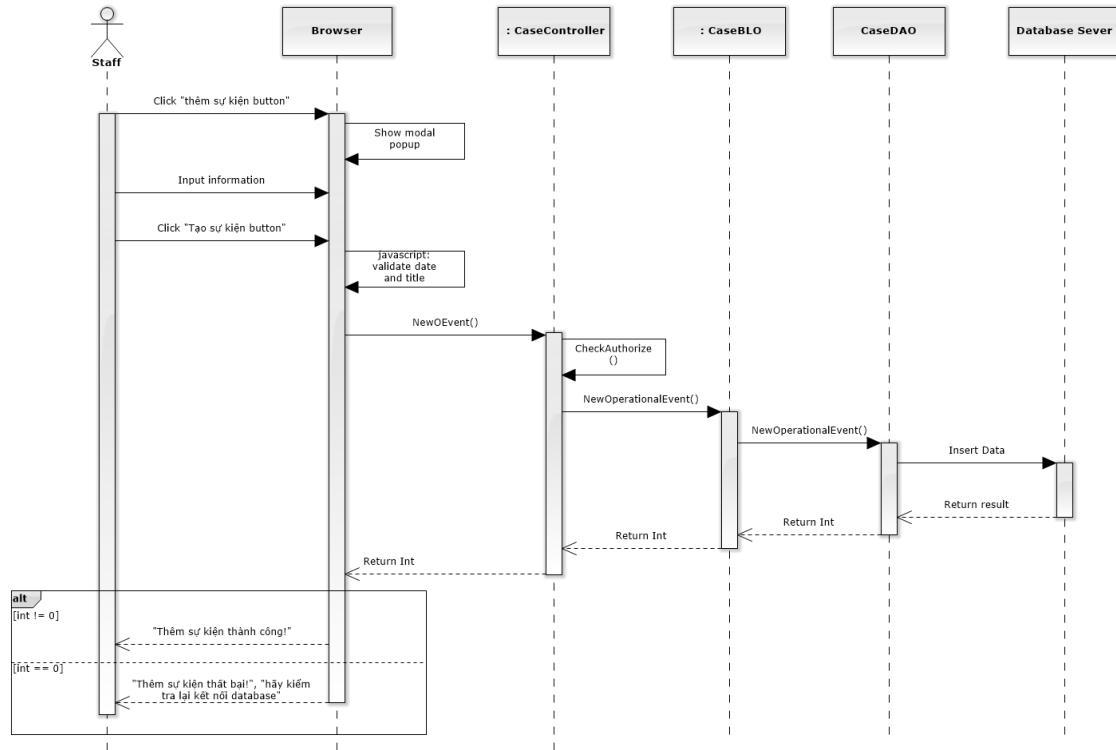


Figure 4-40: Add New Operation Event Sequence Diagram

4.3.10.3.3.3. Edit operation event

4.3.10.3.3.3.1. Screen design

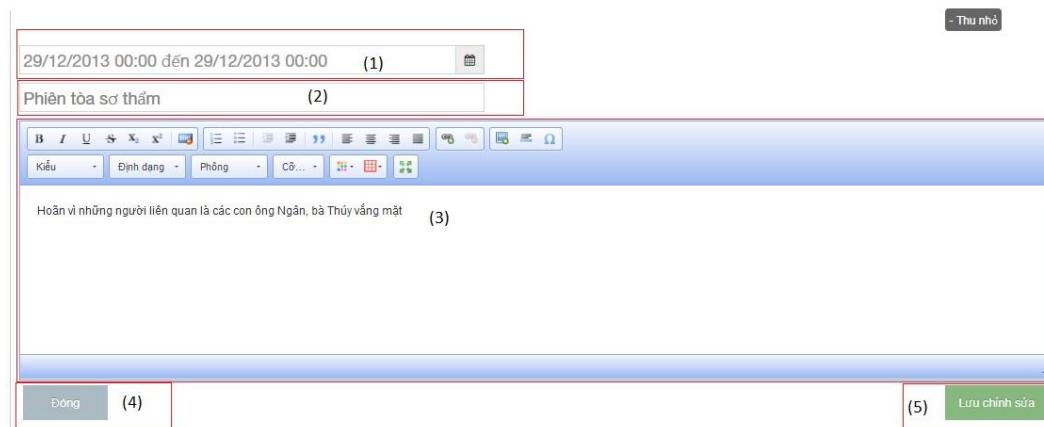


Figure 4-41: Edit operation event image

| 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

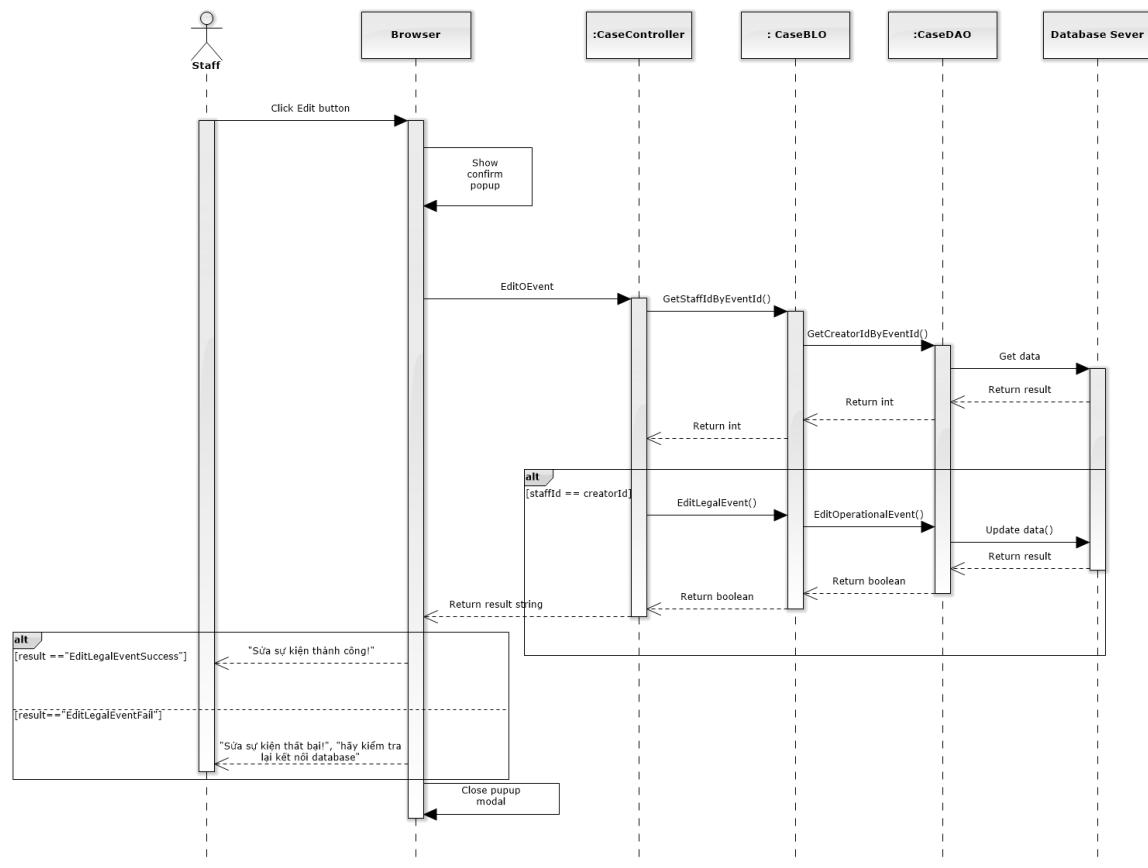


Figure 4-42: Edit Operation Event Sequence Diagram

4.3.10.3.3.4. Delete operation event

4.3.10.3.3.4.1. Screen design

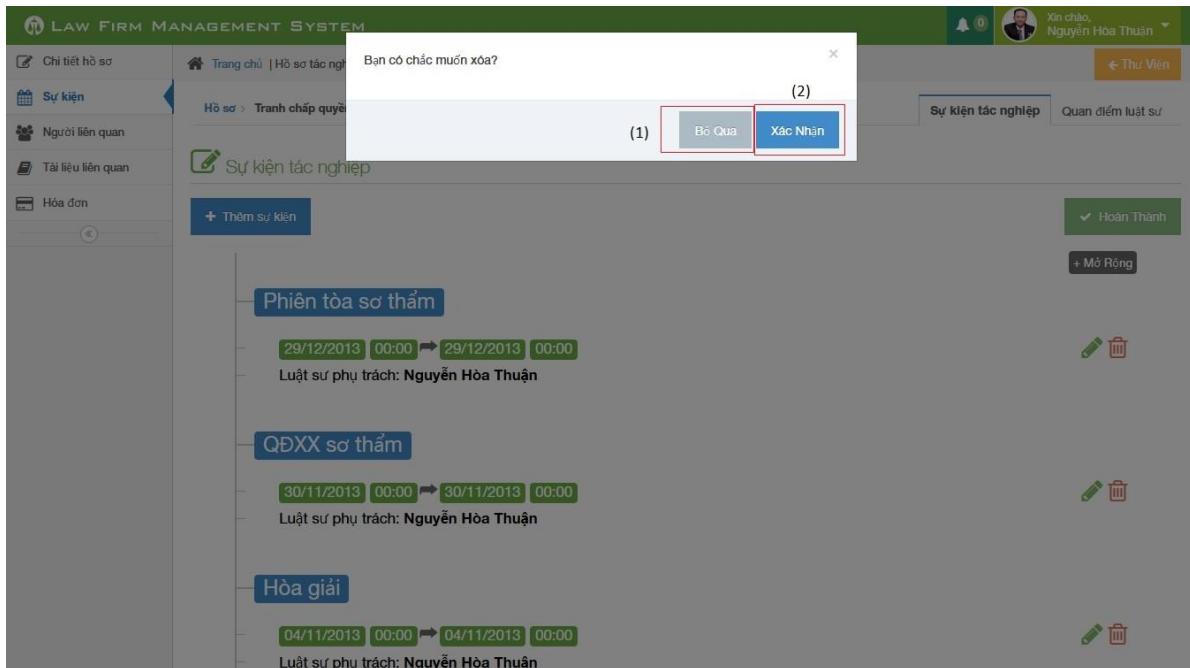


Figure 4-43: Delete operation event image

| 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

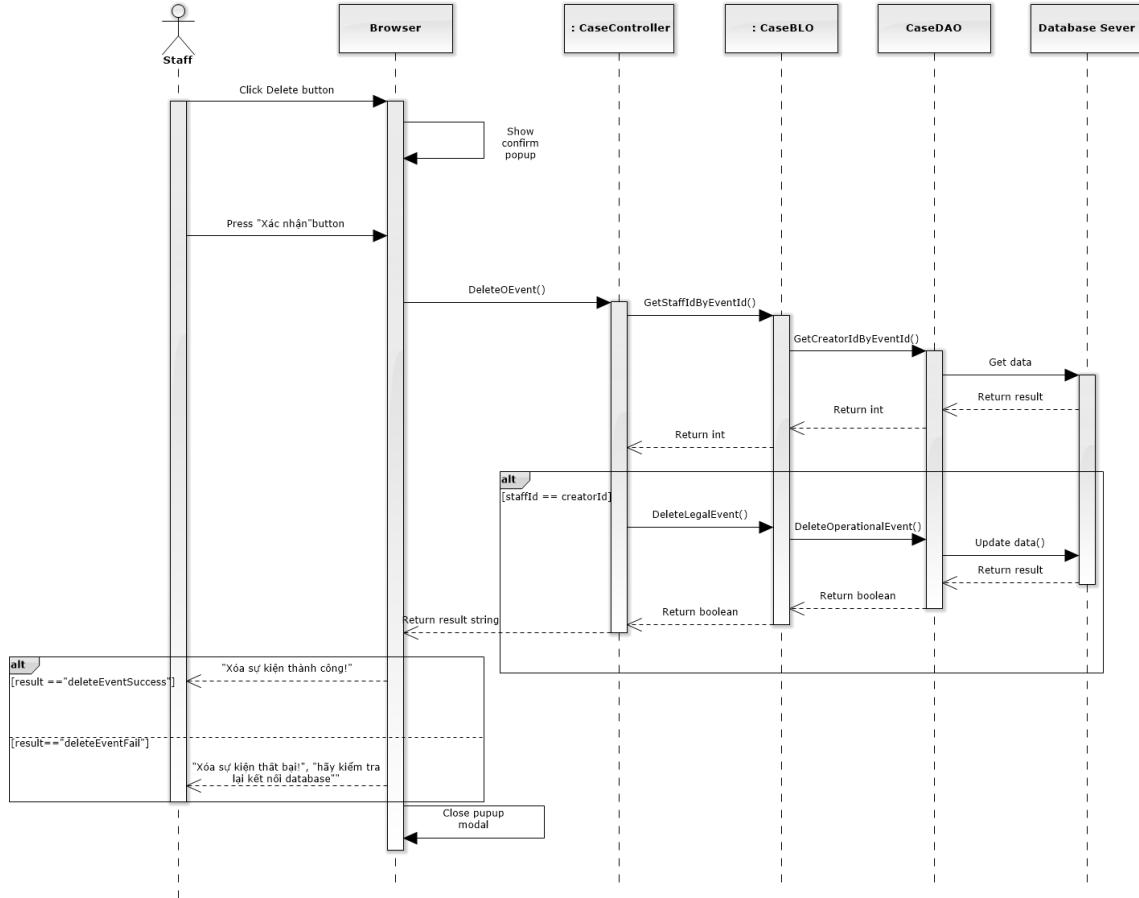


Figure 4-44: Delete Operation Event Sequence Diagram

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

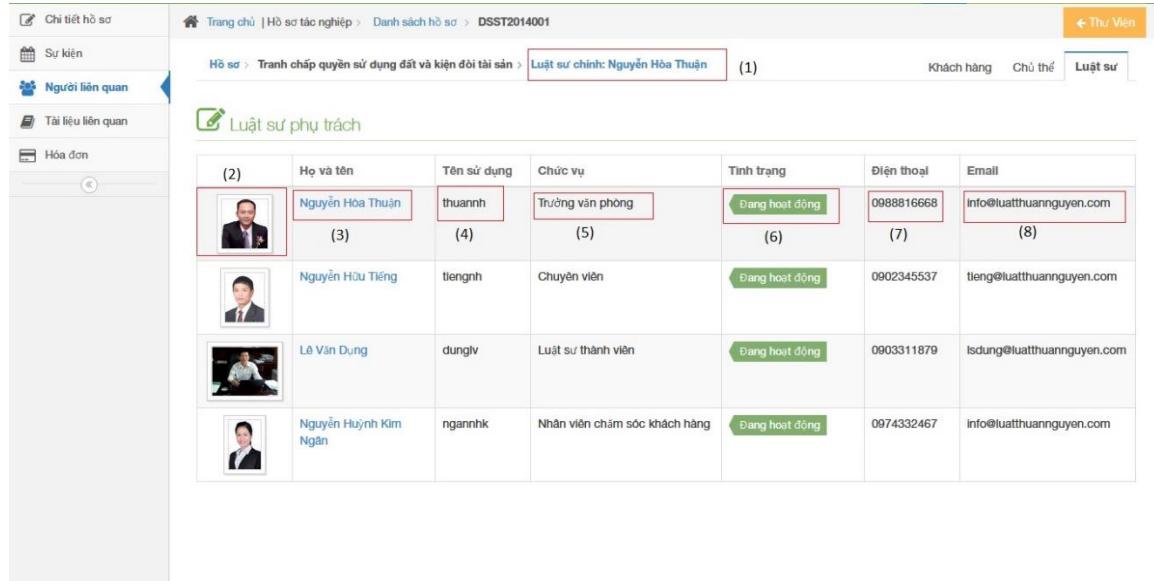


Figure 4-45: List lawyer related image

| 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

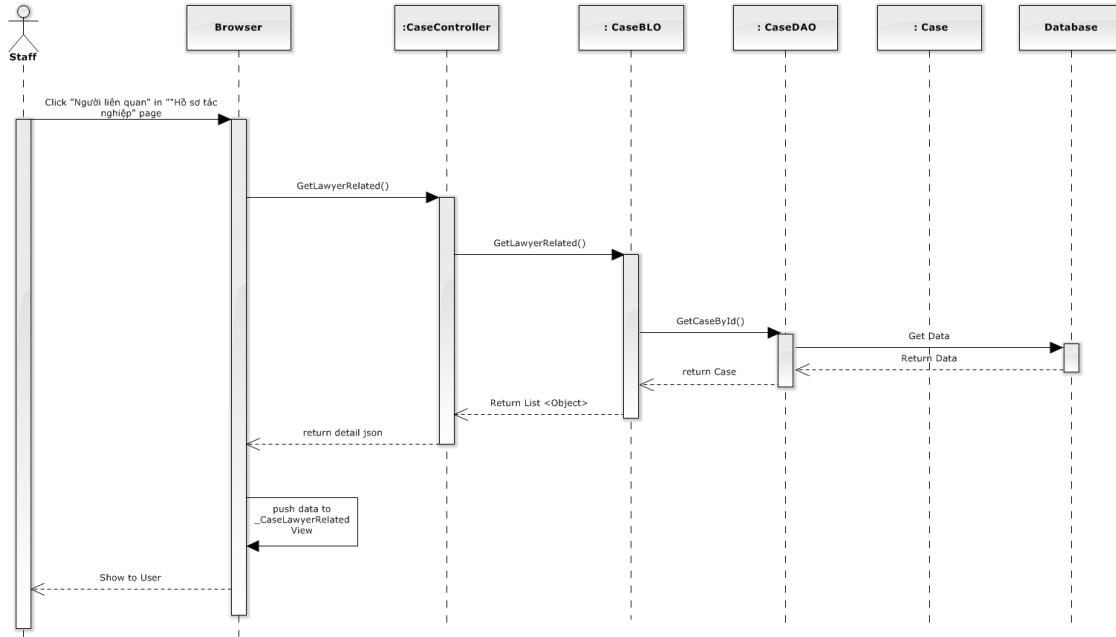


Figure 4-46: List lawyer related sequence diagram

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

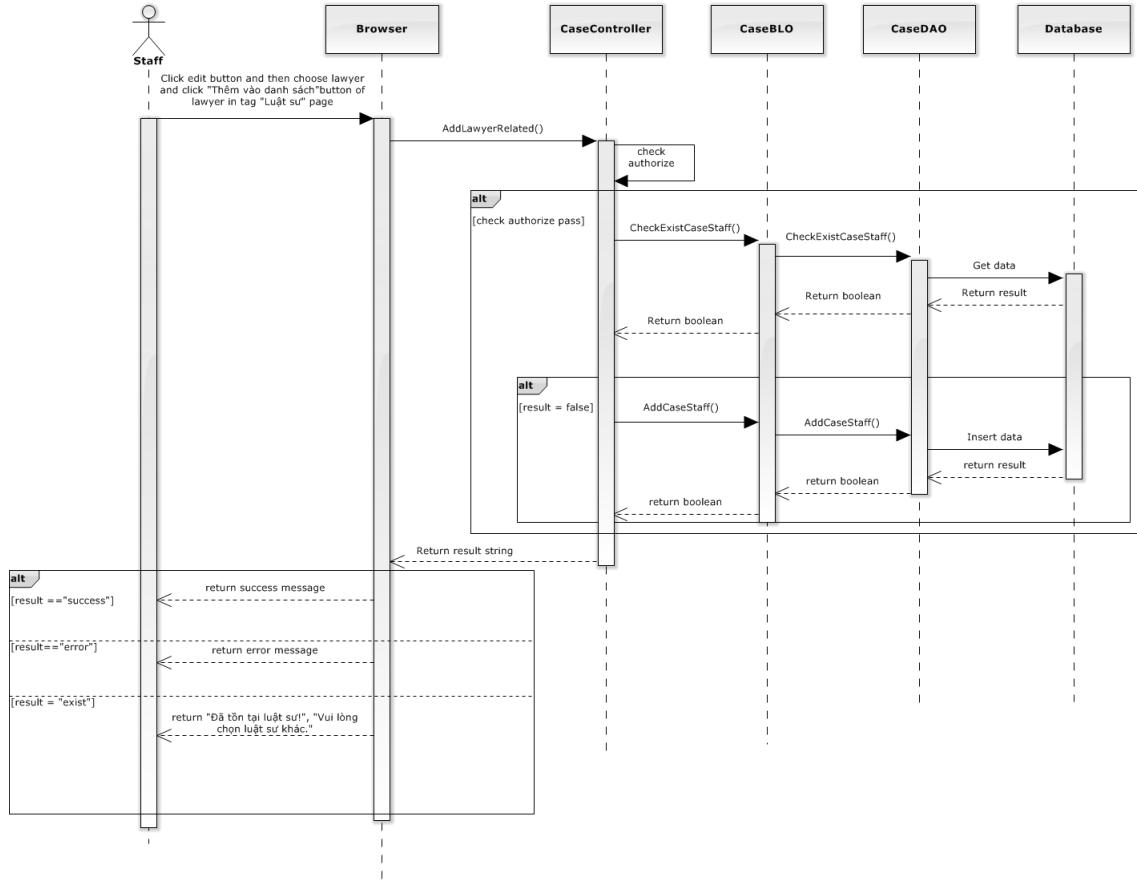


Figure 4-48: Add lawyer related sequence diagram

4.3.10.3.4.3. Delete lawyer related

4.3.10.3.4.3.1. Screen design

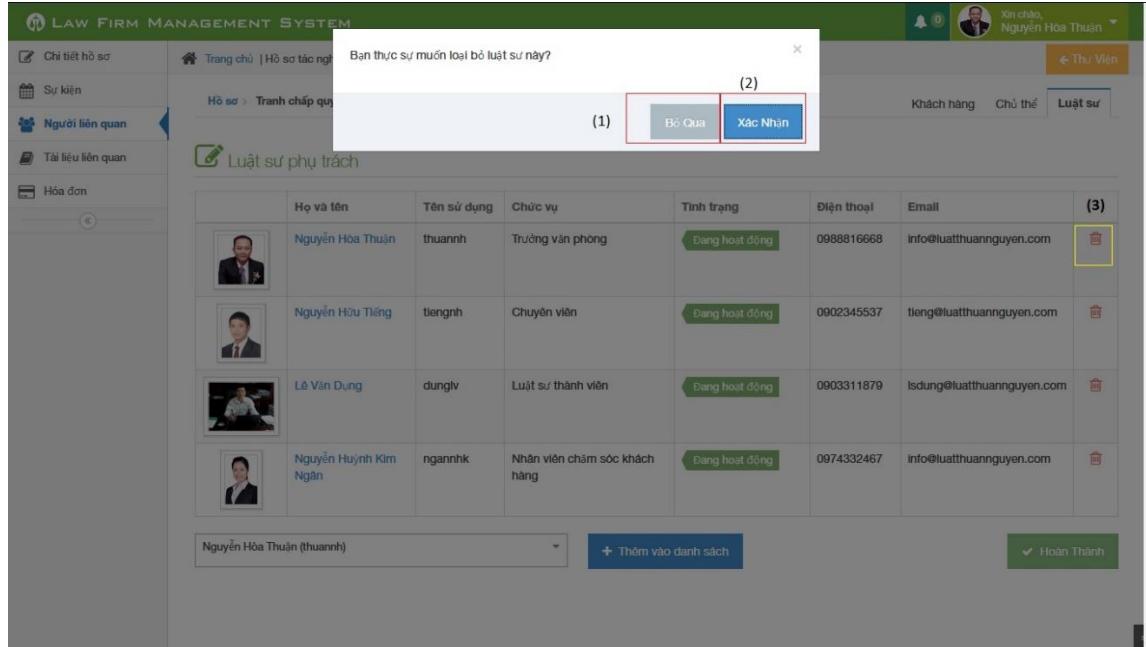


Figure 4-49: Delete lawyer related image

| 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

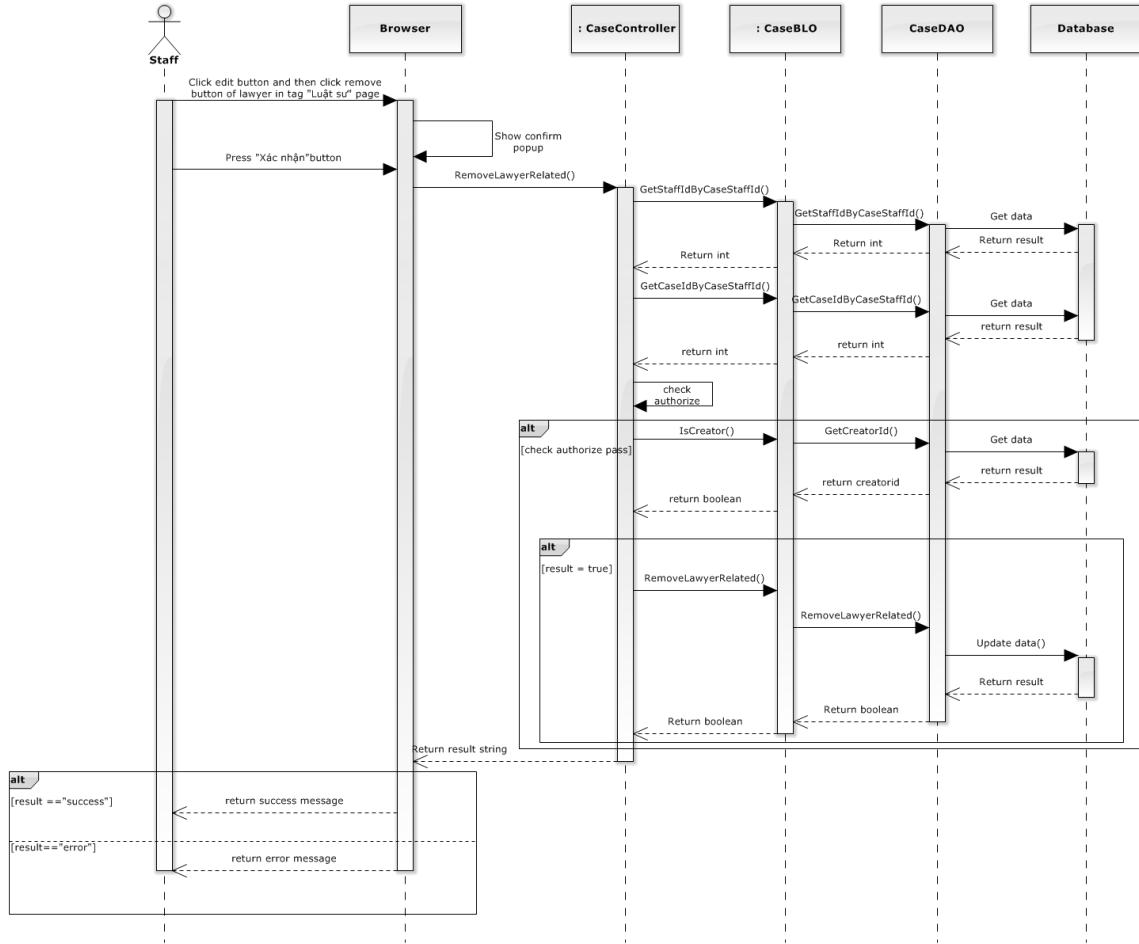


Figure 4-50: Delete lawyer related sequence diagram

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

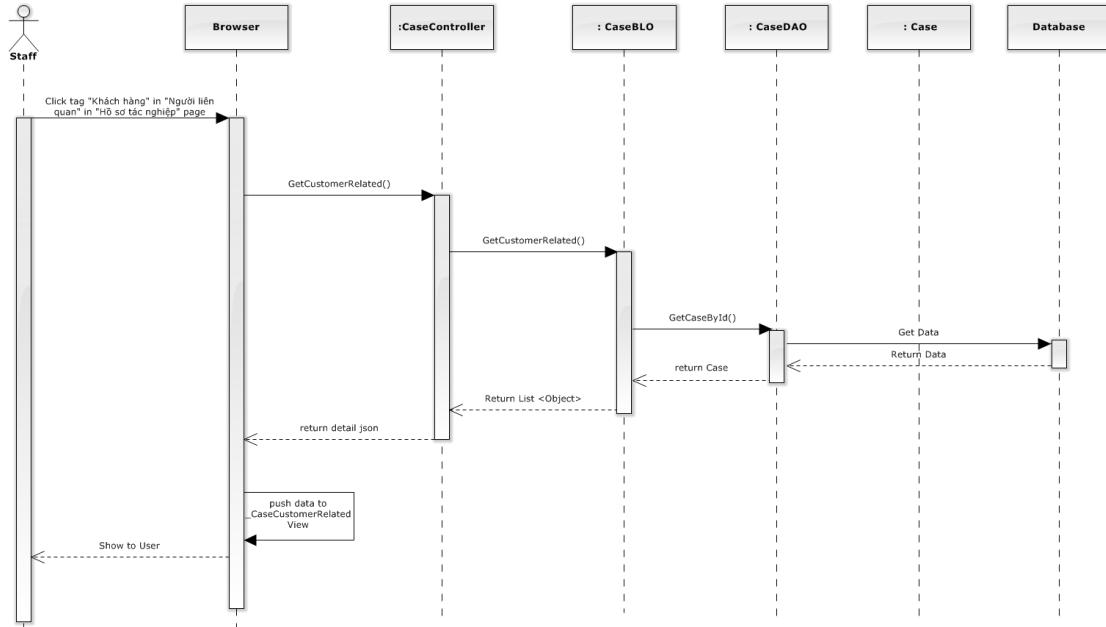


Figure 4-52: List customer related sequence diagram

4.3.10.3.5.2. Add customer related

4.3.10.3.5.2.1. Screen design

The screenshot shows a user interface for adding customer-related data. At the top, there is a navigation bar with links: Hồ sơ > Tranh chấp quyền sử dụng đất và kiện đòi tài sản > Luật sư chính: Nguyễn Hòa Thuận. On the right, there are tabs: Khách hàng, Chủ thể, Luật sư. Below the navigation, there is a table with columns: Họ và tên, Người đại diện, Nhóm, Địa chỉ, Điện thoại. A row in the table shows: Nguyễn Thị Hoa, Nguyễn Thị Huệ, Cá nhân, 81 Đinh Bộ Lĩnh, P.26, Q.Bình Thạnh, HCM, 0982885334. To the right of the table is a trash icon. Below the table are three buttons: (1) Tạo Khách hàng (Create Customer), (2) Tim Kiếm... (Search), (3) (dropdown menu showing 'Vương'), (4) Thêm vào danh sách (Add to list), and (5) Hoàn Thành (Finish). The search dropdown shows results: Vương Thùy Dương (30A ấp Thống Nhất I, Tân Thới Nhì, Hóc Môn) and Hoàng Văn Vương (79 nguyễn huệ p2 tpv).

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

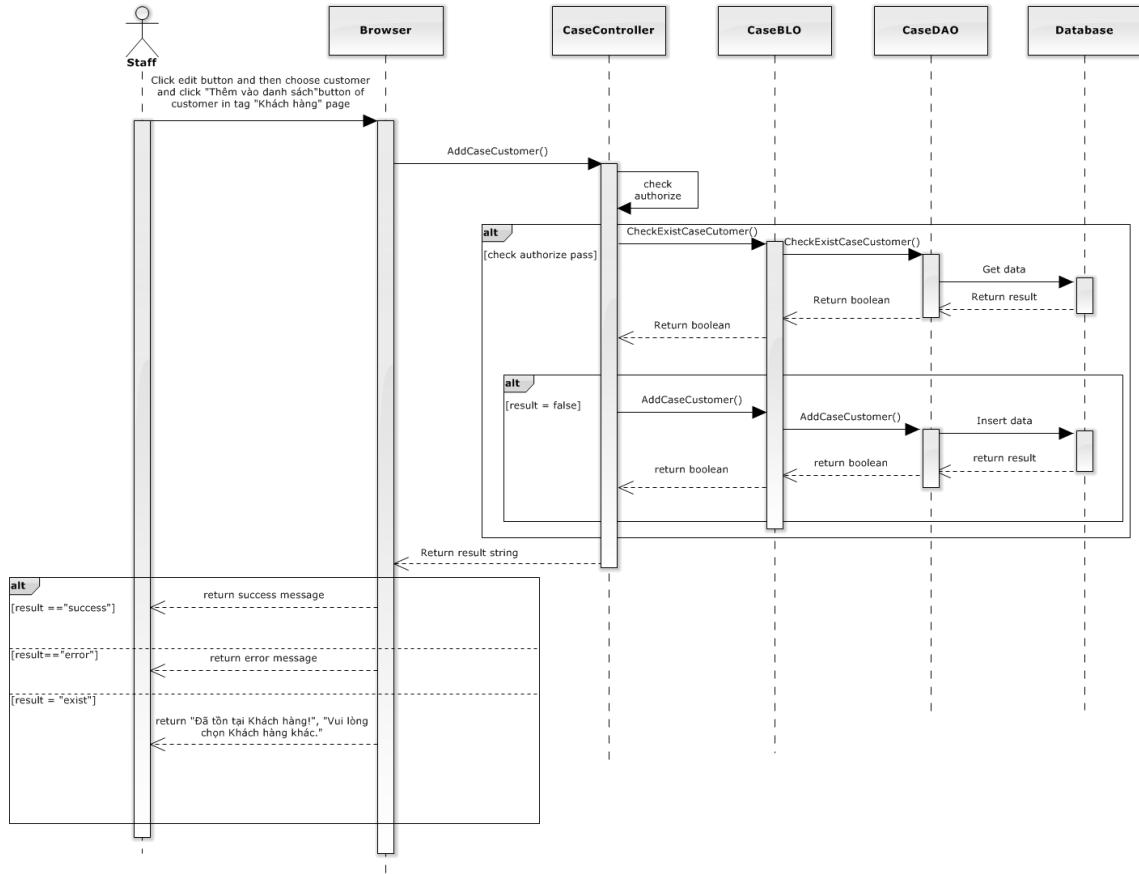


Figure 4-54: Add customer related sequence diagram

4.3.10.3.5.3. Delete customer related

4.3.10.3.5.3.1. Screen design

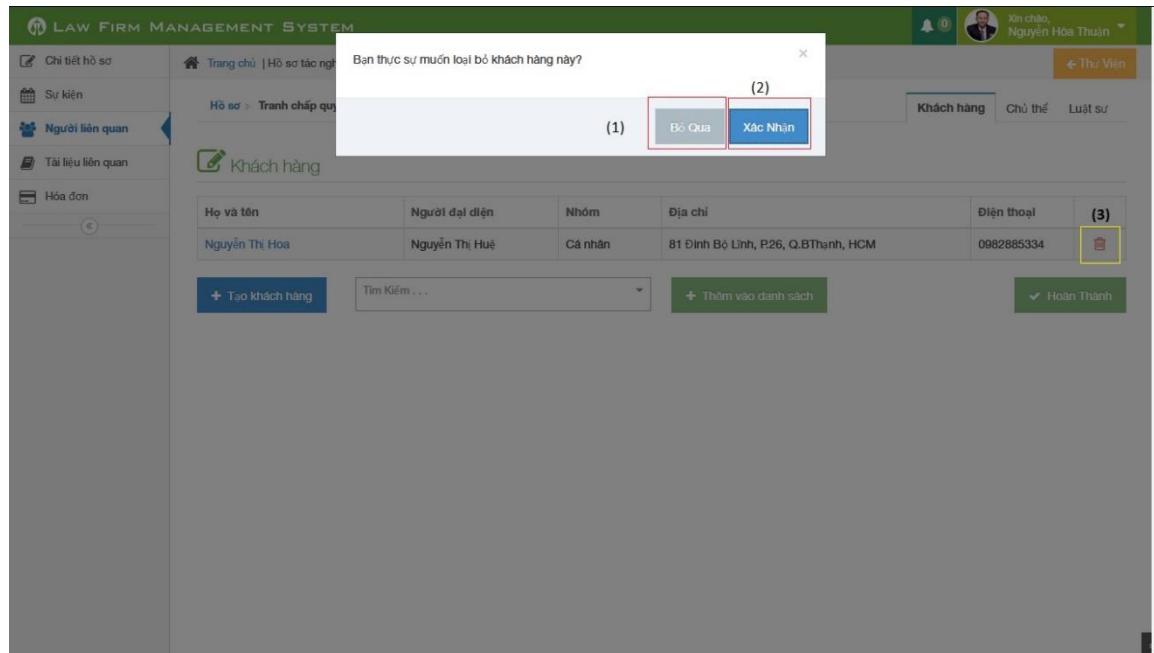


Figure 4-55: Delete customer related image

| 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

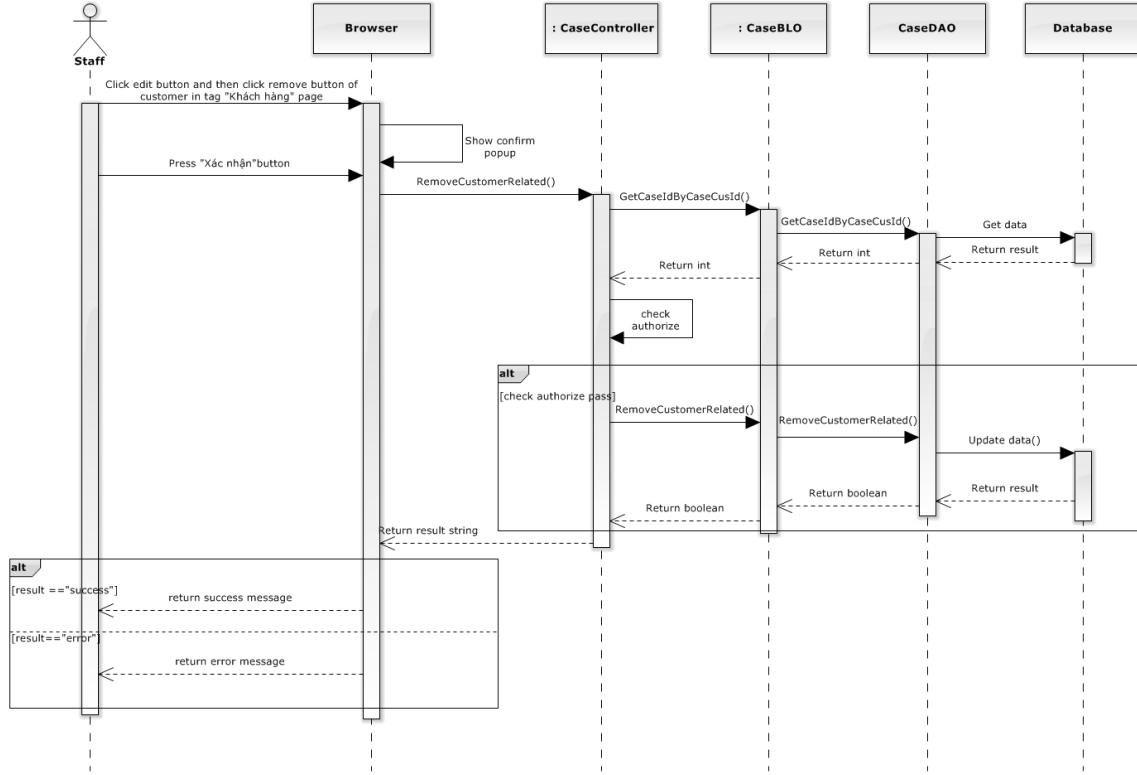


Figure 4-56: Delete customer related image

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

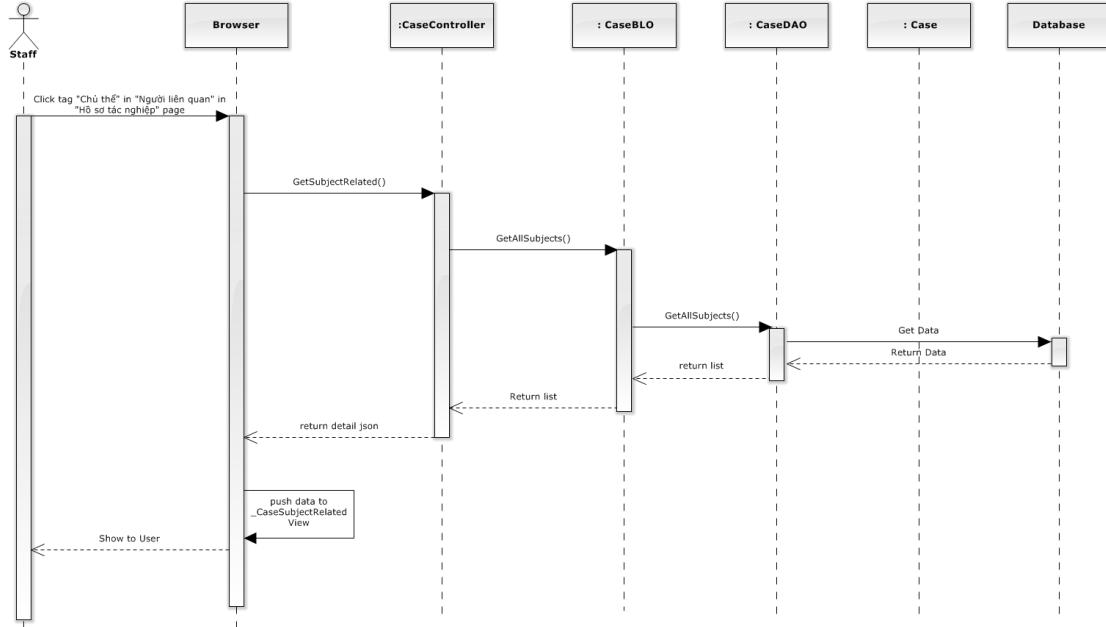


Figure 4-58: View subject related sequence diagram

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 navigation bar with links: Hồ sơ > Tranh chấp quyền sử dụng đất và kiện đòi tài sản > Luật sư chính: Nguyễn Hòa Thuận. On the right, there are tabs: Khách hàng, Chủ thể (which is selected), and Luật sư.

Below the navigation, 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.Bình Thạnh, HCM | | | |

Below the table, there are three numbered callouts:

- (1) A button labeled "+ Tạo chủ thể" with a pencil icon.
- (2) A button labeled "Hoàn Thành" with a checkmark icon.
- (3) A modal window titled "Thông tin chủ thể" (Subject Information) containing fields for Name, Address, Phone, Email, and a note field. It also has "Đóng" (Close) and "Thêm mới" (Add New) buttons.

