



MINISTRY OF EDUCATION AND TRAINING

# FPT UNIVERSITY

## Capstone Project Document

### Law Firm Management System

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<b>Capstone Project code</b>	LFMS

- Ho Chi Minh, 01/2014 -

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

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

**Nhóm 14**  
**Law Firm Management System**

## **DOCUMENT MAP**

- Manage Calendar Event
- Manage Case
  - Manage Case Detail
    - Manage Case Info
    - Manage Operation Event
    - Manage People Related
    - Manage Document Related
    - Manage Invoice
    - Integrate Thư Viện Pháp Luật
- Manage Customer Group
- Manage Customer
- Manage Staff Group
- Manage Staff
- Manage Service Type
- Manage Service
- Manage Office

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# **Report No.1: Introduction**

## **1.1. Introduction**

Law Firm Management System is a web site for law office management. The project also has an abbreviation called LFMS.

## **1.2. 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.

## **1.3. Limitations of the existing system**

Thuan Nguyen Lawyer Office currently has a management software that runs on Windows, but is limited as many errors occur during the use, difficult to maintain, limit the number of computers can use...

## **1.4. Benefits of expected system**

Our idea to develop a system to manage the law office. The future systems will provide the ingredients as mentioned above. It will have many benefits such as steady running, easy upgrade and maintenance, multiple computers can use at the same time, and many other customer support function.

## **1.5. Conclusion**

Goal of Software Engineering is to create software products in fact, helpful people. LFMS is no exception to that goal. But the main purpose of this project is to summarize the knowledge that we have learned 4 years at FPT University.

# **Report No.2: Project Management Plan (PMP)**

## **2.1. Problem Definition**

### **2.1.1. Name of this Capstone Project**

English: Law Firm Management System

Vietnamese: 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

#### **2.1.3.2. The Proposed System**

The new system will have five 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.
- 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.

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

#### **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.

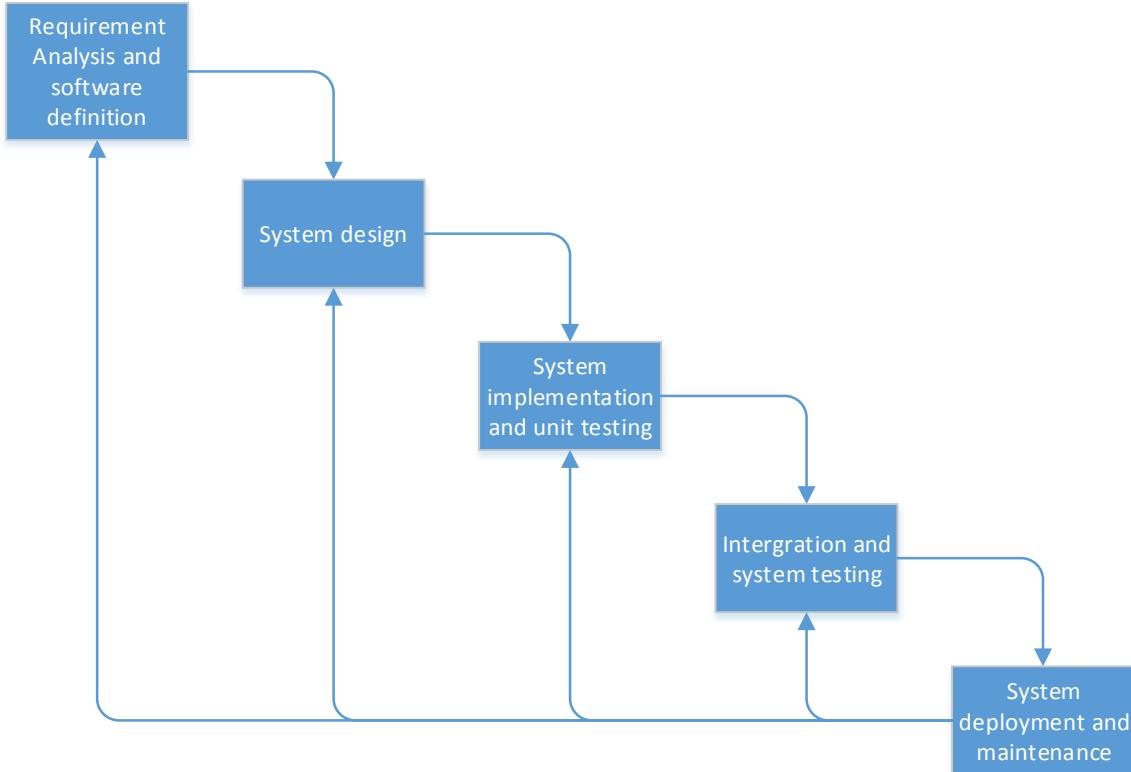
#### **2.1.3.4. Development Environment**

N/A

## **2.2. Project organization**

### **2.2.1. System Process Model**

With the schedule of weekly reports for every stage, the software will be developed by using waterfall model which is very simple and require minimal resource for implementation. With waterfall model, developing process will include five main phases:



*Figure 1: Waterfall Process Model*

- **Requirement definition:** All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification doc.
- **System and software design:** The requirement specifications from first phase are studied in this phase and system design is prepared. System Design helps in specifying hardware and system requirements and also helps in defining overall system architecture.
- **Implementation and unit testing:** With inputs from system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality which is referred to as Unit Testing.
- **Integration and system testing:** All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
- **Operation and maintenance:** There are some issues which come up in the client environment. To fix those issues patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

### 2.2.2. Roles and Responsibilities

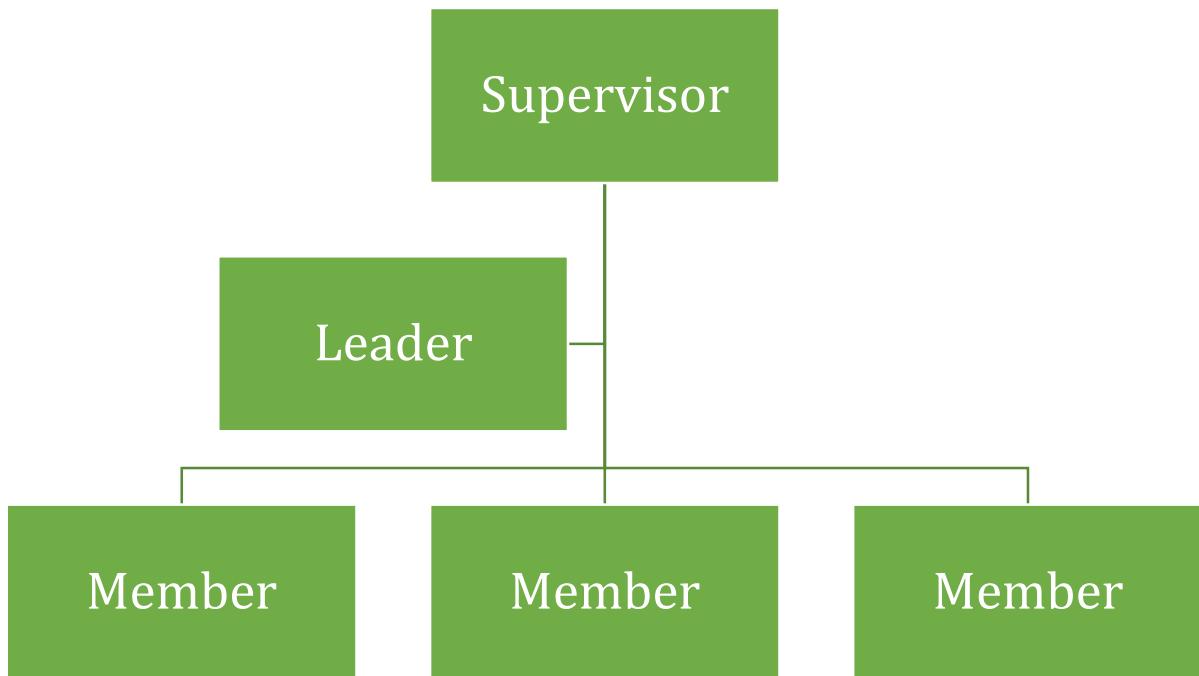


Figure 2: Roles and Responsibilities

#	Name	Role	Responsibilities
1	Lâm Hữu Khánh Phương	Supervisor	Support business and solution Tracking and review project
2	Nguyễn Thế Vinh	Leader Developer BA Tester QA	Tracking and manage process Analyze business Design database Planning and scheduling Coding Testing Review member work Writing document and report
3	Nguyễn Tiến Thành	Member Developer BA Tester	Analyze business Design database Coding Testing Writing document and report
4	Nguyễn Thanh Sang	Member Developer	Coding Testing

		BA Tester	Writing document and report
5	Lê Duy Hoàng	Member Developer BA Tester	Coding Testing Writing document and report

*Table 1: Roles and Responsibilities*

### 2.2.3. Tools and Techniques

#### 2.2.3.1. Tools

- Microsoft Visual Studio 2013: Integrated Development Environment (IDE)
- Microsoft SQL Server 2012: 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

## 2.3. Project management plan

### 2.3.1. Tasks

#	Task	Description	Output	Resource Needed	Dependencies and Constraints	Risk
1	Create Project Introduction	Research to understand the goal of the project. Summary the features that user needs	Project Introduction	4 people for 3 days	N/A	Goal of the project may be unclear
2	Project Management Plan	Estimate the works needed for project. Allocating resources to	Project Management Plan	4 people for 4 days	The project must be completed in 14 weeks	Differences in skill and experience of team member can lead to the delay of project's completion date

		complete the project in time				
<b>3</b>	Software Requirement Specifications	Describe user's requirements in detail	SRS document	4 people for 8 days	Based on Project Management Plan. All the charts and graphs in this document must comply with UML 2.0	User's requirement can change as business changes. Team misunderstands what user wants
<b>4</b>	Software Design Description	Decide coding framework and architecture. Create ERD, class diagram and sequence diagrams	Software Design Description document	4 people for 5 days	Based on completion of SRS	Team member may not have experience with the selected framework. Requirements in SRS may not contain enough information for detailed design
<b>5</b>	Design Database	Database logical and physical design	Logical design, physical design diagram	4 people for 1 days	Based on completion of ERD	Team is lack of experience in design database with large amount of data
<b>6</b>	Create Development Framework	Create a solution based on selected framework. Create common classes and web pages in solution. Implement common functions	A coding solution	4 people for 2 days	Based on Coding framework in SDD	N/A
<b>7</b>	Design Layout	Create web based layout for system	Web based layout	4 people for 2 days	Based on description in SRS	Different browsers have different behaviors and supported features
<b>8</b>	Implementation	Develop the system	Software source code	4 people for 25 days	Based on Development Framework, description in SRS and SDD	Defect and incident are two main factors can lead to the delay of project completion

<b>9</b>	Test	Integration Test and Acceptance Test	Test software source code	4 people for 5 days	N/A	The newly discovered defects may require a lot of work to fix it
<b>10</b>	User Manual	Create User's Manual Document	User's Manual document	4 people for 5 days	Based on completed software package	N/A

*Table 2: Tasks*

### 2.3.2. Task Sheet: Assignments and Timetable

See in Tasksheet Final and Project Plan comes with this document.

### 2.3.3. All Meeting Minutes

See in Meeting Minutes folder comes with this document.

## 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: System Requirements Specifications (SRS)**

### **3.1. User Requirement Specification**

The Law Firm Management System (LFMS) is an internal website, which allows management law office system. It must be includes five basic functions: Case management, Customer management, Staff management, Service management, Office management.

LFMS have only one back end component, system is designed for use by Administrators, Lawyers and Staff have the authority (if any).

### **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**

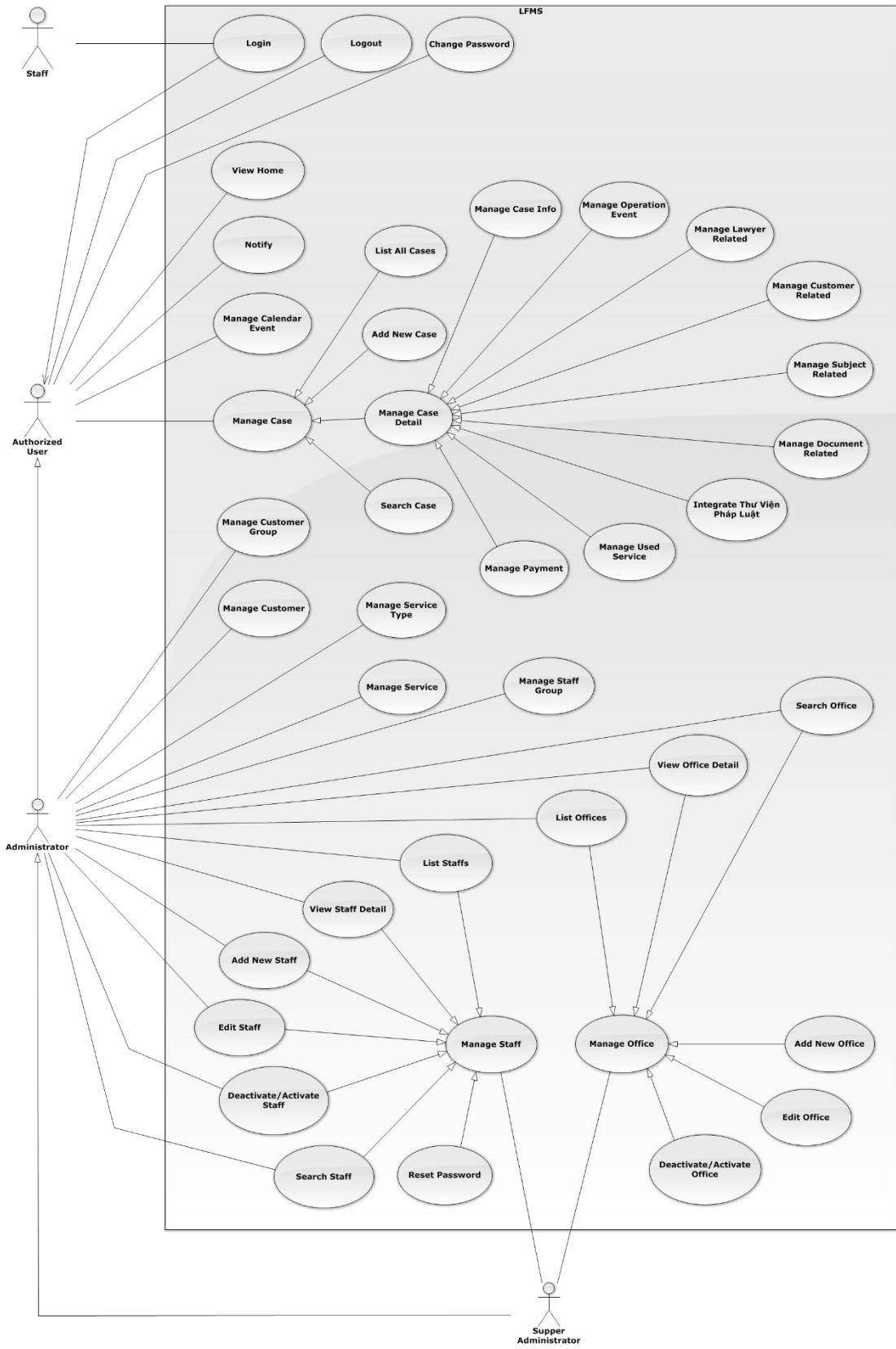


Figure 3: Overview Use-Case Diagram

### 3.2.2.1. Login

#### 3.2.2.1.1. Login Use-Case Diagram



Figure 4: Login Use-Case Diagram

#### 3.2.2.1.2. Login Use-Case Diagram Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0001	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Login		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	24/03/2014	<b>Priority</b>	Normal
<b>Actor:</b> Staff.			
<b>Summary:</b> This use case allows staff to log on into the system.			
<b>Goal:</b> Authenticate user.			
<b>Triggers:</b> User access website area that is intended staff.			
<b>Preconditions:</b> User has an account and has not logged in yet.			
<b>Post Conditions:</b> <b>Success:</b> User logged in. System redirects user to “Home” page.			