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

Capstone Project: LFMS

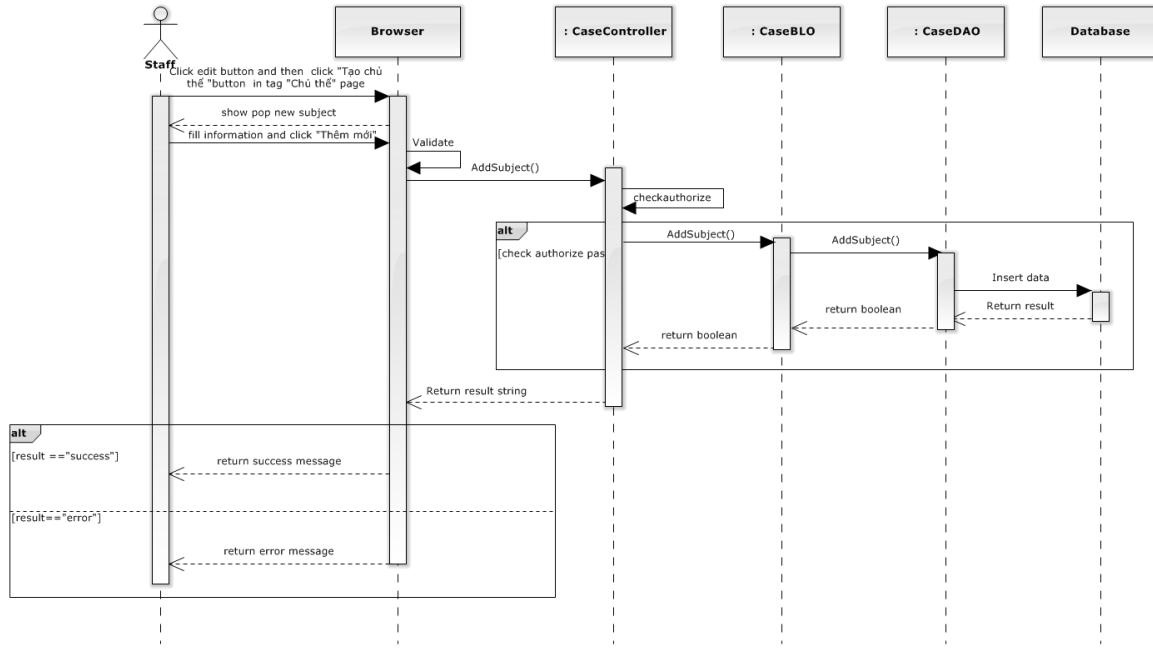


Figure 4-60: Add subject related sequence diagram

4.3.10.3.6.3. Update subject related

4.3.10.3.6.3.1. Screen design

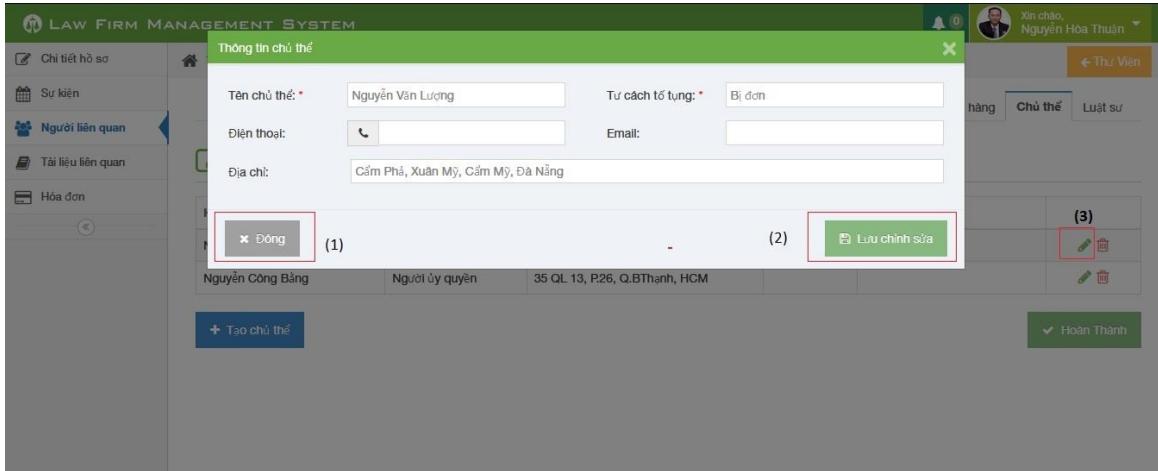


Figure 4-61: Update subject related image

| 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

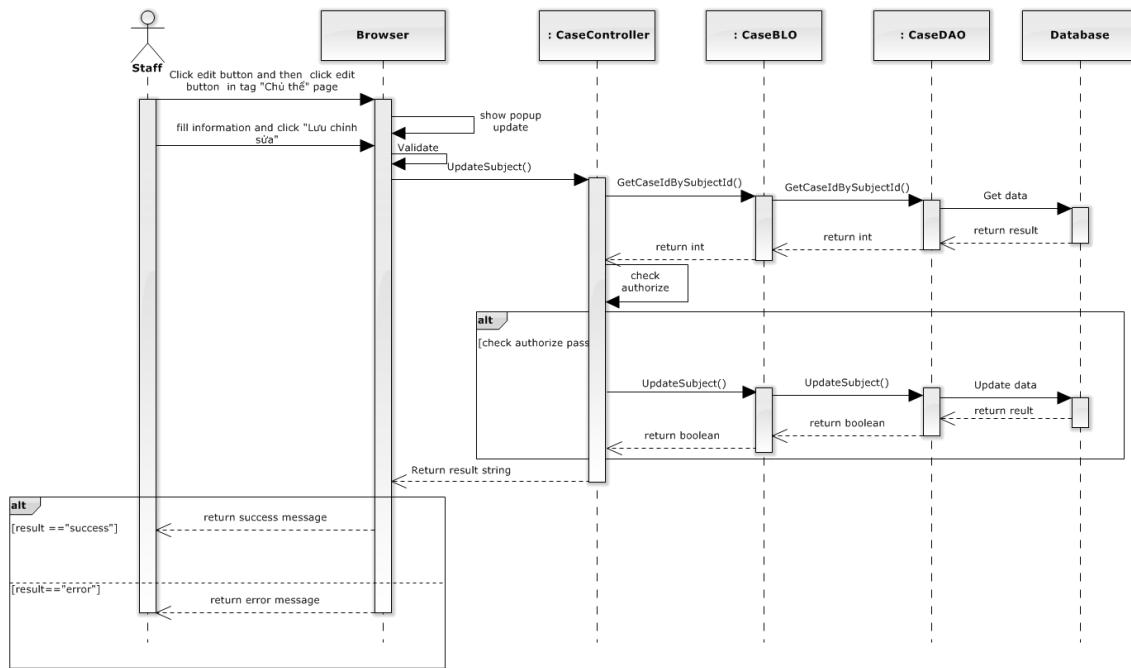


Figure 4-62: Update subject related sequence diagram

4.3.10.3.6.4. Delete subject related

4.3.10.3.6.4.1. Screen design

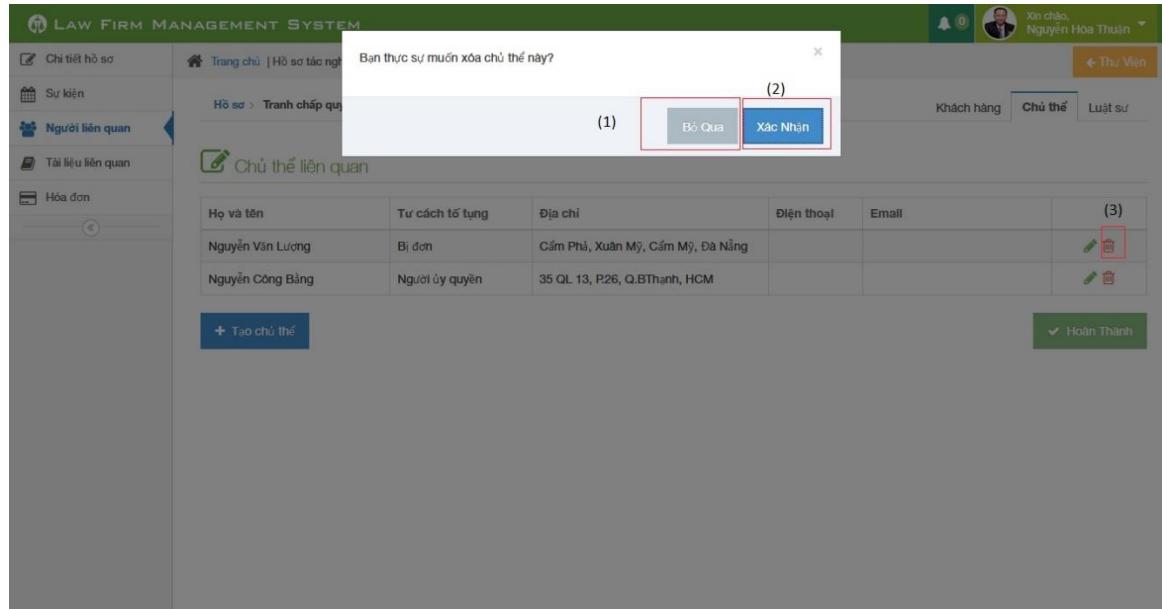


Figure 4-63: Delete subject related image

| 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

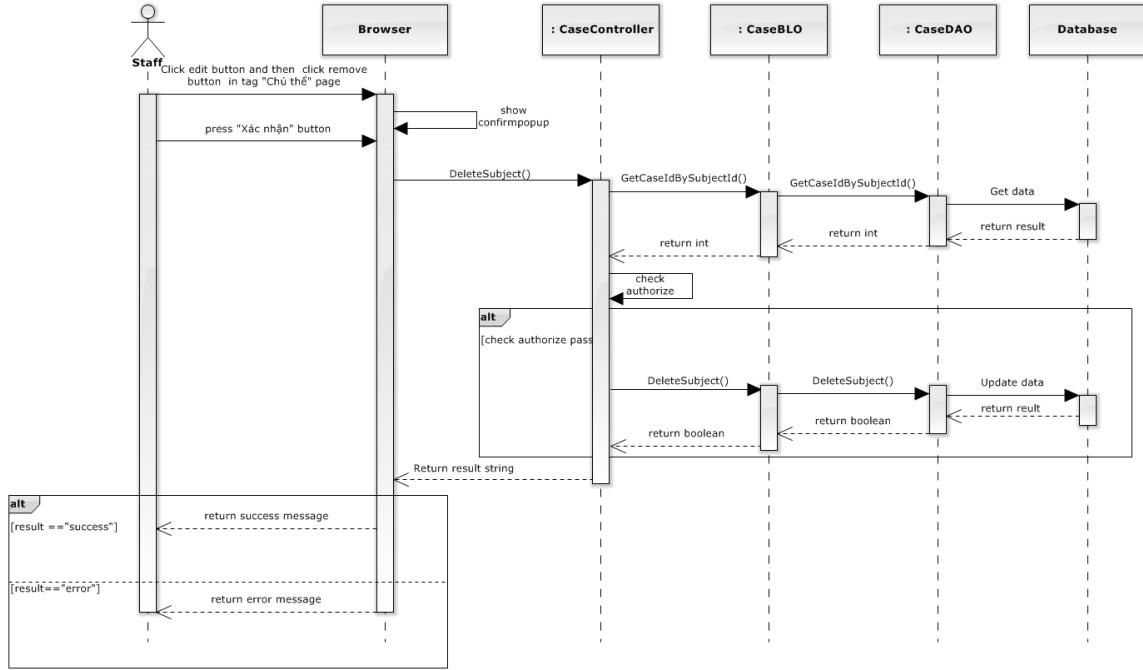


Figure 4-64: Delete subject related sequence diagram

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

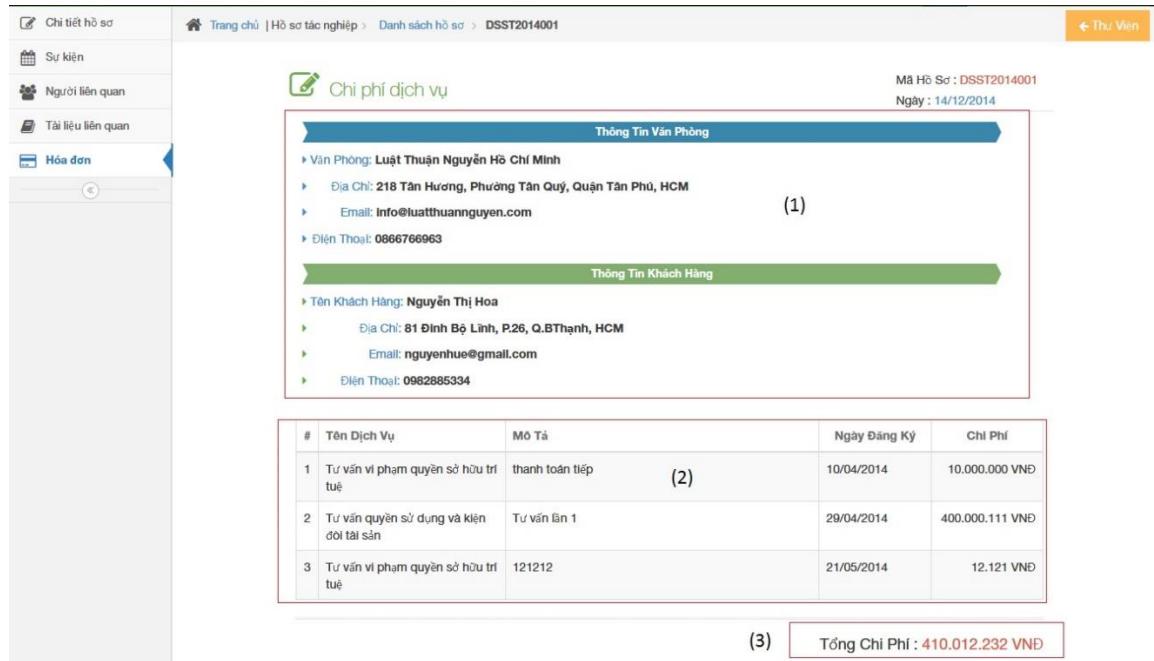


Figure 4-65: View used service image

| 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

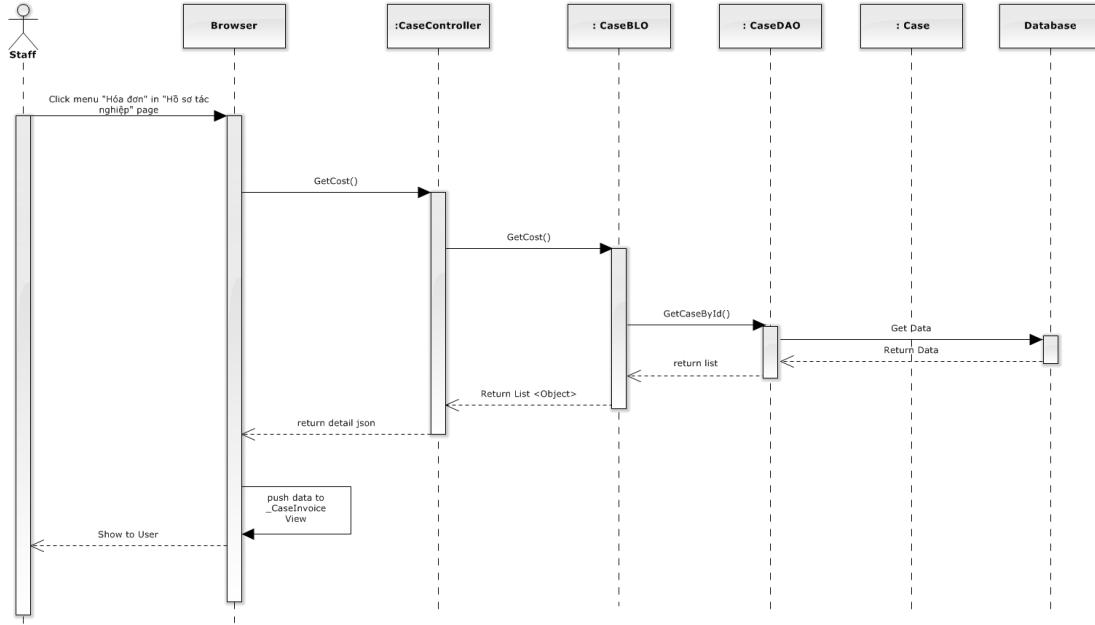


Figure 4-66: View used service sequence diagram

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: nguyennhue@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

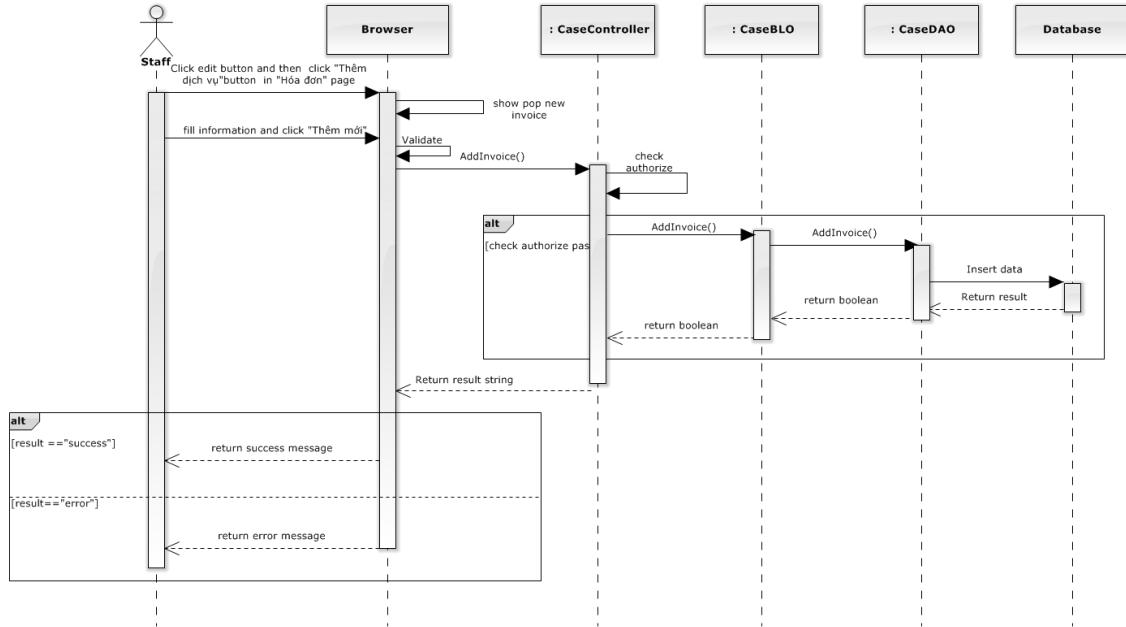


Figure 4-68: Add invoice sequence diagram

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: "(1)" (Đóng) and "(2)" (Sửa Chi Phí). To the right of the form is a table listing three invoice entries with columns: Ngày Đăng Ký, Chi Phí, and actions (edit and delete). The total amount at the bottom is "Tổng Chi Phí : 410.012.232 VND". A "Hoàn Thành" (Finish) button is located in the bottom right corner.

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

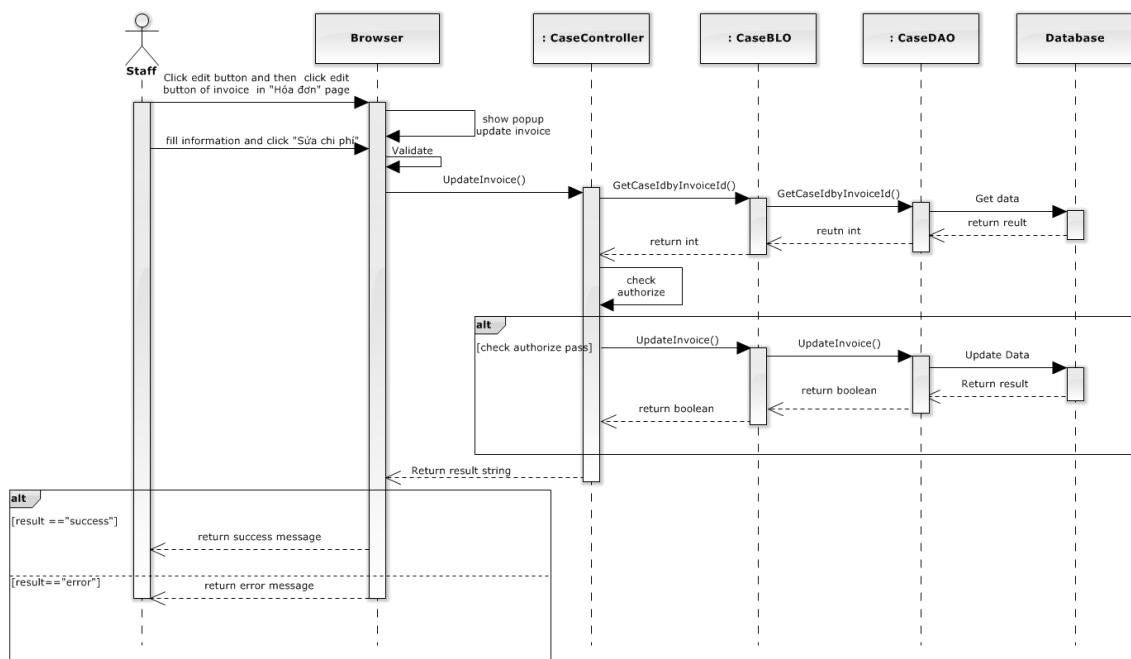


Figure 4-70: Update invoice sequence diagram

4.3.10.3.7.4. Delete invoice

4.3.10.3.7.4.1. Screen design

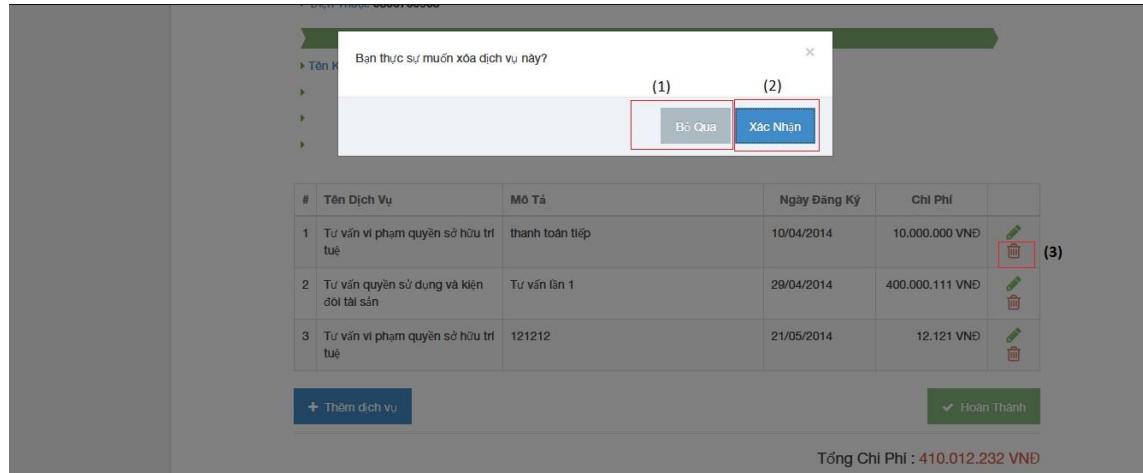


Figure 4-71: Delete invoice image

| 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

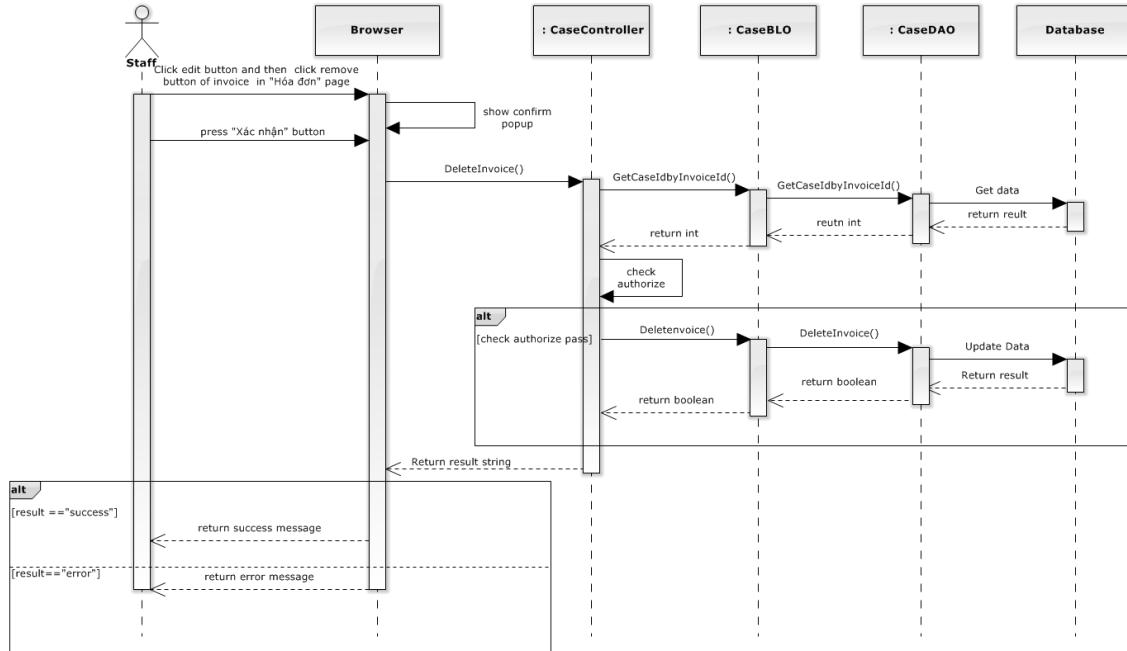


Figure 4-72: Delete invoice sequence diagram

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

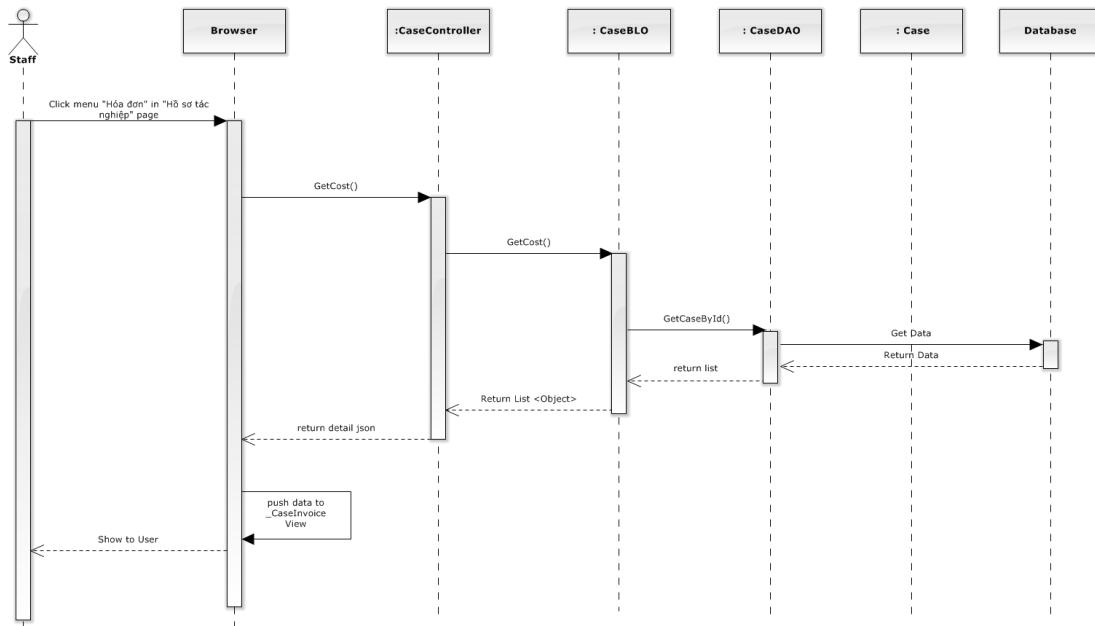


Figure 4-74: View payment sequence diagram

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 is 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

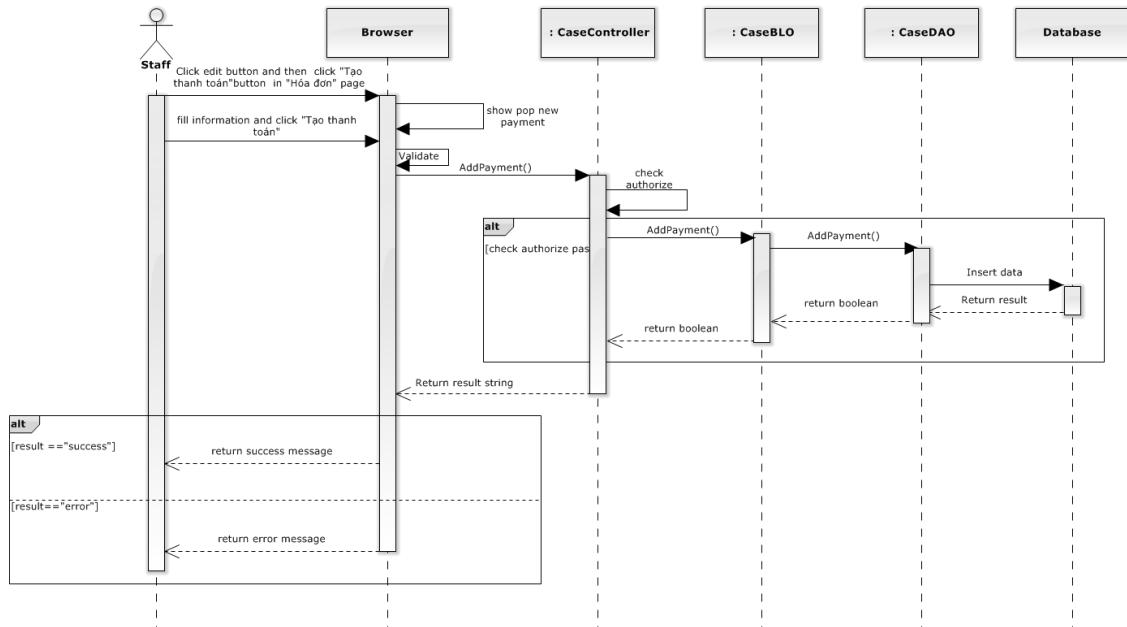


Figure 4-76: Add payment sequence diagram

4.3.10.3.8.3. Update payment

4.3.10.3.8.3.1. Screen design

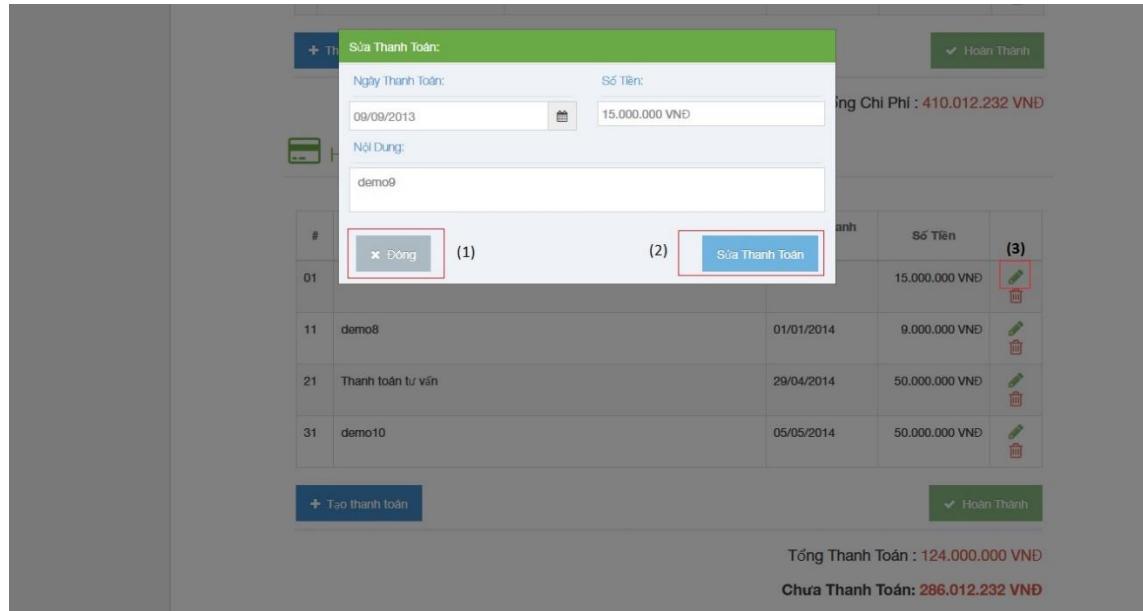


Figure 4-77: Update payment image

| 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

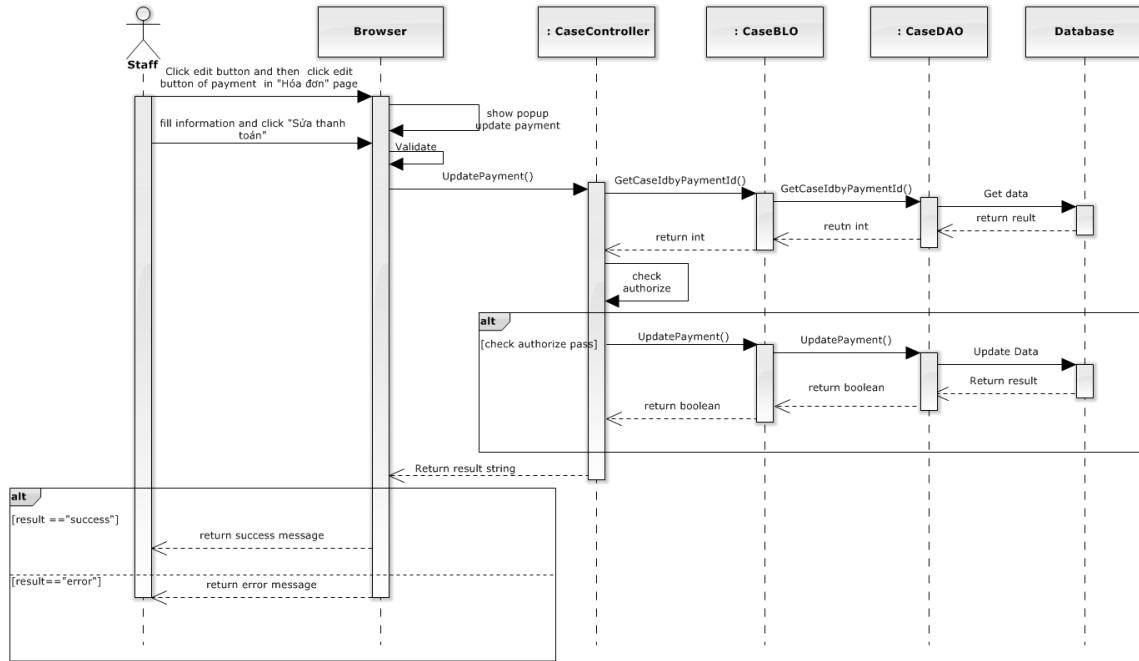


Figure 4-78: Update payment sequence diagram

4.3.10.3.8.4. Delete payment

4.3.10.3.8.4.1. Screen design

The screenshot shows a portion of the LFMS application interface. At the top, there is a confirmation dialog box with the title "+ Th" and the message "Bạn thực sự muốn xóa thanh toán này?". Below the dialog, a green button labeled "Hoàn Thành" is visible. In the main area, there is a table listing several payments. The table has columns: #, Mô Tả, Ngày Thanh Toán, Số Tiền, and actions. The first row shows a payment with ID 01, description "demo9", date 09/09/2013, amount 15.000.000 VND, and actions (1) Bỏ Qua and (2) Xác Nhận. The second row shows a payment with ID 11, description "demo8", date 01/01/2014, amount 9.000.000 VND, and actions (1) Bỏ Qua and (2) Xác Nhận. The third row shows a payment with ID 21, description "Thanh toán tư vấn", date 29/04/2014, amount 50.000.000 VND, and actions (1) Bỏ Qua and (2) Xác Nhận. The fourth row shows a payment with ID 31, description "demo10", date 05/05/2014, amount 50.000.000 VND, and actions (1) BỎ QUA and (2) XÁC NHẬN. At the bottom left, there is a blue button labeled "+ Tạo thanh toán". At the bottom right, there is a green button labeled "Hoàn Thành". Below the table, there are two status messages: "Tổng Thanh Toán : 124.000.000 VND" and "Chưa Thanh Toán: 286.012.232 VND".

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

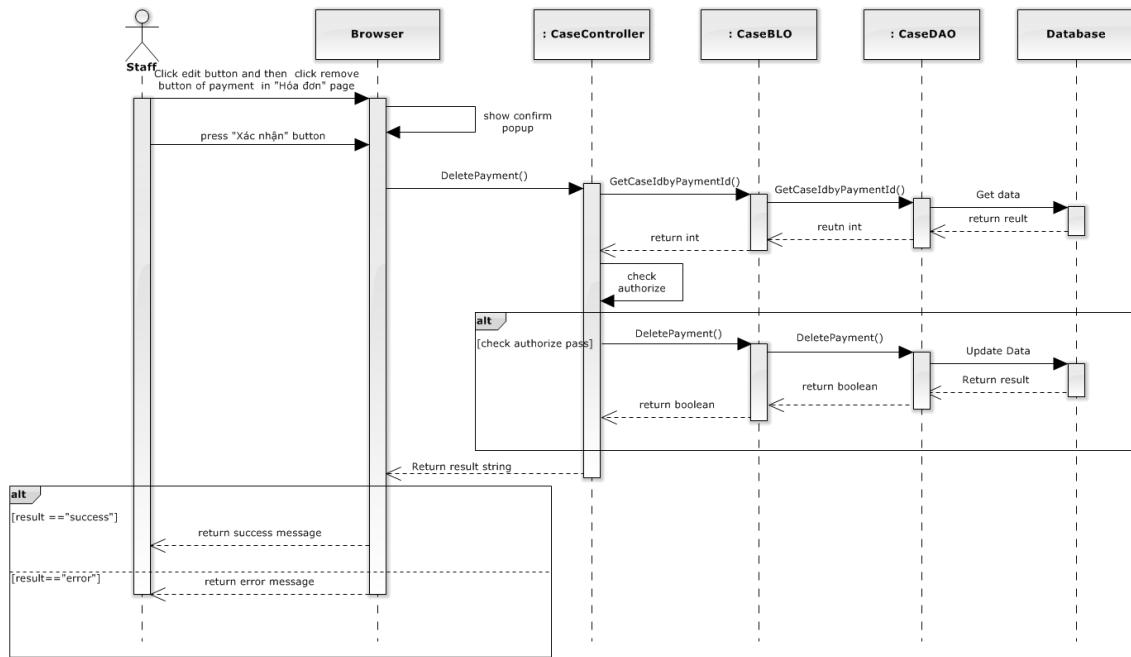


Figure 4-80: Delete payment sequence diagram

4.3.11. Manage Customer Group

4.3.11.1. List customer group

4.3.11.1.1. Class diagram

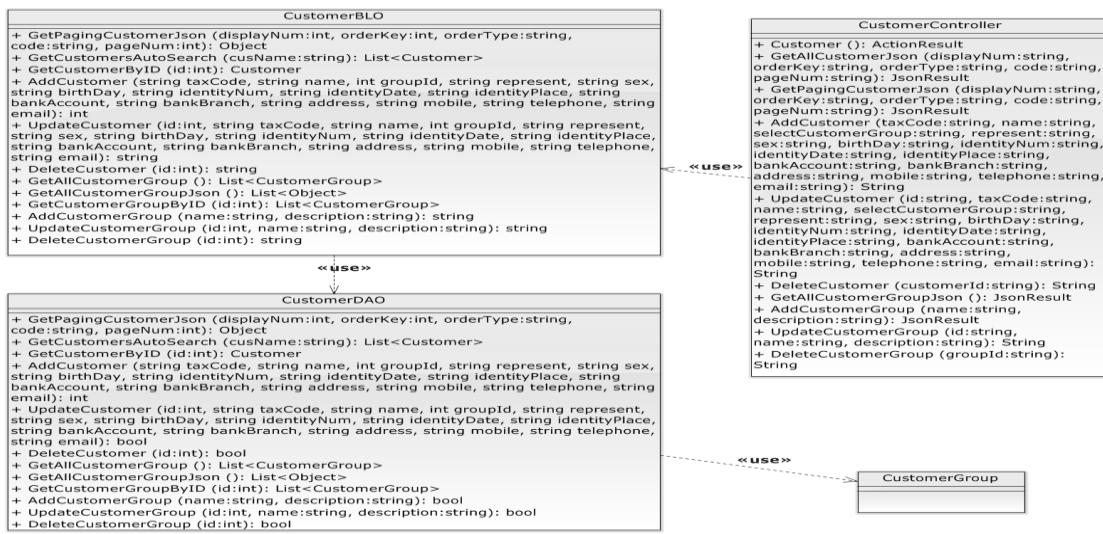


Figure 4-81: List customer group class diagram

4.3.11.1.2. Screen design

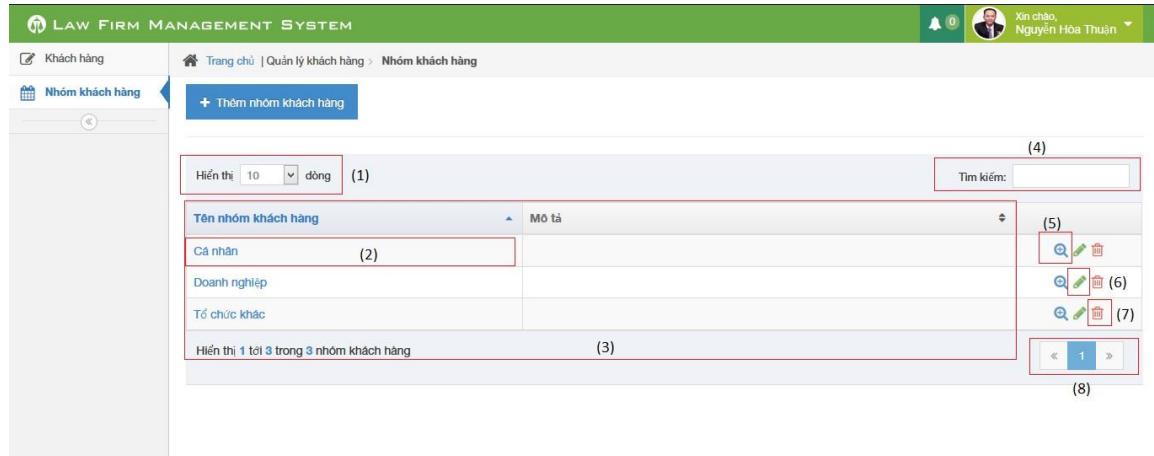


Figure 4-82: List customer group image

| No | Object/Control Name | Type | Required | Description |
|----|---------------------|------|----------|-------------|
| | | | | |

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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

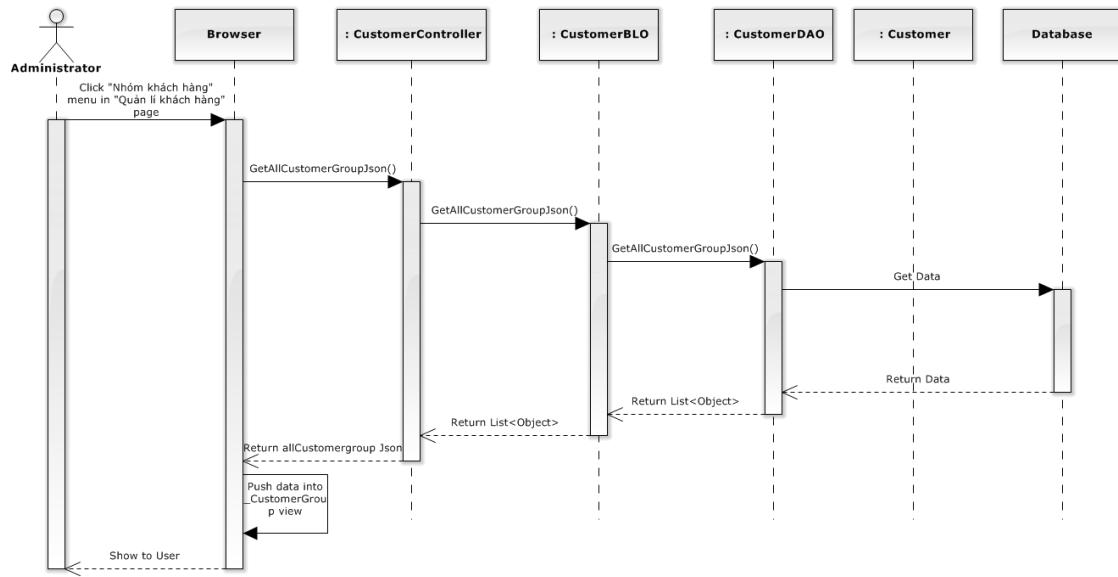


Figure 4-83: List customer group sequence diagram

4.3.11.2. Add customer group

4.3.11.2.1. Screen design

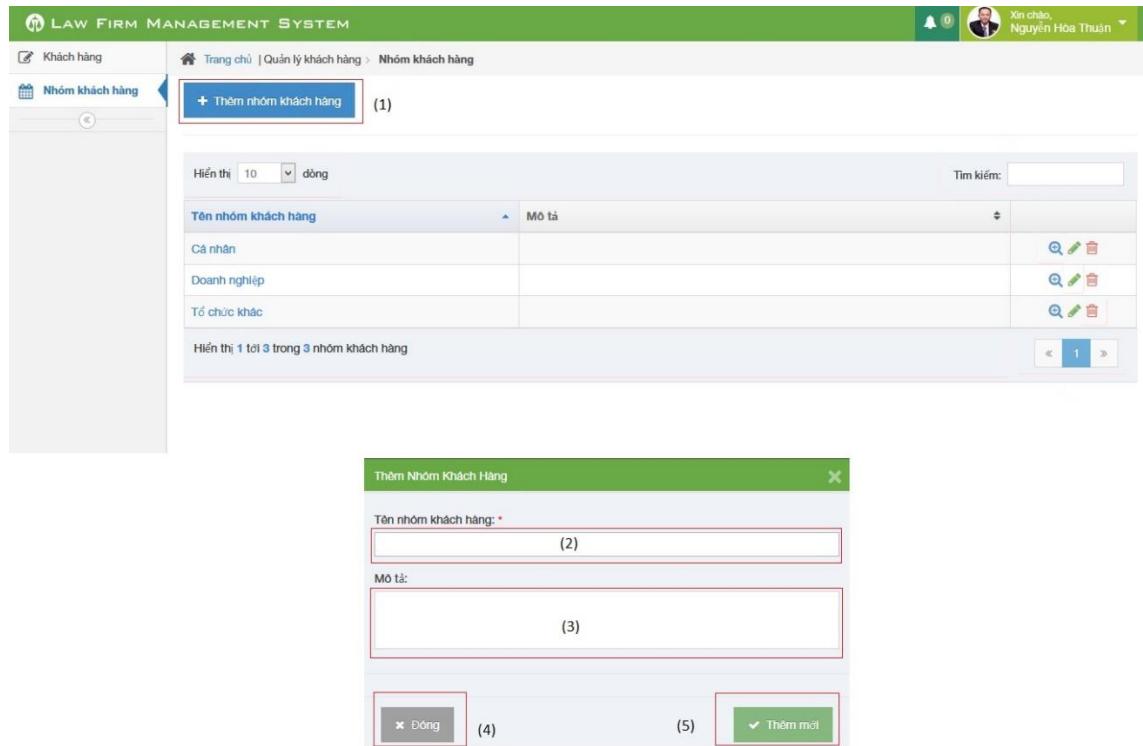


Figure 4-84: Add customer group image

| 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

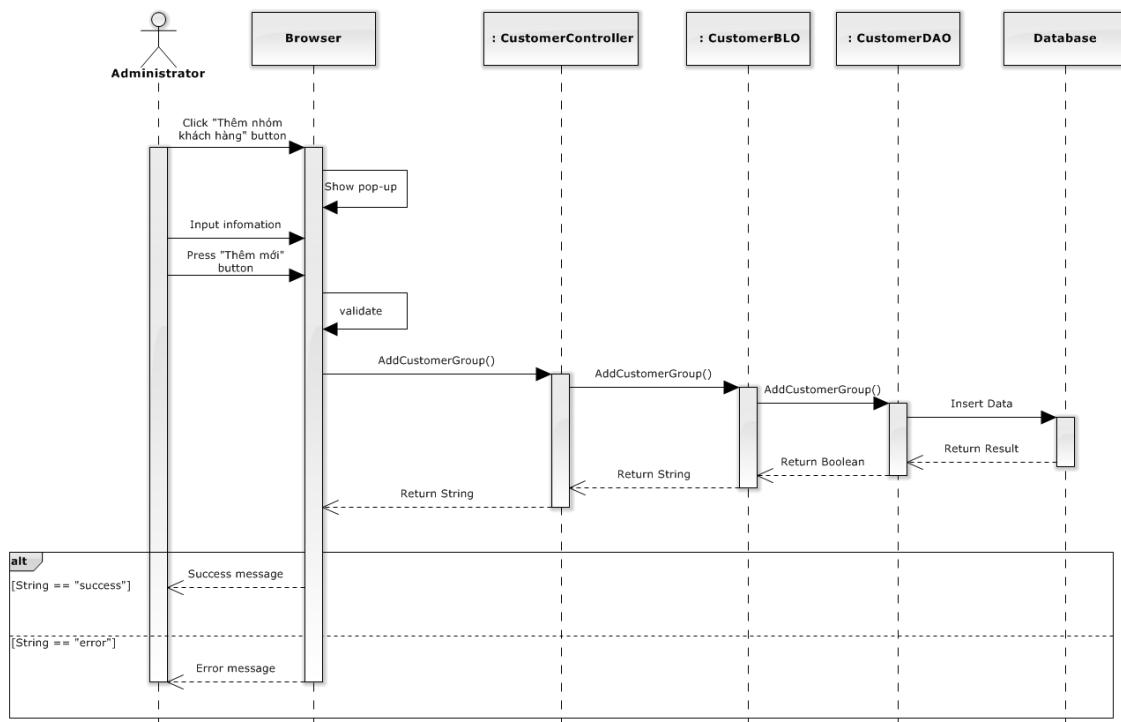


Figure 4-85: Add customer group sequence diagram

4.3.11.3. Edit customer group

4.3.11.3.1. Screen design

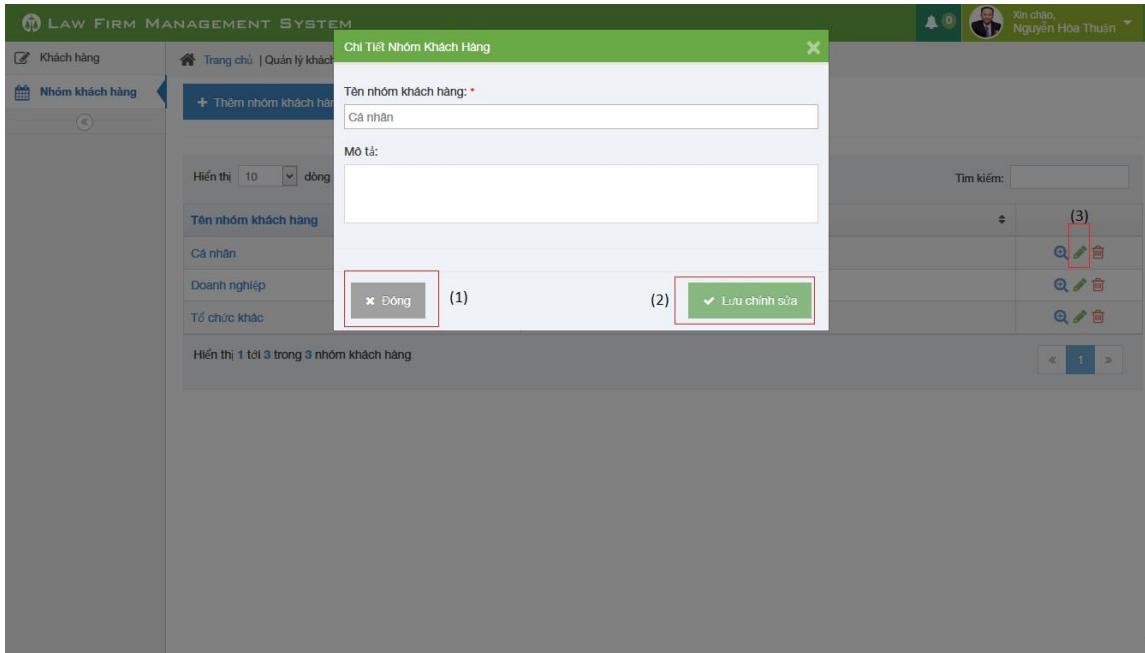


Figure 4-86: Edit customer group image

| 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

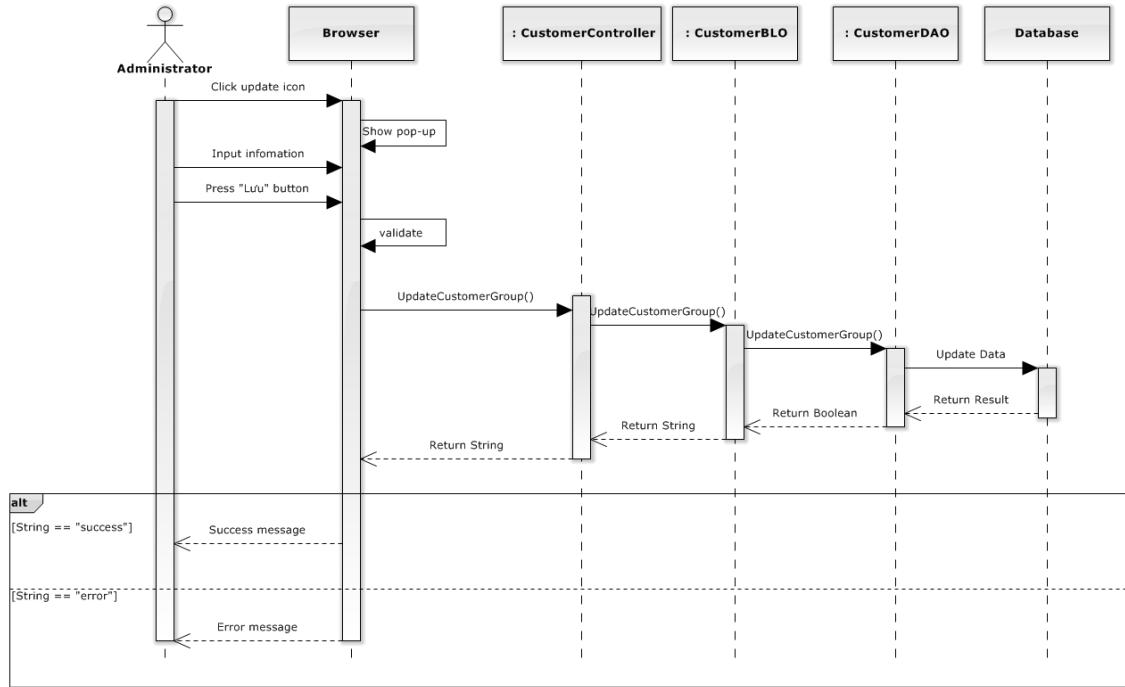


Figure 4-87: Edit customer group sequence diagram

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

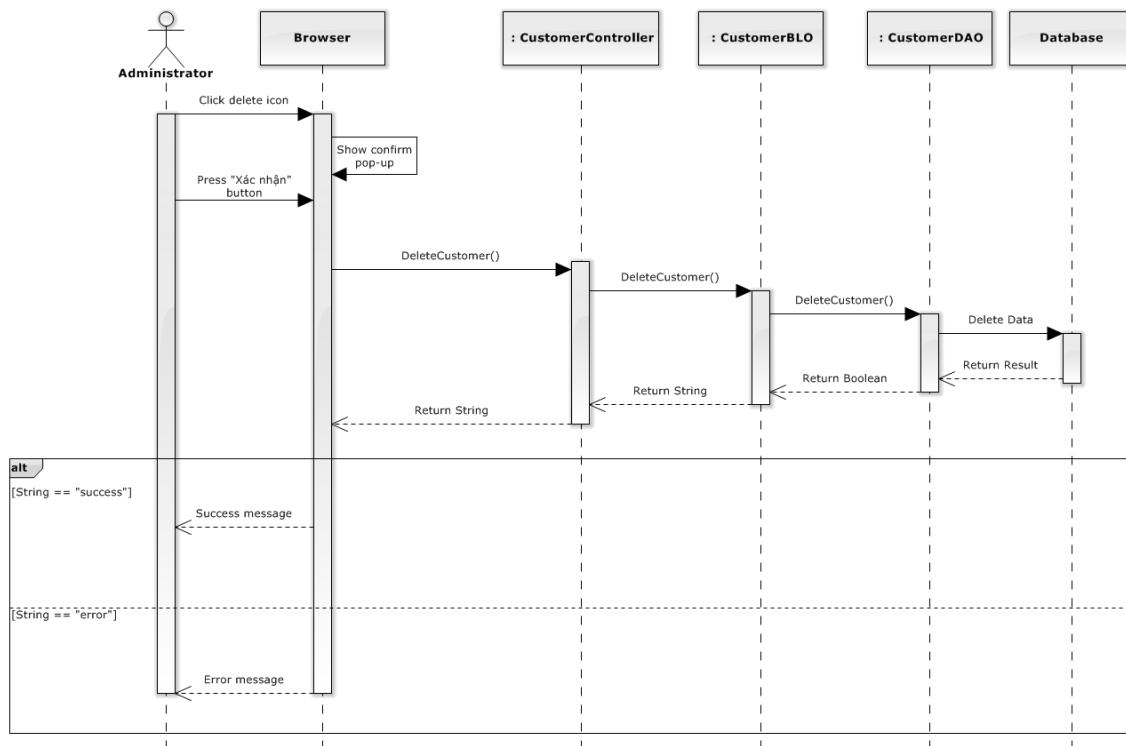


Figure 4-89: Delete customer group sequence diagram

4.3.12. Manage Customer

4.3.12.1. List customers

4.3.12.1.1. Class diagram

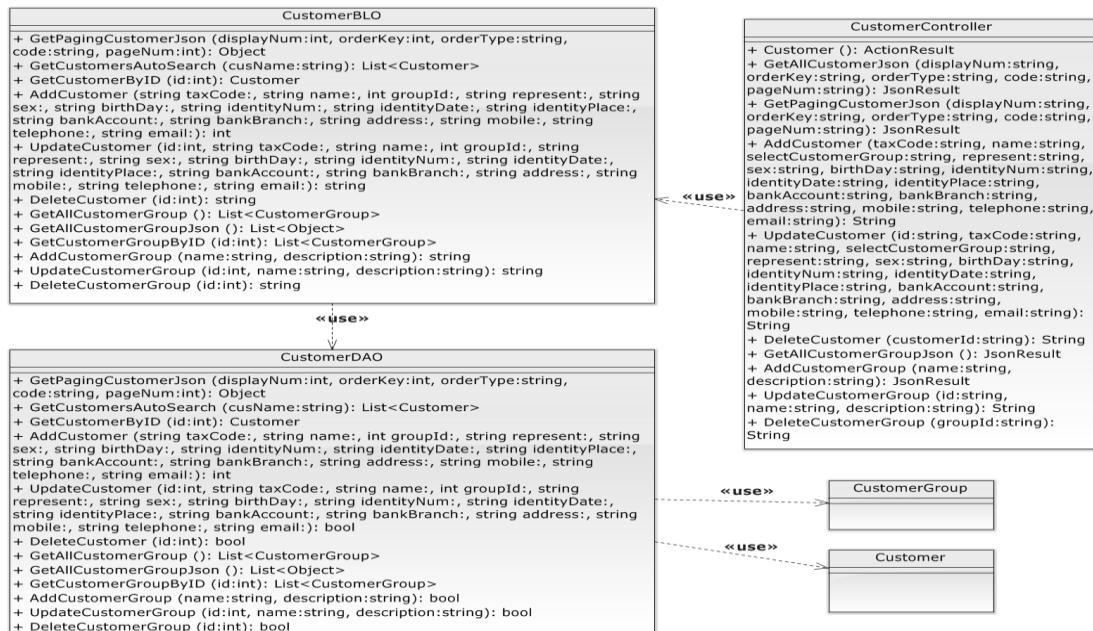


Figure 4-90: Manage customer class diagram

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

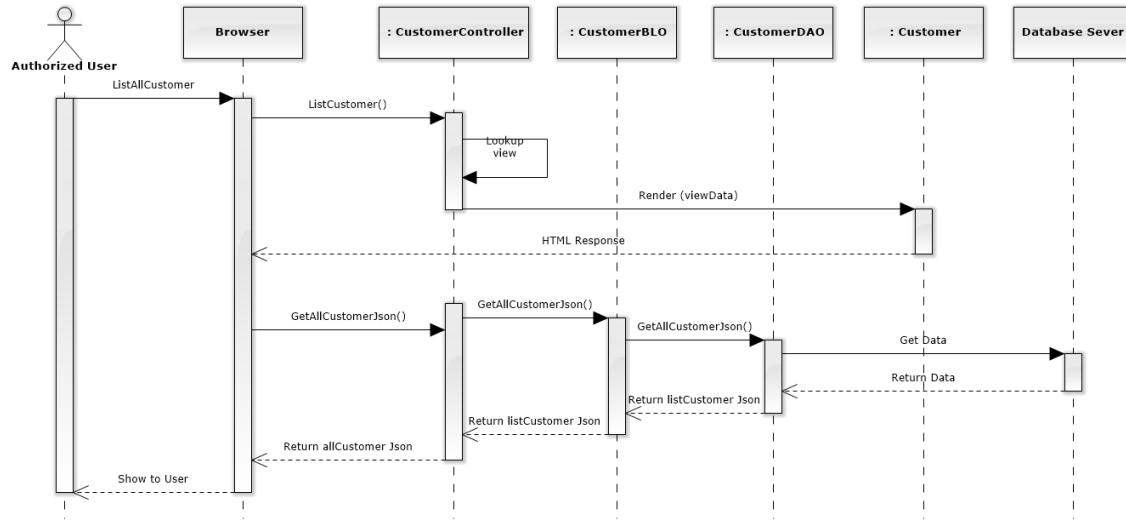


Figure 4-92: List Customers Sequence Diagram

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) (dropdown menu)
- Người đại diện: * (2)
- Giới tính: (radio buttons) Nam (9), Nữ (9)
- Ngày sinh: (3) (date input)
- Số CMND: (10)
- Ngày cấp CMND: (4) (date input)
- Nơi cấp CMND: (11)
- Số tài khoản: (5) (date input)
- Tên ngân hàng: (12)
- Mã số thuế: (6)
- Email: (13)
- Điện thoại di động: * (7) (phone input)
- Điện thoại cố định: (8) (phone input)
- Địa chỉ: * (15) (text area)

At the bottom of the form are two buttons:

- Làm trống (16) (Clear)
- Thêm mới (17) (Add New)

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

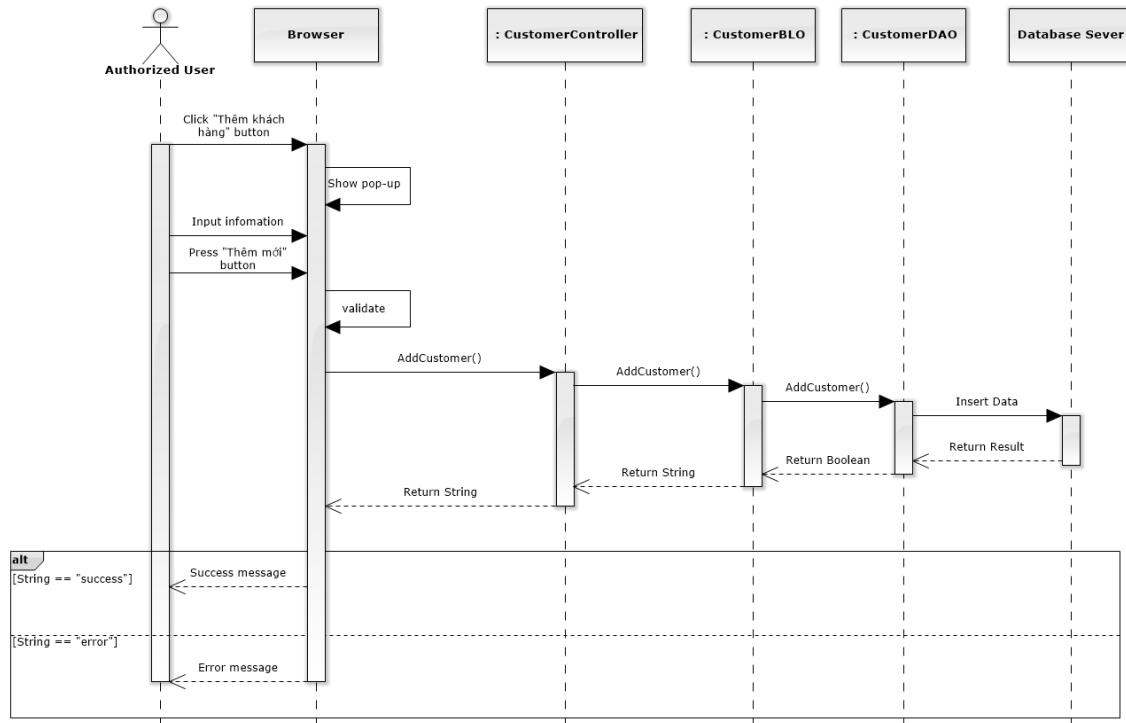


Figure 4-94: Add New Customer Sequence Diagram

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

Buttons at the bottom:

- (16) - X Đóng (Close)
- (17) - Lưu chỉnh sửa (Save changes)

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

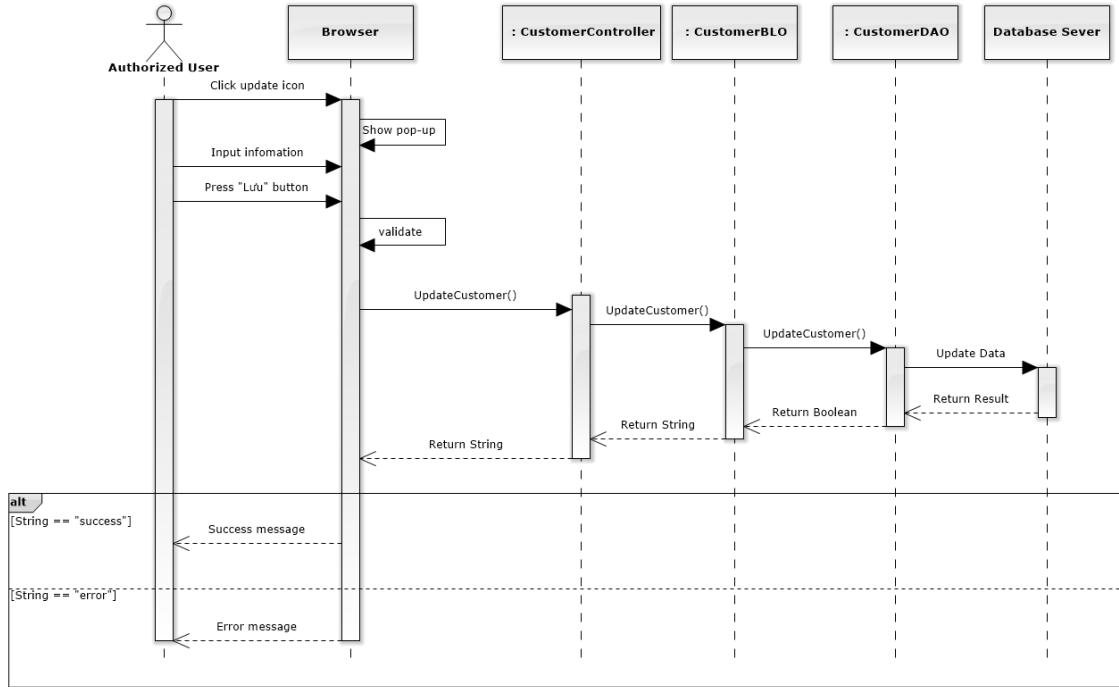


Figure 4-96: Edit Customer Sequence Diagram

4.3.12.4. Delete customer

4.3.12.4.1. Screen design

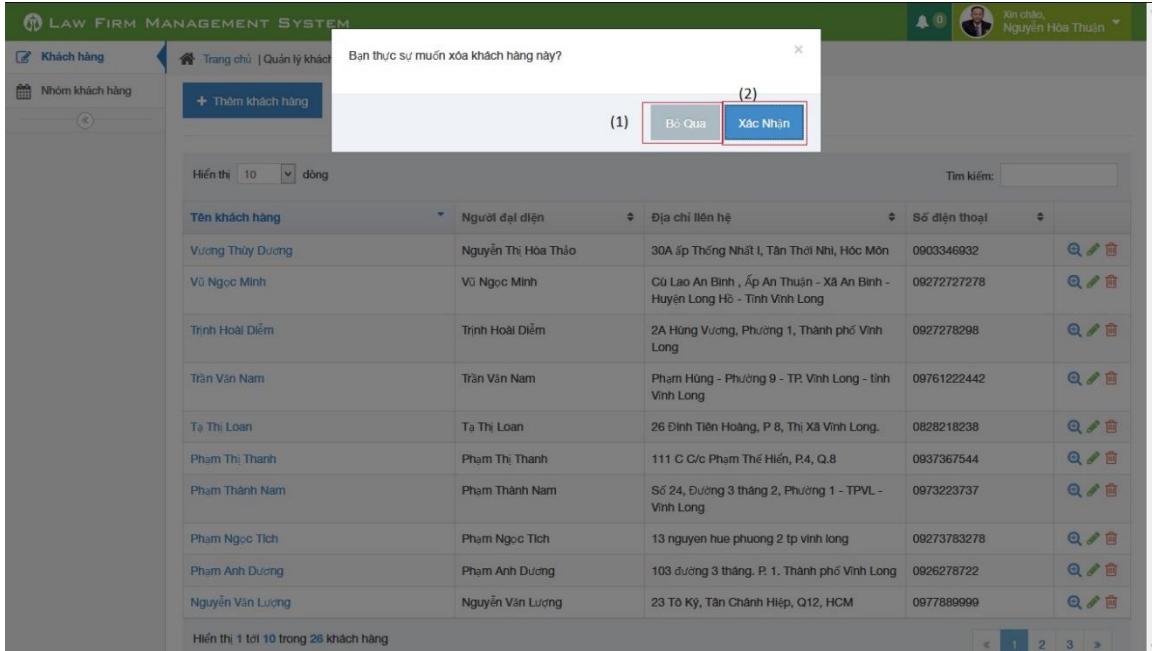


Figure 4-97: Delete customer image

| 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

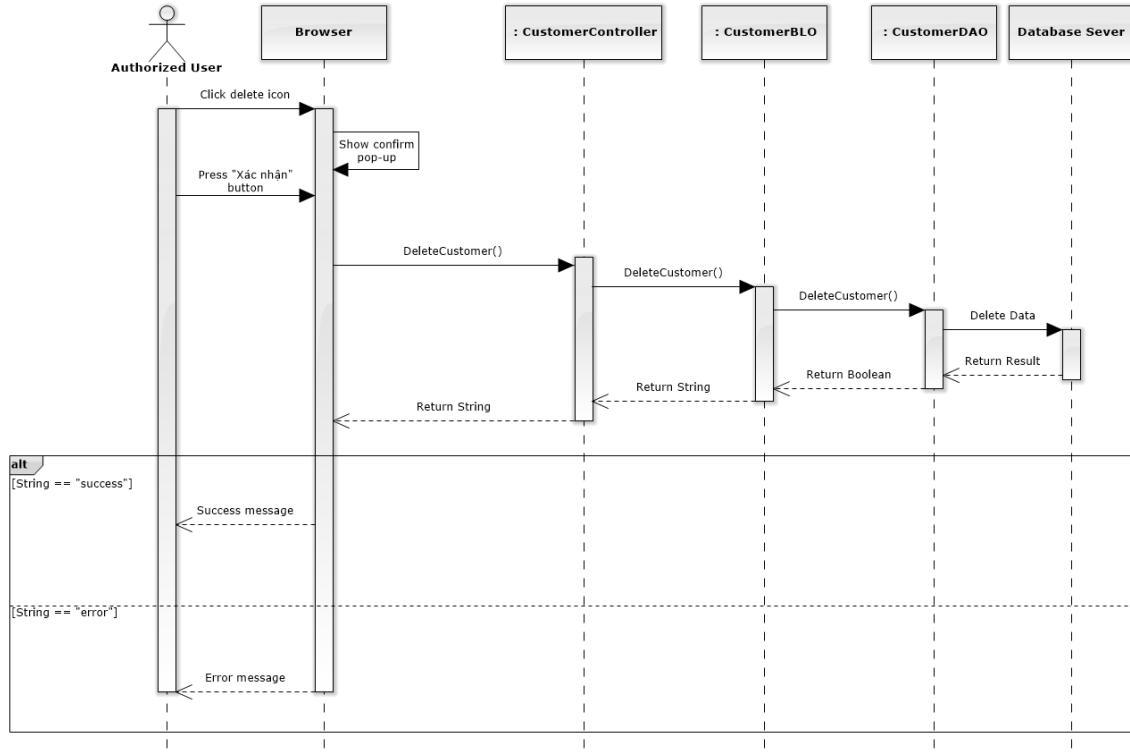


Figure 4-98: Delete Customer Sequence Diagram

4.3.13. Manage Staff Group

4.3.13.1. List staff group

4.3.13.1.1. Class diagram

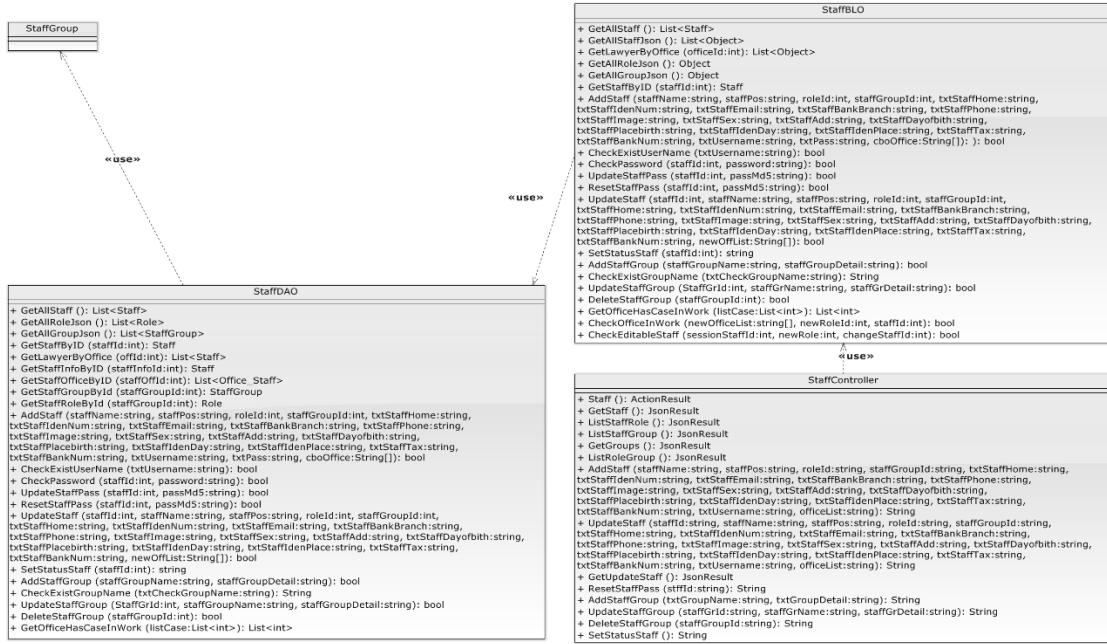


Figure 4-99: Manage staff group class diagram

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 page navigation bar at the bottom.
- (5) A column of icons for each row, including magnifying glass, edit, and delete symbols.
- (6) The second icon in the 'edit' column.
- (7) The third icon in the 'edit' column.
- (8) The fourth icon in the 'edit' column.