**Failure:** System redirects to “Login” page.

**Main Success Scenario:**

<b>Step</b>	<b>User</b>	<b>System</b>
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:**

<b>#</b>	<b>User</b>	<b>System</b>
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:**

N/A

### 3.2.2.2. Change Password

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.3. View Home

#### 3.2.2.3.1. View Home Use-Case Diagram



*Figure 5: View Home Use-Case Diagram*

### 3.2.2.3.2. View Home Use-Case Specification

<b>USE-CASE SPECIFICATION</b>			
<b>Use-case No.</b>	UC0002	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	View Home		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>			
Authorized User			
<b>Summary:</b>			
User must be Login before and then redirect them to “Trang Chủ” page.			
<b>Goal:</b>			
To allowing user to view some information of all Cases, which is operating and assigned by Staff related.			
<b>Triggers:</b>			
<ul style="list-style-type: none"> <li>• User click on logo LFMS</li> <li>• Click on “Trang Chủ” link.</li> </ul>			
<b>Preconditions:</b>			
<ul style="list-style-type: none"> <li>• Must be logged-in</li> <li>• The page is fully loaded</li> </ul>			

**Post Conditions:**

Success: System redirect user to “Trang Chủ” page and list cases

Failure: Do nothing.

**Main Success Scenario:**

Step	User	System
1	Click on logo LFMS or “Trang Chủ” link	<ul style="list-style-type: none"><li>• Redirect to “Trang Chủ” page</li><li>• List Cases by Office filter</li></ul>

**Alternative Scenario:**

N/A

**Exceptions:**

N/A

**Relationships:**

N/A

**Business Rules:**

N/A

### 3.2.2.4. Notify

#### 3.2.2.4.1. Notify Use-Case Diagram



Figure 6: Notify Use-Case Diagram

#### 3.2.2.4.2. Notify Use-Case Specification

### USE-CASE SPECIFICATION

<b>Use-case No.</b>	UC0003	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Notify		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	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.

**Preconditions:**

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

**Post Conditions:**

Success: Show to user

Failure: Do nothing.

**Main Success Scenario:**

<b>Step</b>	<b>User</b>	<b>System</b>
1	Login into the system	User can see notification about all Today's events

**Alternative Scenario:**

N/A

**Exceptions:**

N/A

**Relationships:**

N/A

**Business Rules:**

N/A

### 3.2.2.5. Manage Calendar Event

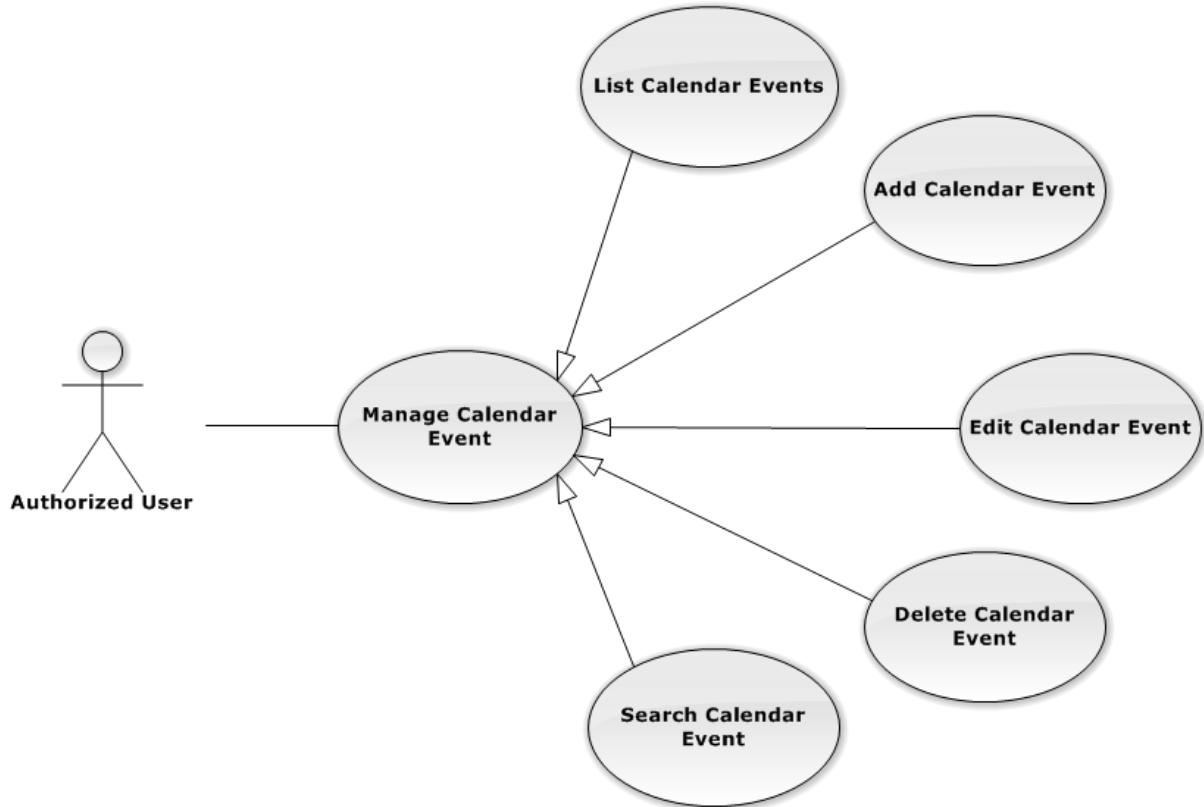


Figure 7: Manage Calendar Event Use-Case Diagram

#### 3.2.2.5.1. List Calendar Events

##### 3.2.2.5.1.1. List Calendar Events Use-Case Diagram



Figure 8: List Calendar Event Use-Case Diagram

### 3.2.2.5.1.2. List Calendar Events Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0004	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Calendar Events		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>			
Authorized User.			
<b>Summary:</b>			
List All Calendar Event.			
<b>Goal:</b>			
The purpose of List Calendar Event use case is allowing User to view all Events in full-calendar.			
<b>Triggers:</b>			
User choose “Lịch làm việc” tab in Homepage.			
<b>Preconditions:</b>			
User is authenticated.			
<b>Post Conditions:</b>			
Success: All Calendar Events are listed.			

Failure: N/A

**Main Success Scenario:**

<i>Step</i>	<i>User</i>	<i>System</i>
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

### 3.2.2.5.2. Add New Calendar Event

#### 3.2.2.5.2.1. Add New Calendar Event Use-Case Diagram



Figure 9: Add New Calendar Event

#### 3.2.2.5.2.2. Add New Calendar Event Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0005	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Calendar Event		

<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

<i>Step</i>	<i>User</i>	<i>System</i>
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:**

#	<i>User</i>	<i>System</i>
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

### 3.2.2.5.3. Edit Calendar Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.5.4. Delete Calendar Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.5.5. Search Calendar Event

#### 3.2.2.5.5.1. Search Calendar Event Use-Case Diagram



Figure 10: Search Calendar Event Use-Case Diagram

#### 3.2.2.5.5.2. Search Calendar Event Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0006	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Search Calendar Event		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

<i>Step</i>	<i>User</i>	<i>System</i>
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

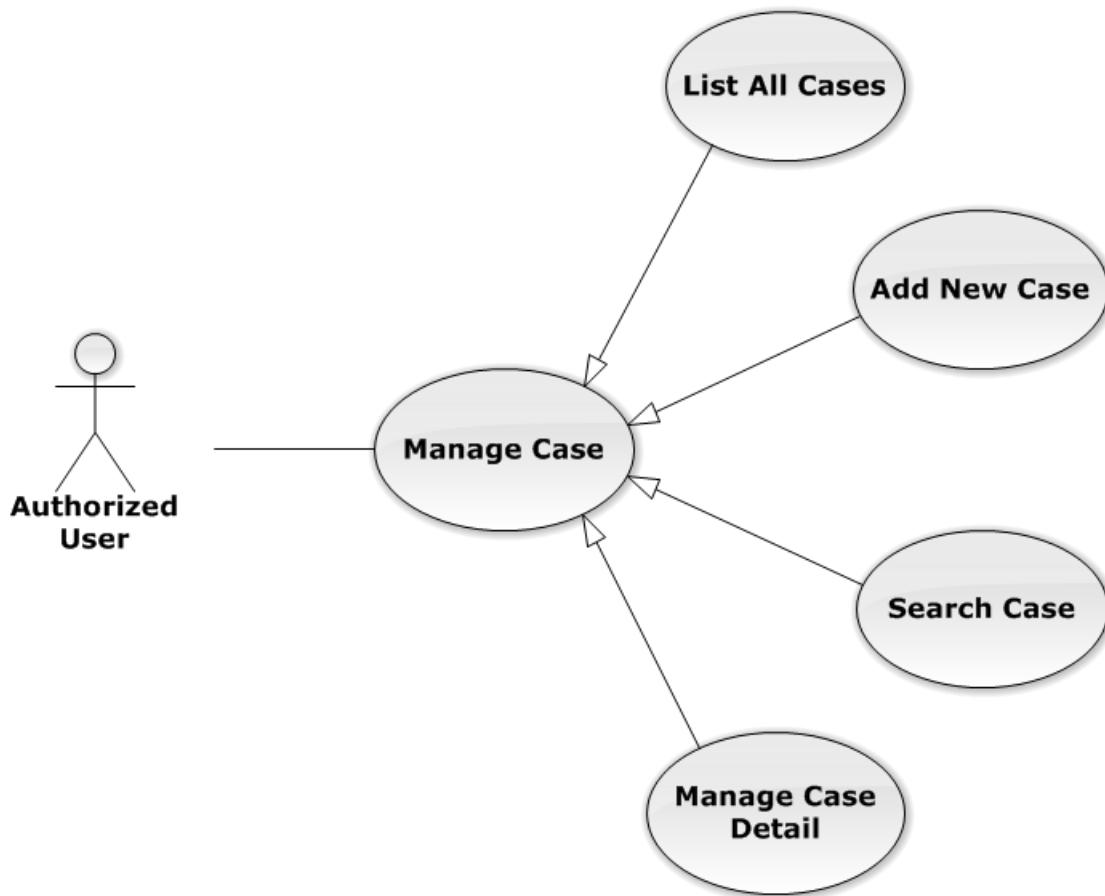
**Relationships:**

Manage calendar event

**Business Rules:**

N/A

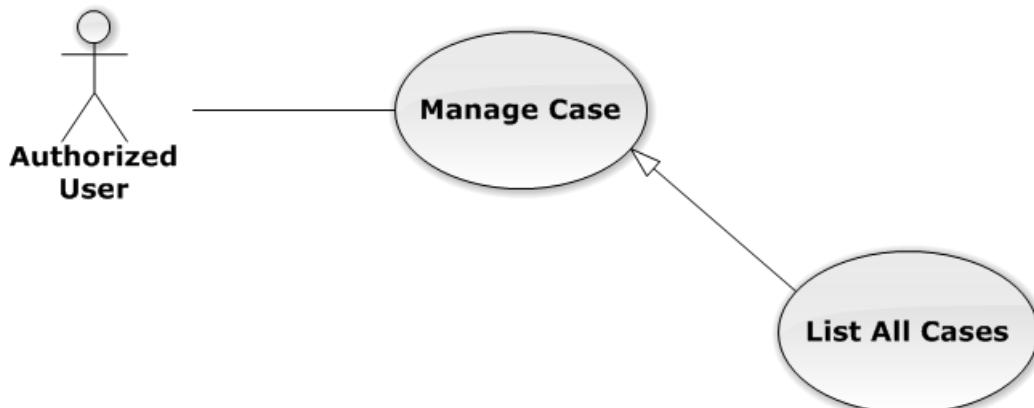
### 3.2.2.6. Manage Case



*Figure 11: Manage Case Use-Case Diagram*

### 3.2.2.6.1. List All Cases

#### 3.2.2.6.1.1. List All Cases Use-Case Diagram



*Figure 12: List All Cases Use-Case Diagram*

### 3.2.2.6.1.2. List All Cases Use-Case Specification

<b>USE-CASE SPECIFICATION</b>									
<b>Use-case No.</b>	UC0007	<b>Use-case Version</b>	1.0						
<b>Use-case Name</b>	List All Cases								
<b>Author</b>	Nguyễn Thế Vinh								
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal						
<p><b>Actor:</b> Authorized User</p> <p><b>Summary:</b> Redirect to “Danh sách hồ sơ” page and list all cases.</p> <p><b>Goal:</b> To allowing customer to view any detail information of all Cases</p> <p><b>Triggers:</b></p> <ul style="list-style-type: none"> <li>User click on User Control Panel and then click on “Danh sách hồ sơ” link</li> <li>Click on “Danh sách hồ sơ” link in Case Detail of each Case</li> </ul> <p><b>Preconditions:</b></p> <ul style="list-style-type: none"> <li>Must be logged-in</li> <li>The page is fully loaded</li> </ul> <p><b>Post Conditions:</b></p> <p>Success: System redirects user to “Danh sách hồ sơ” page. Failure: Do nothing.</p> <p><b>Main Success Scenario:</b></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 on “Danh sách hồ sơ” link</td><td> <ul style="list-style-type: none"> <li>Redirect to “Danh sách hồ sơ” page</li> </ul> </td></tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click on “Danh sách hồ sơ” link	<ul style="list-style-type: none"> <li>Redirect to “Danh sách hồ sơ” page</li> </ul>
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click on “Danh sách hồ sơ” link	<ul style="list-style-type: none"> <li>Redirect to “Danh sách hồ sơ” page</li> </ul>							

		<ul style="list-style-type: none"> <li>• Show all Cases by searching condition</li> </ul>
<b>Alternative Scenario:</b>		
N/A		
<b>Exceptions:</b>		
N/A		
<b>Relationships:</b>		
Manage Case		
<b>Business Rules:</b>		
N/A		

### 3.2.2.6.2. Add New Case

#### 3.2.2.6.2.1. Add New Case Use-Case Diagram

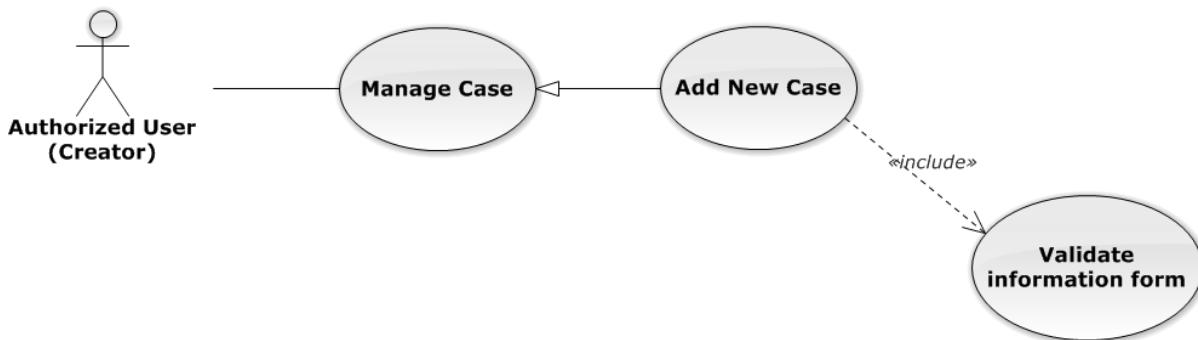


Figure 13: Add New Case Use-Case Diagram

#### 3.2.2.6.2.2. Add New Case Use-Case Specification

<b>USE-CASE SPECIFICATION</b>			
<b>Use-case No.</b>	UC0008	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Case		
<b>Author</b>	Nguyễn Thế Vinh		