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

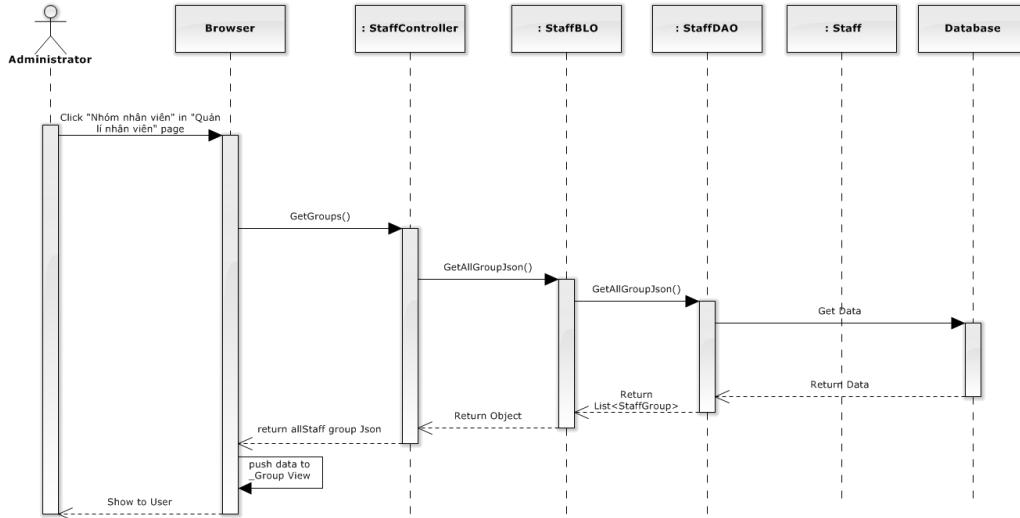


Figure 4-101: List staff group sequence diagram

4.3.13.2. Add staff group

4.3.13.2.1. Screen design

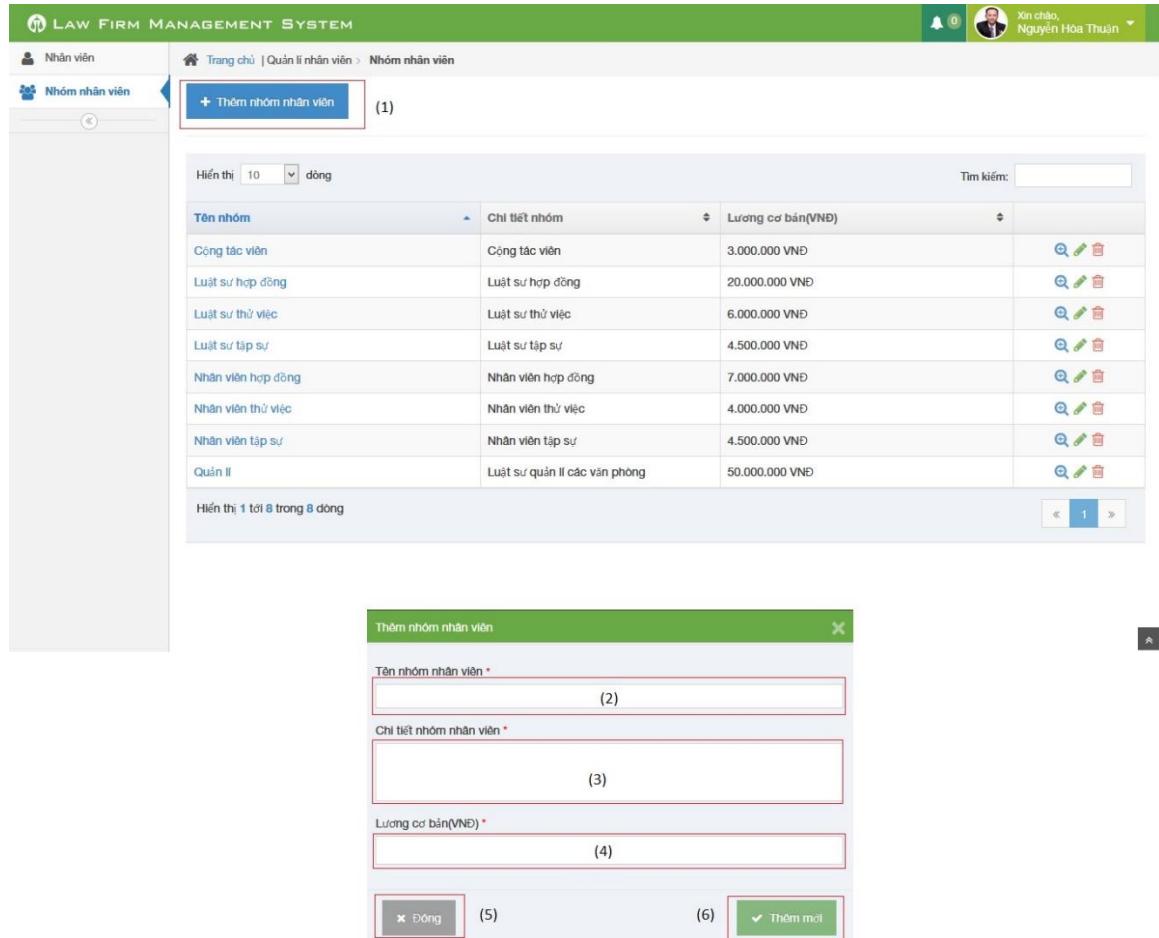


Figure 4-102: Add staff group image

| 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

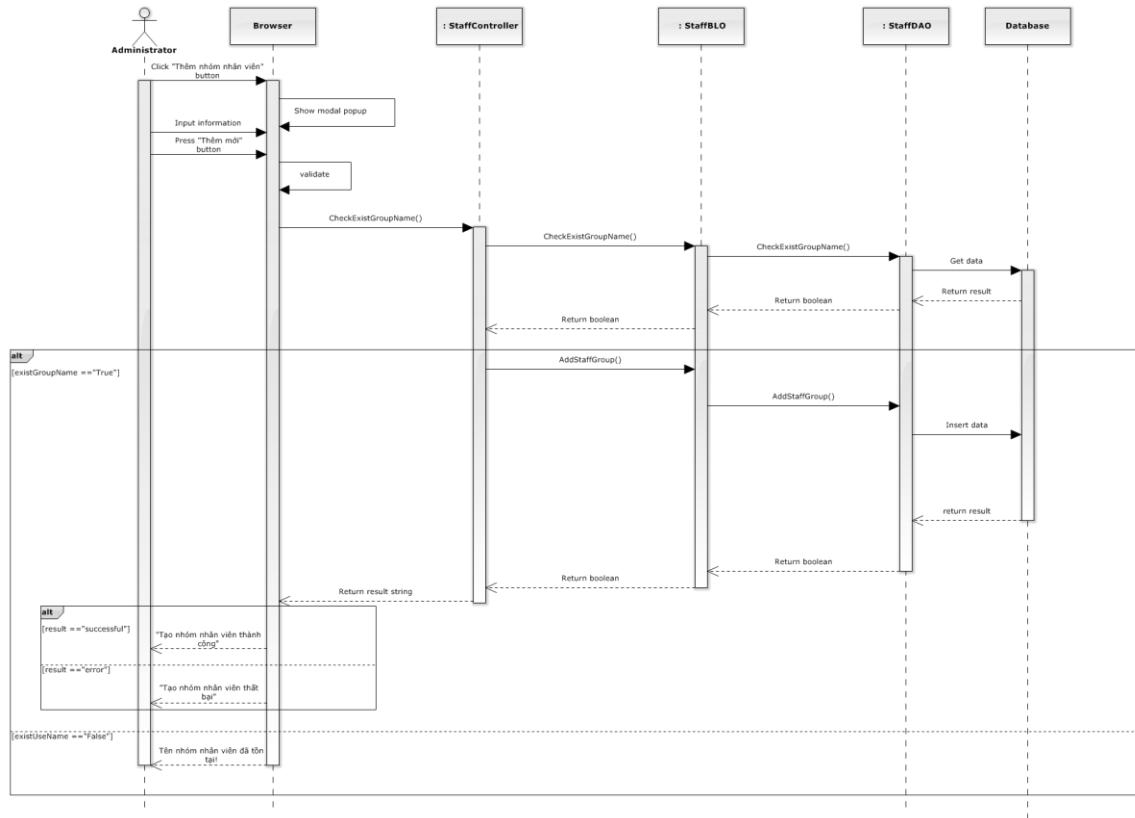


Figure 4-103: Add staff group sequence diagram

4.3.13.3. Edit staff group

4.3.13.3.1. Screen design

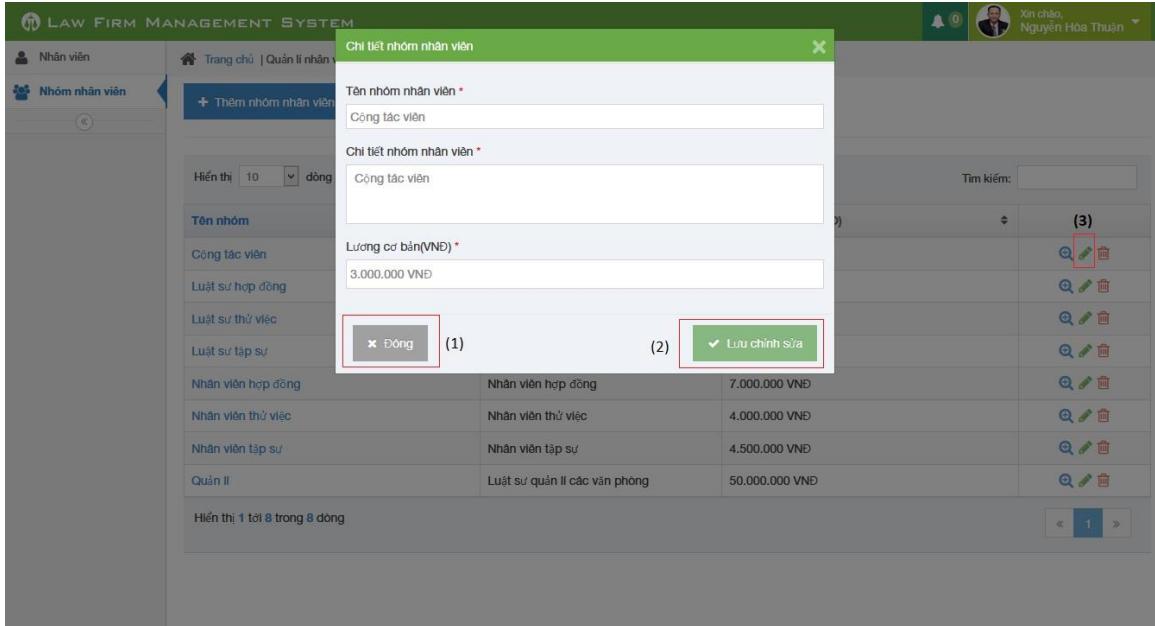


Figure 4-104: Edit staff group image

| 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

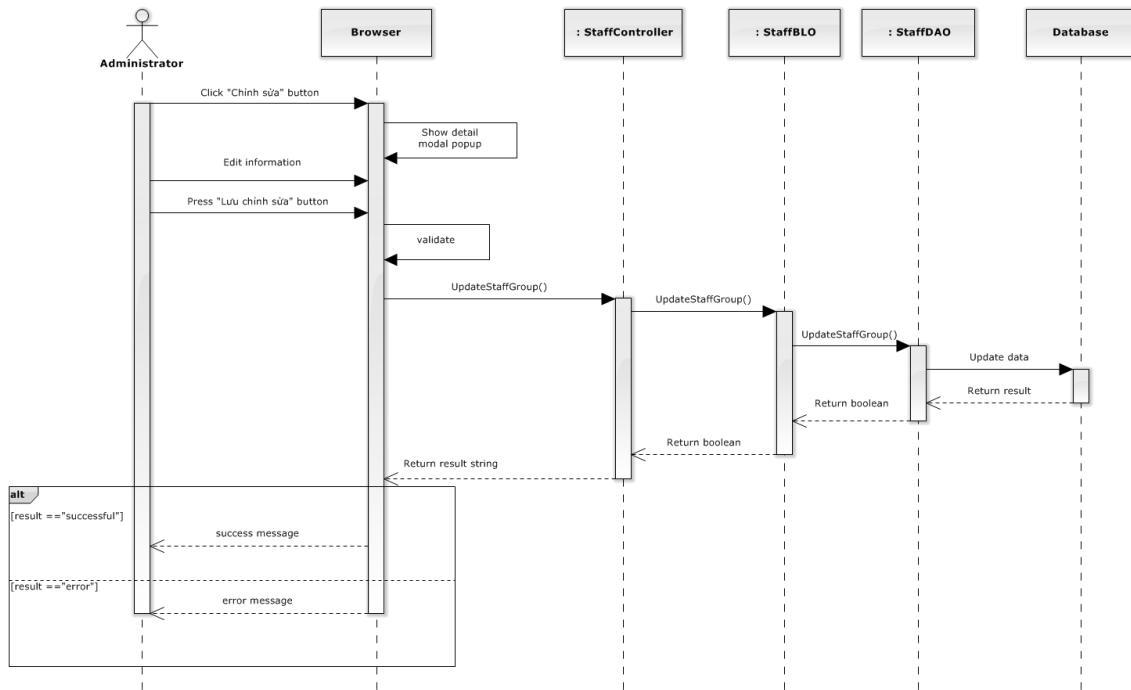


Figure 4-105: Edit staff group sequence diagram

4.3.13.4. Delete staff group

4.3.13.4.1. Screen design

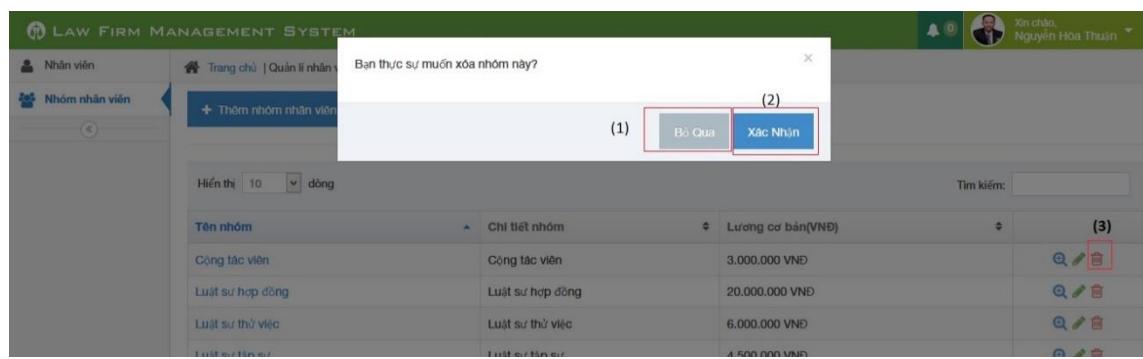


Figure 4-106: Delete staff group image

| 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

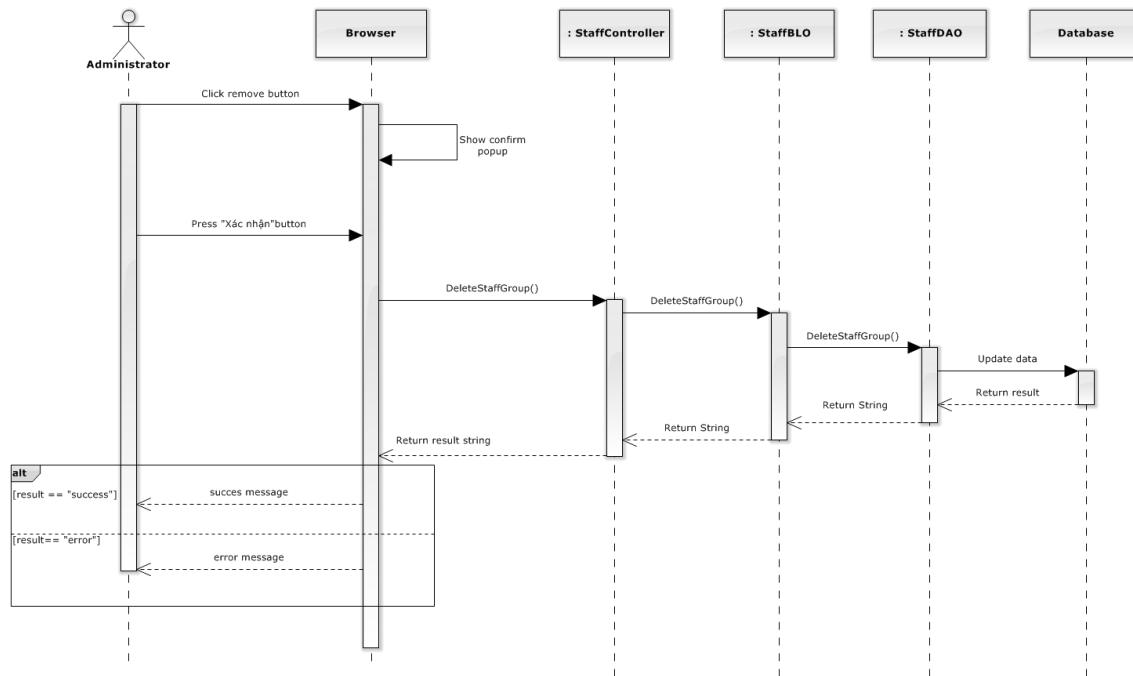


Figure 4-107: Delete staff group sequence diagram

4.3.14. Manage Staff

4.3.14.1. List staffs

4.3.14.1.1. Class diagram

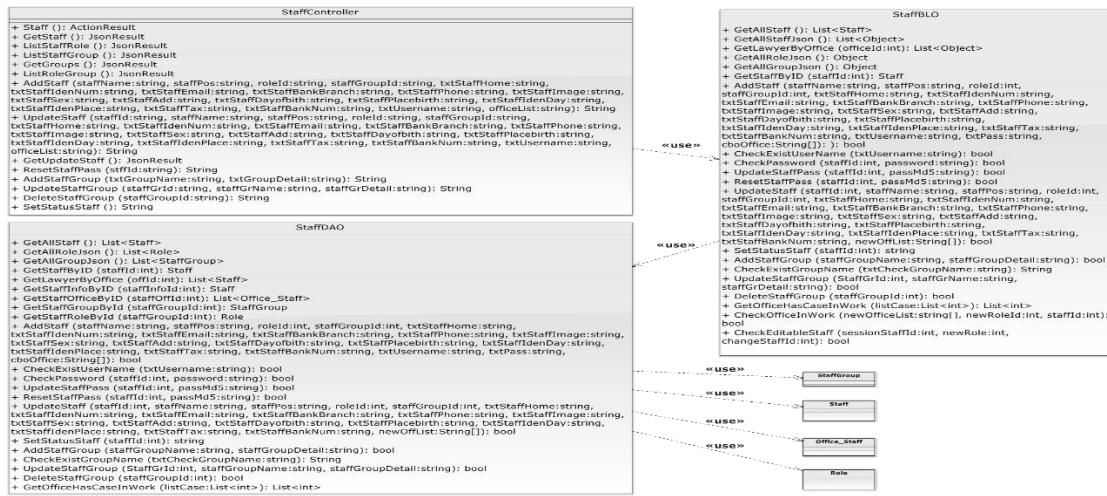


Figure 4-108: Manage staff class diagram

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 menu showing 'Hiển thị | 10 | dòng (2)'. 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 several icons labeled (6) through (8), which likely represent different actions like edit, delete, or search.

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

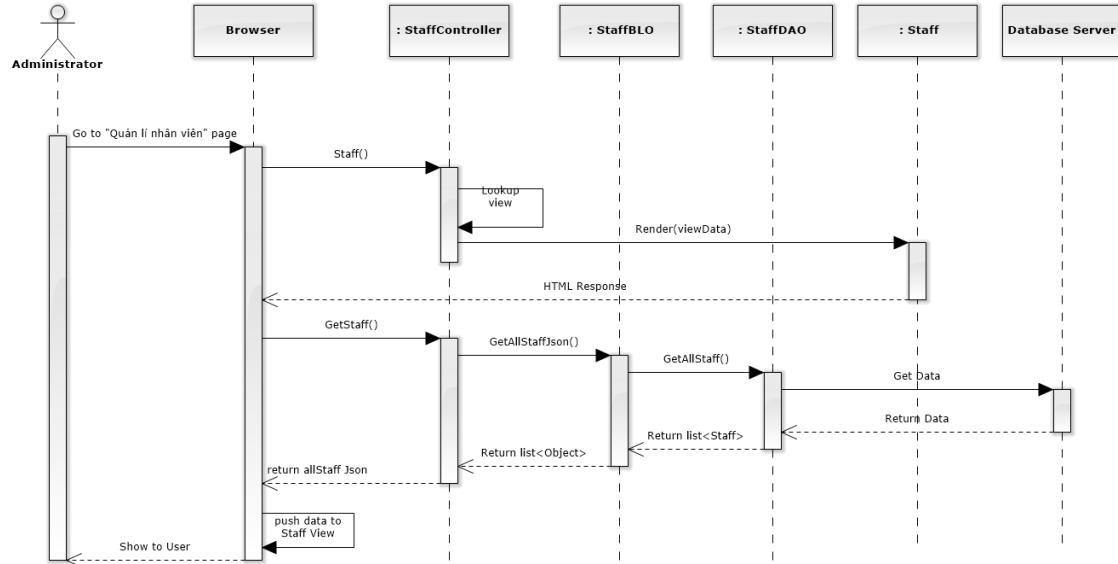


Figure 4-110: List Staffs Sequence Diagram

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

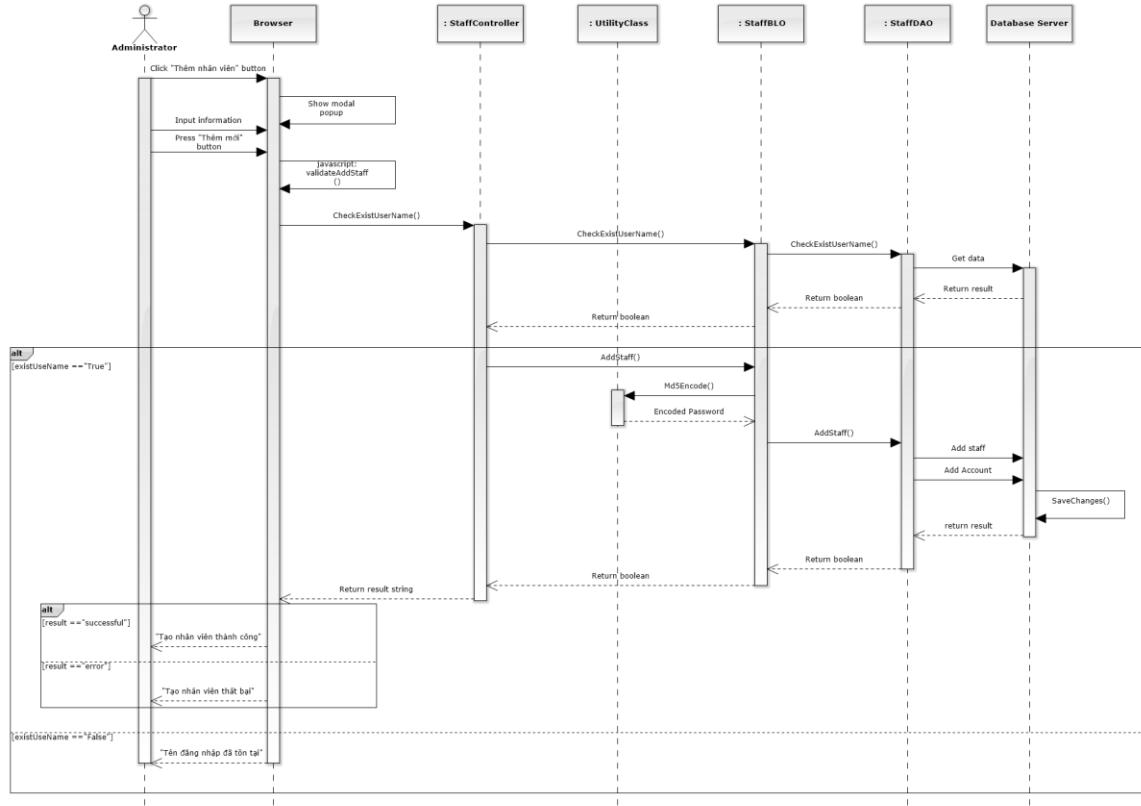


Figure 4-112: Add New Staff Sequence Diagram

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)
- Contact Information:**
 - Tên nhân viên ***: Nguyễn Hoa Thuận (2)
 - Nơi sinh**: Vĩnh Long (10)
 - Ngày Cấp CMND ***: 06/02/2002 (17)
 - Điện thoại di động ***: 0988816668 (11)
 - Nơi cấp CMND ***: Vĩnh Long (18)
 - Mã số thuế**: 8183264675 (19)
 - Số tài khoản**: 05355621238 (20)
- Address:**
 - Điện thoại nhà riêng**: (12)
 - Địa chỉ liên hệ ***: 58 Mậu Thân, khóm 1, phường 3, thành phố Vĩnh Long (14)
 - Chi nhánh ngân hàng**: VCB (21)
- Gender:** Nam (5)
- Relationship:** Số người phụ thuộc: 2 (6)
- 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

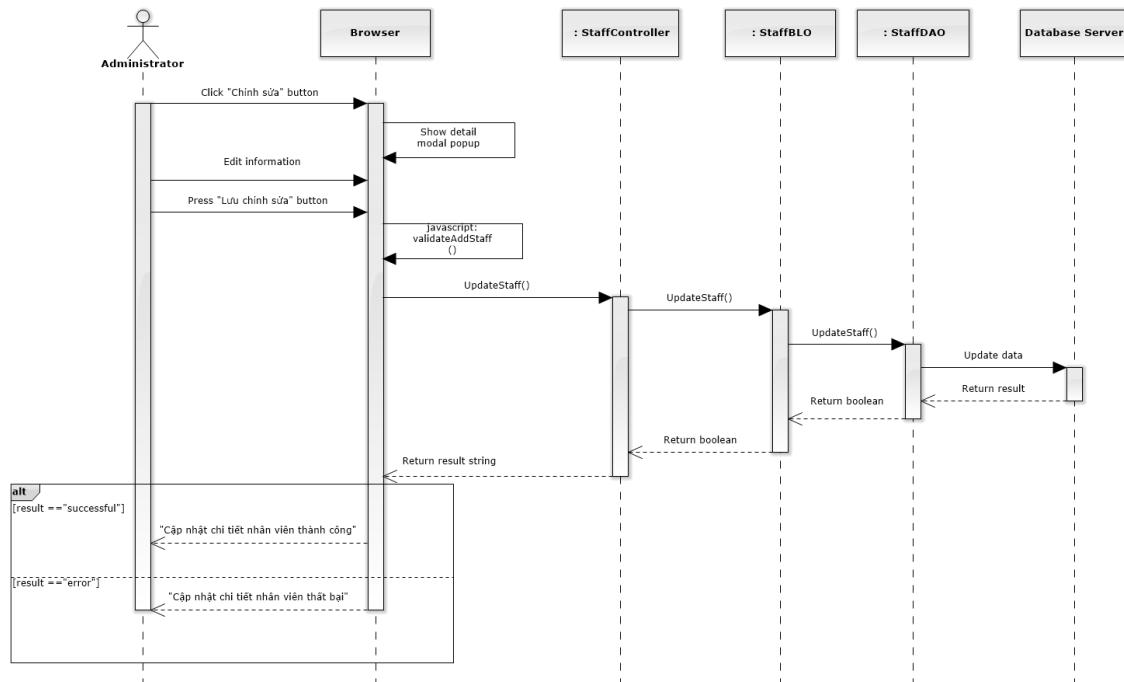


Figure 4-114: Edit Staff Sequence Diagram

4.3.14.4. Deactivate/ Activate staff

4.3.14.4.1. Screen design

The screenshot shows the 'Chi tiết nhân viên' (Staff Details) screen. A modal dialog box is open in the center, asking 'Bạn có muốn thực hiện thao tác này?' (Do you want to perform this action?). Below the question are two buttons: '(1)' highlighted with a red box and '(2)' highlighted with a blue box. The '(1)' button is labeled 'Bỏ Qua' (Skip) and the '(2)' button is labeled 'Xác Nhận' (Confirm). The main staff details are visible, including a photo, birth date (01/05/1989), CMND number (258741785), and various contact and personal information fields.

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 |
|---|-----------------|------|-----|---|

4.3.14.4.2. Sequence diagram

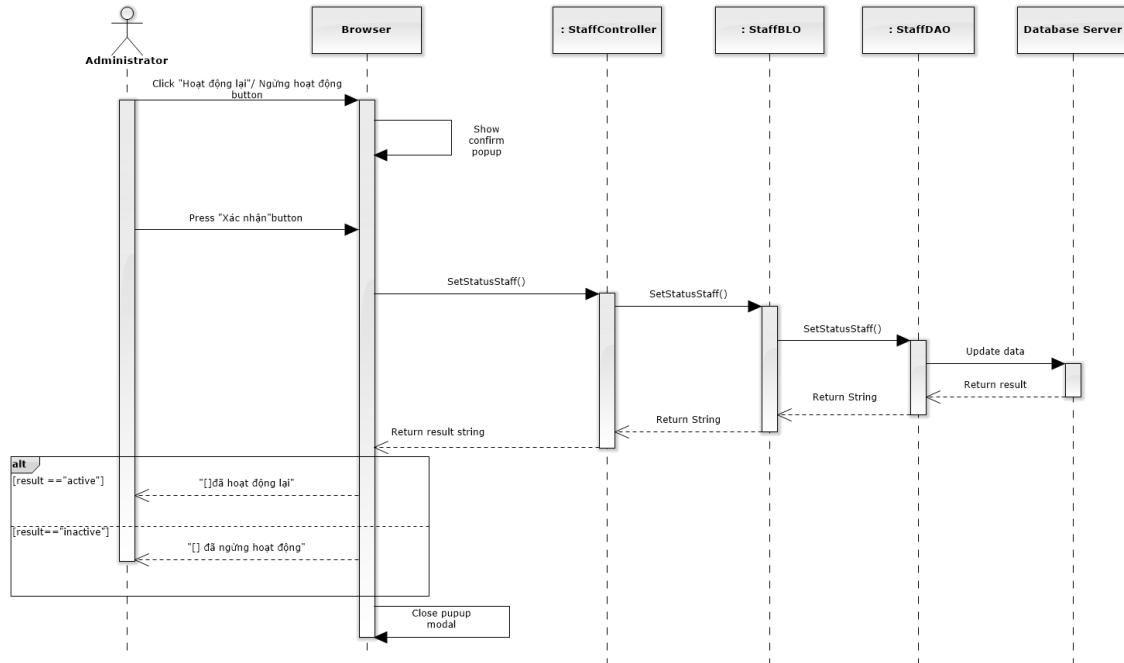


Figure 4-116: Deactivate / Activate Staff Sequence Diagram

4.3.14.5. Reset password

4.3.14.5.1. Screen design

Chi tiết nhân viên



Bạn muốn khôi phục mật khẩu nhân viên này về mặc định?

(1)
Bỏ Qua
(2)
Xác Nhận

| | | |
|---|--|---------------------|
| Tên nhân viên * | Nơi sinh | Ngày Cấp CMND * |
| Nguyễn Hữu Tiếng | Gia Lai | 01/01/2004 |
| Tên đăng nhập * | Điện thoại di động * | Nơi cấp CMND * |
| tiengnh |  0902345537 | Gia Lai |
| Chức vụ | Điện thoại nhà riêng | Mã số thuế |
| Chuyên viên | 0596250884 | |
| Giới tính: | Email * | Số tài khoản |
| <input checked="" type="radio"/> Nam | tieng@luathuannguyen.com | |
| <input type="radio"/> Nữ | | |
| Số người phụ thuộc: | Địa chỉ liên hệ * | Chi nhánh ngân hàng |
| 1 | Khóm 16, Thị trấn An Khê, Tỉnh Gia Lai | |
| Đặt lại mật khẩu (3) Ngưng hoạt động | | |
| Thuộc văn phòng * <input type="text" value="Luật Thuận Nguyễn Hồ Chí Minh ✎"/> | | |