<b>Date</b>	30/01/2014	<b>Priority</b>	High									
<b>Actor:</b>												
Authorized User have “Creator” role												
<b>Summary:</b>												
Staff can add new case by input data on form modal												
<b>Goal:</b>												
Helps Staff input information of a case when they add new one												
<b>Triggers:</b>												
Staff click on “Thêm mới” button in modal												
<b>Preconditions:</b>												
<ul style="list-style-type: none"> <li>• Must be logged-in with “Creator” role</li> <li>• The page is fully loaded</li> </ul>												
<b>Post Conditions:</b>												
Success:												
<ul style="list-style-type: none"> <li>• Add new case successful</li> <li>• Add current Staff to Lawyer Related of the new Case</li> <li>• Redirect to view detail page of new case</li> </ul>												
Failure: System display error message “Thêm hồ sơ thất bại!”												
<b>Main Success Scenario:</b>												
<table border="1"> <thead> <tr> <th><b>Step</b></th><th><b>User</b></th><th><b>System</b></th></tr> </thead> <tbody> <tr> <td>1</td><td> <ul style="list-style-type: none"> <li>• Staff click on icon-plus button in “Trang chủ” page</li> <li>• Click on “Thêm hồ sơ tác nghiệp” button in “Danh sách hồ sơ” page</li> </ul> </td><td>Modal popup is displayed with fields for input information of new case</td></tr> <tr> <td>2</td><td> Input corresponding information in form then click “Thêm mới” button  [Alternative 1]  [Exception 1] </td><td> <ul style="list-style-type: none"> <li>• Modal popup is close</li> <li>• System display successful message “Thêm hồ sơ thành công!”</li> </ul> </td></tr> </tbody> </table>				<b>Step</b>	<b>User</b>	<b>System</b>	1	<ul style="list-style-type: none"> <li>• Staff click on icon-plus button in “Trang chủ” page</li> <li>• Click on “Thêm hồ sơ tác nghiệp” button in “Danh sách hồ sơ” page</li> </ul>	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"> <li>• Modal popup is close</li> <li>• System display successful message “Thêm hồ sơ thành công!”</li> </ul>
<b>Step</b>	<b>User</b>	<b>System</b>										
1	<ul style="list-style-type: none"> <li>• Staff click on icon-plus button in “Trang chủ” page</li> <li>• Click on “Thêm hồ sơ tác nghiệp” button in “Danh sách hồ sơ” page</li> </ul>	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"> <li>• Modal popup is close</li> <li>• System display successful message “Thêm hồ sơ thành công!”</li> </ul>										

- |  |  |                            |
|--|--|----------------------------|
|  |  | • 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

### 3.2.2.6.3. Search Case

#### 3.2.2.6.3.1. Search Case Use-Case Diagram

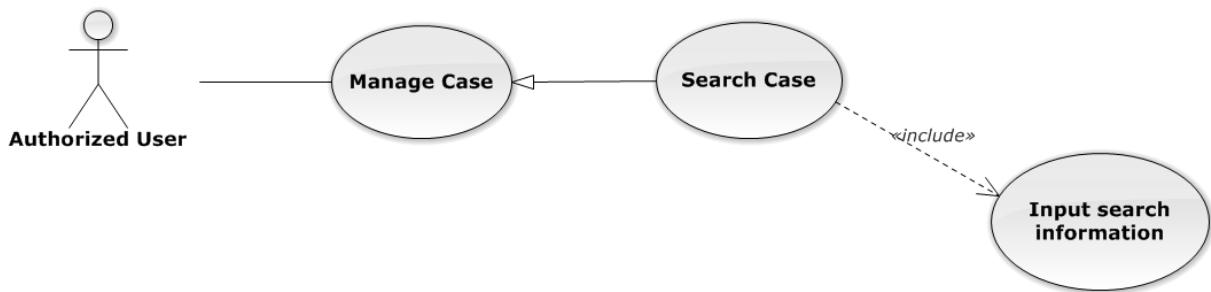


Figure 14: Search Case Use-Case Diagram

#### 3.2.2.6.3.2. Search Case Use-Case Specification

### USE-CASE SPECIFICATION

<b>Use-case No.</b>	UC0009	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Search Case		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

- Must be logged-in
- 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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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

### 3.2.2.6.4. Manage Case Detail

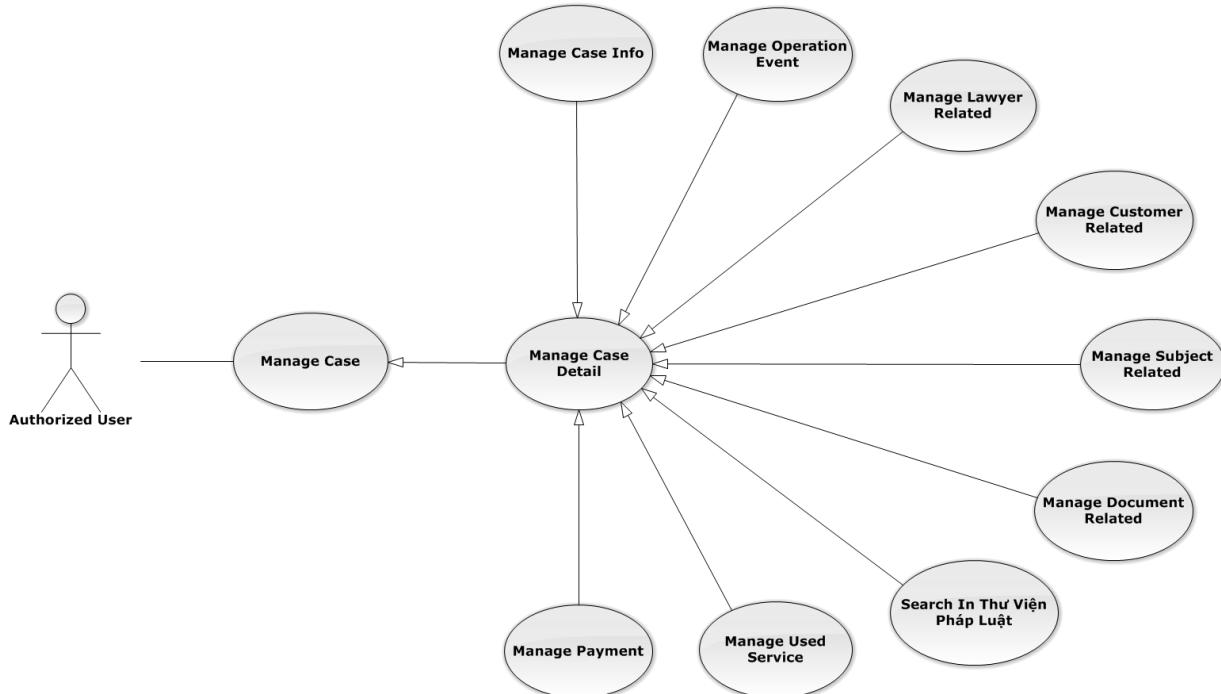


Figure 15: Manage Case Detail Use-Case Diagram

### 3.2.2.6.4.1. Manage Case Info

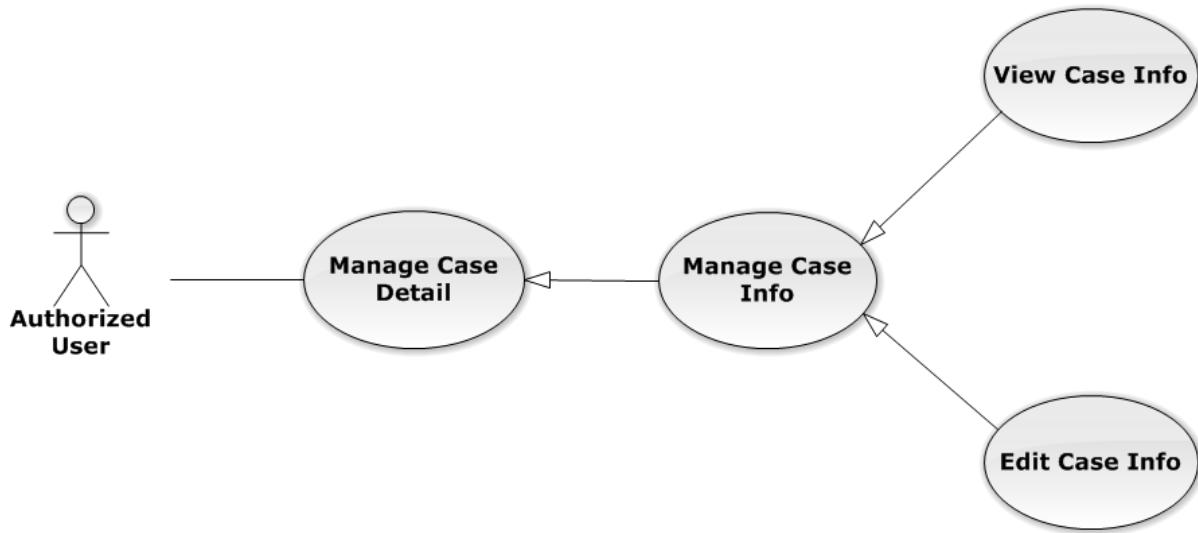


Figure 16: Manage Case Info Use-Case Diagram

#### 3.2.2.6.4.1.1. View Case Info

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 3.2.2.6.4.1.2. Edit Case Info

##### 3.2.2.6.4.1.2.1. Edit Case Info Use-Case Diagram

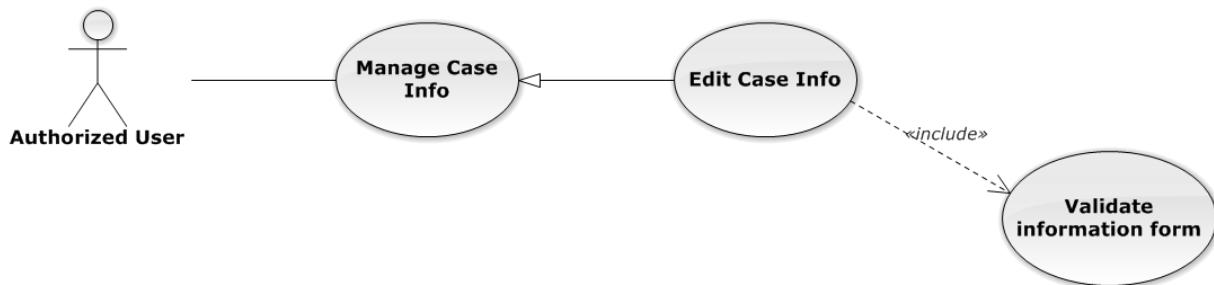


Figure 17: Edit Case Info Use-Case Diagram

##### 3.2.2.6.4.1.2.2. Edit Case Info Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0010	Use-case Version	1.0

<b>Use-case Name</b>	Edit Case Info											
<b>Author</b>	Nguyễn Thế Vinh											
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal									
<b>Actor:</b>												
Authorized User who is assigned in current case												
<b>Summary:</b>												
Staff can edit and update case detail												
<b>Goal:</b>												
Helps Staff easy to update case information												
<b>Triggers:</b>												
Staff click on “Lưu chỉnh sửa” button												
<b>Preconditions:</b>												
<ul style="list-style-type: none"> <li>Must be logged-in</li> <li>The page is fully loaded</li> <li>Must be in Case Detail page</li> <li>Click on edit icon beside “Thông tin chung” label before and the case have “Đang thụ lý” status</li> </ul>												
<b>Post Conditions:</b>												
Success: The case detail will be updated and system display message “Cập nhật chi tiết hồ sơ thành công!”												
Failure: System display message “Cập nhật chi tiết hồ sơ thất bại!”												
<b>Main Success Scenario:</b>												
<table border="1"> <thead> <tr> <th><b>Step</b></th><th><b>User</b></th><th><b>System</b></th></tr> </thead> <tbody> <tr> <td>1</td><td>Click on edit icon beside “Thông tin chung” label [Exception 1]</td><td> <ul style="list-style-type: none"> <li>All off fields will enable to input</li> <li>“Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is display</li> </ul> </td></tr> <tr> <td>2</td><td>Input information and then click “Lưu chỉnh sửa” button</td><td> <ul style="list-style-type: none"> <li>The case detail will be updated</li> </ul> </td></tr> </tbody> </table>				<b>Step</b>	<b>User</b>	<b>System</b>	1	Click on edit icon beside “Thông tin chung” label [Exception 1]	<ul style="list-style-type: none"> <li>All off fields will enable to input</li> <li>“Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is display</li> </ul>	2	Input information and then click “Lưu chỉnh sửa” button	<ul style="list-style-type: none"> <li>The case detail will be updated</li> </ul>
<b>Step</b>	<b>User</b>	<b>System</b>										
1	Click on edit icon beside “Thông tin chung” label [Exception 1]	<ul style="list-style-type: none"> <li>All off fields will enable to input</li> <li>“Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is display</li> </ul>										
2	Input information and then click “Lưu chỉnh sửa” button	<ul style="list-style-type: none"> <li>The case detail will be updated</li> </ul>										

	[Alternative 1] [Exception 2]	<ul style="list-style-type: none"> <li>System display message “Cập nhật chi tiết hồ sơ thành công!”</li> <li>All off fields will disable</li> <li>“Hủy chỉnh sửa” and “Lưu chỉnh sửa” button is hidden</li> </ul>
--	----------------------------------	---

**Alternative Scenario:**

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

**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

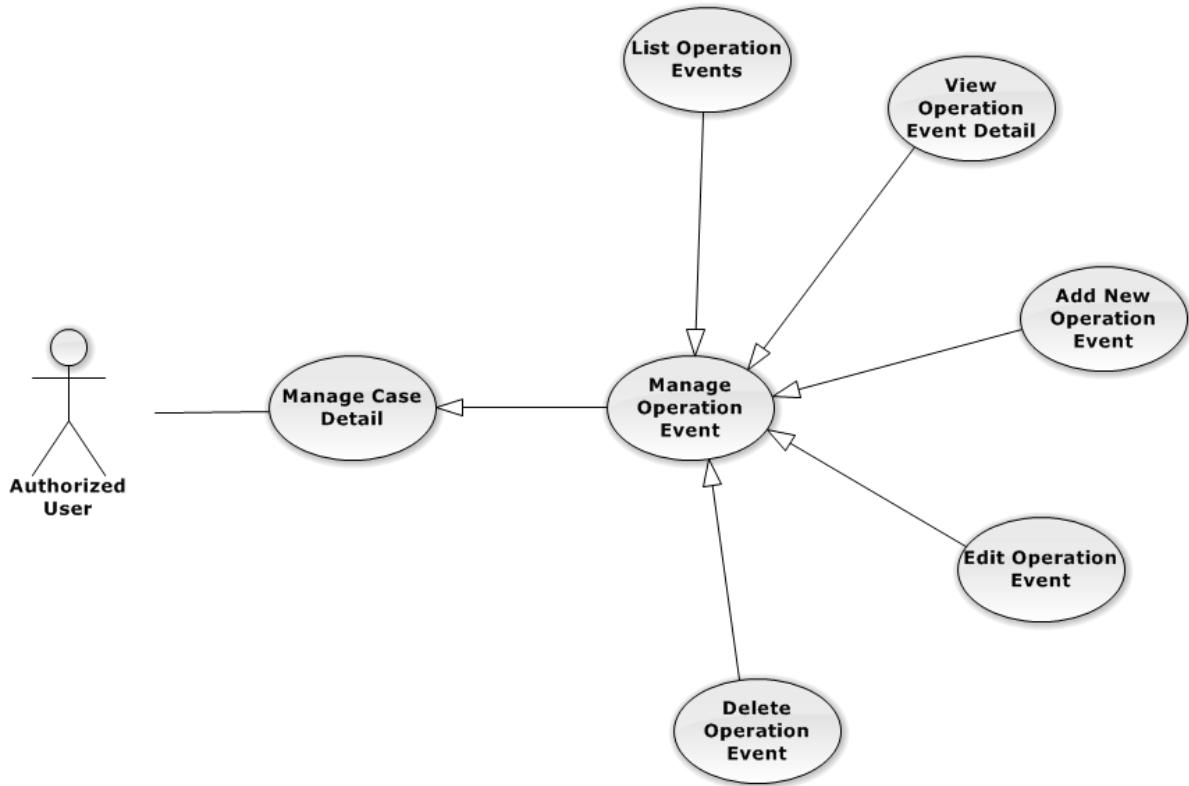
**Relationships:**

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.