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

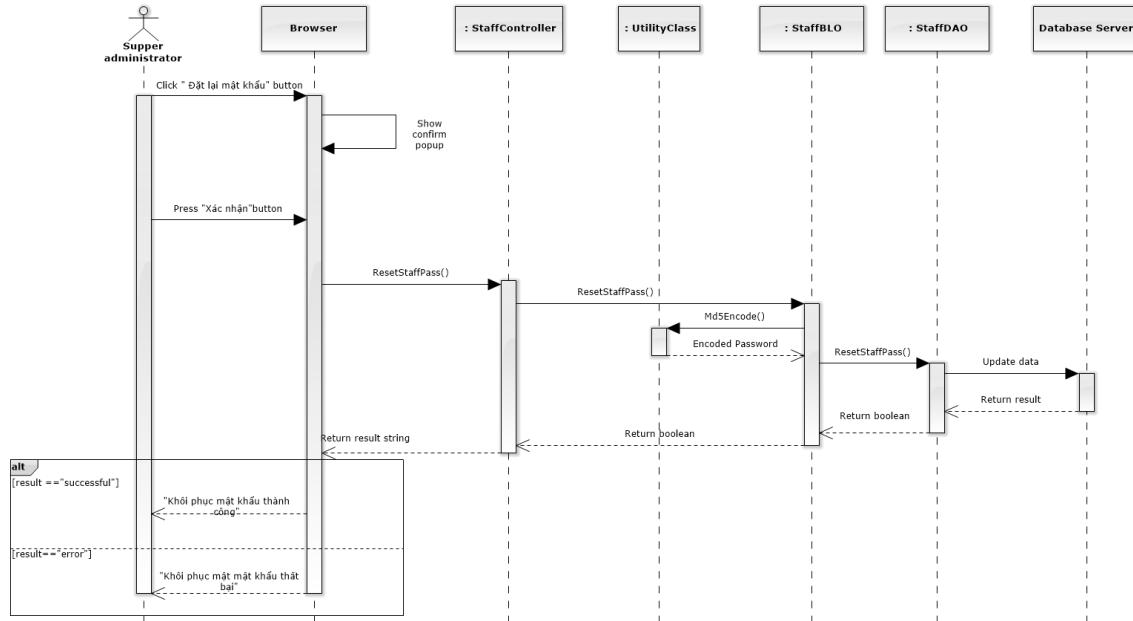


Figure 4-118: Reset Password Sequence Diagram

4.3.15. Manage Service Type

4.3.15.1. List service type

4.3.15.1.1. Class diagram

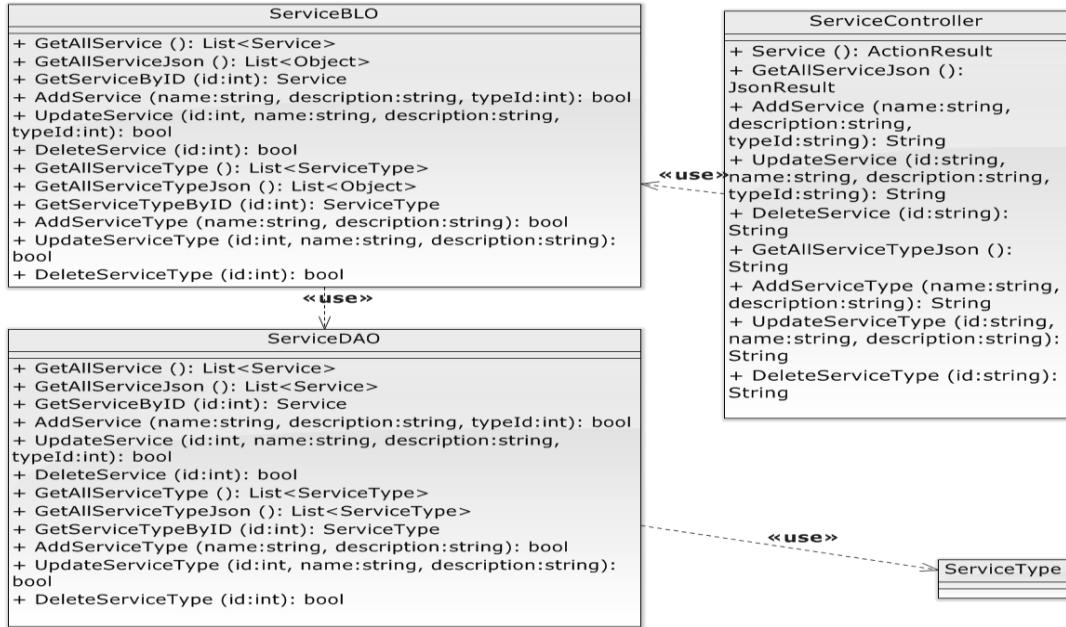


Figure 4-119: Manage service type class diagram

4.3.15.1.2. Screen design

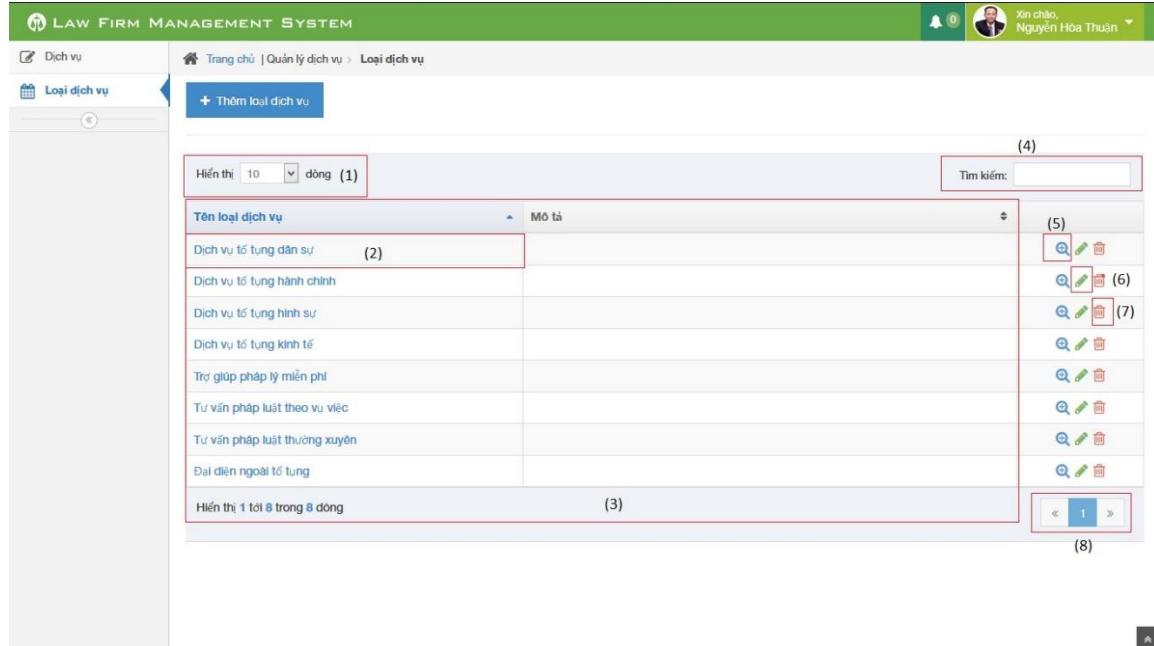


Figure 4-120: List service type image

| 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

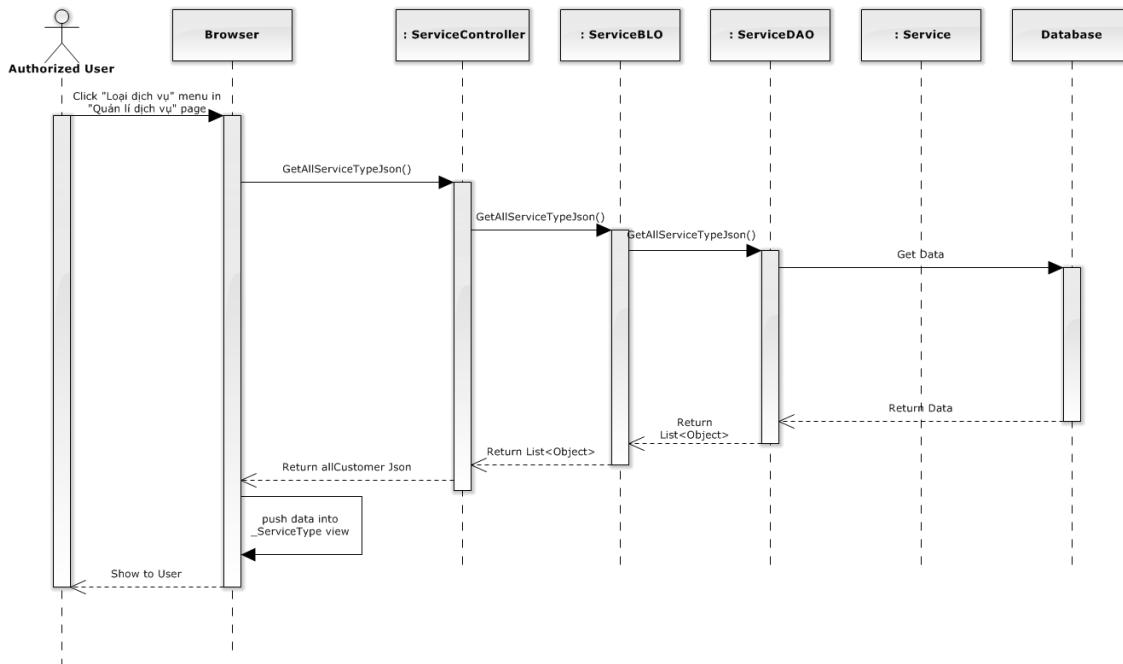


Figure 4-121: List service type sequence diagram

4.3.15.2. Add service type

4.3.15.2.1. Screen design

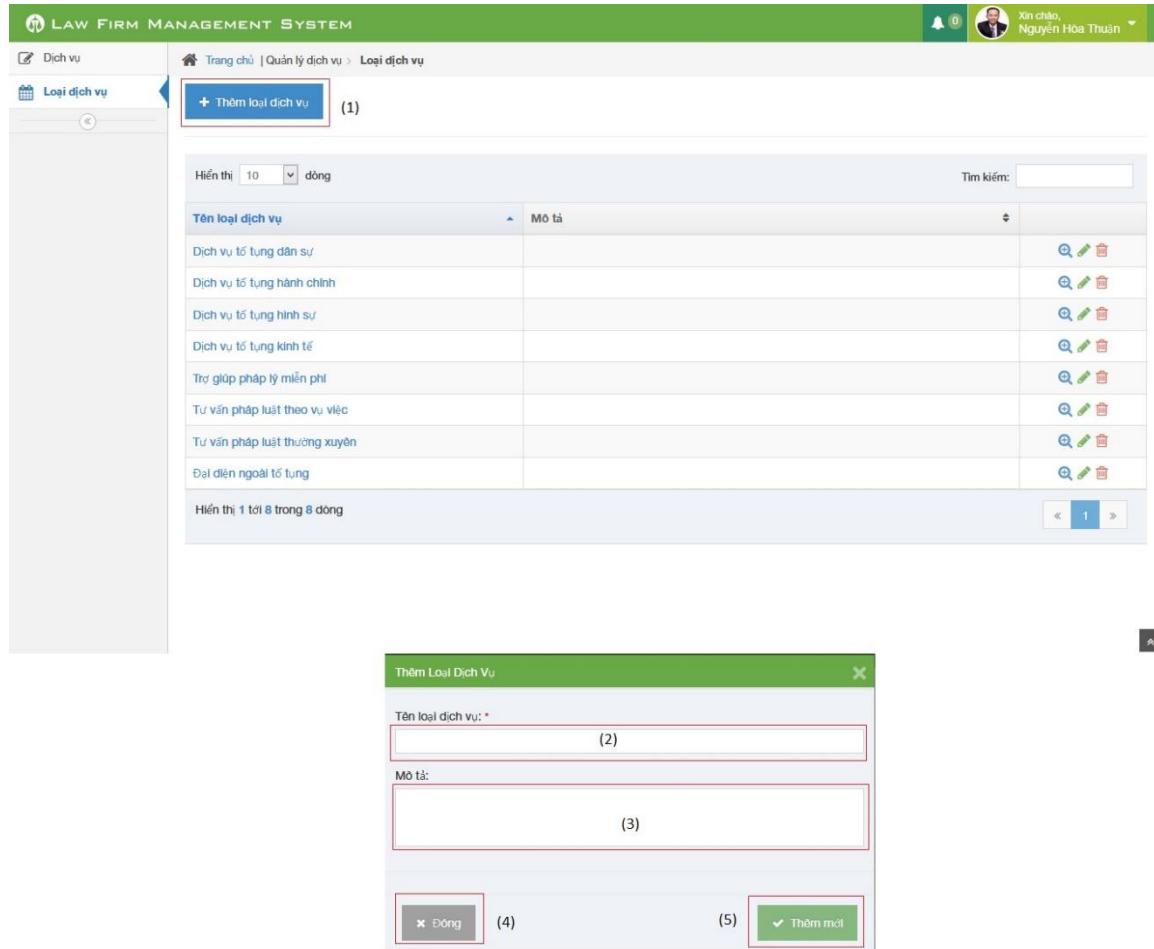


Figure 4-122: Add service type image

| 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

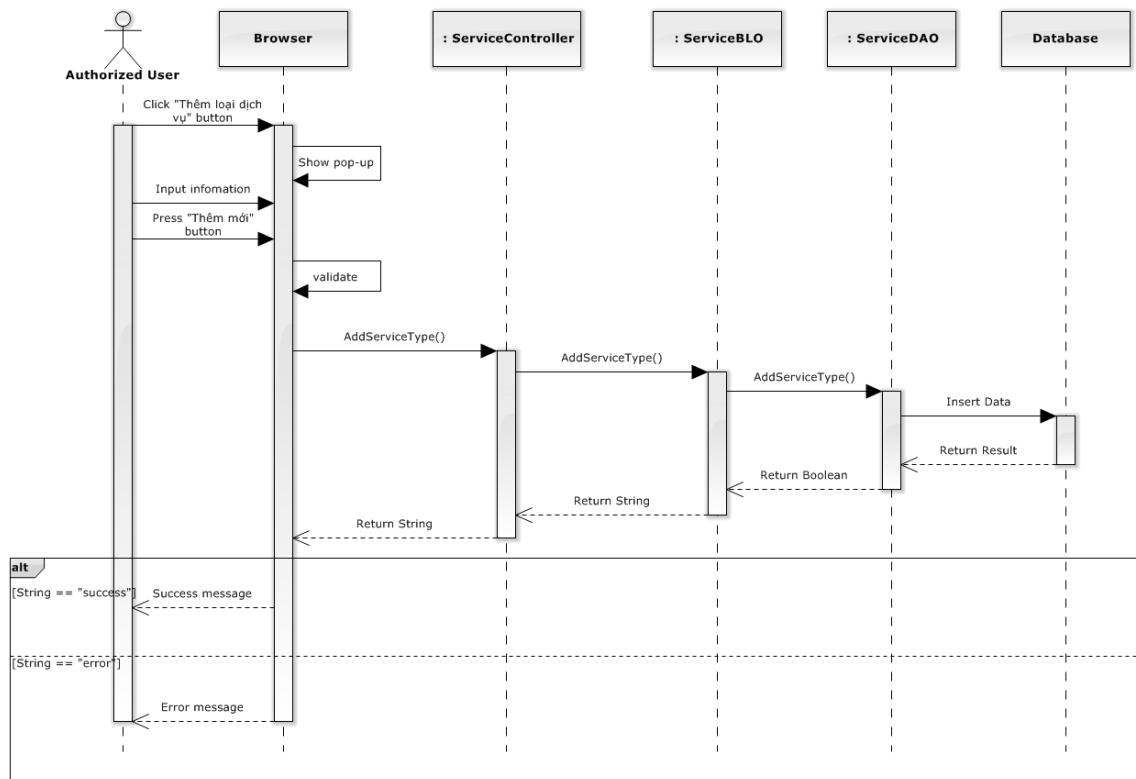


Figure 4-123: Add service type sequence diagram

4.3.15.3. Update service type

4.3.15.3.1. Screen design

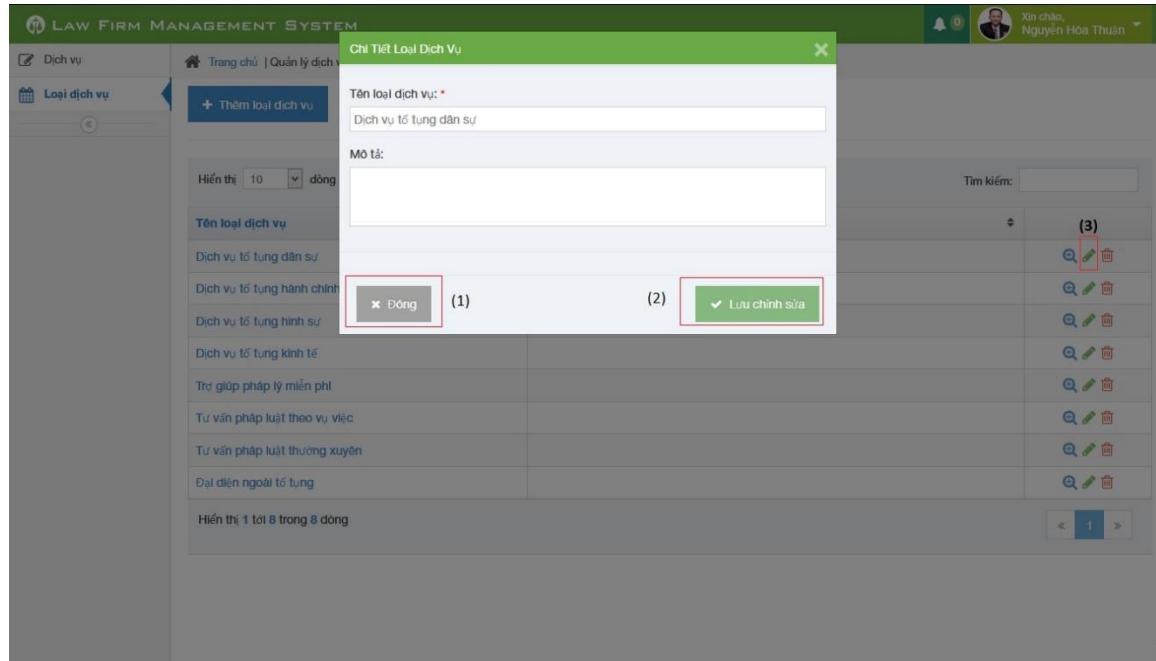


Figure 4-124: Update service type image

| 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

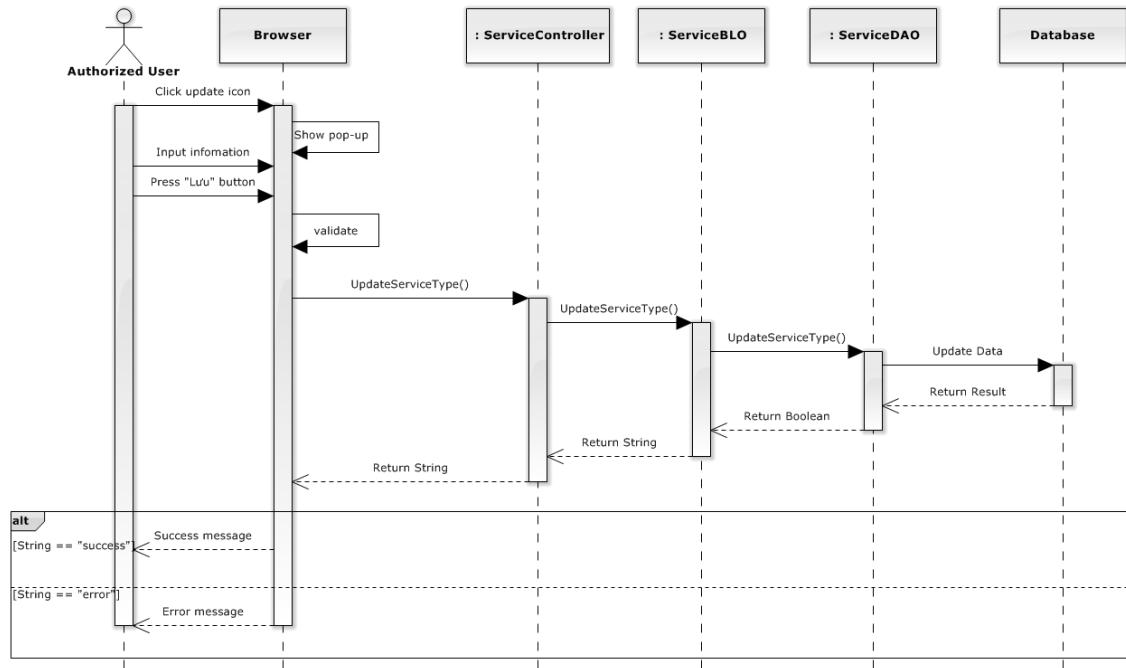


Figure 4-125: Update service type sequence diagram

4.3.15.4. Delete service type

4.3.15.4.1. Screen design

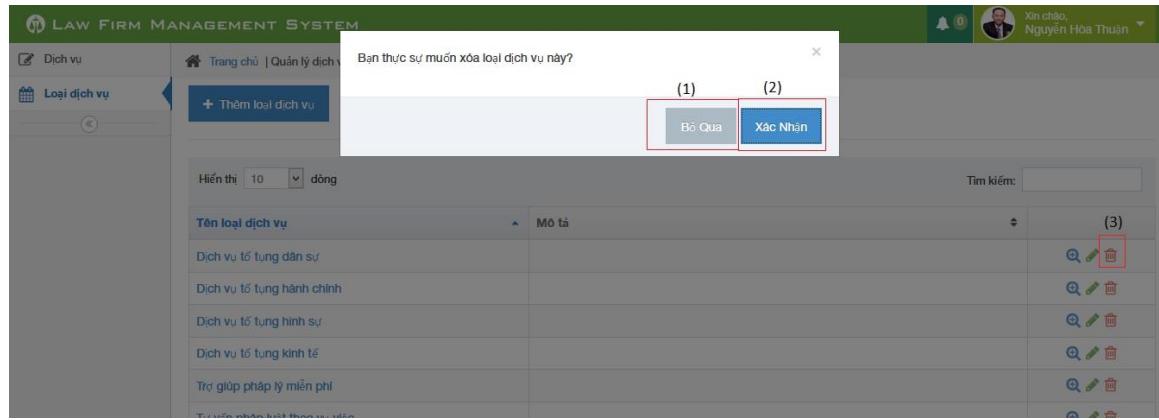


Figure 4-126: Delete service type image

| 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

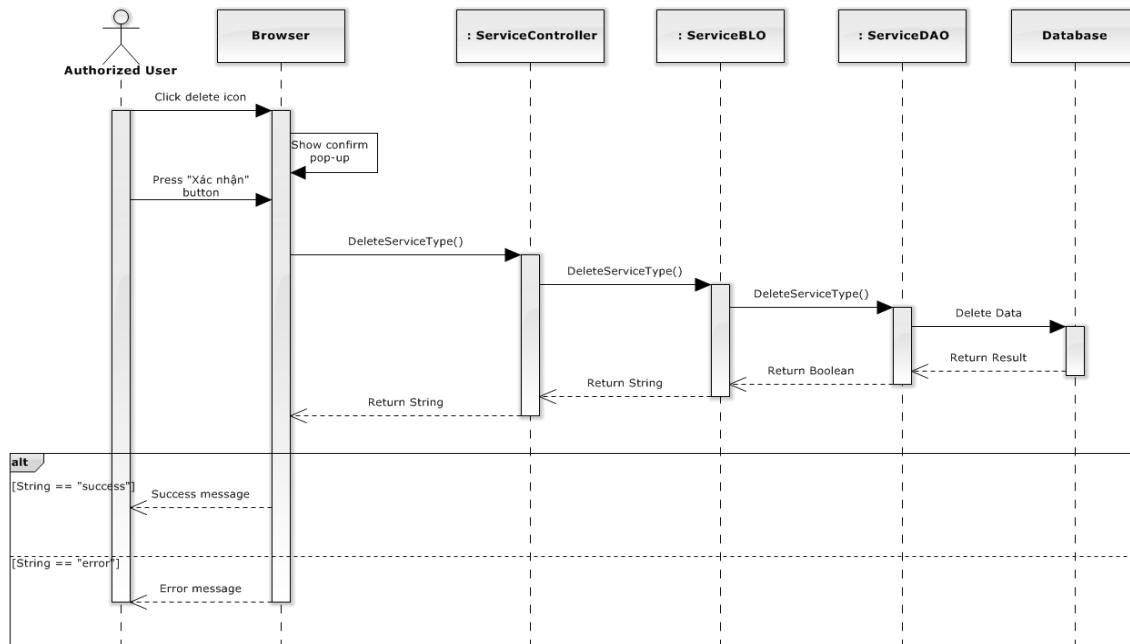


Figure 4-127: Delete service type sequence diagram

4.3.16. Manage Service

4.3.16.1. List Services

4.3.16.1.1. Class diagram

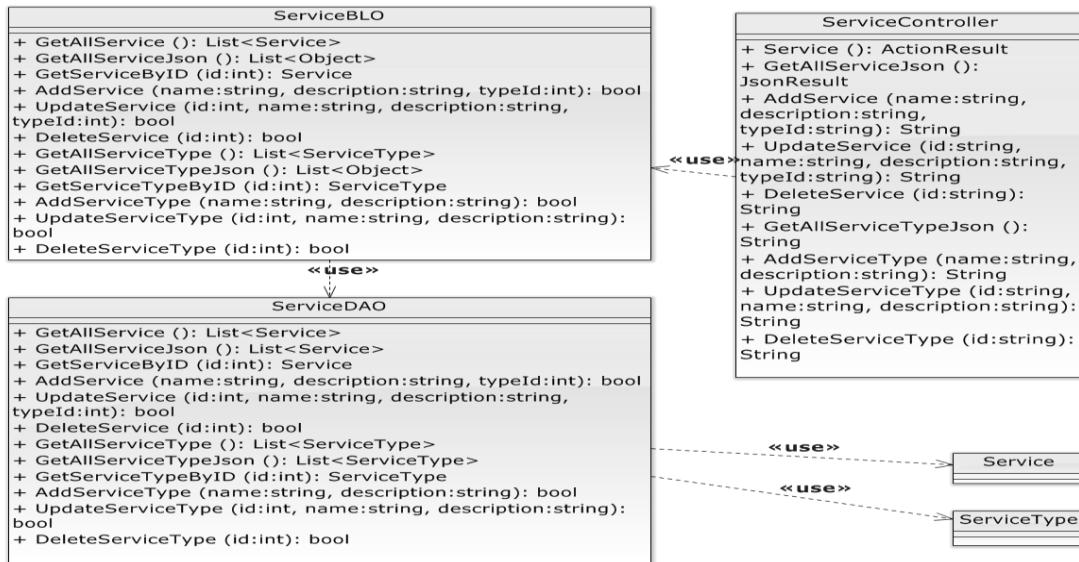


Figure 4-128: Manage service class diagram

4.3.16.1.2. Screen design

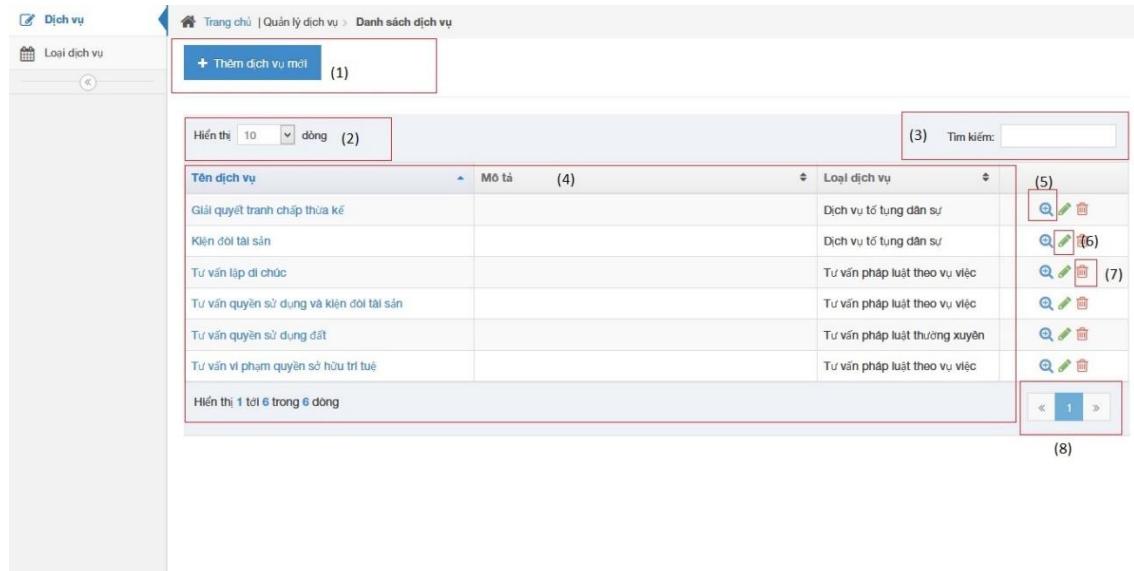


Figure 4-129: List service image

| 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

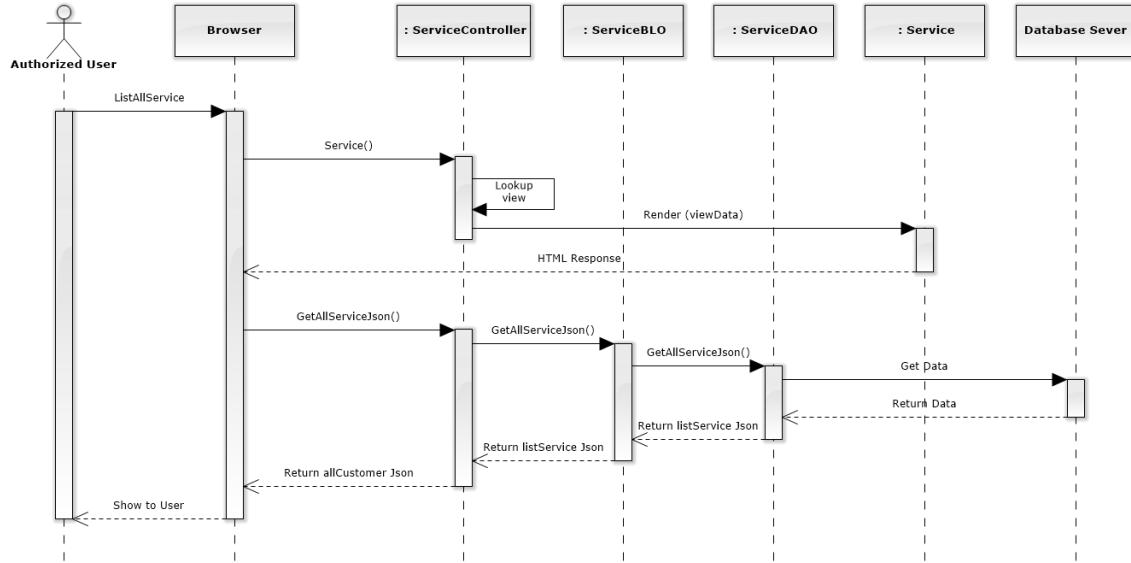


Figure 4-130: List Services Sequence Diagram

4.3.16.2. Add new service

4.3.16.2.1. Screen design

The screenshot shows a modal dialog box titled 'Thêm dịch vụ'. The form contains the following fields:

- Tên dịch vụ: * (1) - Input field for service name.
- Loại dịch vụ: * (2) - A dropdown menu for service type.
- Mô tả: (3) - A text area for description.
- Buttons at the bottom:
 - (4) Đóng (Close) button.
 - (5) Thêm mới (Add new) button, which is highlighted with a red border.

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

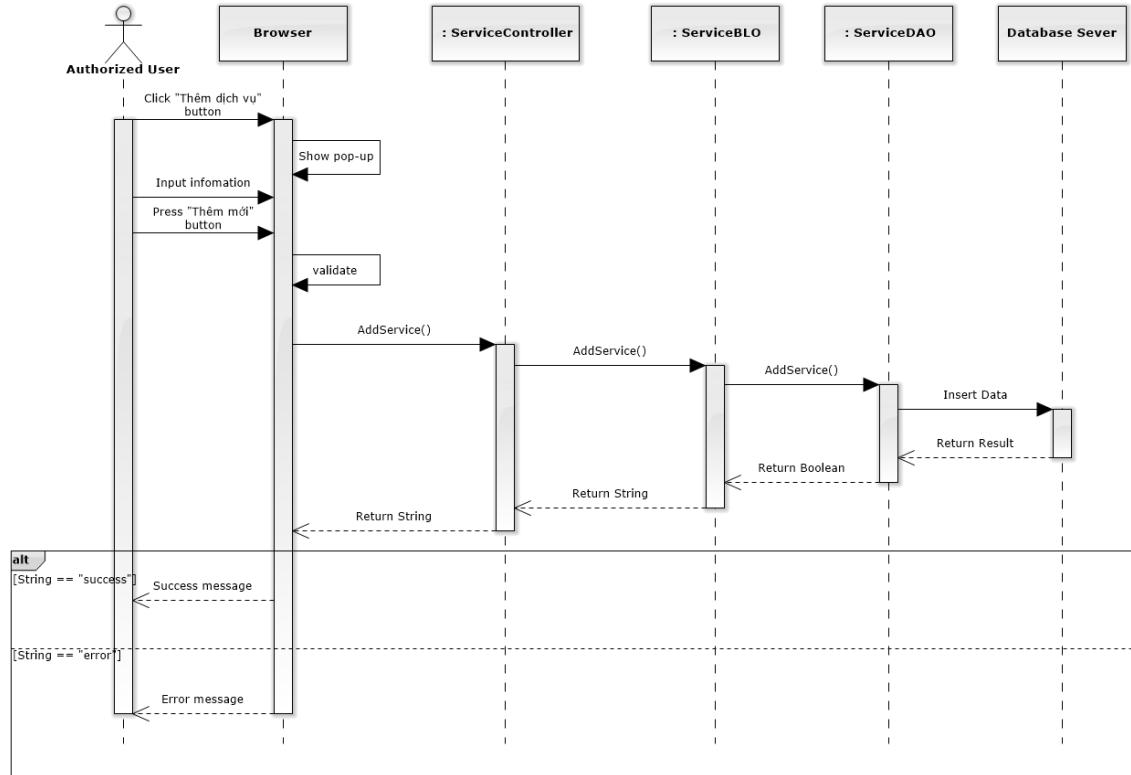


Figure 4-132: Add New Service Sequence Diagram

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 input fields for 'Tên dịch vụ:' (Service Name) with a placeholder 'Giải quyết tranh chấp thừa kế' (1) and 'Loại dịch vụ:' (Service Type) with a dropdown menu showing 'Dịch vụ tố tụng dân sự' (2). Below these are text input fields for 'Mô tả:' (Description) containing '(3)' and a note '(3)'. At the bottom left is a red-bordered button labeled 'Đóng' (Close) (4), and at the bottom right is a green-bordered button labeled 'Lưu chỉnh sửa' (Save changes) (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

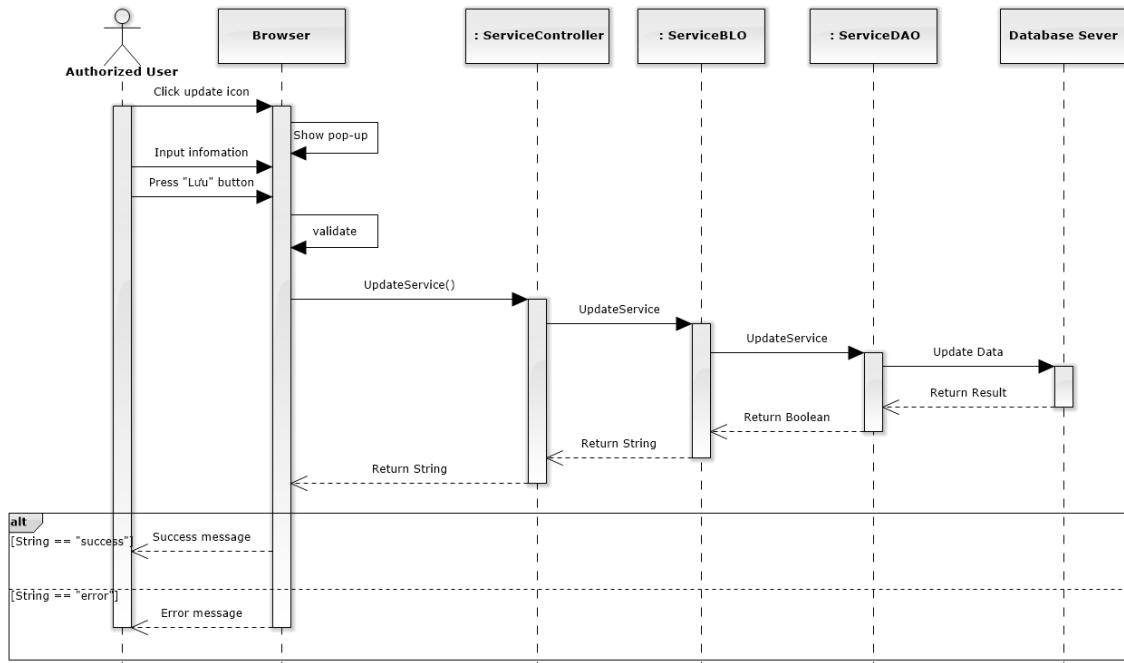


Figure 4-134: Edit Service Sequence Diagram

4.3.16.4. Delete service

4.3.16.4.1. Screen design

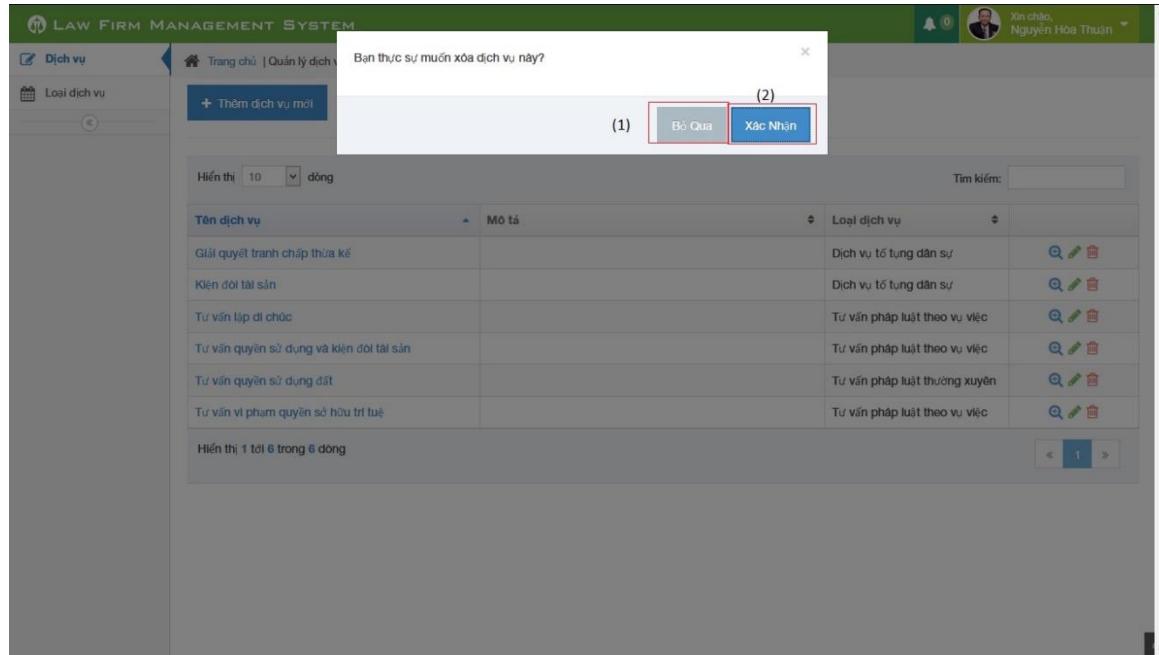


Figure 4-135: Delete service image

| 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

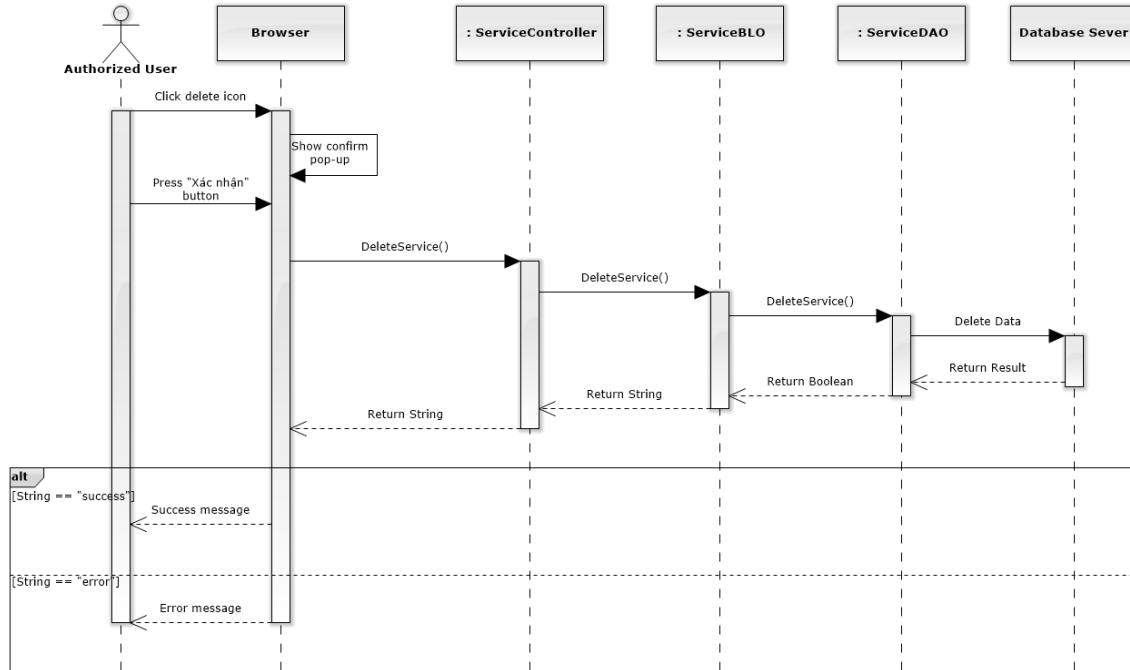


Figure 4-136: Delete Service Sequence Diagram

4.3.17. Manage Office

4.3.17.1. List offices

4.3.17.1.1. Class diagram

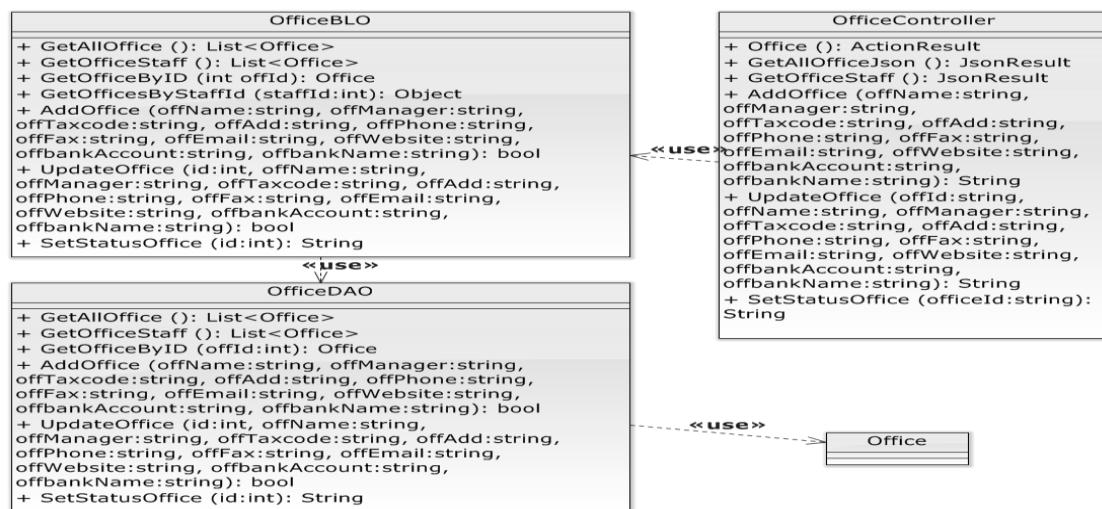


Figure 4-137: Manage office class diagram

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

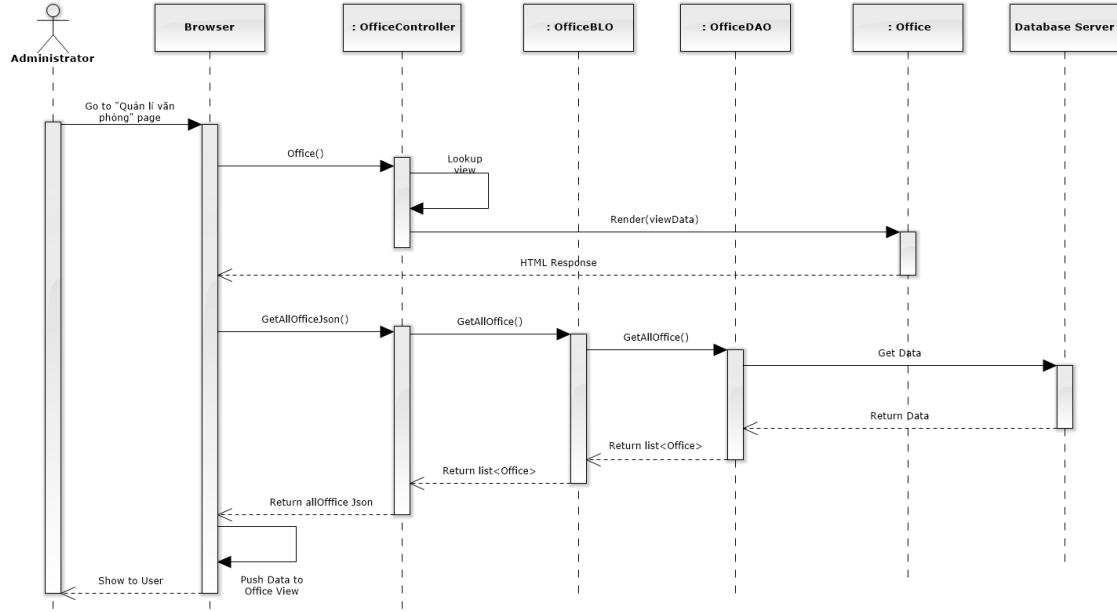


Figure 4-139: List Offices Sequence Diagram

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

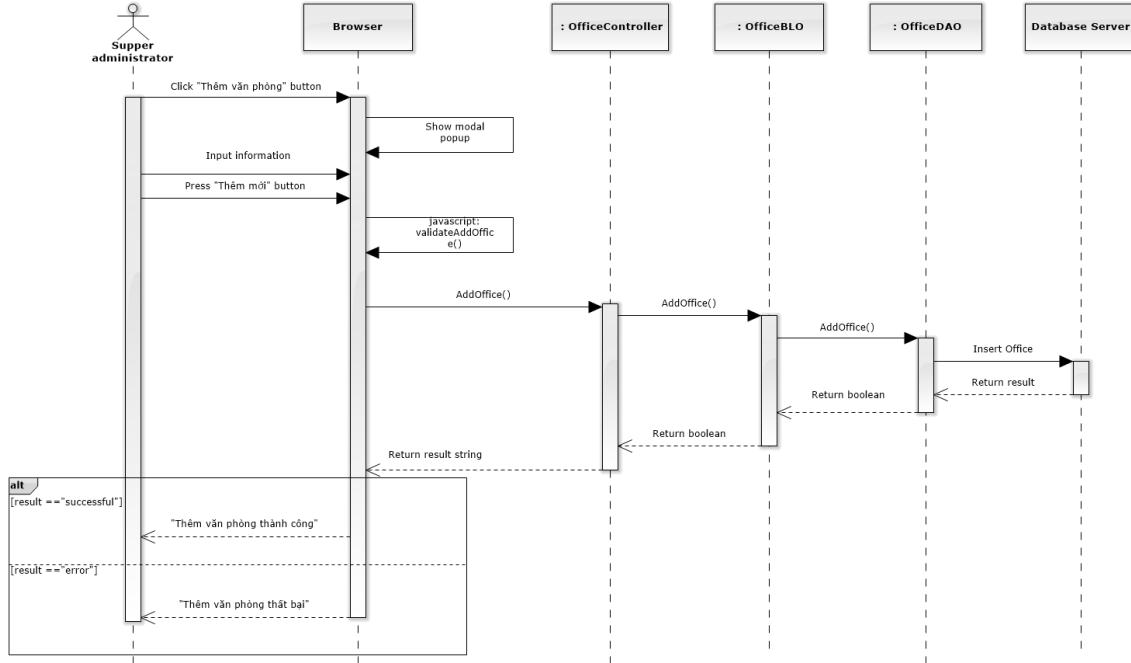


Figure 4-141: Add New Office Sequence Diagram

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

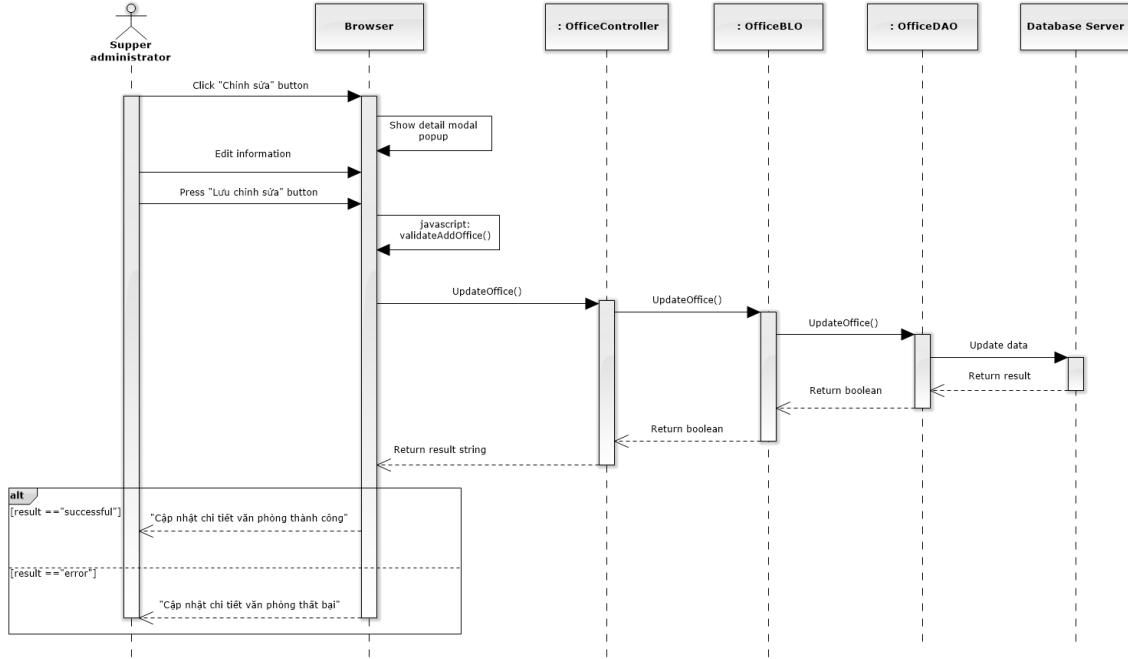


Figure 4-143: Edit Office Sequence Diagram

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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Số tài khoản

Mã số thuế

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Info@luatthuannguyen.com

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 |
|---|-----------------|------|-----|---|

4.3.17.4.2. Sequence diagram

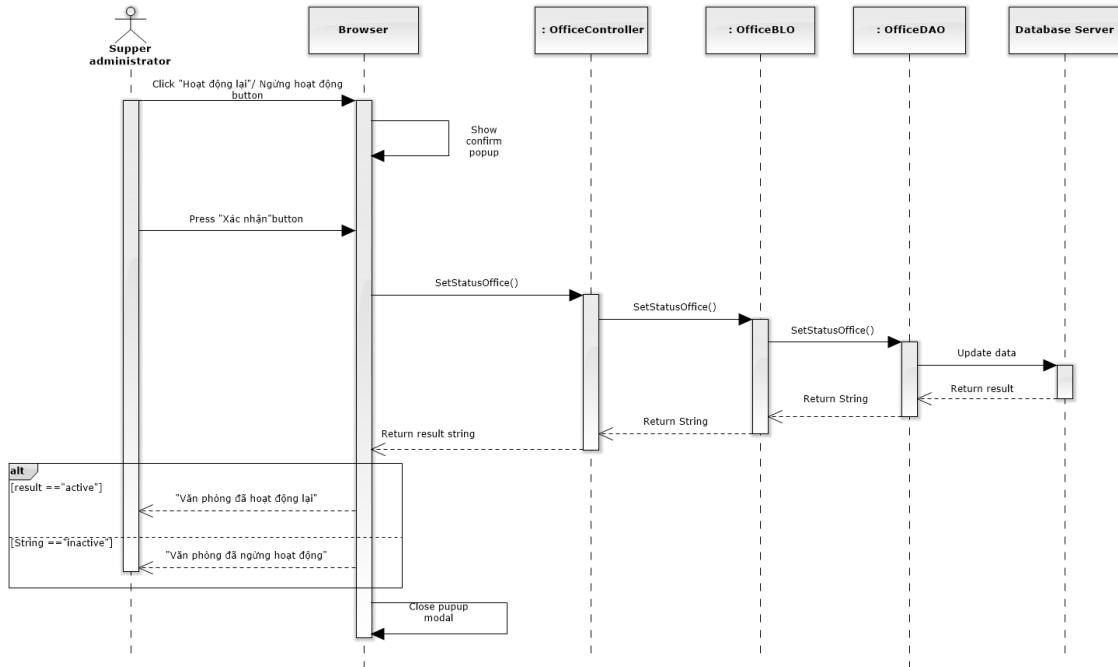


Figure 4-145: Deactivate / Activate Office Sequence Diagram

4.3.18. Statistic

4.3.18.1. Office statistic

4.3.18.1.1. Class diagram

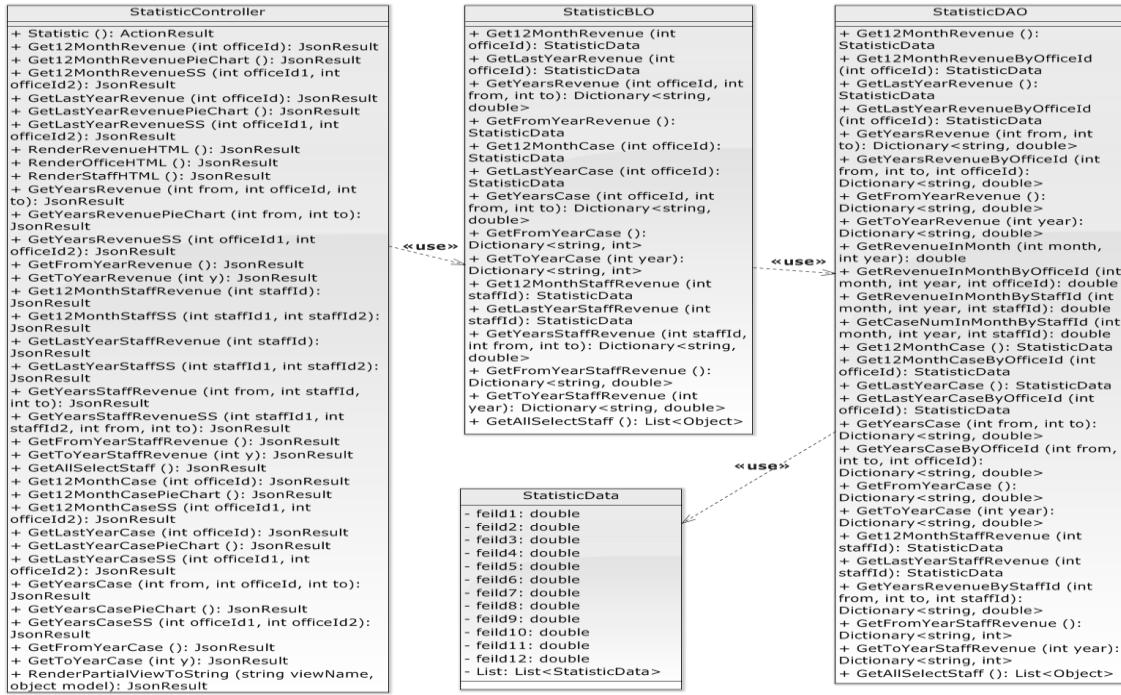


Figure 4-146: Statistic Class Diagram

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4.3.18.1.2. Screen design

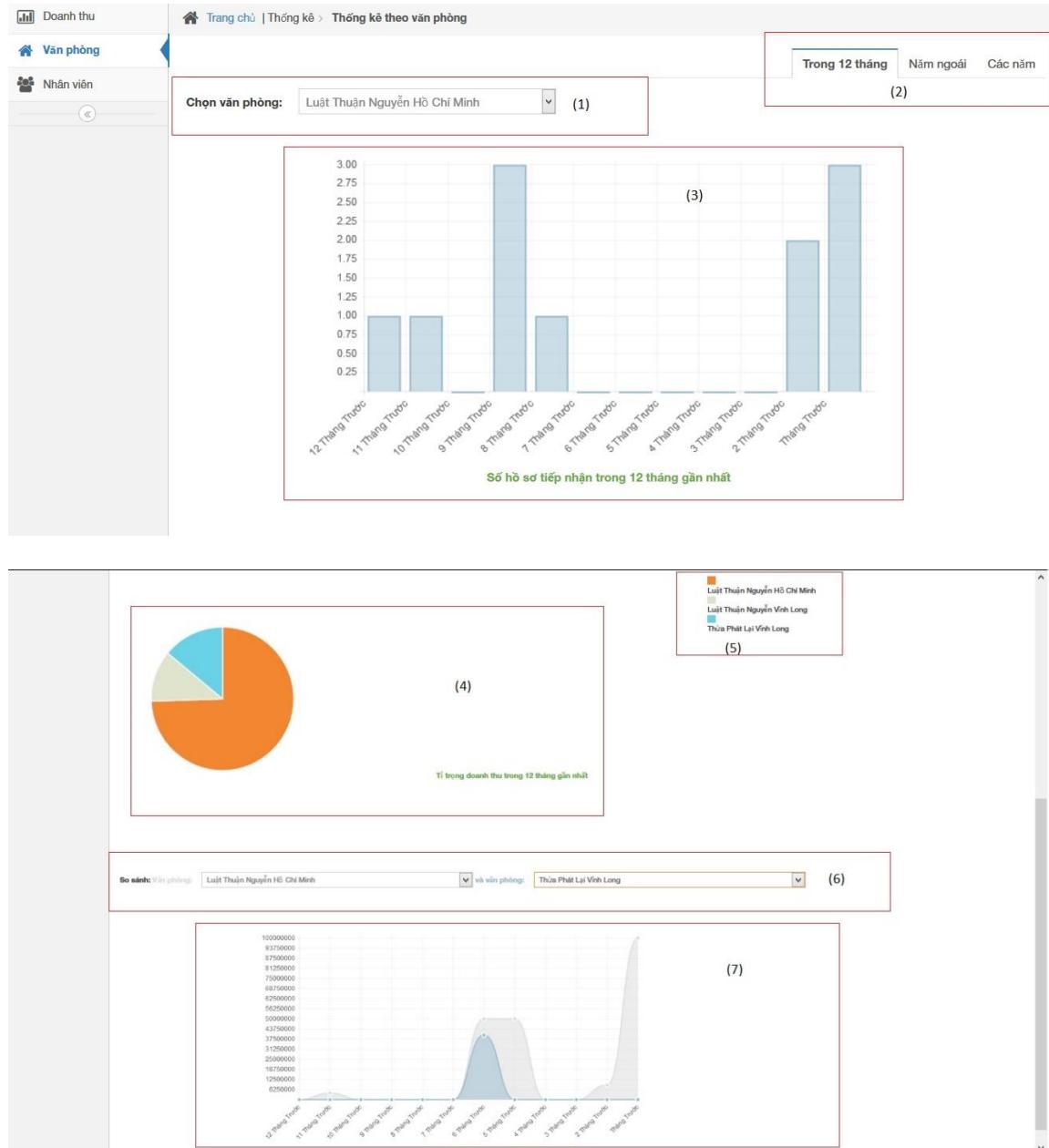


Figure 4-147: Office Statistic image

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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

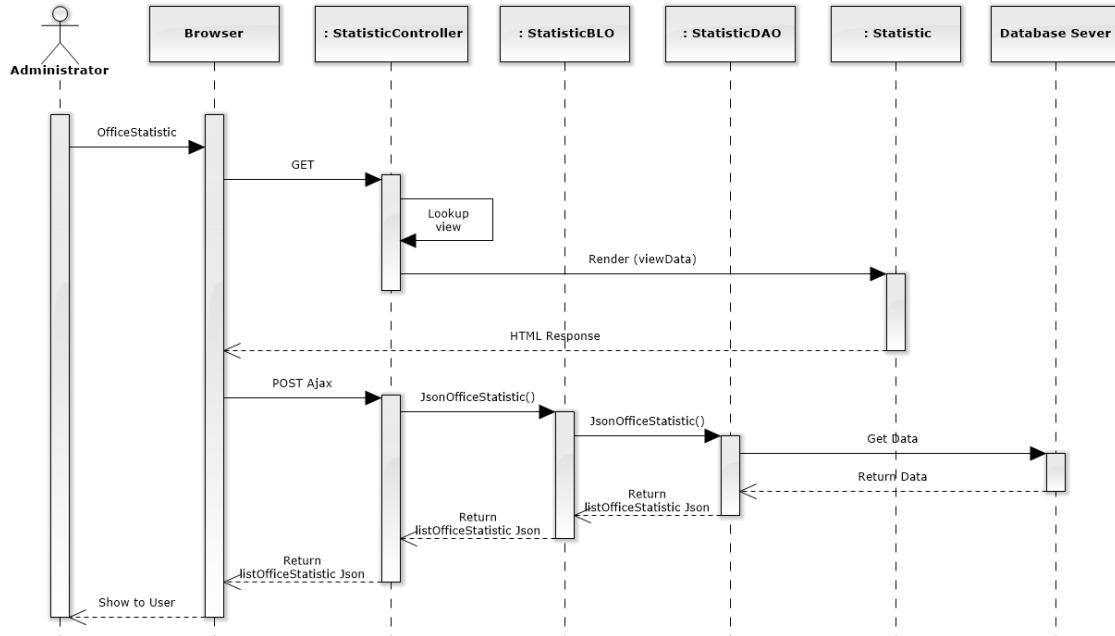


Figure 4-148: Office Statistic Sequence Diagram

4.3.18.2. Office statistic in year

4.3.18.2.1. Screen design

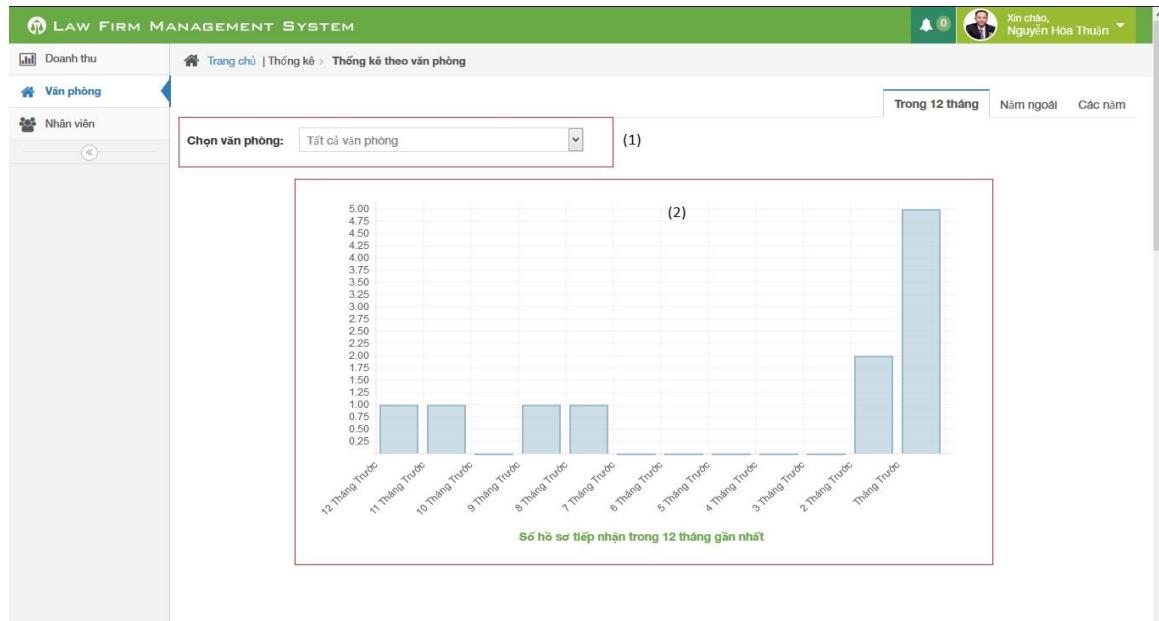


Figure 4-149: Office Statistic in year image

| 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

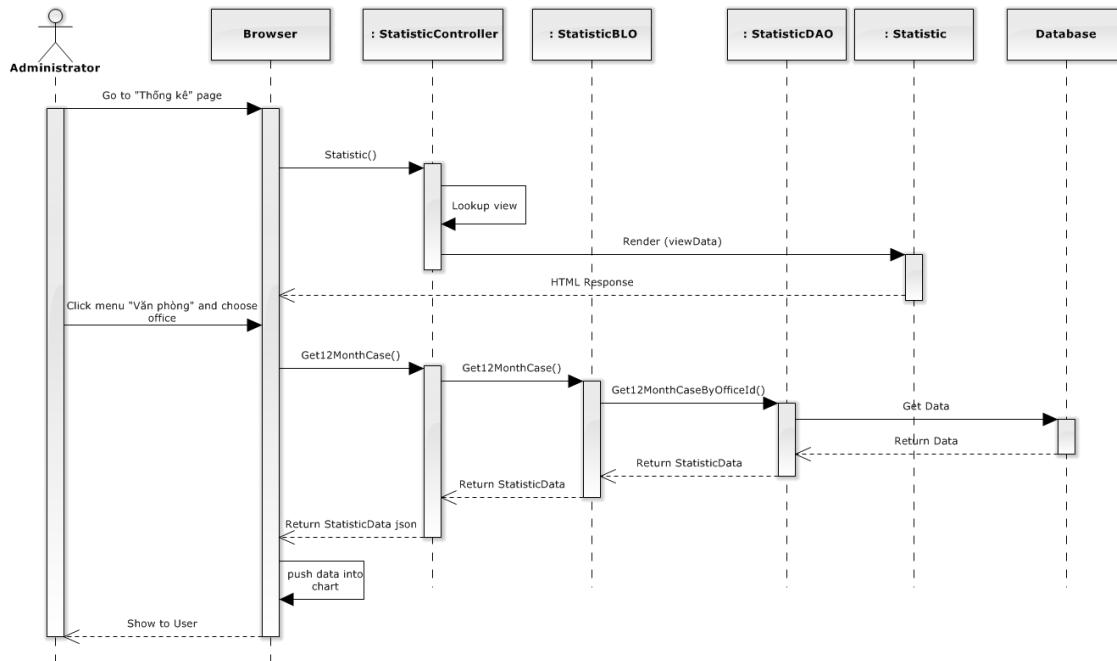


Figure 4-150: Office Statistic in year sequence diagram

4.3.18.3. Office statistic last year

4.3.18.3.1. Screen design

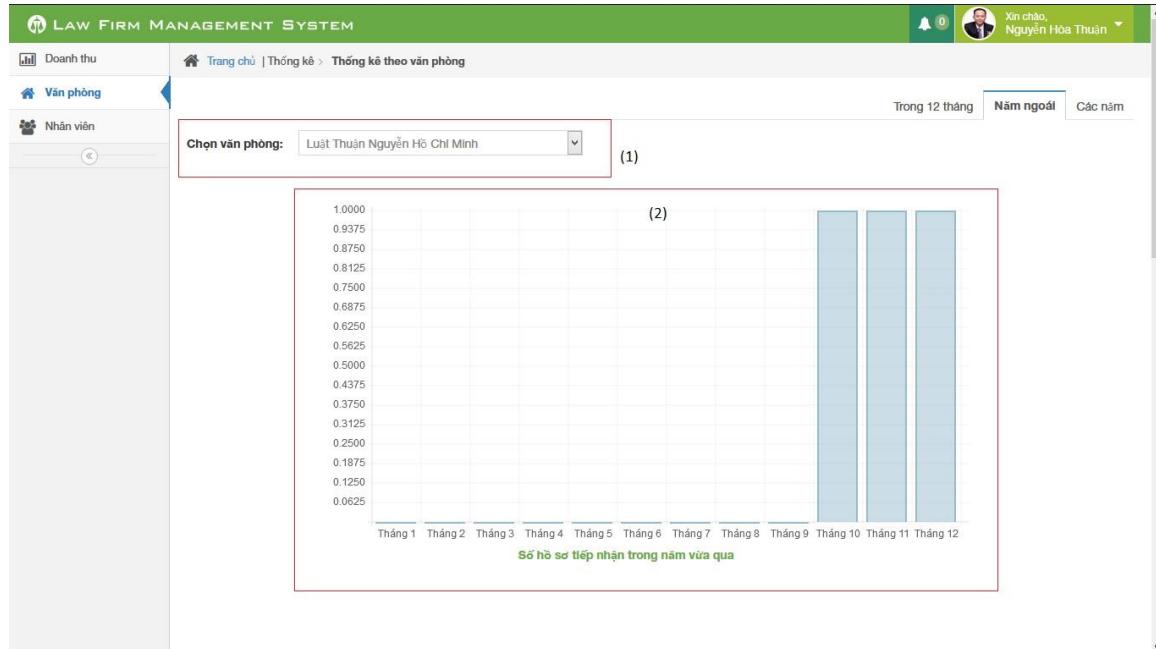


Figure 4-151: Office Statistic last year image

| 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

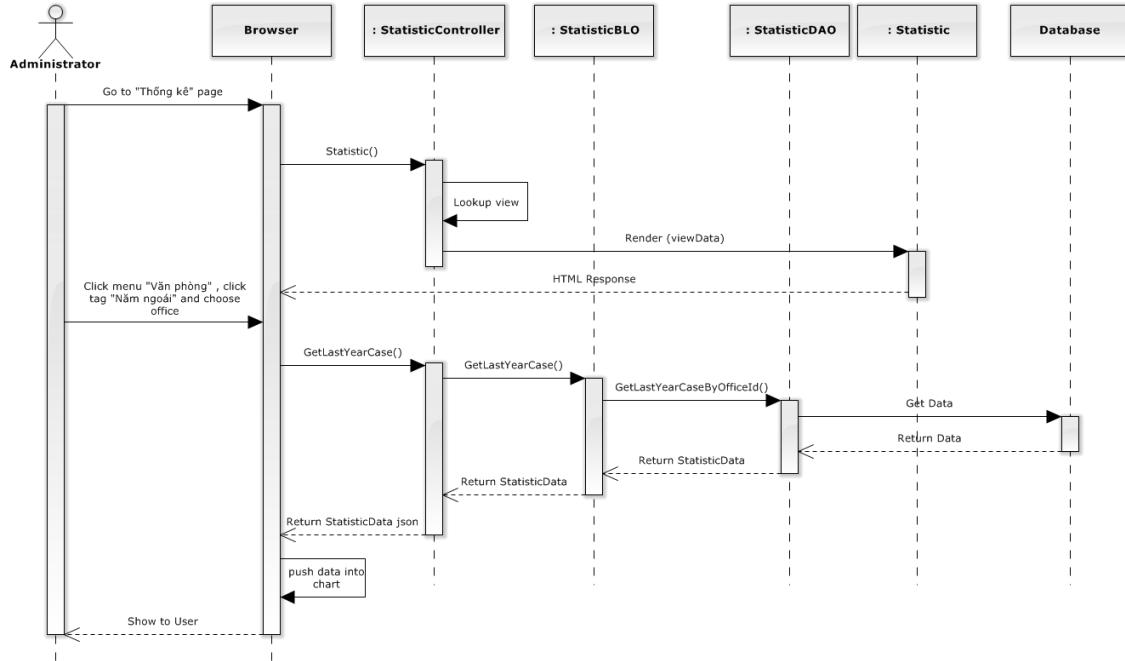


Figure 4-152: Office Statistic last year sequence diagram

4.3.18.4. Office statistic in every year

4.3.18.4.1. Screen design

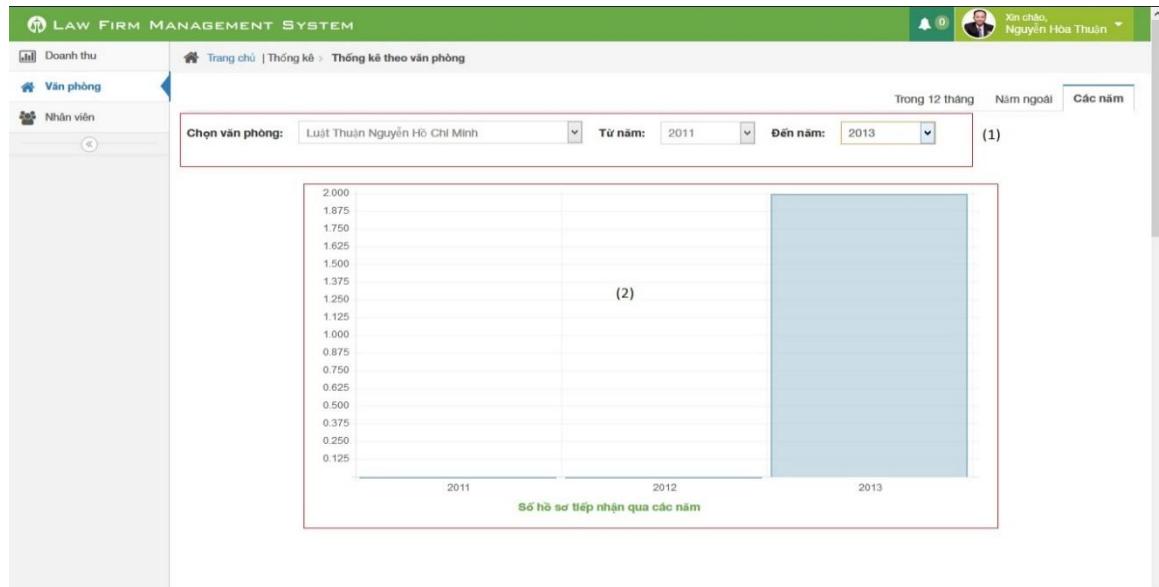


Figure 4-153: Office Statistic in every year image

| 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

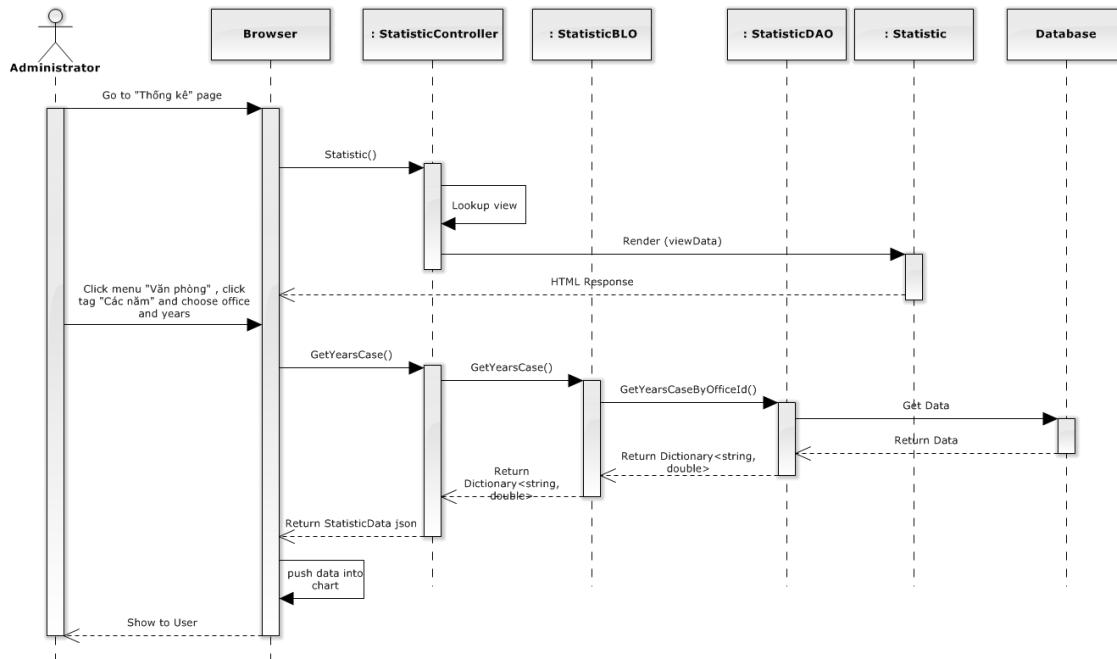


Figure 4-154: Office Statistic in every year sequence diagram

4.3.18.5. Staff statistic

4.3.18.5.1. Screen design

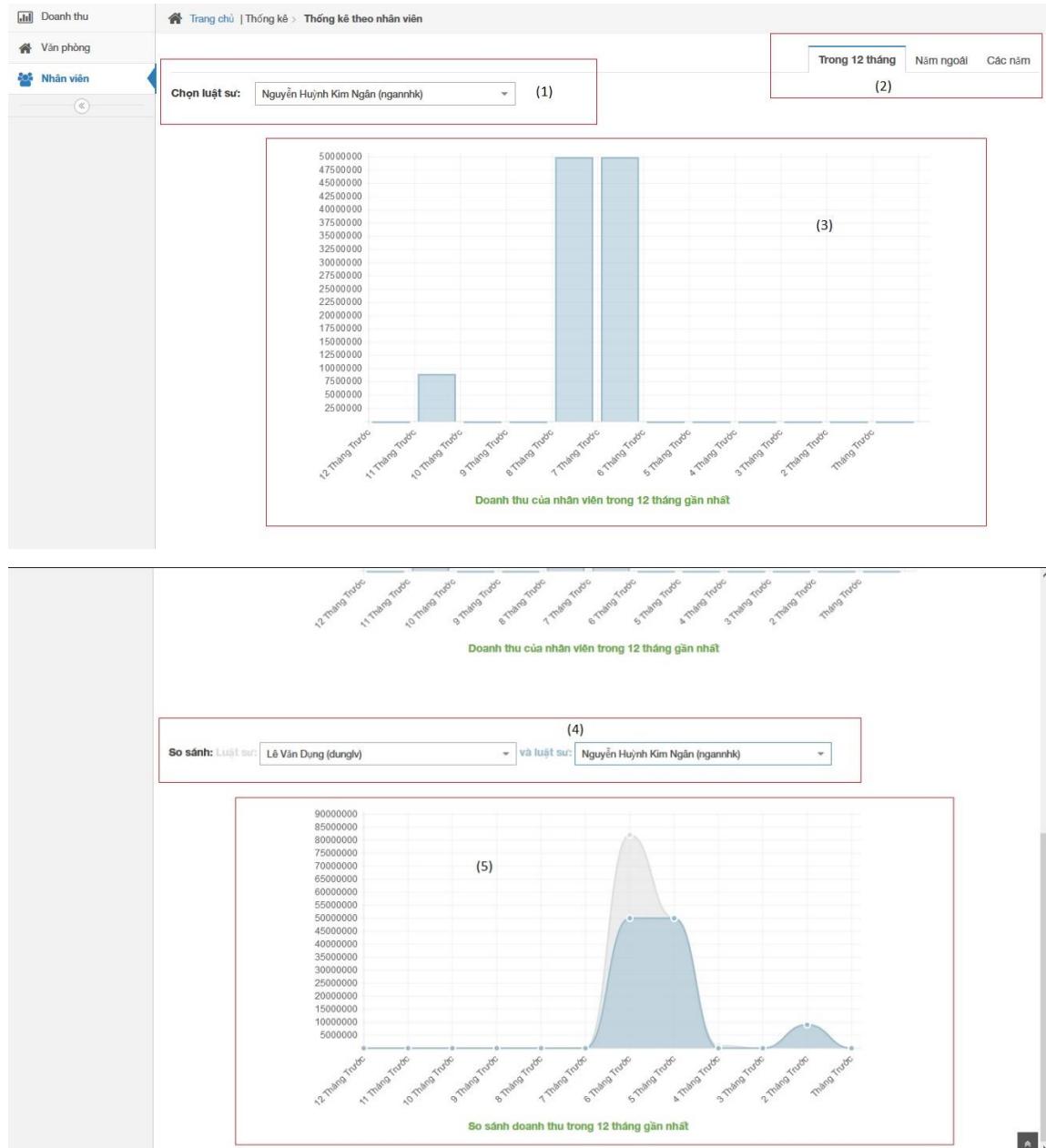


Figure 4-155: Staff Statistic image

| 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

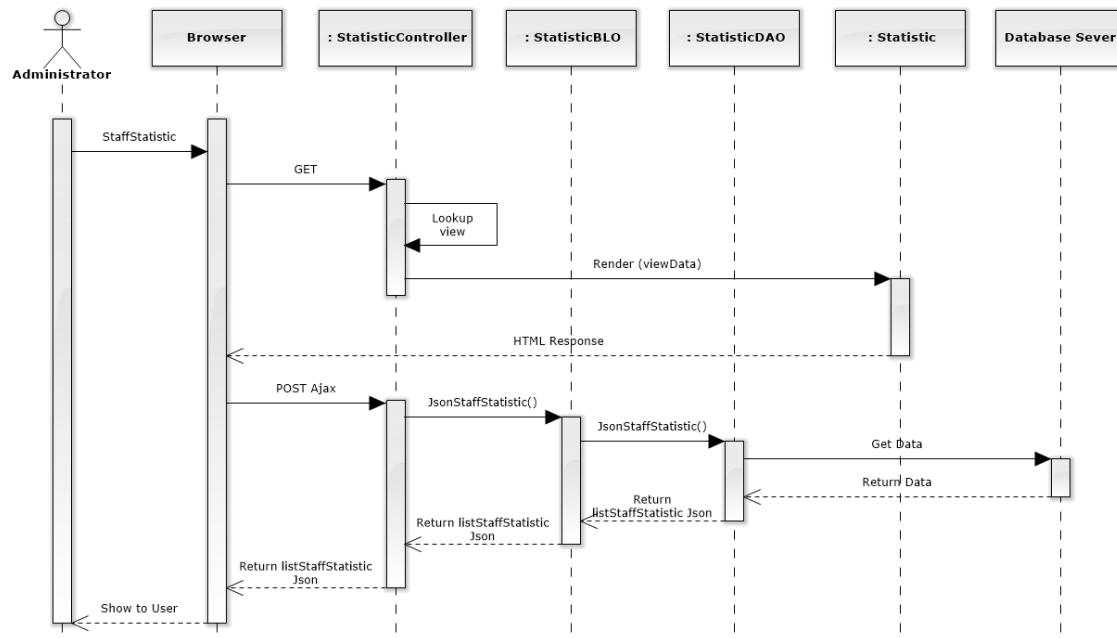


Figure 4-156: Staff Statistic Sequence Diagram

4.3.18.6. Staff statistic in year

4.3.18.6.1. Screen design

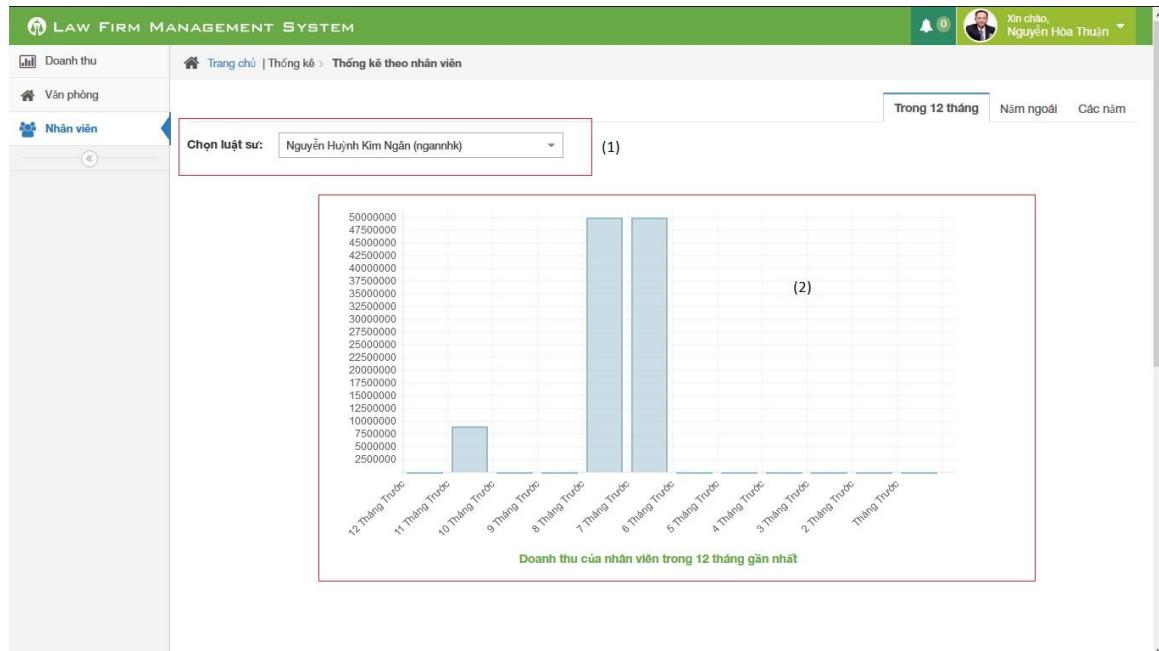


Figure 4-157: Staff Statistic in year image

| 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

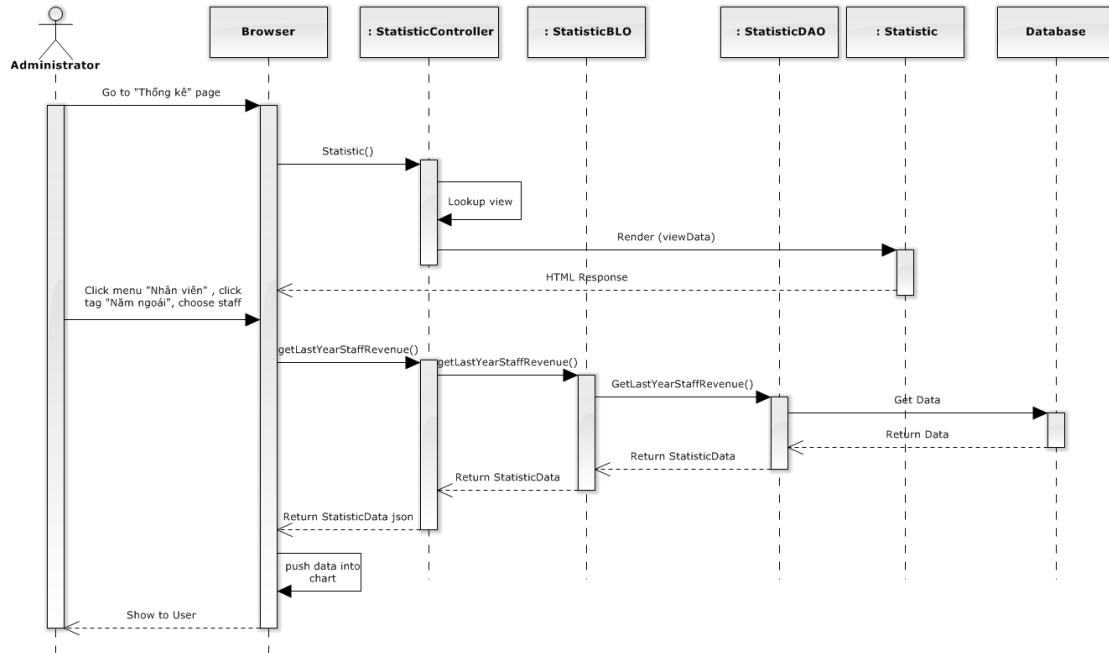


Figure 4-158: Staff Statistic in year sequence diagram

4.3.18.7. Staff statistic in last year

4.3.18.7.1. Screen design

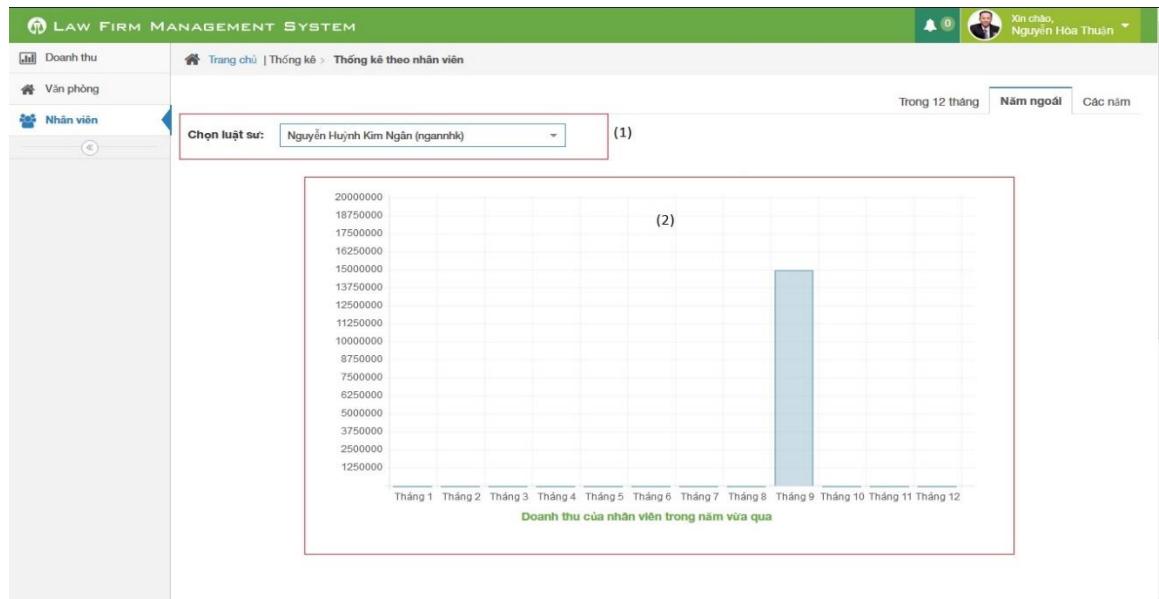


Figure 4-159: Staff Statistic in last year image

| 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

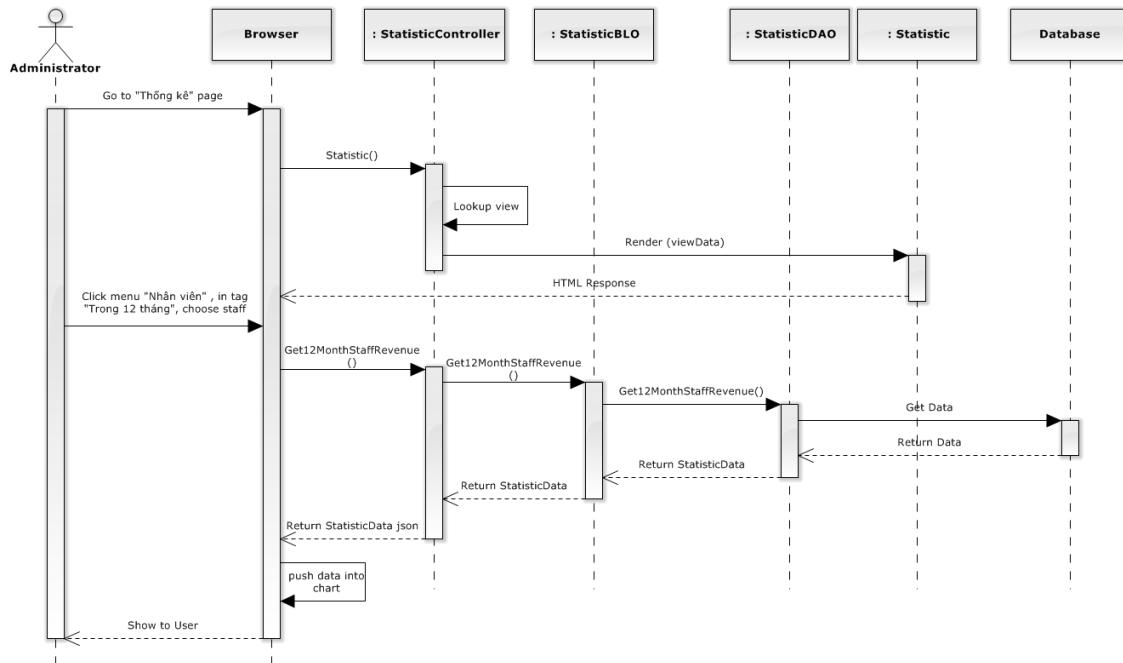


Figure 4-160: Staff Statistic in last year sequence diagram

4.3.18.8. Staff statistic in every year

4.3.18.8.1. Screen design

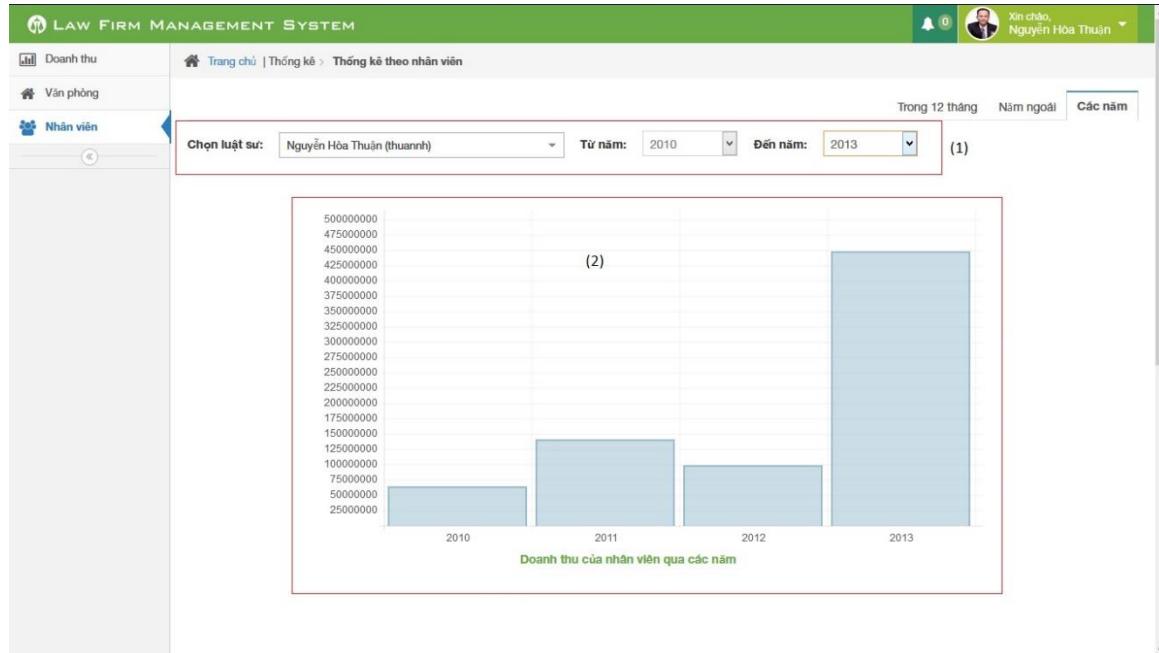


Figure 4-161: Staff Statistic in every year image

| 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

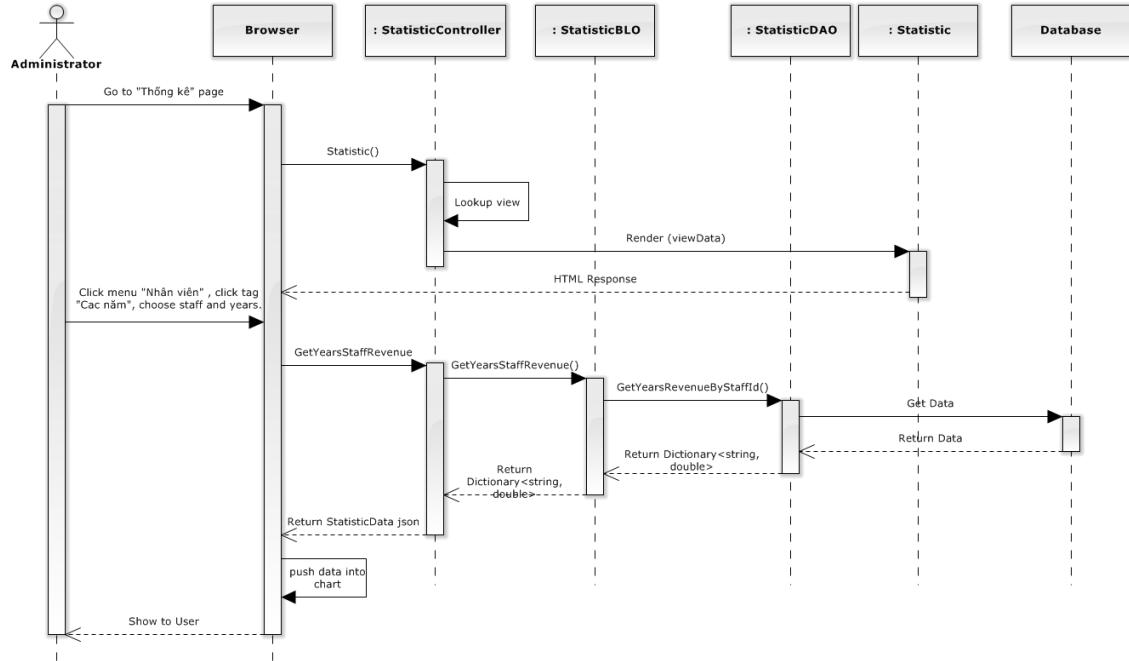


Figure 4-162: Staff Statistic in every year sequence diagram

4.3.18.9. Revenue statistic

4.3.18.9.1. Screen design

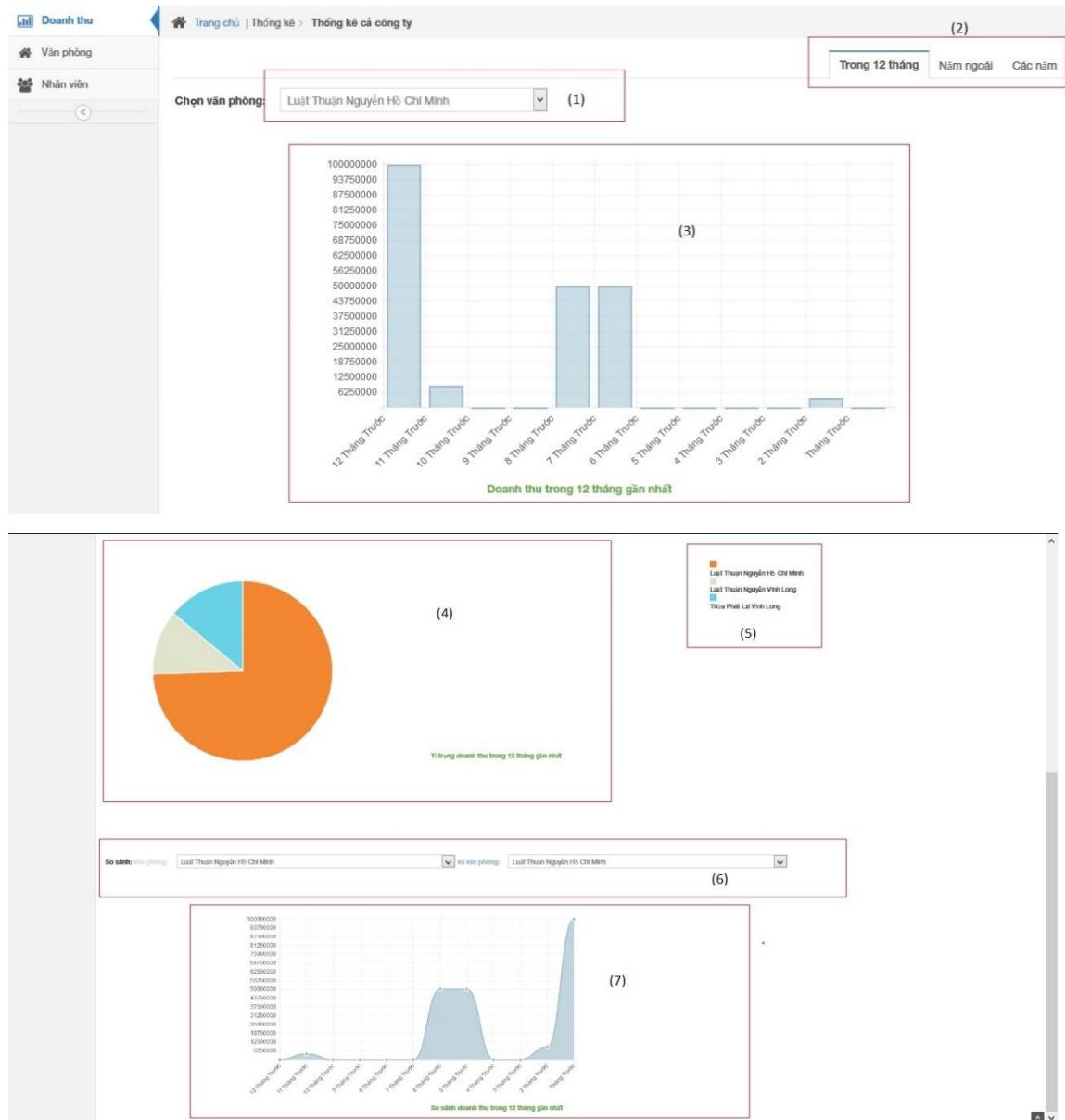


Figure 4-163: Revenue Statistic image

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 |

Capstone Project: LFMS

4.3.18.9.2. Sequence diagram

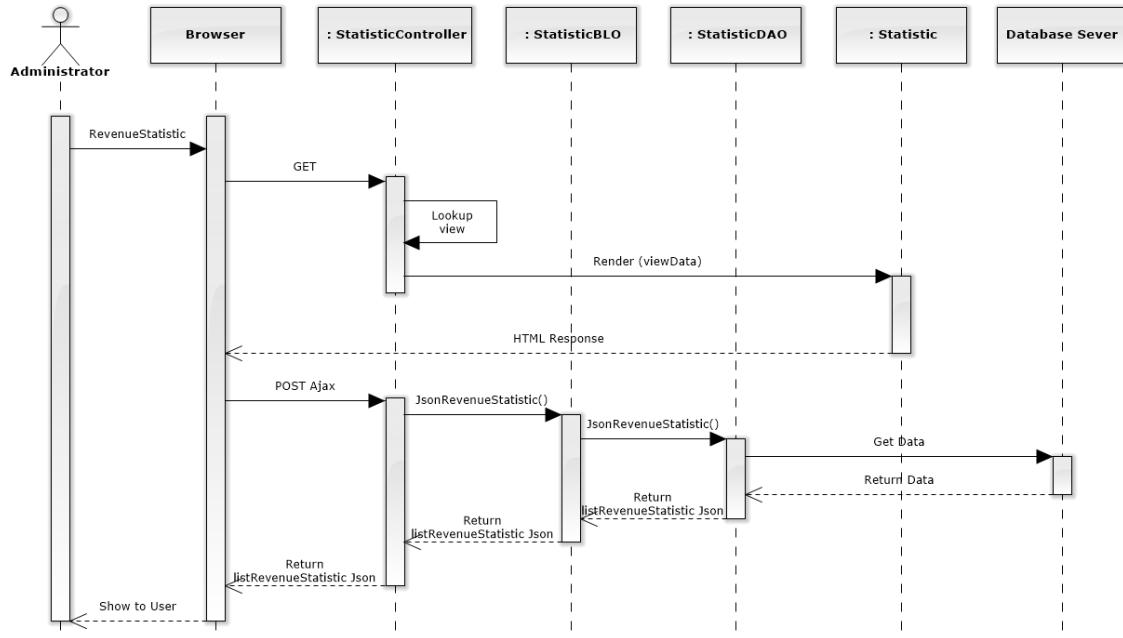


Figure 4-164: Revenue Statistic Sequence Diagram

4.3.18.10. Revenue statistic in year

4.3.18.10.1. Screen design

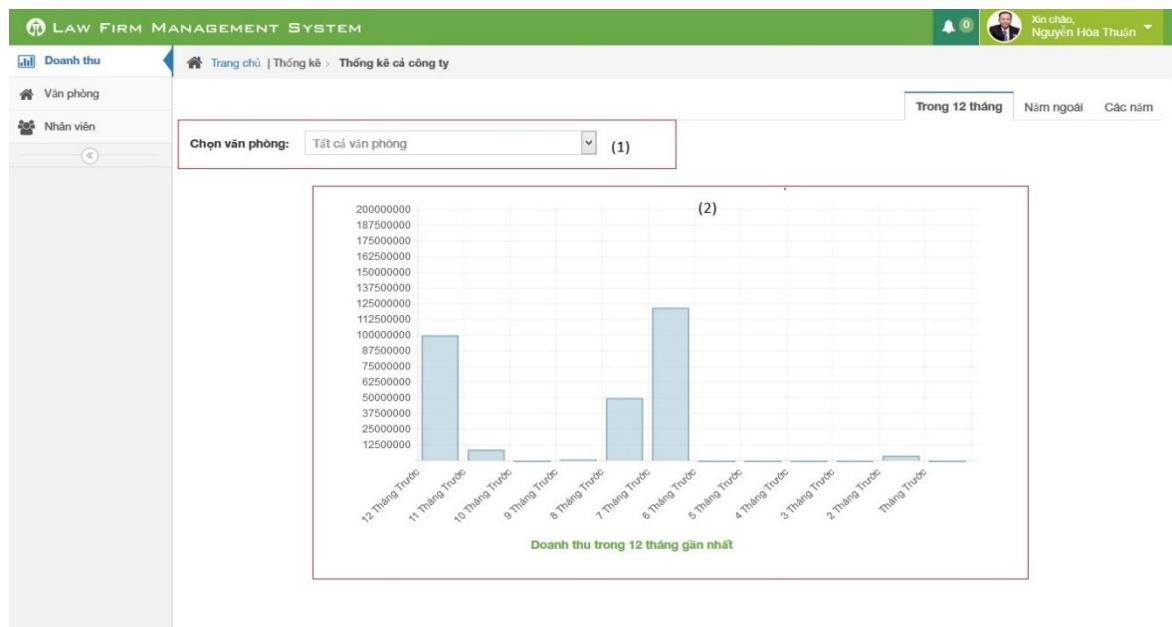


Figure 4-165: Revenue Statistic in year image

| 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

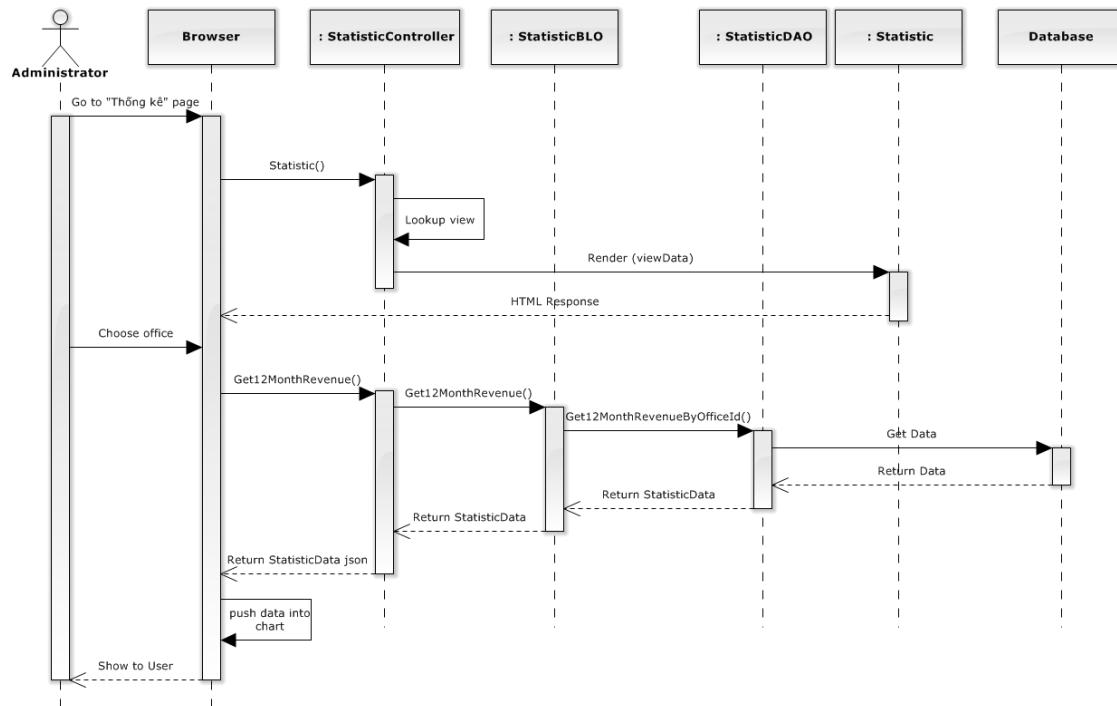


Figure 4-166: Revenue Statistic in year sequence diagram

4.3.18.11. Revenue statistic in last year

4.3.18.11.1. Screen design

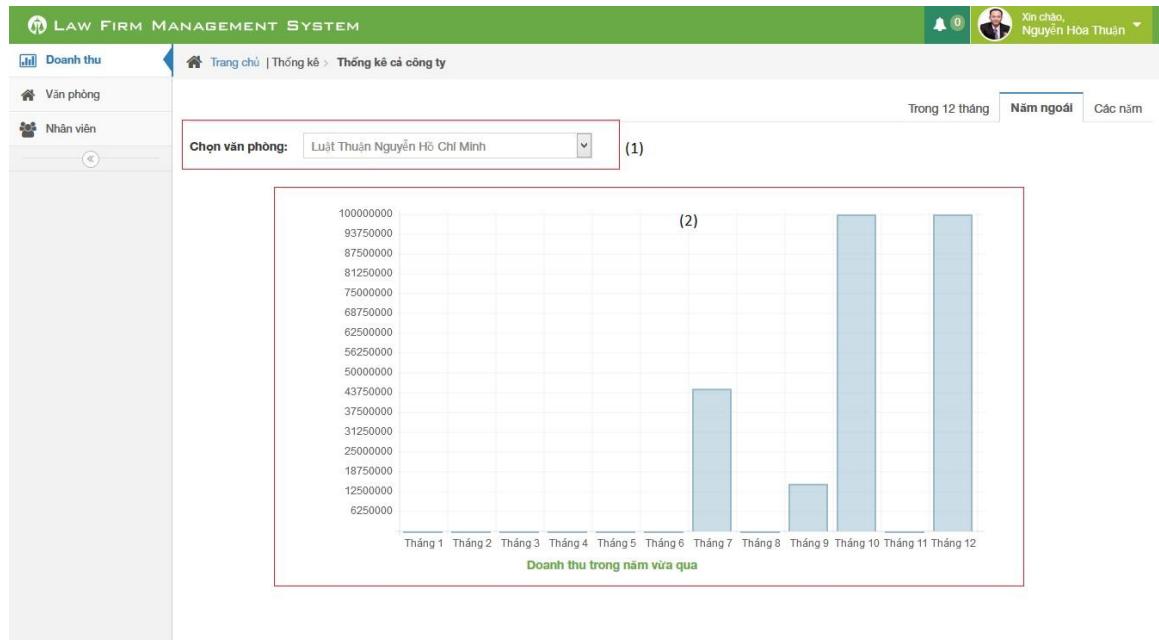


Figure 4-167: Revenue Statistic in last year image

| 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

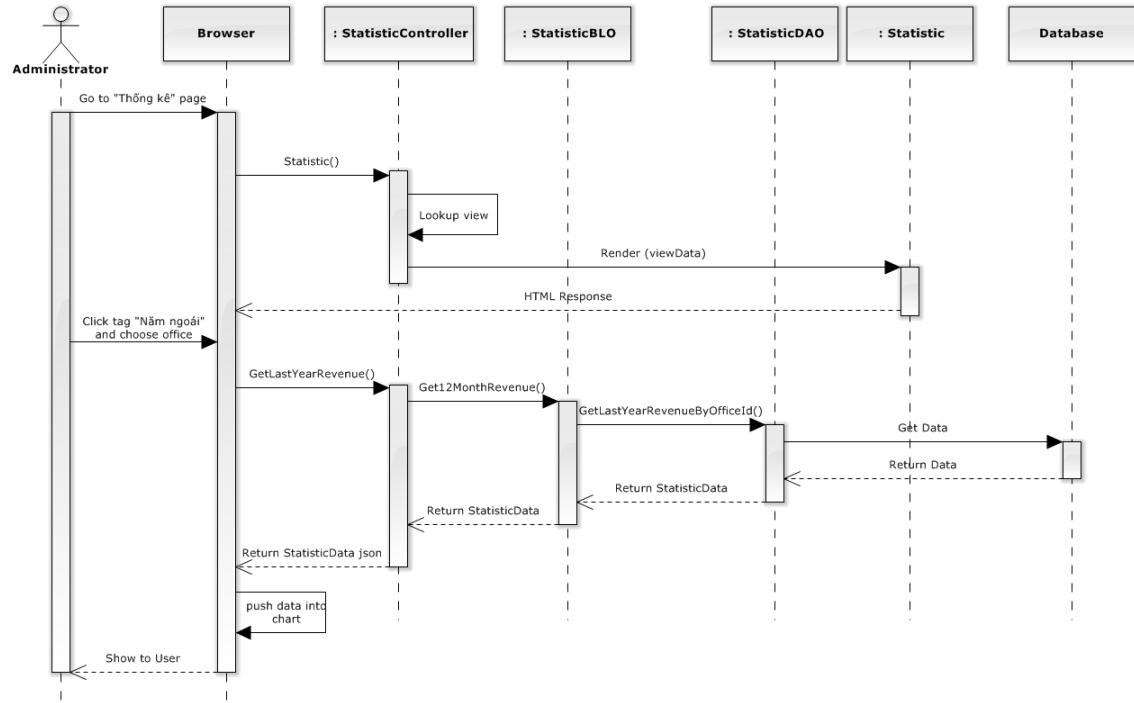


Figure 4-168: Revenue Statistic in last year sequence diagram

4.3.18.12. Revenue statistic in every year

4.3.18.12.1. Screen design

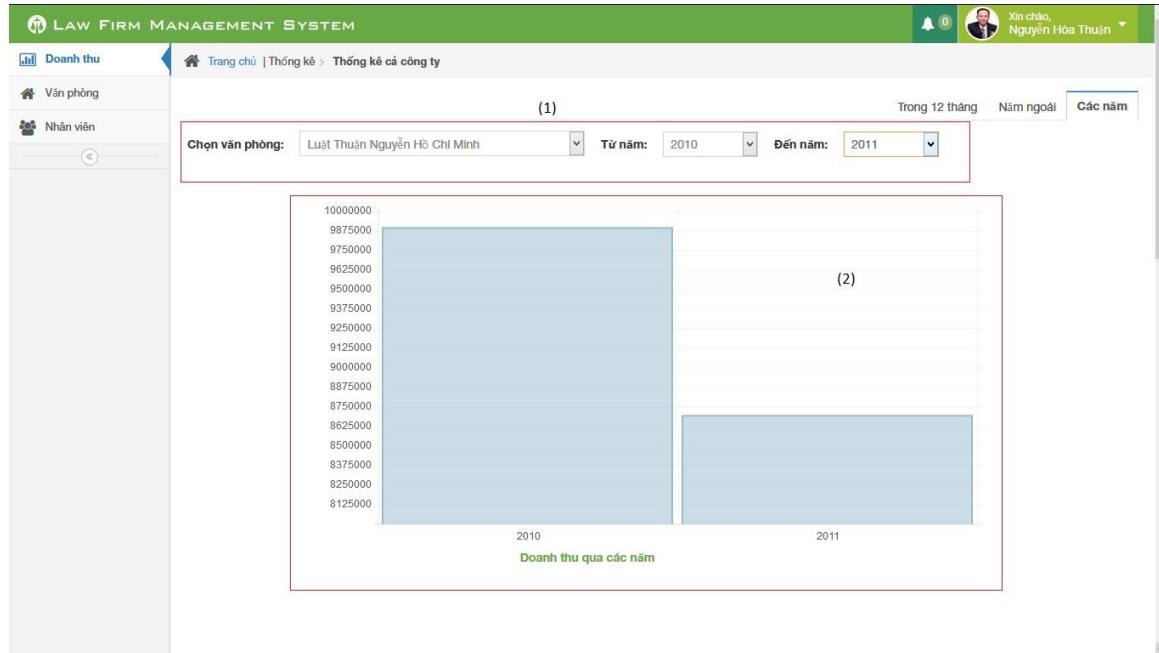


Figure 4-169: Revenue Statistic in every year image

| 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

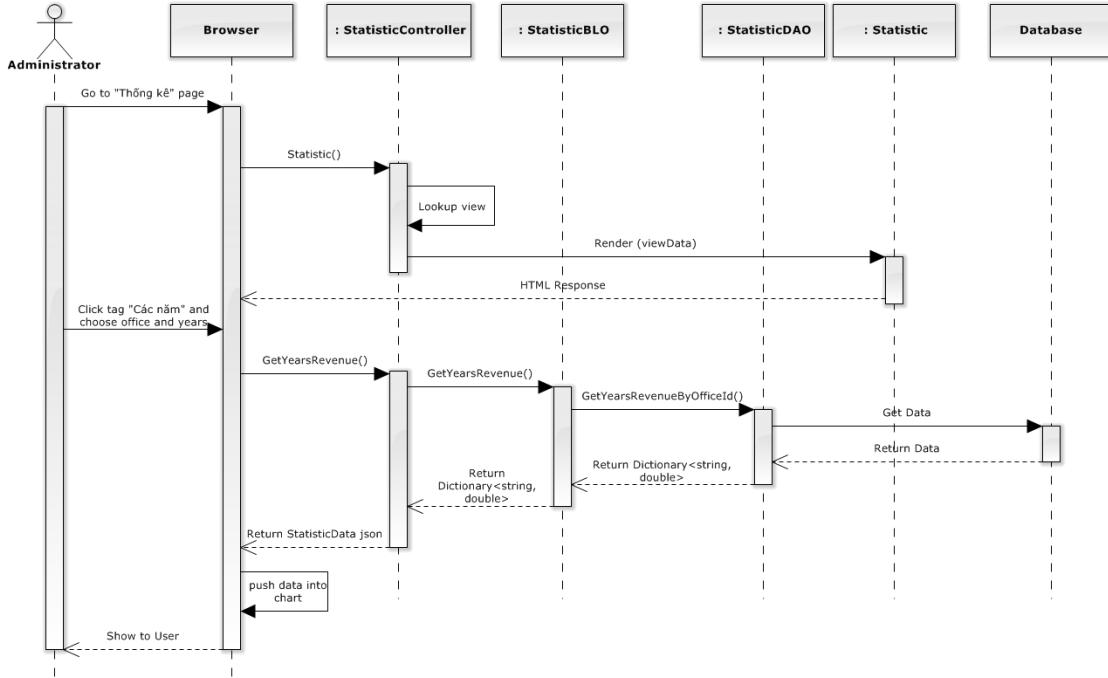


Figure 4-170: Revenue Statistic in every year sequence diagram

4.4. Database Design

4.4.1. Relational Database Diagram

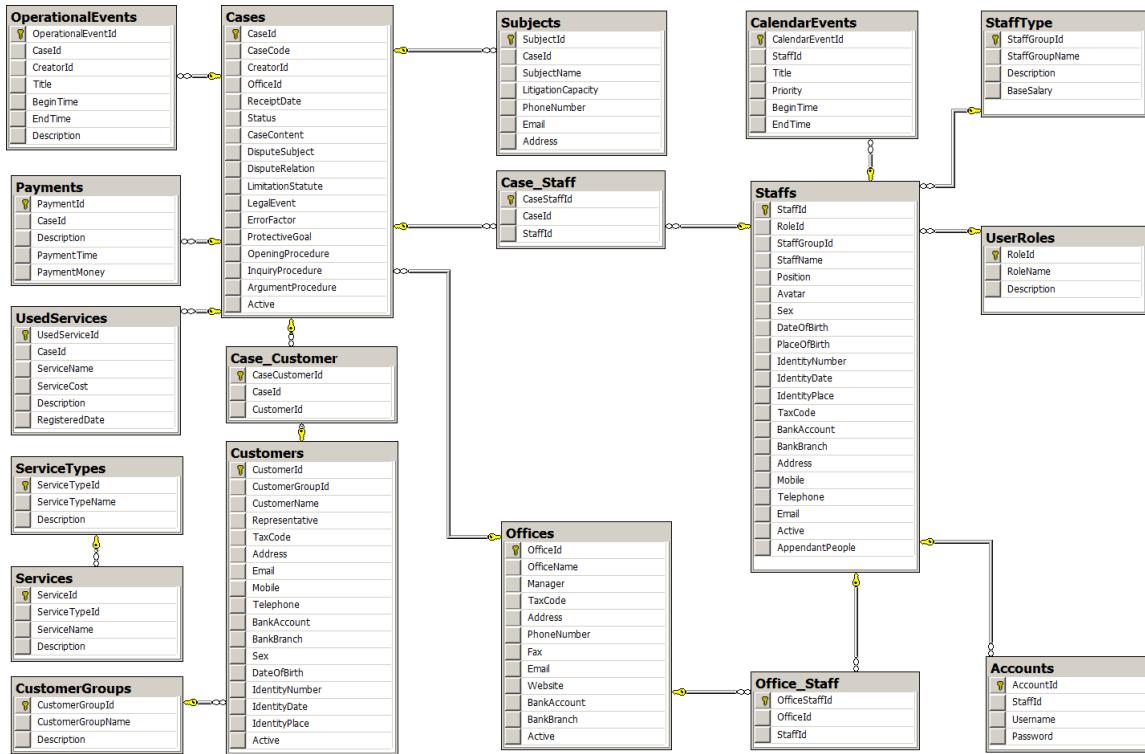


Figure 4-171: Relational Database Diagram

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 |

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

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 |
|---------|----------|--|--|--------------------|

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 |
|--------|--|---------------|

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

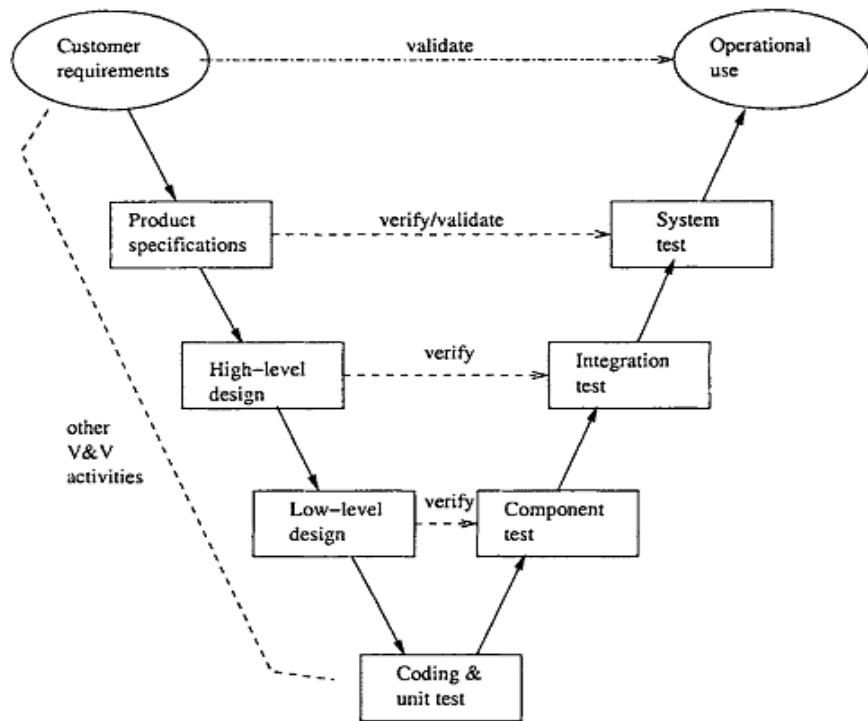


Figure 5-1: V-Model to implement testing process

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) |
|------------------------|--|

| | |
|-----------------------------|--|
| 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 | | | | | | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 | |

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|--|--|--|---|--|--|--|--|
| | | | <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> | | | |
|--|--|--|---|--|--|--|--|

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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|--|--|--|--|--|--|--|--|
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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 | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

| | | | | | | | |
|-----------|---|--|--|---|------|------------|--|
| | | | 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 | |

Capstone Project: LFMS

| | | | | | | | |
|-----------|--|--|---|---|------|----------------|--|
| | | | 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 | |

Capstone Project: LFMS

| | | | | | | | |
|-----------|--|-------|---|---|------|------------|--|
| | | | <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 | | | |
|--|--|--|---|---------------------------------------|--|--|--|

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 | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

| | | | | | | | |
|-------|------------------------------------|-----------------|--|---|------|------------|--|
| 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 | |
|-------|------------------------------------|-----------------|--|---|------|------------|--|

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 | |

Capstone Project: LFMS

| | | | | | | | |
|-------|---------------------------------|-----------------|---|--|------|------------|--|
| | | | 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 | |

Capstone Project: LFMS

| | | | | | | | |
|-------|-----------------------------------|-----------------|---|---|------|-------------|--|
| | | | 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 | |

Capstone Project: LFMS

| | | | | | | | |
|-------|-----------------------------------|-----------------|---|--|------|-------------|--|
| | | | 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 | |

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| | | | 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) | | | |
|--|--|--|-------------------|---|--|--|--|

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 | | | |
|--|--|--|---|--|--|--|--|

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) | | | |
|--|--|--|------------------------|----------------------------|--|--|--|

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 | |

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|--|--|--|---|---|--|--|
| | | | | <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: - Thời gian sự kiện (button) - Tiêu đề sự kiện (button)</p> <p>5. Popup is displayed correctly 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 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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 | | | | | | |

Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

| | | | | | |
|--|-----------------|--|--|--|--|
| | 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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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> | | | |
|--|--|--|--|---|--|--|--|

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 | |

Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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> <ul style="list-style-type: none"> - List of lawyer related (table) | | | |
|--|--|--|--|--|--|--|--|

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 | |

Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | | | |
|--|--|--|--|--|--|--|--|

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 | |

Capstone Project: LFMS

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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> | | |
|--|--|--|---|---|--|--|

Capstone Project: LFMS

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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 | |

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| | | | | <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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 “Bor 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 | |

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| | | | - 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 | |

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| | | | <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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| | | | | <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>6. Add customer</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 customer related (table) - Tạo khách hàng (button) - Tìm kiếm (dropdown list) | | |
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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) - 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 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> | | | |
|--|--|--|---|--|--|--|--|

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. | | | |
|--|--|--|--|---|--|--|--|

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> | | | |
|--|--|--|--|--|--|--|--|

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 5. Go to add new subject related component screen: - Click on “Chủ đề” tab - Click on edit icon button - Click on “Tạo chủ đề” button 6. Add new subject</p> | | |
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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 | |

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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 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: Input character is not number in</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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Capstone Project: LFMS

| | | | “Điện thoại” textbox | | | | |
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| 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 | |

Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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 | |

Capstone Project: LFMS

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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) - 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>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 | |

Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | |

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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:</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 - 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) | | |
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| | | | <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 | - 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 | 1. [User] page will be shown 2. List all cases will be shown | 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 | |

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| | | | <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 | <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 | 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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| | | | <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 | | | | | | | |
| <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 edit 4. Click on “Đổi tên” button | | | | | | | |
| ED_01 | Test edit document related component 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) - 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 | |

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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> |

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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 : 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 | |

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|--|--|--|--|--|--|
| | | | <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 | |

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|--|--|--|--|--|--|--|
| | | | | <ul style="list-style-type: none"> - Trạng thái (dropdown list) - Nội dung tranh chấp (textarea) - Đổi tương 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 | | |
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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 lõi (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: 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:</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 “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 | <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 | 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 lỗi (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 | |

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| | | | | <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 |
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| 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> | <p>1. [User] page will be shown</p> | 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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| | | | <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 | |

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| | | | | <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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| | | | <ul style="list-style-type: none"> - Click on “Thêm dịch vụ” button | <p>“Thêm dịch vụ”</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> | | | |
| 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 | |

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| | | | | <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 | |

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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 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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Capstone Project: LFMS

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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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| | | | | <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 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 validation: Input characters not numeric into “Chi phí” (textbox). Example “abcd”</p> | | |
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Capstone Project: LFMS

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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

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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 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: “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. Successful message is displayed. “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

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| 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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| | | | | <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 | | | | | | |

Capstone Project: LFMS

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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 | <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>- 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 |

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| | | | <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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Capstone Project: LFMS

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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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Capstone Project: LFMS

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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 | |