### 3.2.2.6.4.2. Manage Operation Event



*Figure 18: Manage Operation Event Use-Case Diagram*

### 3.2.2.6.4.2.1. List Operation Events

#### 3.2.2.6.4.2.1.1. List Operation Events Use-Case Diagram



*Figure 19: List Operation Events Use-Case Diagram*

#### 3.2.2.6.4.2.1.2. List Operation Events Use-Case Specification

**USE-CASE SPECIFICATION**

<b>Use-case No.</b>	UC0011	<b>Use-case Version</b>	1.0						
<b>Use-case Name</b>	List Operation Events								
<b>Author</b>	Nguyễn Tiến Thành								
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal						
<b>Actor:</b>									
Authorized User									
<b>Summary:</b>									
Show all event of case.									
<b>Goal:</b>									
Help staff to view all event of case.									
<b>Triggers:</b>									
User click on “Sự kiện” link in Case Detail page									
<b>Preconditions:</b>									
<ul style="list-style-type: none"> <li>• Must be logged-in</li> <li>• The page is fully loaded</li> <li>• Must be in Case Detail page</li> </ul>									
<b>Post Conditions:</b>									
Success: List all event in current case									
Failure: Do nothing									
<b>Main Success Scenario:</b>									
<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 “Sự kiện” link</td> <td>Show all event in current case</td> </tr> </tbody> </table>				<i>Step</i>	<i>User</i>	<i>System</i>	1	Click on “Sự kiện” link	Show all event in current case
<i>Step</i>	<i>User</i>	<i>System</i>							
1	Click on “Sự kiện” link	Show all event in current case							
<b>Alternative Scenario:</b>									
N/A									
<b>Exceptions:</b>									
N/A									
<b>Relationships:</b>									

Manage Operation Event <b>Business Rules:</b> N/A
---

### 3.2.2.6.4.2.2. View Operation Event Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.6.4.2.3. Add New Operation Event

#### 3.2.2.6.4.2.3.1. Add New Operation Event Use-Case Diagram



Figure 20: Add New Operation Event Use-Case Diagram

#### 3.2.2.6.4.2.3.2. Add New Operation Event Use-Case Specification

USE-CASE SPECIFICATION			
<b>Use-case No.</b>	UC0012	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Operation Event		
<b>Author</b>	Nguyễn Tiến Thành		
<b>Date</b>	30/01/2014	<b>Priority</b>	High
<b>Actor:</b>	Authorized User, who is assigned in current case		
<b>Summary:</b>	Staff can add new event into Case		

**Goal:**

Helps Staff create event into Case

**Triggers:**

- 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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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.

#### 3.2.2.6.4.2.4. Edit Operation Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 3.2.2.6.4.2.5. Delete Operation Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 3.2.2.6.4.3. Manage Lawyer Related

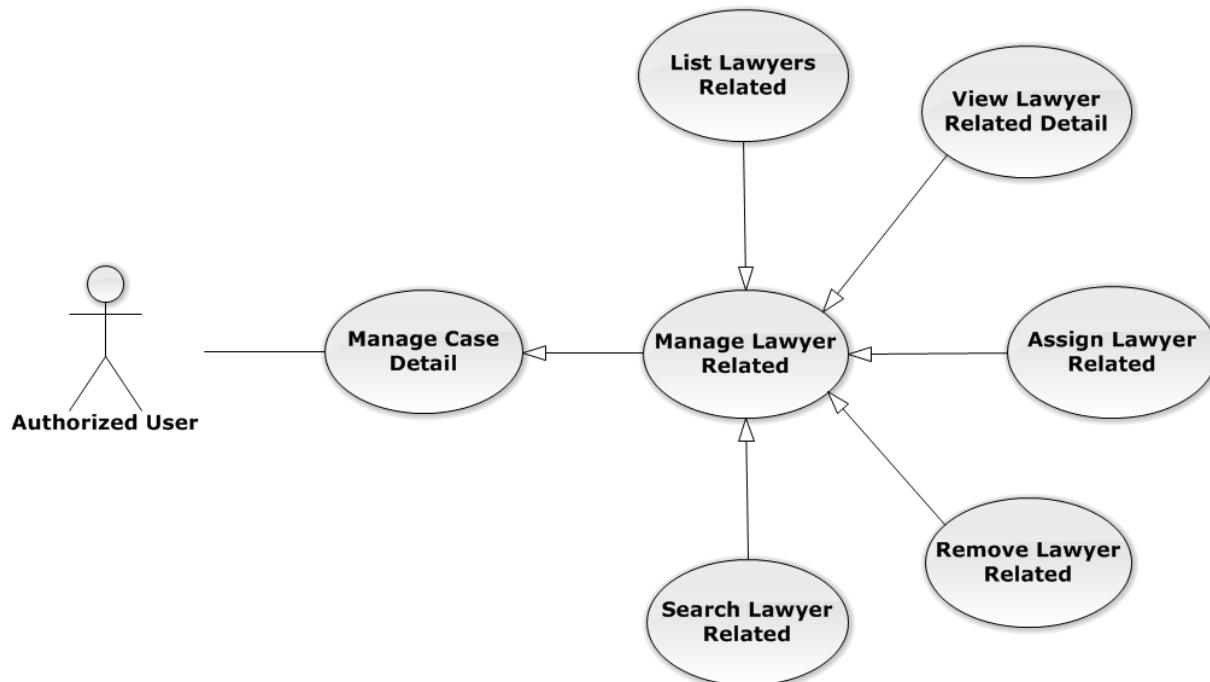


Figure 21: Manage Lawyer Related Use-Case Diagram

### **3.2.2.6.4.3.1. List Lawyers Related**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### **3.2.2.6.4.3.2. View Lawyer Related Detail**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### **3.2.2.6.4.3.3. Assign Lawyer Related**

#### **3.2.2.6.4.3.3.1. Assign Lawyer Related Use-Case Diagram**

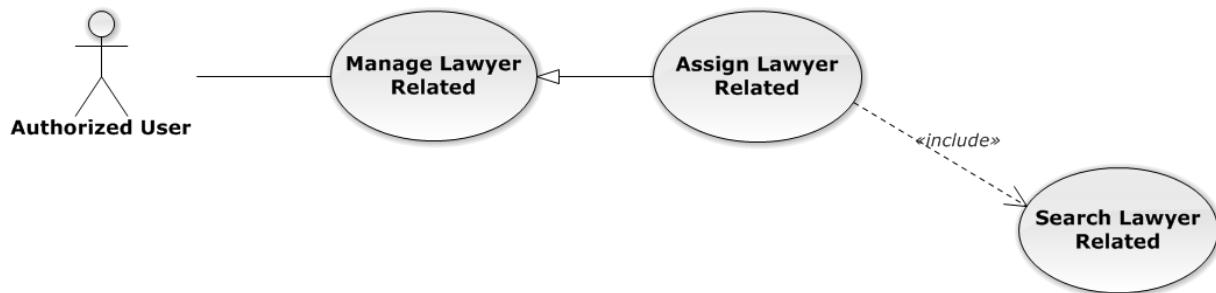


Figure 22: Assign Lawyer Related Use-Case Diagram

#### **3.2.2.6.4.3.3.2. Assign Lawyer Related Use-Case Specification**

<b>USE-CASE SPECIFICATION</b>			
<b>Use-case No.</b>	UC0013	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Assign Lawyer Related		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	High
<b>Actor:</b> Authorized User, who create the current Case			
<b>Summary:</b> Staff can assign Lawyer into Case			
<b>Goal:</b>			

Helps Staff assign any Lawyers into Case

**Triggers:**

Staff click on “Thêm vào danh sách” button after choose Lawyer in search form beside

**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 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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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.

#### 3.2.2.6.4.3.4. Remove Lawyer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 3.2.2.6.4.3.5. Search Lawyer Related

##### 3.2.2.6.4.3.5.1. Search Lawyer Related Use-Case Diagram



Figure 23: Search Lawyer Related Use-Case Diagram

##### 3.2.2.6.4.3.5.2. Search Lawyer Related Use-Case Specification

#### USE-CASE SPECIFICATION

<b>Use-case No.</b>	UC0014	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Search Lawyer Related		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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
<b>Alternative Scenario:</b>		
#	<i>User</i>	<i>System</i>
1	Click out of result list	Result list is clear
<b>Exceptions:</b>		
N/A		
<b>Relationships:</b>		
Manage Lawyer Related		
<b>Business Rules:</b>		
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.		

#### 3.2.2.6.4.4. Manage Customer Related

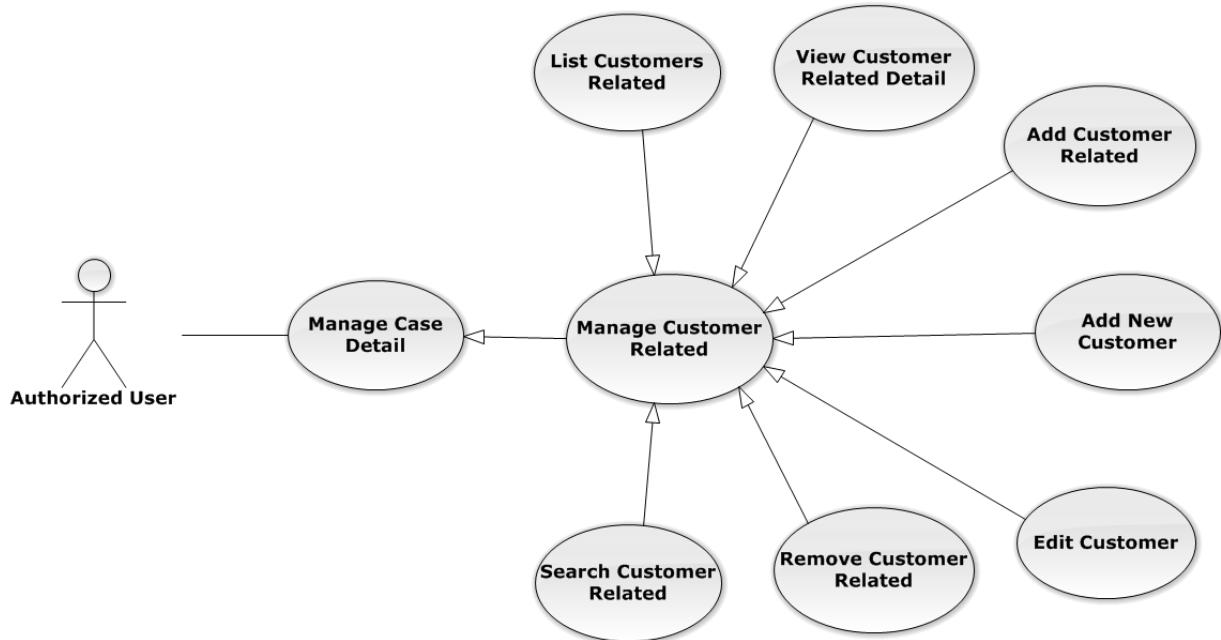


Figure 24: Manage Customer Related Use-Case Diagram

##### 3.2.2.6.4.4.1. List Customers Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.6.4.4.2. View Customer Related Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.6.4.4.3. Add Customer Related

#### 3.2.2.6.4.4.3.1. Add Customer Related Use-Case Diagram



Figure 25: Add Customer Related Use-Case Diagram

#### 3.2.2.6.4.4.3.2. Add Customer Related Use-Case Specification

USE-CASE SPECIFICATION			
<b>Use-case No.</b>	UC0015	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add Customer Related		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b> Authorized User, who is assigned in current case			
<b>Summary:</b> Staff can add a available customer on Database into Case			
<b>Goal:</b>			

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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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.

#### 3.2.2.6.4.4.4. Remove Customer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 3.2.2.6.4.4.5. Search Customer Related

##### 3.2.2.6.4.4.5.1. Search Customer Related Use-Case Diagram

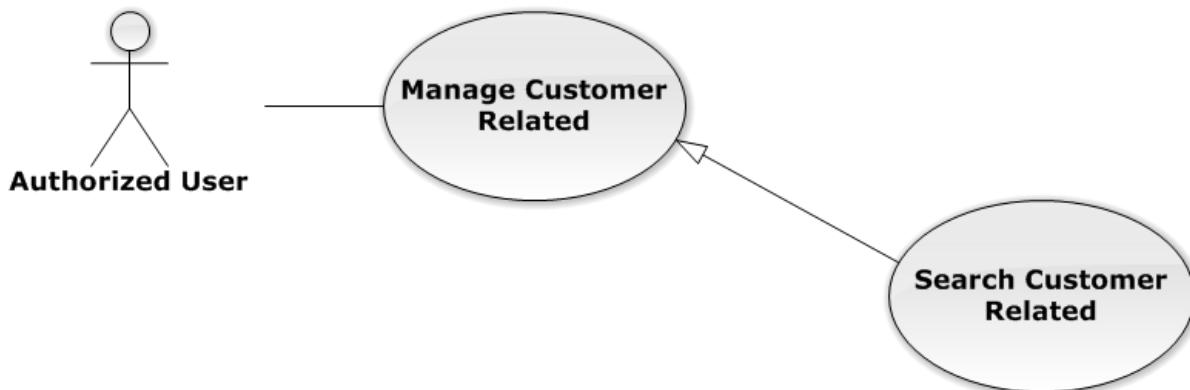


Figure 26: Search Customer Related Use-Case Diagram

##### 3.2.2.6.4.4.5.2. Search Customer Related Use-Case Specification

#### USE-CASE SPECIFICATION

<b>Use-case No.</b>	UC0016	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Search Customer Related		
<b>Author</b>	Nguyễn Thế Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

- 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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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
<b>Alternative Scenario:</b>		
<b>Step</b>	<b>User</b>	<b>System</b>
1	Click out of result list	Result list is clear
<b>Exceptions:</b>		
N/A		
<b>Relationships:</b>		
Manage Customer Related		
<b>Business Rules:</b>		
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.		

### 3.2.2.6.4.5. Manage Subject Related

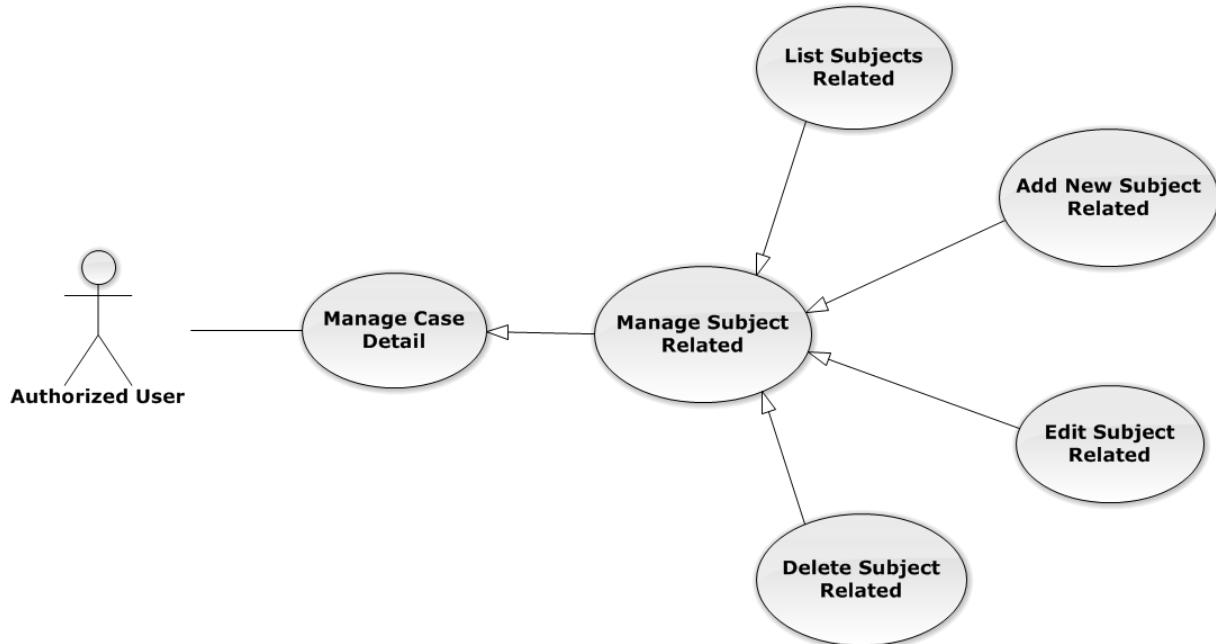


Figure 27: Manage Subject Related Use-Case Diagram

#### 3.2.2.6.4.5.1. List Subjects Related

### 3.2.2.6.4.5.2. Add New Subject Related

#### 3.2.2.6.4.5.2.1. Add New Subject Related Use-Case Diagram

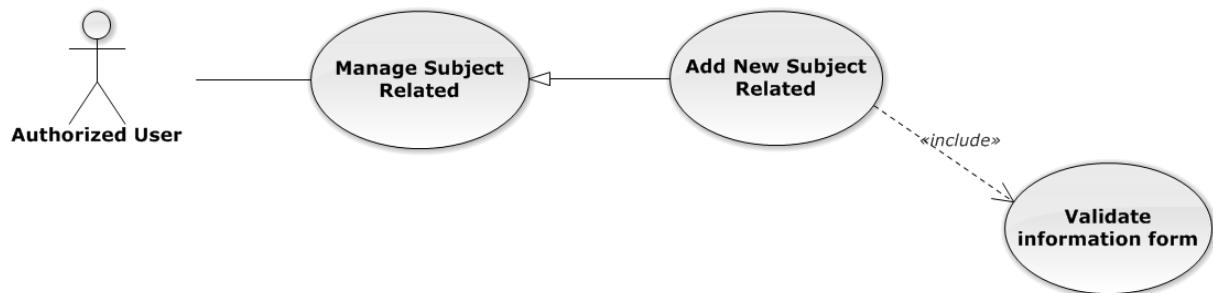


Figure 28: Add New Subject Related Use-Case Diagram

#### 3.2.2.6.4.5.2.2. Add New Subject Related Use-Case Specification

USE-CASE SPECIFICATION			
<b>Use-case No.</b>	UC0017	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Subject Related		
<b>Author</b>	Nguyễn Thanh Vinh		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b> Authorized User, who is assigned in current case			
<b>Summary:</b> Staff can create new a subject related into case			
<b>Goal:</b> Helps Staff create new a subject easily			
<b>Triggers:</b> Staff click on “Tạo chủ thể” button at the bottom of table			

**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:

- Add new a subject into Case
- Show message assign successfully: “Thêm chủ thẻ thành công!”

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

**Main Success Scenario:**

Step	User	System
1	Click on edit icon beside “Chủ thẻ liên quan” label	“Thêm chủ thẻ mới” button is display
2	Staff click on “Tạo chủ thẻ” 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"><li>• Modal popup is close</li><li>• System display successful message “Thêm chủ thẻ thành công!”</li><li>• Update list subject on page</li></ul>

**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

**3.2.2.6.4.5.3. Edit Subject Related**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

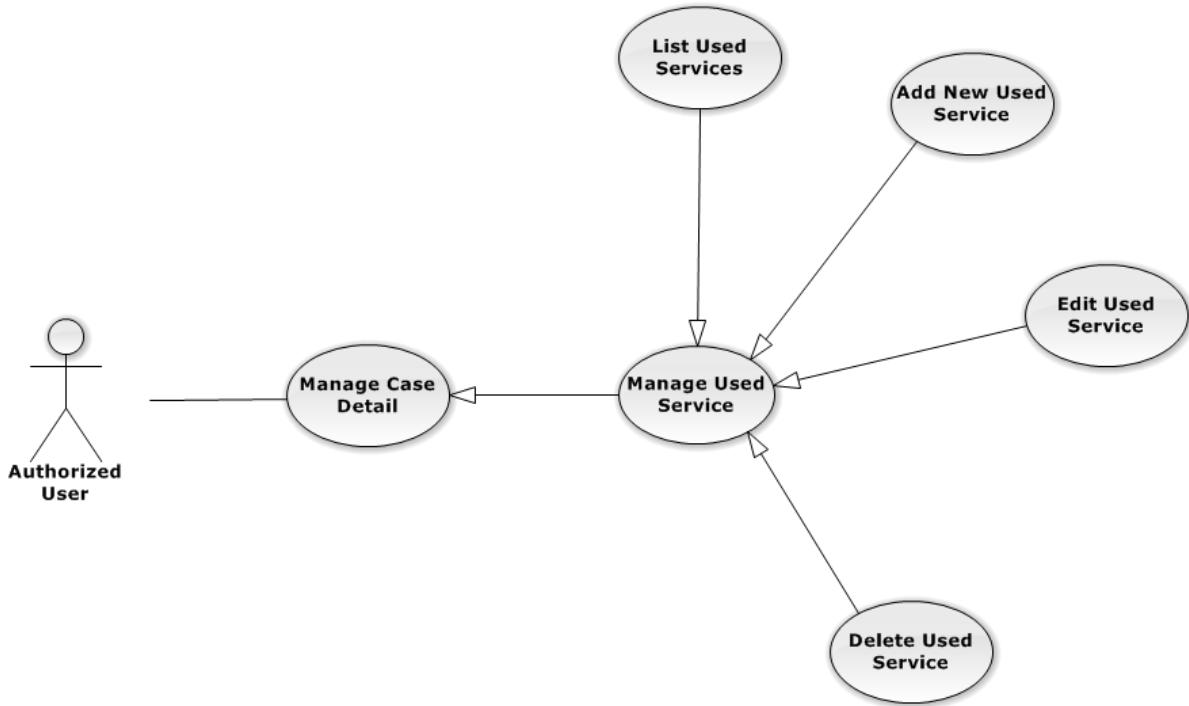
**3.2.2.6.4.5.4. Delete Subject Related**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

**3.2.2.6.4.6. Manage Document Related**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

**3.2.2.6.4.7. Manage Used Service**



*Figure 29: Manage Used Service Use-Case Diagram*

### 3.2.2.6.4.7.1. List Used Services

#### 3.2.2.6.4.7.1.1. List Used Services Use-Case Diagram



*Figure 30: List Used Services Use-Case Diagram*

#### 3.2.2.6.4.7.1.2. List Used Services Use-Case Specification

**USE-CASE SPECIFICATION**

<b>Use-case No.</b>	UC0018	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Used Services		
<b>Author</b>	Nguyễn Tiến Thành		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal

**Actor:**

Authorized User

**Summary:**

Show all Used Service of case.

**Goal:**

Help staff to view all Used Service of case.

**Triggers:**

User click on “Hóa đơn” link in Case Detail page

**Preconditions:**

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

**Post Conditions:**

Success:

- List all Used Service in current case include company name and customer name.
- Display total money of list Used Service

Failure: Do nothing

**Main Success Scenario:**

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

**Alternative Scenario:**

N/A

**Exceptions:**

N/A

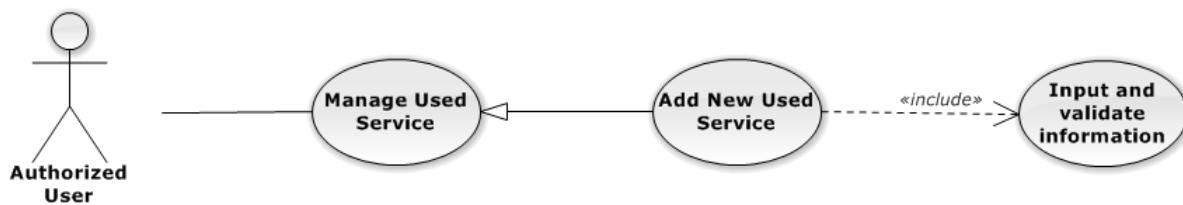
**Relationships:**

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.

**3.2.2.6.4.7.2. Add New Used Service****3.2.2.6.4.7.2.1. Add New Used Service Use-Case Diagram**

*Figure 31: Add New Used Service Use-Case Diagram*

**3.2.2.6.4.7.2.2. Add New Used Service Use-Case Specification**

<b>USE-CASE SPECIFICATION</b>			
<b>Use-case No.</b>	UC0019	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Used Service		
<b>Author</b>	Nguyễn Tiến Thành		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>	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:**

- 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:**

- 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:

- Add new Used Service into current Case
- Calculation and display the total money of Used Service to “Tổng Chi Phí” field and “Chưa Thanh Toán” field.
- 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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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” button [Alternative 1], [Exception 1], [Exception 2]	System display message “Thêm dịch vụ 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 “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.

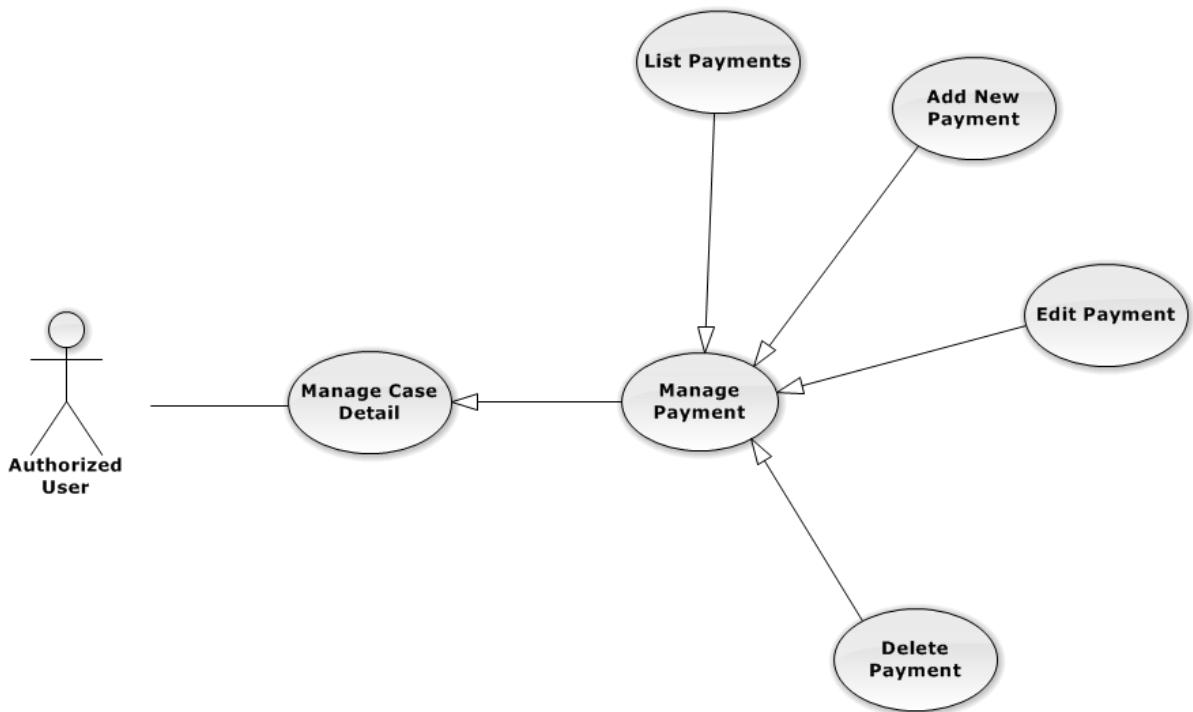
**3.2.2.6.4.7.3. Edit Used Service**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

**3.2.2.6.4.7.4. Delete Used Service**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

**3.2.2.6.4.8. Manage Payment**



*Figure 32: Manage Payment Use-Case Diagram*

#### 3.2.2.6.4.8.1. List Payments

##### 3.2.2.6.4.8.1.1. List Payments Use-Case Diagram



*Figure 33: List Payments Use-Case Diagram*

##### 3.2.2.6.4.8.1.2. List Payments Use-Case Specification

**USE-CASE SPECIFICATION**

<b>Use-case No.</b>	UC0020	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Payments		
<b>Author</b>	Nguyễn Tiến Thành		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

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

**Post Conditions:**

Success:

- List all payment in current case include
- Display total money of list payment.

Failure: Do nothing

**Main Success Scenario:**

<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:**

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

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.

### 3.2.2.6.4.8.2. Add New Payment

#### 3.2.2.6.4.8.2.1. Add New Payment Use-Case Diagram

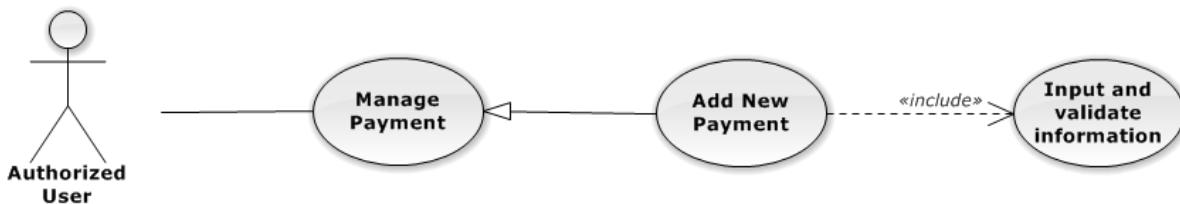


Figure 34: Add New Payment Use-Case Diagram

#### 3.2.2.6.4.8.2.2. Add New Payment Use-Case Specification

USE-CASE SPECIFICATION			
<b>Use-case No.</b>	UC0021	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Payment		
<b>Author</b>	Nguyễn Tiến Thành		
<b>Date</b>	30/01/2014	<b>Priority</b>	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:**

- 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:**

- 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:

- 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	System display message “Thêm thanh toán thành công!”

	[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 “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.