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| | | | | <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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Capstone Project: LFMS

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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 lỗi (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 | |

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| | | | | <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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| 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

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| 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

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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. 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 | | | | |

Capstone Project: LFMS

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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 | | |

Capstone Project: LFMS

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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 |

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| | | | <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 | |

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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>- 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> | | |

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| | | | | 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 | 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 screen: Click [Thêm khách hàng] button | 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] | Pass | 29/11 /2014 | |
| MA_02 | Test Add new customer screen Blank Field | Authorized User | 1. Login account as authorized user successful 2. Go to manage customer page: | 1. [User] page will be shown 2. Manage customer page will be shown | 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 | |

Capstone Project: LFMS

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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> <p>- Click on user account in right of the top.</p> <p>- Click [Quản lý khác hàng] button</p> <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 | |

Capstone Project: LFMS

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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 | |

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| | | | 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

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|-------|--|-----------------|---|--|------|-------------|--|
| 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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Capstone Project: LFMS

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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 | | | |
|--|--|--|--|---------------------|--|--|--|

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 | |

Capstone Project: LFMS

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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> | 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 | | | |
|--|--|--|--|--|--|--|--|

5.3.8.4. Edit 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. Input new information and click [Lưu chỉnh sửa] 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 | 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 |
| 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 | | | | |
|--|--|--|--|--|--|--|--|

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 | |

Capstone Project: LFMS

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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 | |
|-------|------------------------|-----------------------------------|--|--|------|-------------|--|

5.3.8.7. Reset Password

| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
|----|-----------------------|---------------|---|-----------------|--------|-----------|------|
| | Reset Password | | | | | | |
| | Steps | | <p>1. Go to Manage Staff page</p> <p>2. Choose one staff and click [Edit] button.</p> <p>3. Click “Đặt lại mật khẩu” link</p> | | | | |

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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 | |

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|--|--|--|--|--|--|--|--|
| | | | <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> | | | |
|--|--|--|--|--|--|--|--|

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 | |

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|--|--|--|----------------------------------|--|--|--|--|
| | | | - Click [Quản lý dịch vụ] button | | | | |
|--|--|--|----------------------------------|--|--|--|--|

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 | |

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|--|--|--|--|---------------------|--|--|--|
| | | | | popup will be shown | | | |
|--|--|--|--|---------------------|--|--|--|

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 | |

Capstone Project: LFMS

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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. “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 | |

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|--|--|--|---|---|--|--|--|
| | | | <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> | | | |
|--|--|--|---|---|--|--|--|

5.3.9.4. Edit Service

| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
|--|--------------------------|-------------------------|---|---|--------|-------------|------|
| Edit Service | | | | | | | |
| <p>Steps</p> <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> | | | |
|--|--|--|---|--|--|--|--|

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 Qua” 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 | |
|-------|----------------------------|-------------------------|---|--|------|-------------|--|

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 | | |

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|--|--|--|--|---|--|--|--|
| | | | <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” | | | |
|--|--|--|--|---|--|--|--|

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 | | | | |
|--|--|--|--|--|--|--|--|

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 | | | | | | | |
| | <ol style="list-style-type: none"> 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 | <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. - Click on [Thống kê] button 3. Go to view Statistics of case | <ol style="list-style-type: none"> 1. [User] page will be shown 2. Statistics page will be shown 3. Statistics of case office in | 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 | | | | |
|--|--|--|--------------------------|--|--|--|--|

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 | | | | | | | |
| | | | 1. User logged in system 2. Go to [Quản lý văn phòng] page | | | | |
| OF_01 | Test view list 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 | 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 | | | | | | | |
| | | | 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 | |

Capstone Project: LFMS

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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> | | |
|--|-----------------------------------|--|--|--|--|

Capstone Project: LFMS

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|-------|--|--------|---|--|------|-------------|--|
| 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 | |
|-------|--|--------|---|--|------|-------------|--|

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 | |

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|-------|---|-------|--|--|------|-----------|--|
| | | | <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 | 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:</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: Click on icon [Edit] button</p> <p>4. 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. 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 | | | | | |

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| | | | | | | | |
|-------|-------------------------|-------|---|---|------|-----------|--|
| 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 | |
|-------|-------------------------|-------|---|---|------|-----------|--|

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. Submission Checklist

| # | Question | Yes | No | N/A |
|---------------------------|--|-----|----|-----|
| TABLES AND FIGURES | | | | |
| 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? | | | |

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| | | | | |
|-------------------|---|--|--|--|
| 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? | | | |
| 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? | | | |

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| | | | | |
|--------------------------------|---|--|--|--|
| 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? | | | |
| 5 | Are all pages numbered in sequence, starting with the title page? | | | |
| 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? | | | |
| 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? | | | |

Capstone Project: LFMS

| | | | | |
|---------------------------------------|---|--|--|--|
| 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? | | | |

5.5. 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 |
| 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 |

| 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 | 22 | 55 |
| 2 | Logout | 1 | 0 | 0 | 0 | 22 | 0 | 27 | 50 |
| 3 | Change password | 7 | 0 | 0 | 0 | 29 | 0 | 20 | 56 |
| 4 | List calendar events | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 5 | Add new calendar event | 4 | 0 | 0 | 0 | 31 | 0 | 18 | 53 |
| 6 | Edit calendar event | 2 | 0 | 0 | 0 | 31 | 0 | 18 | 51 |

Capstone Project: LFMS

| | | | | | | | | | |
|----|-----------------------------|---|---|---|---|----|---|----|----|
| 7 | Delete calendar event | 2 | 0 | 0 | 0 | 24 | 0 | 25 | 51 |
| 8 | Search calendar event | 2 | 0 | 0 | 0 | 27 | 0 | 22 | 51 |
| 9 | List all cases | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 10 | Add new case | 7 | 0 | 0 | 0 | 31 | 0 | 18 | 56 |
| 11 | Search case | 1 | 0 | 0 | 0 | 27 | 0 | 22 | 50 |
| 12 | View Case Info | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 13 | Edit case info | 4 | 0 | 0 | 0 | 31 | 0 | 18 | 53 |
| 14 | List operation events | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 15 | View operation event detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 16 | Add new operation event | 7 | 0 | 0 | 0 | 31 | 0 | 18 | 56 |
| 17 | Edit operation event | 5 | 1 | 0 | 0 | 31 | 0 | 18 | 54 |
| 18 | Delete operation event | 2 | 0 | 0 | 0 | 24 | 0 | 25 | 51 |
| 19 | List lawyer related | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 20 | View lawyer related detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 21 | Assign lawyer related | 5 | 0 | 0 | 0 | 31 | 0 | 18 | 54 |
| 22 | Remove lawyer related | 2 | 0 | 0 | 0 | 24 | 0 | 25 | 51 |
| 23 | Search lawyer related | 2 | 1 | 0 | 0 | 25 | 0 | 24 | 51 |

Capstone Project: LFMS

| | | | | | | | | | |
|----|------------------------------|---|---|---|---|----|---|----|----|
| 24 | List customers related | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 25 | View customer related detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 26 | Add customer related | 5 | 0 | 0 | 0 | 31 | 0 | 18 | 54 |
| 27 | Remove customer related | 2 | 0 | 0 | 0 | 24 | 0 | 25 | 51 |
| 28 | Search customer related | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 29 | List subjects related | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 30 | Add new subject related | 7 | 0 | 0 | 0 | 31 | 0 | 18 | 56 |
| 31 | Edit subject related | 7 | 0 | 0 | 0 | 31 | 0 | 18 | 56 |
| 32 | Delete subject related | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |
| 33 | View Document Related | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 34 | View Document Related Detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 35 | Upload Document Related | 4 | 0 | 0 | 0 | 31 | 0 | 18 | 53 |
| 36 | Edit Document Related | 5 | 0 | 0 | 0 | 31 | 0 | 18 | 54 |
| 37 | Delete Document Related | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |

Capstone Project: LFMS

| | | | | | | | | | |
|----|-------------------------|---|---|---|---|----|---|----|----|
| 38 | Search Document Related | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 39 | View User Services | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 40 | Add New User Services | 5 | 0 | 0 | 0 | 31 | 0 | 18 | 54 |
| 41 | Edit User Service | 5 | 0 | 0 | 0 | 31 | 0 | 18 | 54 |
| 42 | Delete User Service | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |
| 43 | View Payments | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 44 | Add New Payment | 5 | 0 | 0 | 0 | 31 | 0 | 18 | 54 |
| 45 | Edit Payment | 5 | 0 | 0 | 0 | 31 | 0 | 28 | 54 |
| 46 | Delete Payment | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |
| 47 | List customers | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 48 | View customer detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 49 | Add new customer | 7 | 0 | 0 | 0 | 31 | 0 | 18 | 56 |
| 50 | Edit customer | 6 | 0 | 0 | 0 | 31 | 0 | 18 | 55 |
| 51 | Delete customer | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |
| 52 | Search customer | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 53 | List staffs | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 54 | View staff detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |

Capstone Project: LFMS

| | | | | | | | | | |
|----|--|---|---|---|---|----|---|----|----|
| 55 | Add new staff | 9 | 0 | 0 | 0 | 31 | 0 | 18 | 58 |
| 56 | Edit staff | 6 | 0 | 0 | 0 | 31 | 0 | 18 | 55 |
| 57 | Deactive/Active staff | 2 | 0 | 0 | 0 | 24 | 0 | 25 | 51 |
| 58 | Search staff | 2 | 1 | 0 | 0 | 25 | 0 | 24 | 51 |
| 59 | Reset password | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |
| 60 | List services | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 61 | View service detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 62 | Add new service | 4 | 0 | 0 | 0 | 31 | 0 | 18 | 53 |
| 63 | Edit service | 4 | 1 | 0 | 0 | 31 | 0 | 18 | 53 |
| 64 | Delete service | 3 | 0 | 0 | 0 | 24 | 0 | 25 | 52 |
| 65 | Search service | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 66 | Statistics of revenue by office | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 67 | Statistics of number of case by office | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 68 | Statistics of revenue by staff | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| 69 | List offices | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 50 |
| 70 | View office detail | 1 | 0 | 0 | 0 | 25 | 0 | 24 | 40 |
| 71 | Add new office | 6 | 0 | 0 | 0 | 31 | 0 | 18 | 55 |

Capstone Project: LFMS

| | | | | | | | | | |
|----|---------------------------------|-------|---|---|---|------|---|------|------|
| 72 | Edit office | 5 | 1 | 0 | 0 | 31 | 0 | 18 | 54 |
| 73 | Deactive/Active office | 2 | 0 | 0 | 0 | 24 | 0 | 25 | 51 |
| 74 | Search office | 2 | 0 | 0 | 0 | 25 | 0 | 24 | 51 |
| | Total | 218 | 5 | 0 | 0 | 1888 | 0 | 1738 | 3849 |
| | Test coverage | 100% | | | | | | | |
| | Test successful coverage | 99,8% | | | | | | | |

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

Capstone Project: LFMS

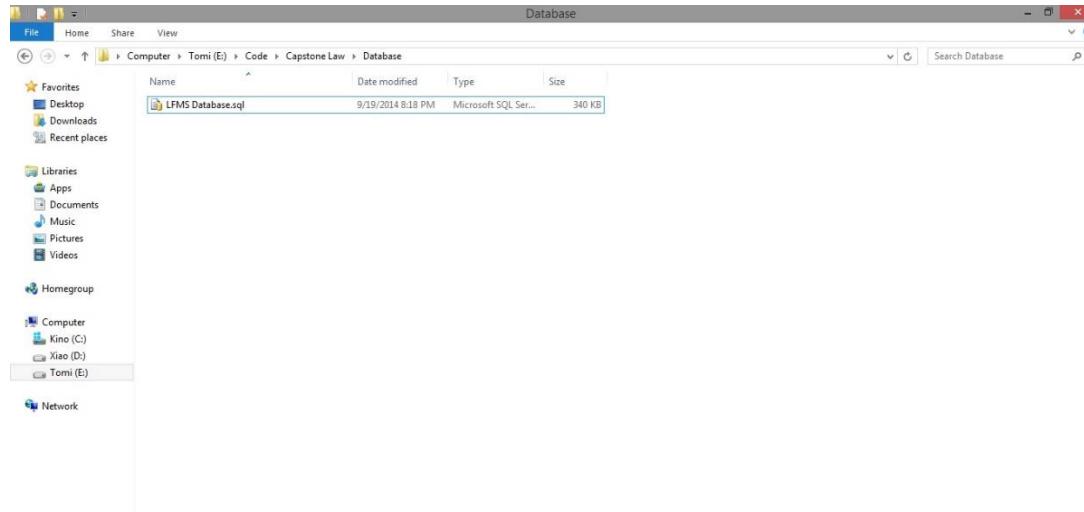


Figure 6-1: Prepare Database

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.

A screenshot of Microsoft SQL Server Management Studio (SSMS). The title bar says 'Microsoft SQL Server Management Studio'. The main window shows a script editor with the following SQL code:

```
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
```

The status bar at the bottom of the SSMS window shows 'Connected. (1/1)' and 'KHIEMDNSE60595SQLEXPRESS (... | 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.