### 3.2.2.6.4.8.3. Edit Payment

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.6.4.8.4. Delete Payment

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.6.4.9. Integrate Thư Viện Pháp Luật

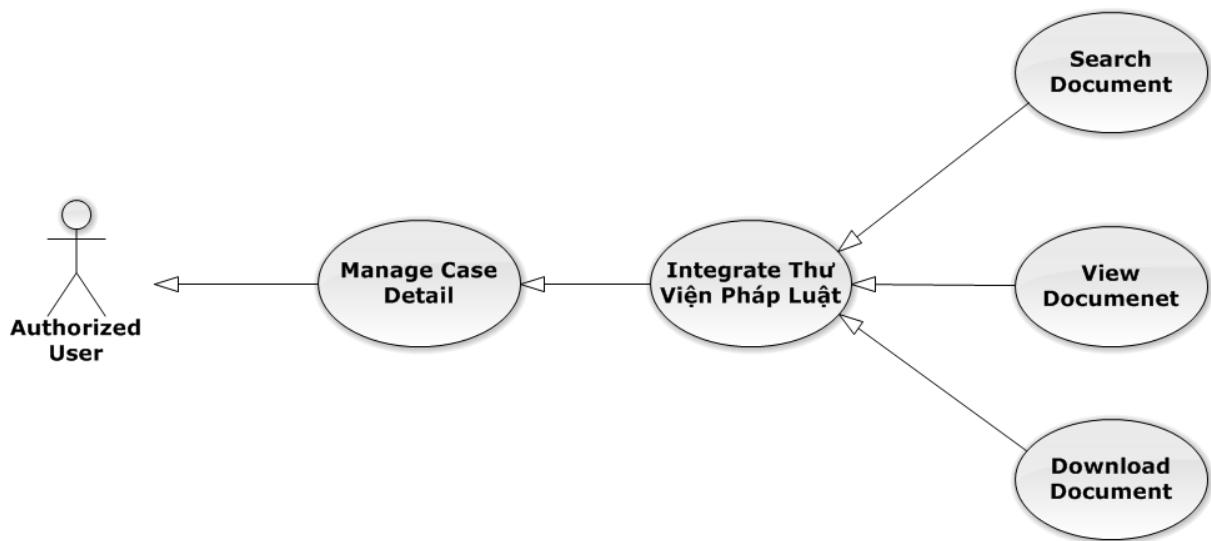


Figure 35: Integrate Thư Viện Pháp Luật Use-Case Diagram

### 3.2.2.6.4.9.1. Search Document

#### 3.2.2.6.4.9.1.1. Search Document Use-Case Diagram



Figure 36: Search Document Use-Case Diagram

#### 3.2.2.6.4.9.1.2. Search Document Use-Case Specification

USE-CASE SPECIFICATION			
Use-case No.	UC0022	Use-case Version	1.0
Use-case Name	Search Document		
Author	Nguyễn Tiến Thành		
Date	30/01/2014	Priority	Normal

**Actor:**

Authorized User

**Summary:**

Staff can search document resource of website <http://thuvienphapluat.vn> by LFMS

**Goal:**

Helps Staff search document about law.

**Triggers:**

- Staff click on “Trợ giúp” button Case Detail page
- Choose type of document want to search, and input keyword to search.
- Click on “Tìm kiếm” button to search document.

**Preconditions:**

- Must be logged-in
- Connect the Internet
- The page is fully loaded

**Post Conditions:**

Success: Display result of search.

Failure: System display error message.

**Main Success Scenario:**

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click on “Trợ giúp” button	Display Search popup
2	Choose type of document want to search. Choose constraints to search. Click “Tìm kiếm” button [Alternative 1], [Exception 1]	Display the result of search.

**Alternative Scenario:**

#	<i>User</i>	<i>System</i>
1	Click on “Đóng” button	Search Popup is closed.

**Exceptions:**

#	User	System
1	When can't connect to website	Shows error message “Không thể login vào thuvienphapluat.vn, hãy kiểm tra kết nối mạng!”.

**Relationships:**  
Integrate Thư Viện Pháp Luật

**Business Rules:**  
N/A

### 3.2.2.6.4.9.2. View Document

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.6.4.9.3. Download Document

#### 3.2.2.6.4.9.3.1. Download Document Use-Case Diagram

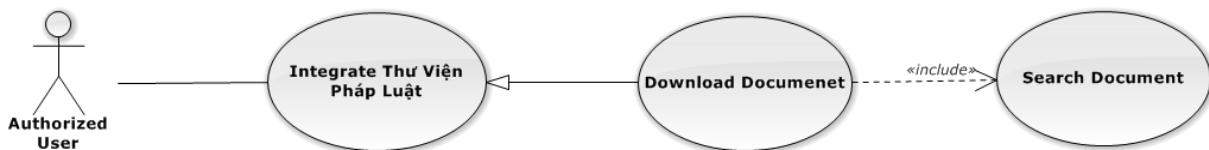


Figure 37: Download Document Use-Case Diagram

#### 3.2.2.6.4.9.3.2. Download Document Use-Case Specification

USE-CASE SPECIFICATION			
<b>Use-case No.</b>	UC0023	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Download Document		
<b>Author</b>	Nguyễn Tiến Thành		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal

**Actor:**

Authorized User, who is assigned in current case

**Summary:**

Staff can download document and add into Case.

**Goal:**

Helps staff to download document

**Triggers:**

- Staff click on “Tải về” link

**Preconditions:**

- Must be logged-in
- The page is fully loaded
- Search document successful
- Must be in “Search” popup

**Post Conditions:**

Success: The success message is displayed

Failure: Display error message

**Main Success Scenario:**

<i>Step</i>	<i>User</i>	<i>System</i>
1	Staff click on “Tải về” link [Alternative 1], [Exception 1]	The popup waiting is display “Hệ thống đang tải văn bản Xin hãy đợi 1 lát ...” The message result of download is displayed.

**Alternative Scenario:**

#	<i>User</i>	<i>System</i>
1	Click “Đóng” button	Modal popup is close

**Exceptions:**

#	<i>User</i>	<i>System</i>
1	When can't connect to website	Shows error message “Không thể login vào”

		thuvienphapluat.vn, hãy kiểm tra kết nối mạng!".
	When can't download file	Shows error message "Không thể login vào thuvienphapluat.vn, hãy kiểm tra kết nối mạng!".

**Relationships:**  
Integrate Thư Viện Pháp Luật

**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. Manage Customer Group

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.8. Manage Customer

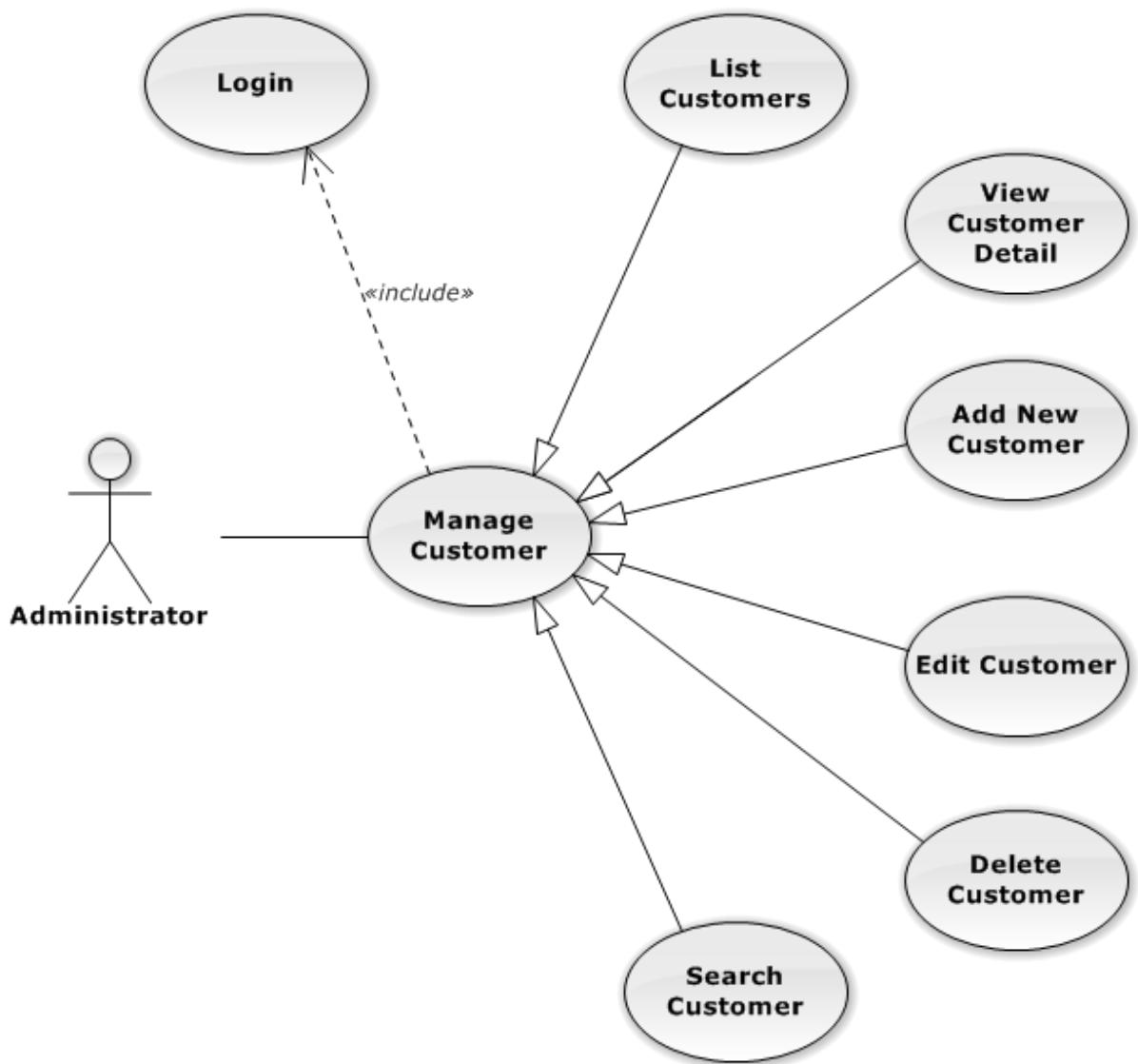


Figure 38: Manage Customer Use-Case Diagram

### 3.2.2.8.1. List Customers

#### 3.2.2.8.1.1. List Customers Use-Case Diagram

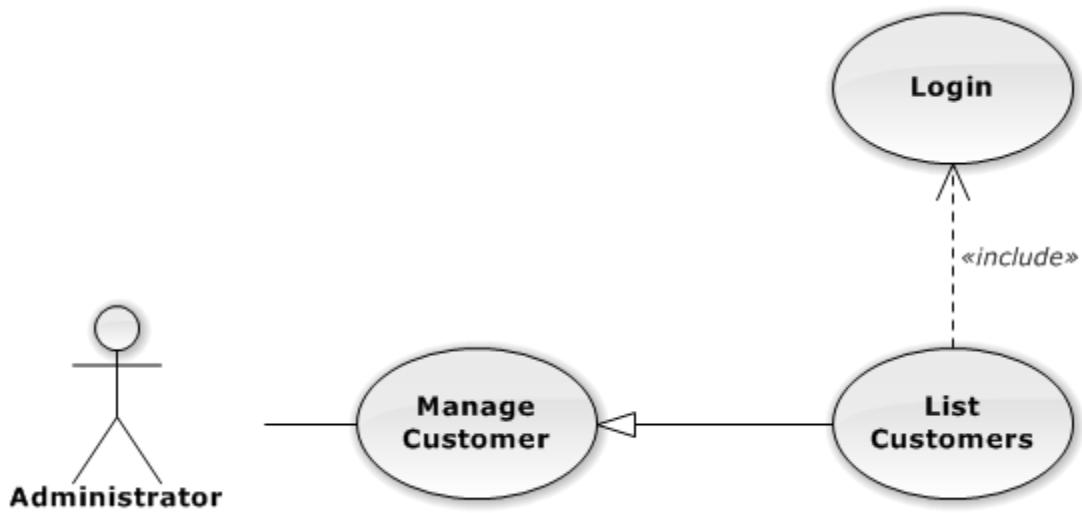


Figure 39: List Customers Use-Case Diagram

### 3.2.2.8.1.2. List Customers Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0024	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Customers		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b> Administrator			
<b>Summary:</b> List All Customer.			
<b>Goal:</b> The purpose of List Customers use case is allowing Admin to view all Customers.			
<b>Triggers:</b> 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

### 3.2.2.8.2. View Customer Detail

#### 3.2.2.8.2.1. View Customer Detail Use-Case Diagram

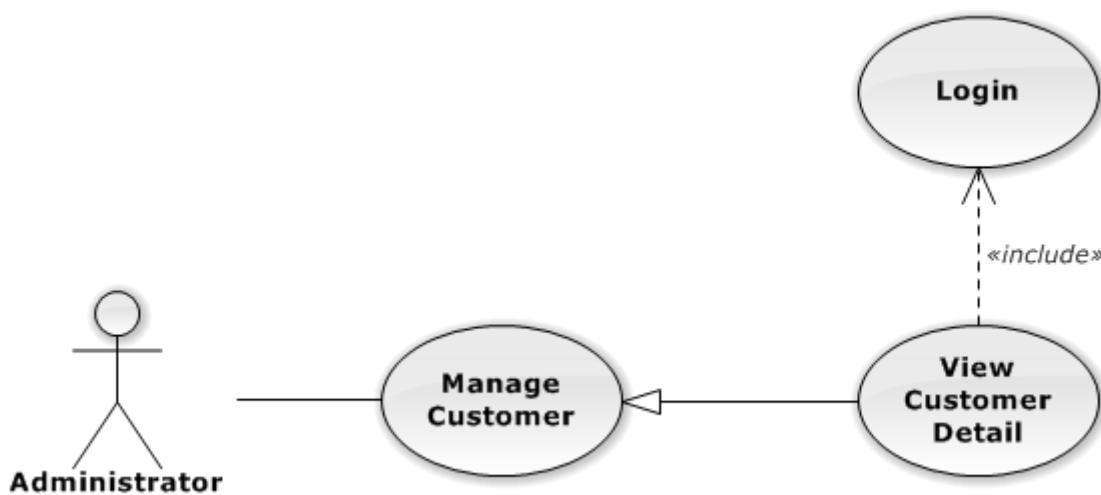


Figure 40: View Customer Detail Use-Case Diagram

### 3.2.2.8.2.2. View Customer Detail Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0025	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	View Customer Detail		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b> Administrator			
<b>Summary:</b> View Customer Detail.			
<b>Goal:</b> The purpose of View Customer Detail use case is allowing Admin to view a Customer detail.			
<b>Triggers:</b>			

User choose “Quản lý Khách Hàng” in menu. Then click “View detail” icon.

**Preconditions:**

User is authenticated and has role “admin”.

**Post Conditions:**

Success: Customer Detail is showed.

Failure: Do nothing.

**Main Success Scenario:**

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

**Alternative Scenario:**

N/A

**Exceptions:**

N/A

**Relationships:**

Manage Customer

**Business Rules:**

N/A

### 3.2.2.8.3. Add New Customer

#### 3.2.2.8.3.1. Add New Customer Use-Case Diagram

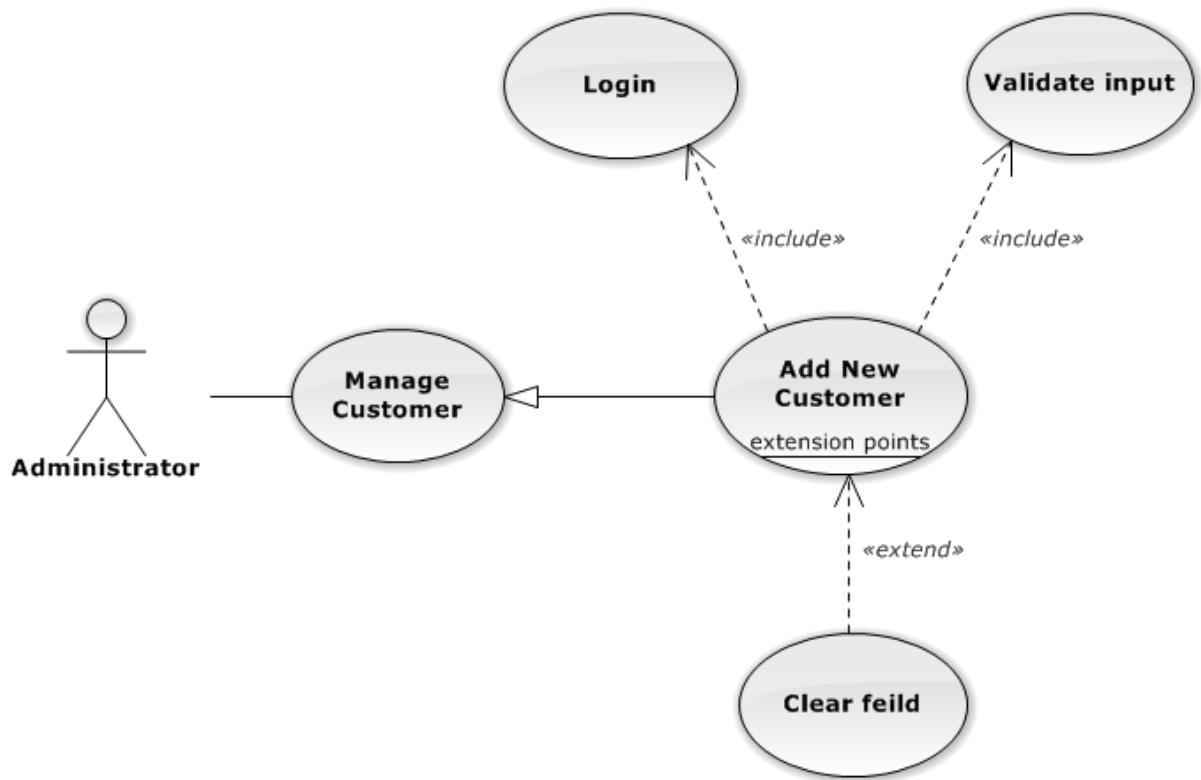


Figure 41: Add New Customer Use-Case Diagram

### 3.2.2.8.3.2. Add New Customer Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0026	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Customer		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>			
Administrator			
<b>Summary:</b>			
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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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:**

<b>#</b>	<b>User</b>	<b>System</b>
1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New Customer pop-up is close.

**Exceptions:**

<b>#</b>	<b>User</b>	<b>System</b>
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

### 3.2.2.8.4. Edit Customer

#### 3.2.2.8.4.1. Edit Customer Use-Case Diagram

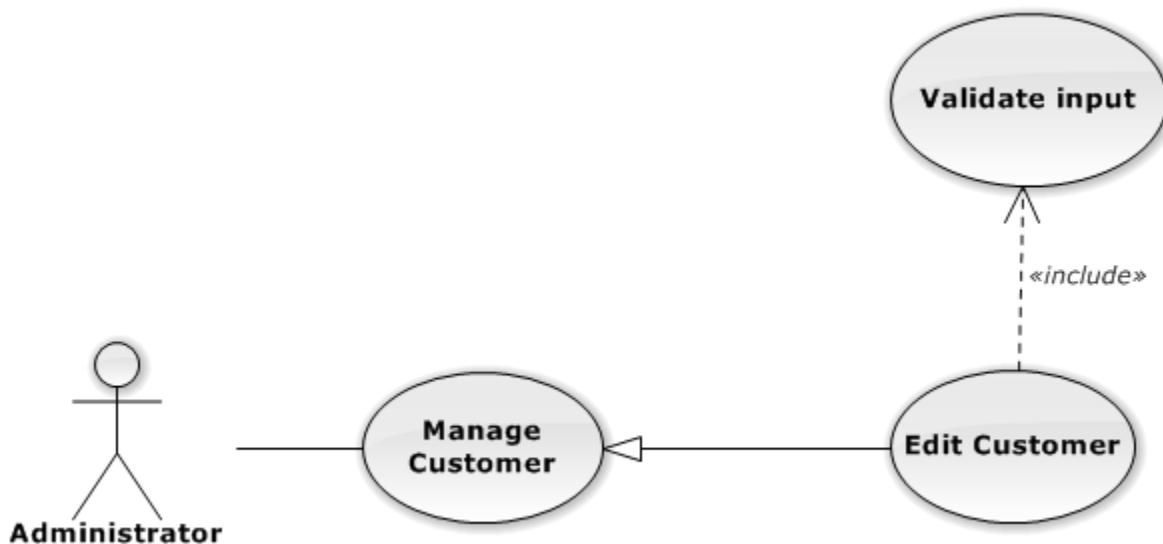


Figure 42: Edit Customer Use-Case Diagram

### 3.2.2.8.4.2. Edit Customer Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0027	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Edit Customer		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>	Administrator		
<b>Summary:</b>	Update Customer.		
<b>Goal:</b>	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:**

<b>Step</b>	<b>User</b>	<b>System</b>
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:**

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

**Exceptions:**

<b>#</b>	<b>User</b>	<b>System</b>
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

### 3.2.2.8.5. Delete Customer

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.8.6. Search Customer

#### 3.2.2.8.6.1. Search Customer Use-Case Diagram

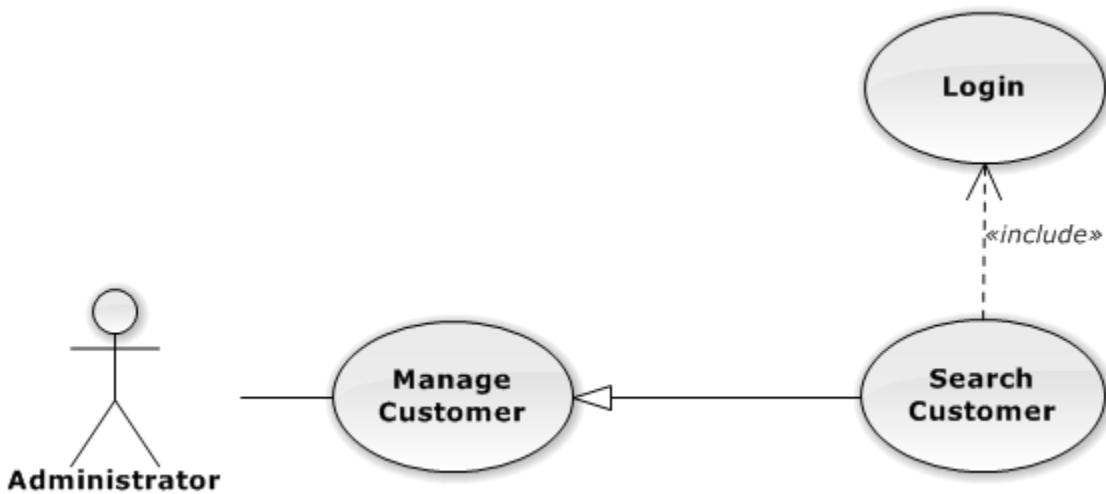


Figure 43: Search Customer Use-Case Diagram

### 3.2.2.8.6.2. Search Customer Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0028	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Search Customer		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>			
Administrator			
<b>Summary:</b>			
Search Customer.			
<b>Goal:</b>			
The purpose of Search Customer use case is allowing Admin to search Customer.			
<b>Triggers:</b>			
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:**

<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

### 3.2.2.9. Manage Staff Group

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

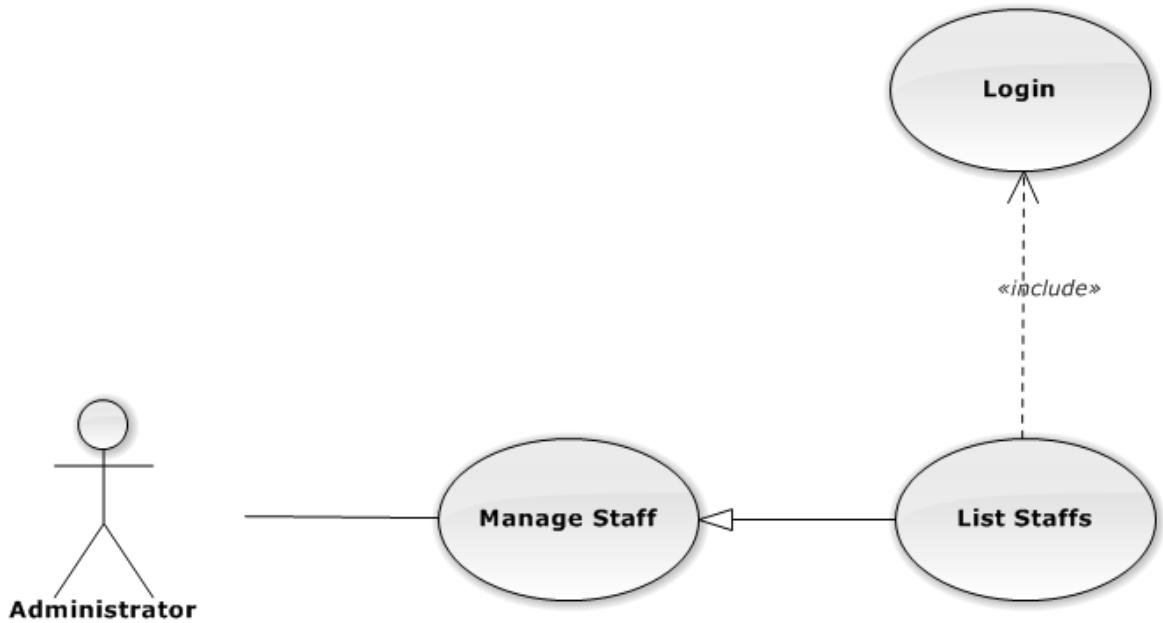
### 3.2.2.10. Manage Staff



*Figure 44: Manage Staff Use-Case Diagram*

### 3.2.2.10.1. List Staffs

#### 3.2.2.10.1.1. List Staffs Use-Case Diagram



*Figure 45: List Staffs Use-Case Diagram*

### 3.2.2.10.1.2. List Staffs Use-Case Specification

USE-CASE SPECIFICATION			
<b>Use-case No.</b>	UC0029	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Staffs		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>	Administrator		
<b>Summary:</b>	Redirect user to “Quản lý nhân viên” page and list all staff.		
<b>Goal:</b>	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:**

Step	User	System
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.

### 3.2.2.10.2. View Staff Detail

#### 3.2.2.10.2.1. View Staff Detail Use-Case Diagram

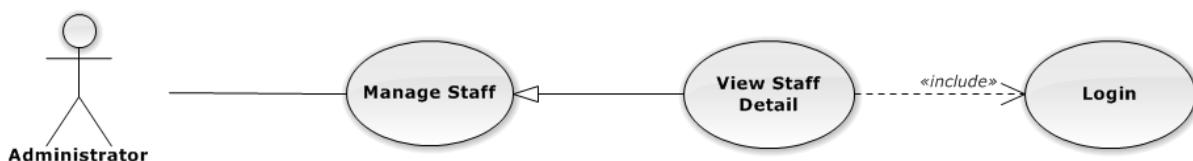


Figure 46: View Staff Detail Use-Case Diagram

#### 3.2.2.10.2.2. View Staff Detail Use-Case Specification

<b>USE-CASE SPECIFICATION</b>									
<b>Use-case No.</b>	UC0030	<b>Use-case Version</b>	1.0						
<b>Use-case Name</b>	View Staff Detail								
<b>Author</b>	Nguyễn Thanh Sang								
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal						
<p><b>Actor:</b> Administrator</p> <p><b>Summary:</b> Administrator can view detail of staff information</p> <p><b>Goal:</b> Helps Administrator view staff information</p> <p><b>Triggers:</b></p> <ul style="list-style-type: none"> <li>• On User Control Panel click on “Quản lý nhân viên”,</li> <li>• Click click on “Chi tiết” button</li> <li>• Click on image staff.</li> </ul> <p><b>Preconditions:</b></p> <ul style="list-style-type: none"> <li>• Must be logged-in with “Admin” role</li> <li>• The page is fully loaded</li> </ul> <p><b>Post Conditions:</b></p> <p>Success: The detail staff information is displayed</p> <p>Failure: Do nothing</p> <p><b>Main Success Scenario:</b></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>Staff click on “chi tiết” button or click on image link [Alternative 1] ,[Alternative 2] [Alternative 3] ,[Alternative 4]</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] [Alternative 3] ,[Alternative 4]	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] [Alternative 3] ,[Alternative 4]	The detail staff information is displayed.							

**Alternative Scenario:**

#	User	System
1	Click on [X] button, “Đóng” button, or click out of modal	Modal popup is close
2	If staff login with Id="1", Click on “Chỉnh sửa” button	Administrator can update information of office (ref 3.2.2.2.4. 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 3.2.2.2.5. Deactivate/Activate staff)
4	If staff login with Id="1", Click on “Đặt lại mật khẩu” link	Administrator can reset password staff (ref 3.2.2.2.7. Reset Password staff)

**Exceptions:**

N/A

**Relationships:**

Manage Staff

**Business Rules:**

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

### 3.2.2.10.3. Add New Staff

#### 3.2.2.10.3.1. Add New Staff Use-Case Diagram

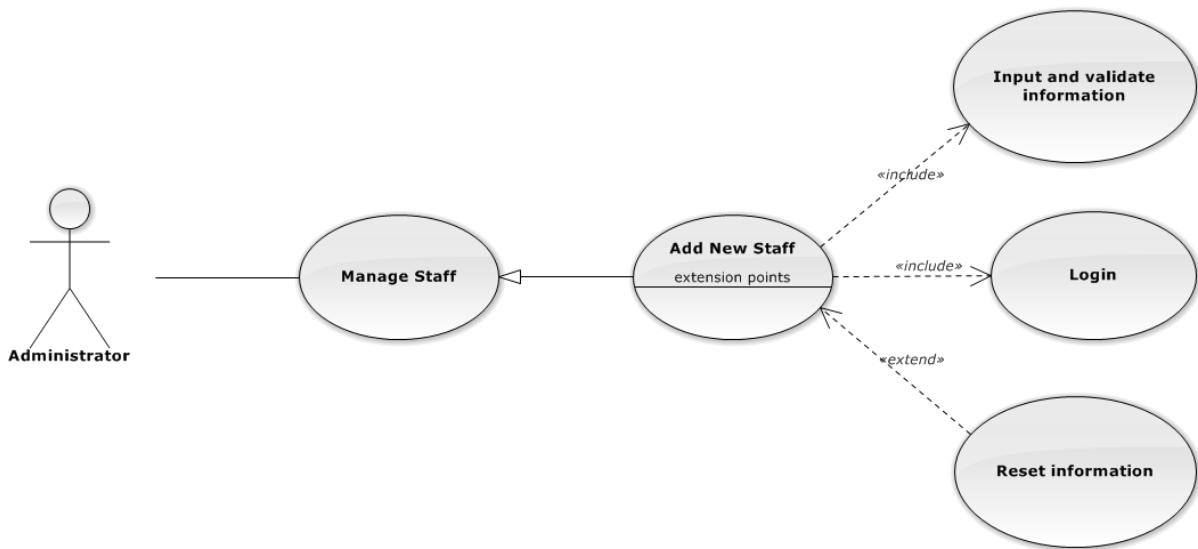


Figure 47: Add New Staff Use-Case Diagram

### 3.2.2.10.3.2. Add New Staff Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0031	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Staff		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	24/03/2014	<b>Priority</b>	High
<b>Actor:</b> Administrator.			
<b>Summary:</b> Administrator can insert new staff into the system.			
<b>Goal:</b> Add new staff.			
<b>Triggers:</b>			

At “Quản lý nhân viên” page, Administrator click on “Thêm nhân viên” button and fill information after that click button “Thêm mới” button.

#### **Preconditions:**

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

#### **Post Conditions:**

Success:

- 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.