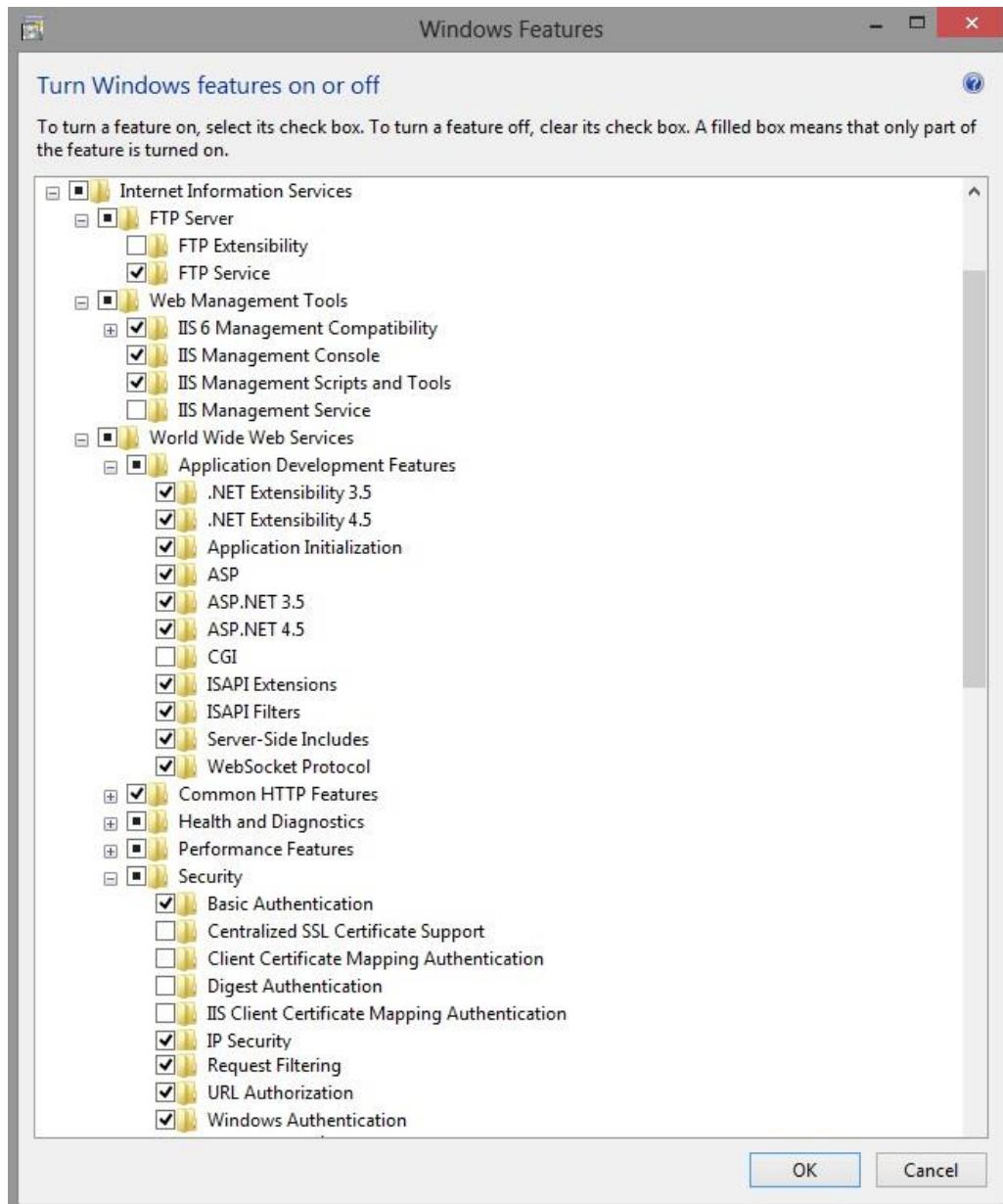


Figure 6-3: Setup IIS-1

Capstone Project: LFMS

- Step 3: Go Start → type Run → input inetmgr

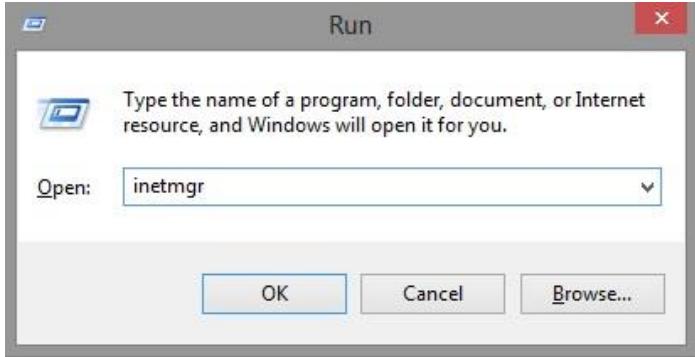


Figure 6-4: Setup IIS-2

- Step 4:** Go Application Pools → Right click to select Add Application Pool → Setup this like the picture below.

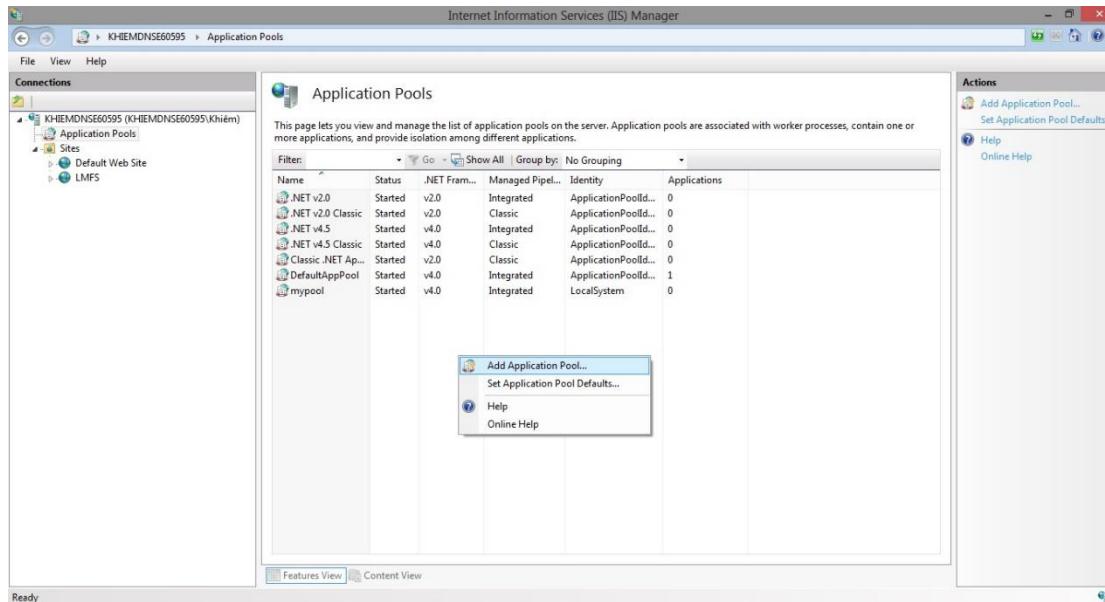


Figure 6-5: Setup IIS-3

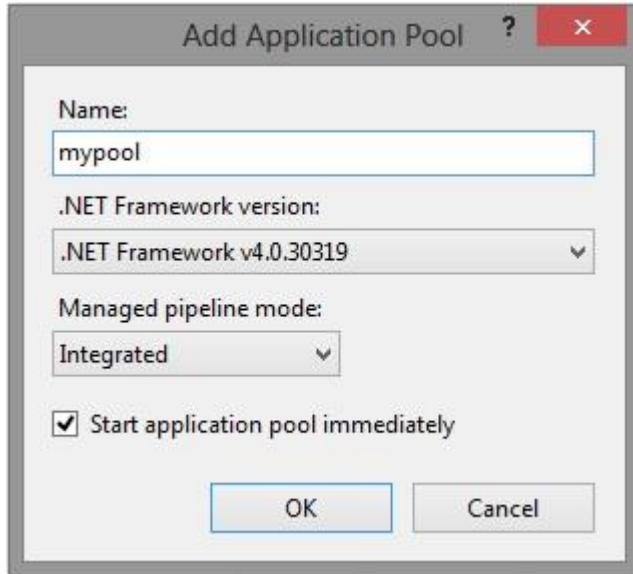


Figure 6-6: Setup IIS-5

- **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

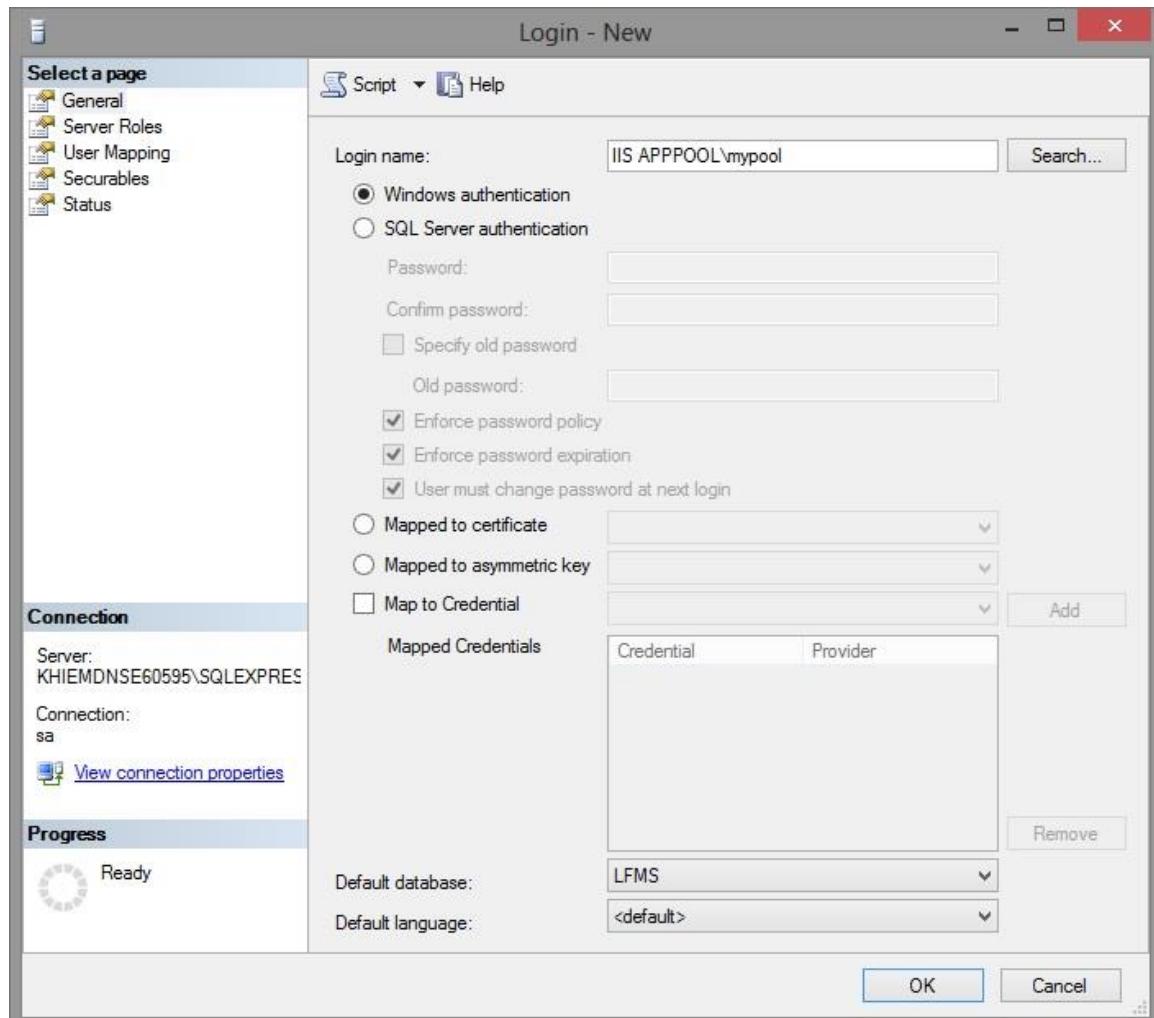


Figure 6-8: Setup IIS-7

Step 6: Go to login user has been created → Right click then select Properties → Click on User Mapping → Setup this like the picture below

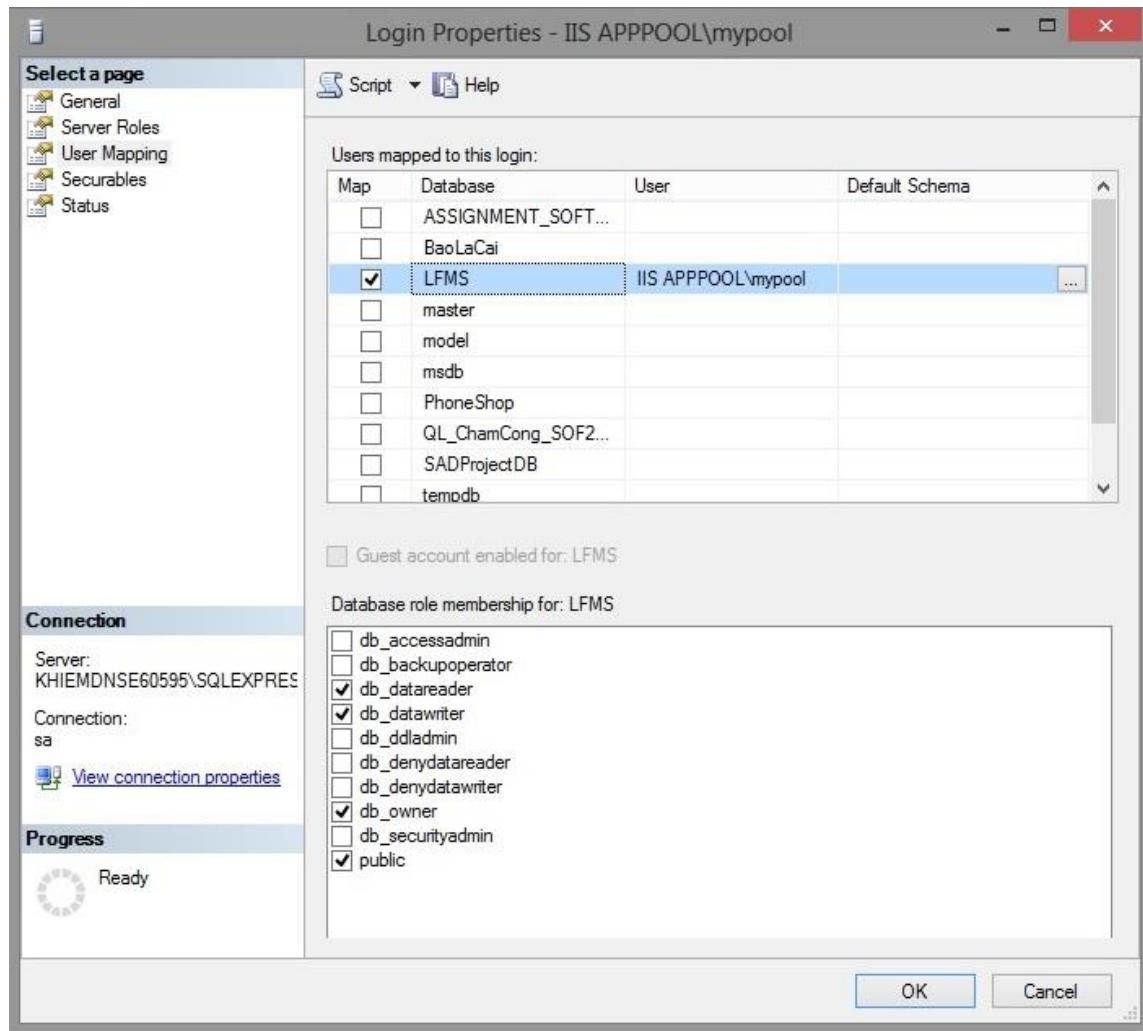


Figure 6-9: Setup IIS-8

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

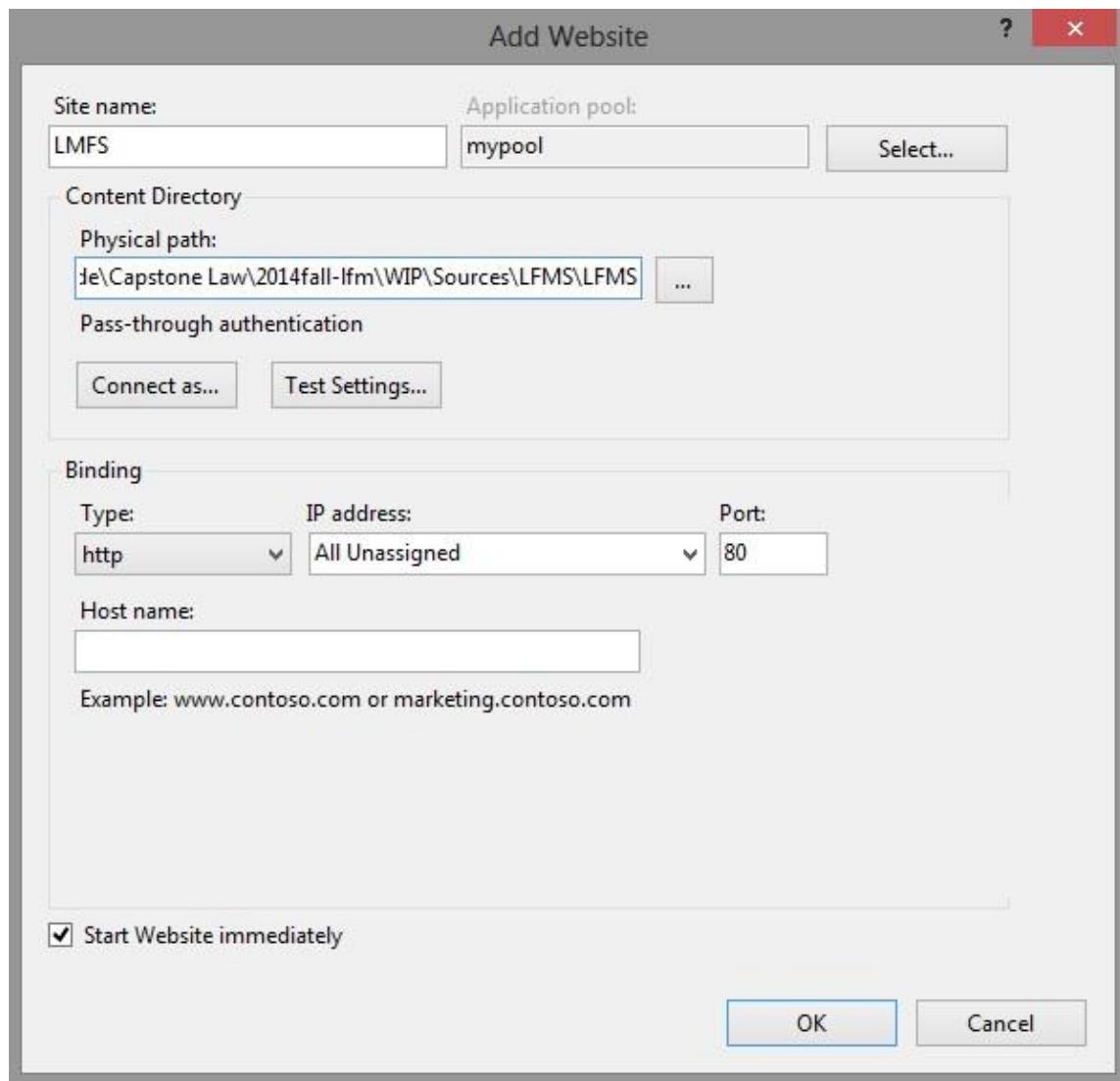


Figure 6-10: Deploy website on IIS-1

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.

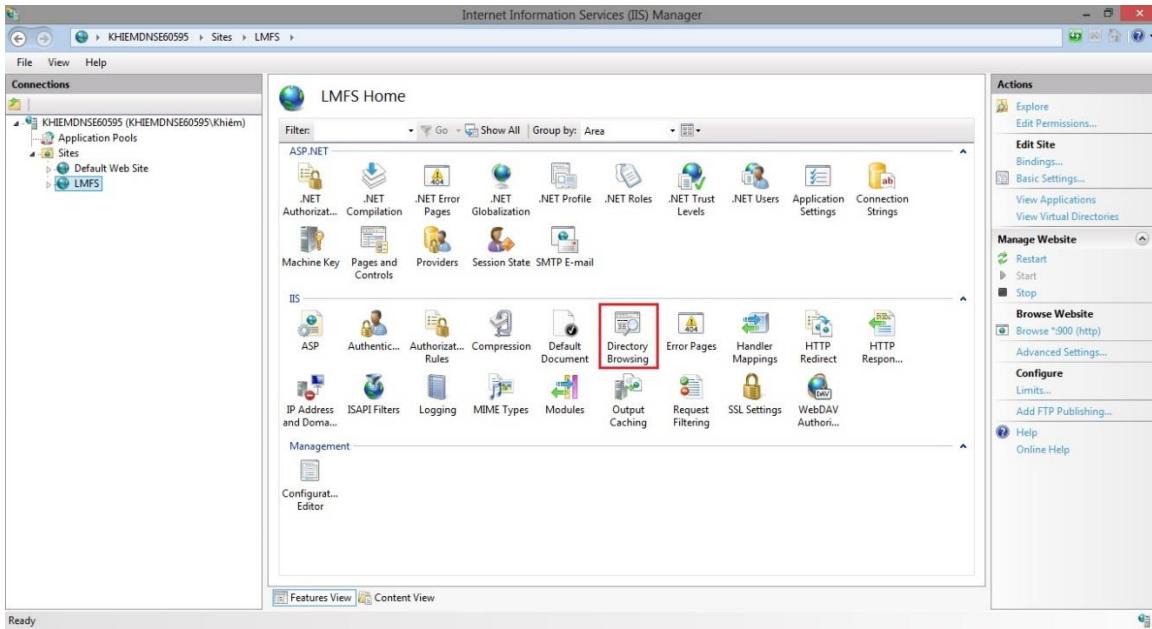


Figure 6-11: Deploy website on IIS-2

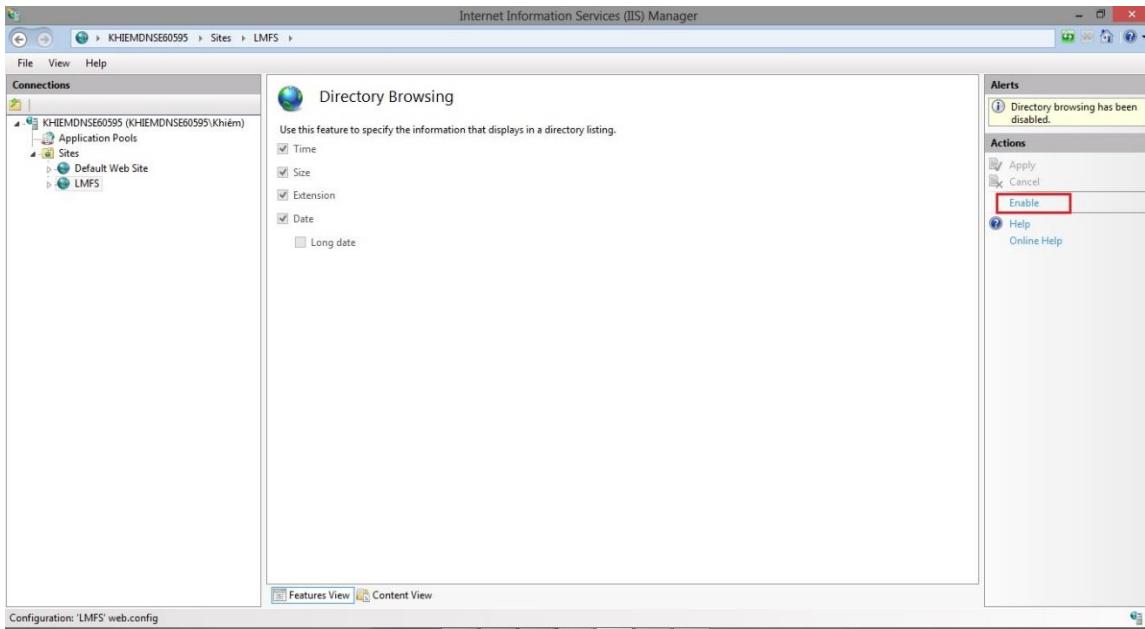


Figure 6-12: Deploy website on IIS-3

- **Step 3:** Go to website user has been created → Right click to select Manage website → Choose Browse like the picture below.

Capstone Project: LFMS

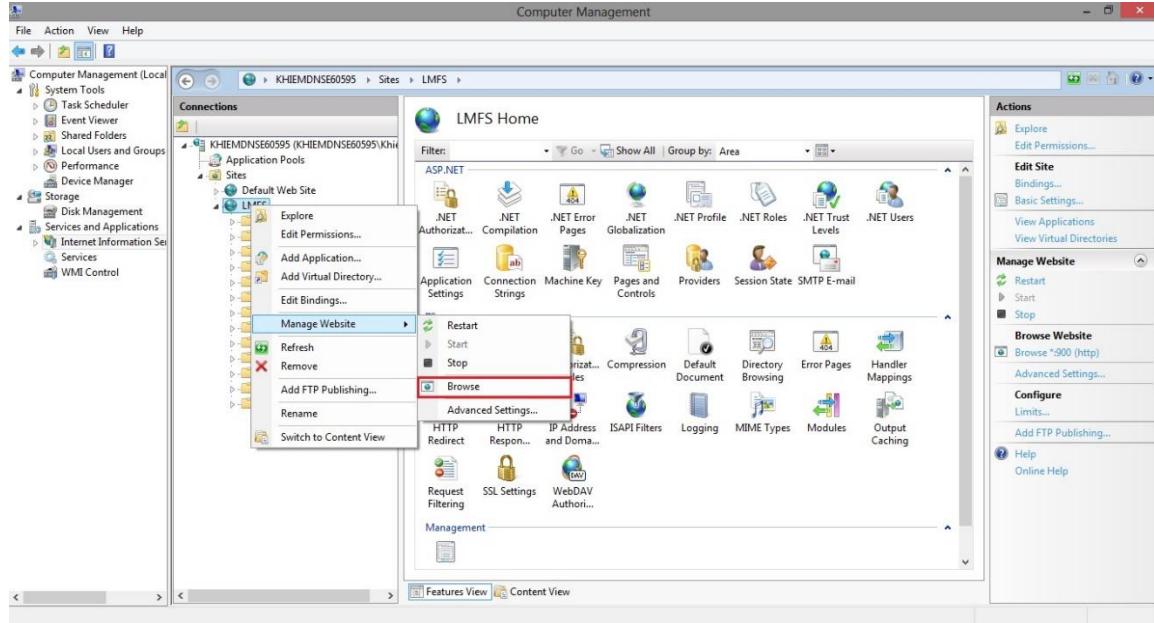


Figure 6-13: Deploy website on IIS-4

6.2. User's Guide

6.2.1. How to create a Calendar Event

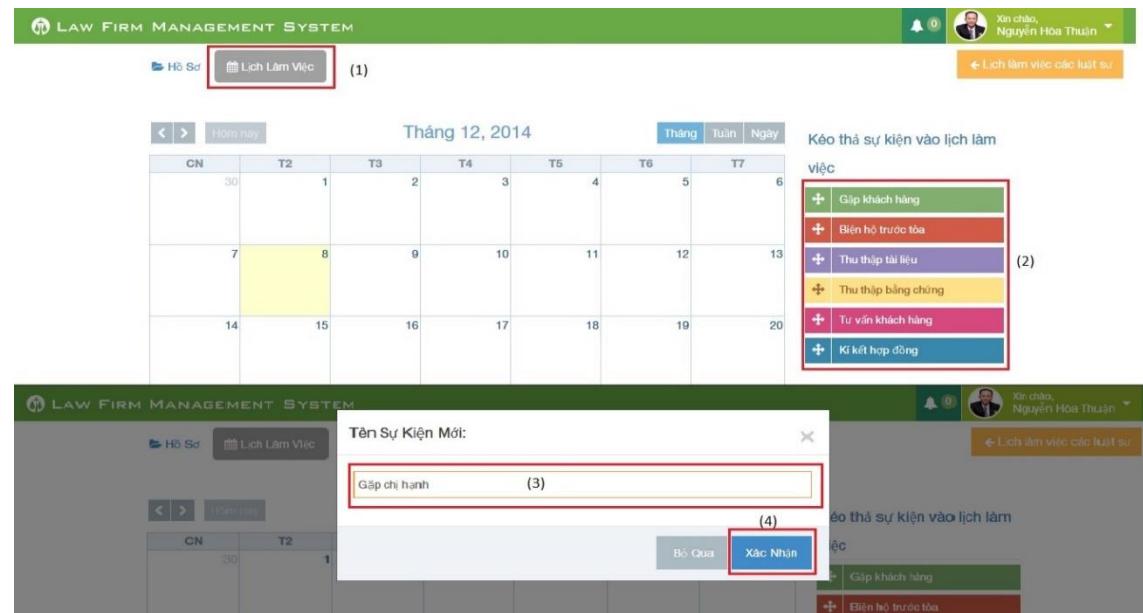


Figure 6-14: How to create a Calendar Event

| 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 various events listed. In the top-right corner of each screenshot, there is a dropdown menu labeled "Lịch làm việc các luật sư" (Lawyers' working schedule) which is highlighted with a red box. In the second screenshot, a dropdown menu is open, showing a list of lawyers with "Nguyễn Thị Hòa Thảo (thaonth)" selected, which is also highlighted with a red box. The calendar grid shows several events, some of which are highlighted in yellow, indicating they have been selected or are active.

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

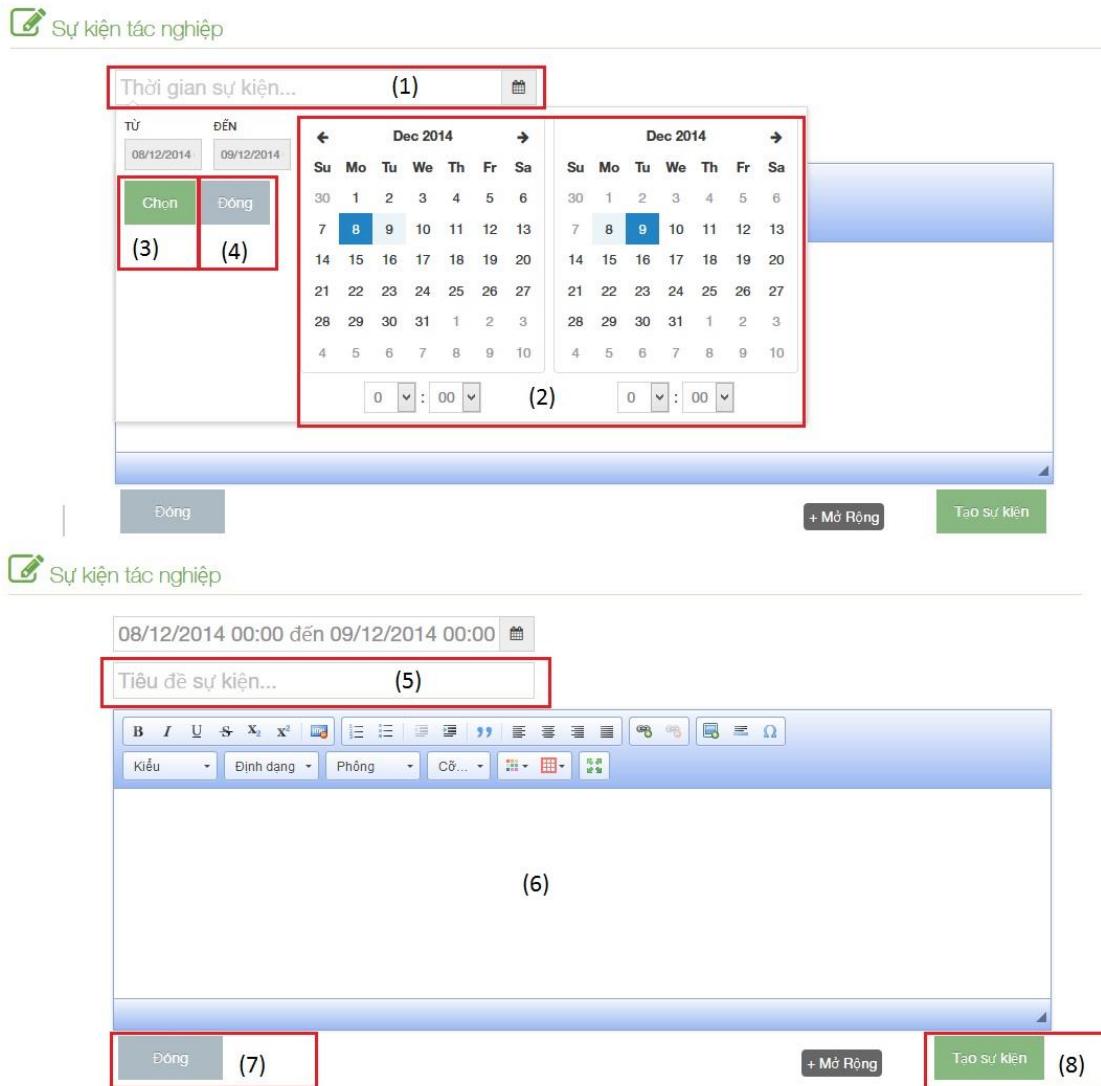


Figure 6-16: How to create an Operation Event

| 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

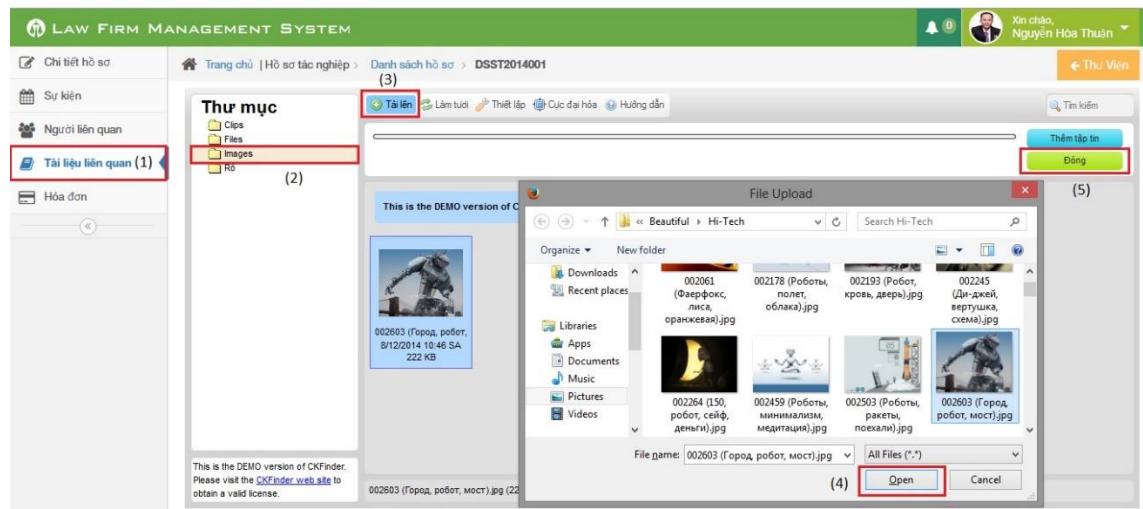


Figure 6-17: How to upload photos to Documents Related

| 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 views of the system's interface:

- Top View (Step 1):** Shows the main dashboard with a green header "LAW FIRM MANAGEMENT SYSTEM". A dropdown menu is open at the top right, with the option "Danh sách hồ sơ" highlighted by a red box. Other menu items include "Quản lý khách hàng", "Quản lý nhân viên", "Quản lý dịch vụ", and "Quản lý văn phòng".
- Bottom View (Step 2):** Shows a modal window titled "Thêm hồ sơ tác nghiệp". It contains fields for "Mã hồ sơ" (filled with "AB-SB"), "Ngày thụ lý" (set to "08/12/2014"), and "Thuộc văn phòng" (set to "Luật Thuận Nguyễn Hồ Chí Minh"). Below these, a dropdown menu for "Thuộc văn phòng" lists "Luật Thuận Nguyễn Hồ Chí Minh" and "Luật Thuận Nguyễn Vinh Long". A "Đóng" (Close) button is visible.
- Bottom View (Step 3):** Shows the main list view again, with the "Nội dung" field also filled with "hello".
- Bottom View (Step 4):** Shows the modal window again, with the "Thêm mới" (Add New) button highlighted by a red box.

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 'Law Firm Management System' interface. In the top right corner, there is a user profile and a dropdown menu labeled '(1) Quản lý nhân viên'. Below the header, there is a breadcrumb navigation: Trang chủ | Quản lý nhân viên > Danh sách nhân viên. A red box labeled '(2)' highlights the '+ Thêm nhân viên' button. The main area displays a table of staff members with columns: Tên nhân viên, Chức vụ, Địa chỉ liên hệ, Điện thoại, Vai trò, and Trạng thái. Two staff entries are shown: Nguyễn Hòa Thuận (Trưởng văn phòng) and Nguyễn Huỳnh Kim Ngân (Nhân viên chăm sóc khách hàng). A red box labeled '(3)' highlights the 'Thêm nhân viên' dialog box. This dialog box contains fields for Nhóm nhân viên, Ngày sinh, CMND, Nơi sinh, Ngày cấp CMND, Điện thoại di động, Nơi cấp CMND, Điện thoại nhà riêng, Mã số thuế, Tên nhân viên, Tên đăng nhập, Chức vụ, Giới tính (Nam/Nữ), Số tài khoản, Địa chỉ liên hệ, Chi nhánh NH, and Thủ trưởng văn phòng. A red box labeled '(4)' highlights the 'Thủ trưởng văn phòng' dropdown, which lists 'Luật Thuận Nguyễn Hồ Chí Minh' and 'Luật Thuận Nguyễn Vinh Long'. A red box labeled '(5)' highlights the 'Làm trống' (Clear) button. A red box labeled '(6)' highlights the 'Thêm mới' (Add New) button.

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 'Dịch vụ' (Services) section of the system.

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. To the right, a sidebar menu is open under 'Quản lý dịch vụ' (Service Management), with 'Quản lý dịch vụ' also highlighted in red. The main list table shows several service entries with columns for 'Tên dịch vụ' (Service Name), 'Mô tả' (Description), and 'Loại dịch vụ' (Service Type).

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

(2)

(3)

(4)

(5)

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

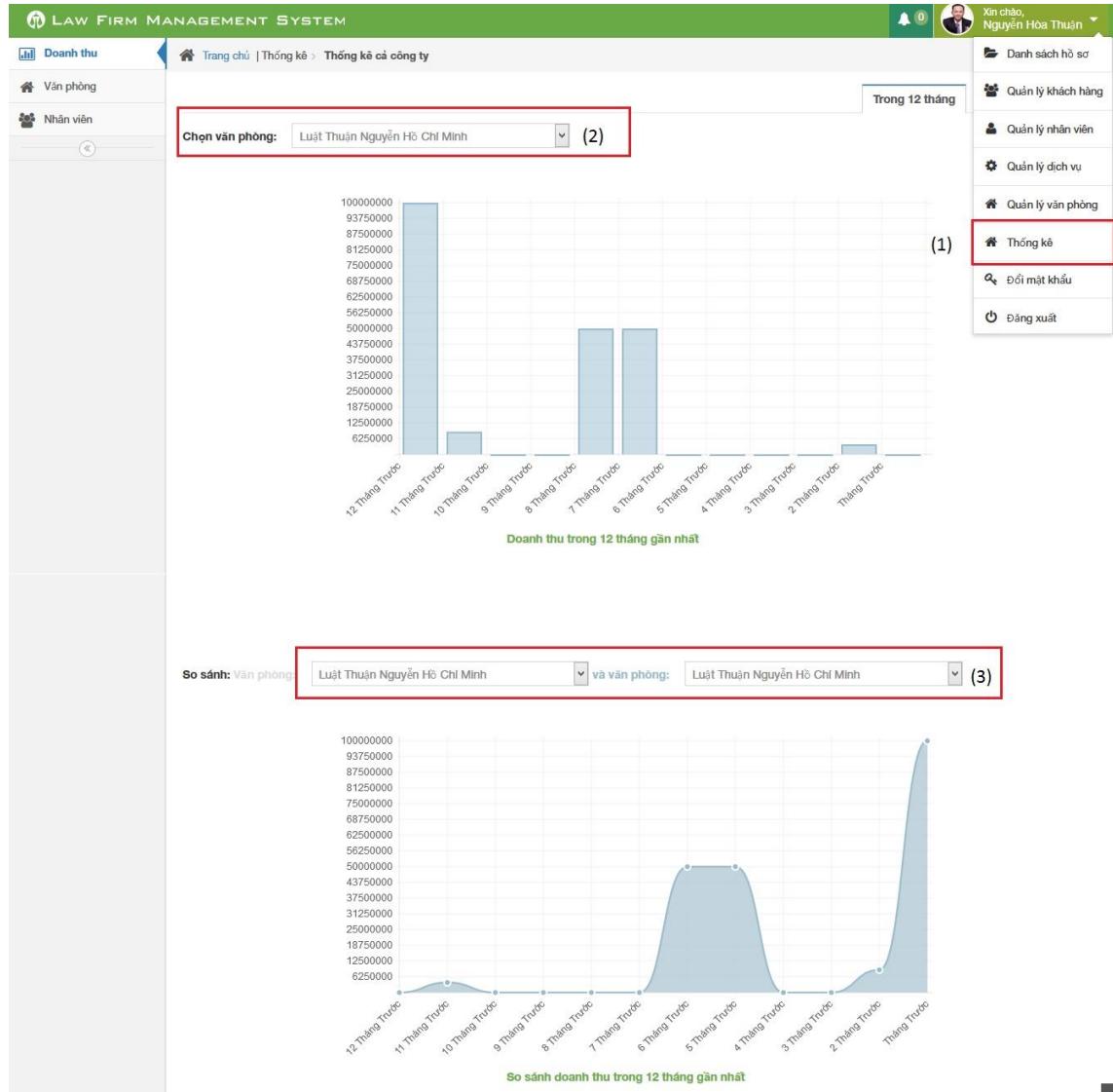


Figure 6-23: How to view statistic

| 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.

Capstone Project: LFMS

- 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.

Capstone Project: LFMS