Failure:

Show message “Thêm nhân viên thất bại, hãy kiểm tra lại kết nối database”.

#### **Main Success Scenario:**

<b>Step</b>	<b>User</b>	<b>System</b>
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:**

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

#### **Exceptions:**

#	<b>User</b>	<b>System</b>
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.

### 3.2.2.10.4. Edit Staff

#### 3.2.2.10.4.1. Edit Staff Use-Case Diagram

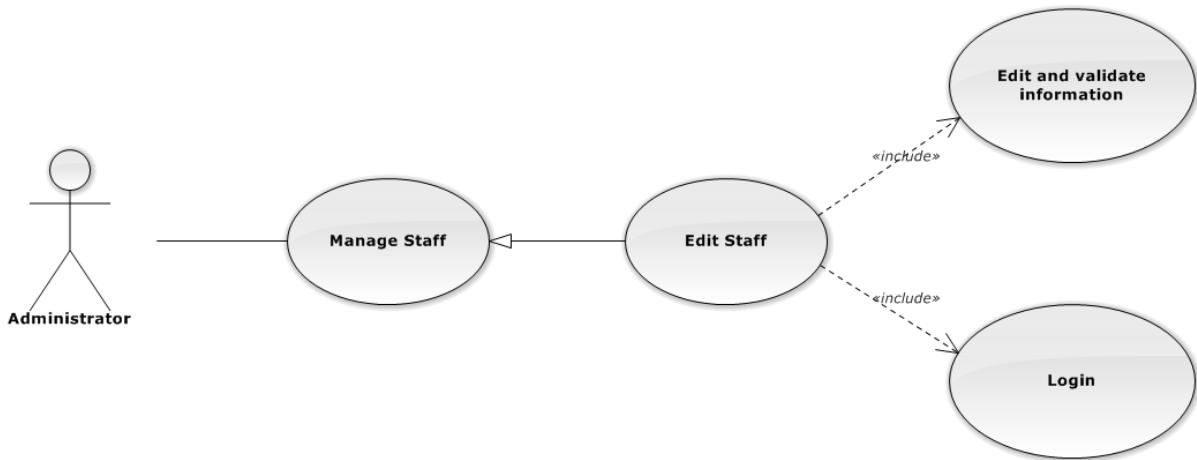


Figure 48: Edit Staff Use-Case Diagram

#### 3.2.2.10.4.2. Edit Staff Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0032	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Edit Staff		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	24/03/2014	<b>Priority</b>	Normal
<b>Actor:</b>	Administrator.		
<b>Summary:</b>			

Administrator can update information of staff.

**Goal:**

Administrator can update information of staff and save to database system.

**Triggers:**

- 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”.

**Preconditions:**

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

**Post Conditions:**

Success:

- 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.

Failure:

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

**Main Success Scenario:**

<i>Step</i>	<i>User</i>	<i>System</i>
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:**

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

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.

### 3.2.2.10.5. Deactivate/Activate staff

#### 3.2.2.10.5.1. Deactivate/Activate staff Use-CaseDiagram

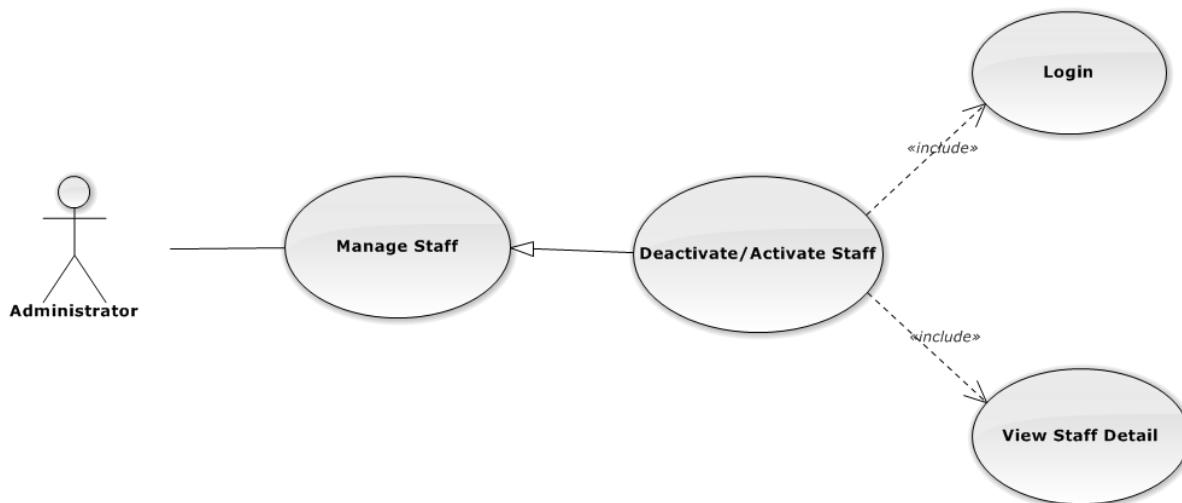


Figure 49: Deactivate/Activate Staff Use-Case Diagram

#### 3.2.2.10.5.2. Deactivate/Activate staff Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0033	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Deactivate/Activate staff		
<b>Author</b>	Nguyễn Thanh Sang		

<b>Date</b>	24/03/2014	<b>Priority</b>	Normal						
<b>Actor:</b>									
Administrator.									
<b>Summary:</b>									
Administrator can change status of Staff.									
<b>Goal:</b>									
Helps Administrator update Status of staff and save to database system.									
<b>Triggers:</b>									
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.									
<b>Preconditions:</b>									
<ul style="list-style-type: none"> <li>• Logged-in as “Admin” role</li> <li>• The page is fully loaded</li> </ul>									
<b>Post Conditions:</b>									
<p>Success:</p> <p>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:</p> <p>Show message “Thay đổi hoạt động nhân viên thất bại!”, “Hãy kiểm tra lại kết nối database”.</p>									
<b>Main Success Scenario:</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc; width: 10%;">Step</th> <th style="background-color: #cccccc; width: 40%;">User</th> <th style="background-color: #cccccc; width: 50%;">System</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Supper admin click on “Chỉnh sửa” button at “Quản lý nhân viên” screen.</td> <td>Show “Chi tiết nhân viên” Pop-up information.</td> </tr> </tbody> </table>		Step	User	System	1	Supper admin click on “Chỉnh sửa” button at “Quản lý nhân viên” screen.	Show “Chi tiết nhân viên” Pop-up information.		
Step	User	System							
1	Supper admin click on “Chỉnh sửa” button at “Quản lý 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 lý nhân viên”screen

#### Alternative Scenario:

Alternative:

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

#### Exceptions:

#	<b>User</b>	<b>System</b>
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.

### 3.2.2.10.6. Search Staff

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.10.7. Reset Password

#### 3.2.2.10.7.1. Reset Password Use-Case Diagram

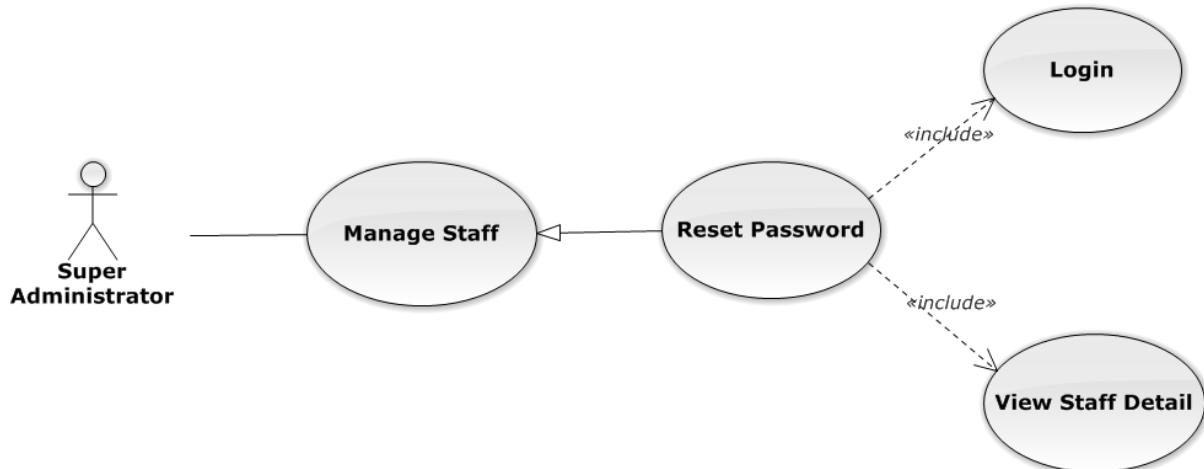


Figure 50: Reset Password Use-Case Diagram

#### 3.2.2.10.7.2. Reset Password Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0034	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Reset Password		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	24/03/2014	<b>Priority</b>	Normal
<b>Actor:</b> Supper Administrator.			
<b>Summary:</b> Supper Administrator can reset password of all staff to default.			
<b>Goal:</b>			

Helps Supper Administrator reset password to default is “123456”.

**Triggers:**

Supper Supper Administrator wants to reset password staff.

Supper Administrator goes to “Staff detail” screen, and click to button “Đặt lại mật khẩu”

**Preconditions:**

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

**Post Conditions:**

Success: Default password “123456” is save to database, message show “Khôi phục mật khẩu thành công”

Failure:

- The user is presented with an error message on screen.
- Show message “Khôi phục mật khẩu thất bại!”.

**Main Success Scenario:**

<b>Step</b>	<b>User</b>	<b>System</b>
1	Supper admin click on “Chi tiết” button at “Quản lý 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 lý 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.

### 3.2.2.11. Manage Service Type

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.12. Manage Service

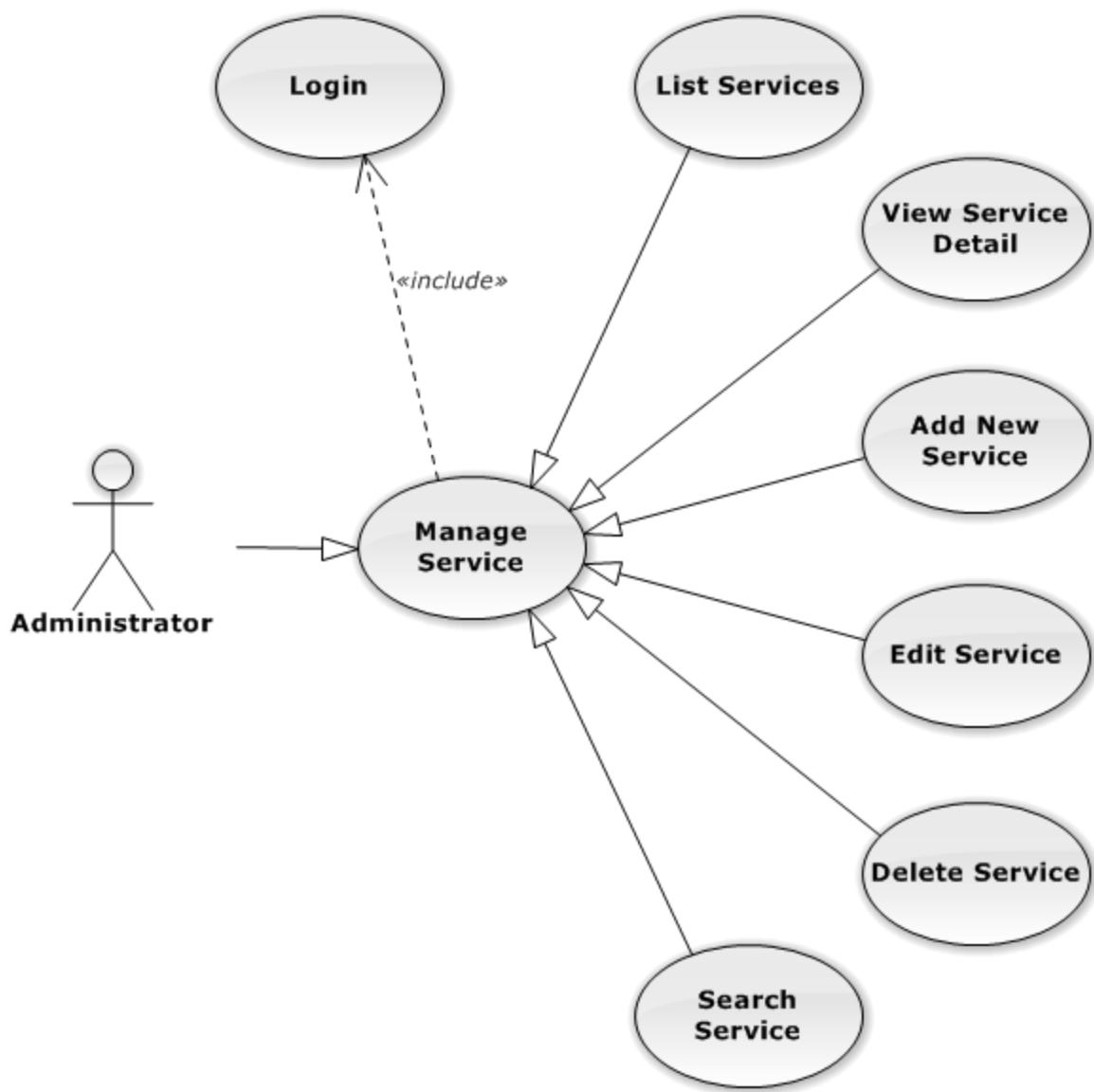


Figure 51: Manage Service Use-Case Diagram

### 3.2.2.12.1. List Services

#### 3.2.2.12.1.1. List Services Use-Case Diagram

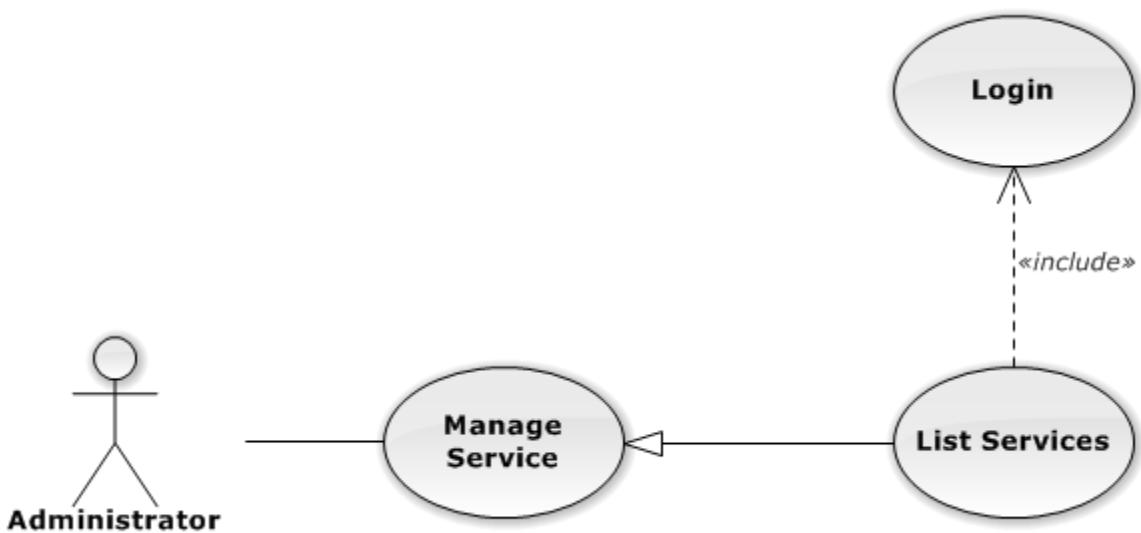


Figure 52: List Services Use-Case Diagram

### 3.2.2.12.1.2. List Services Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0035	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Services		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>	Administrator		
<b>Summary:</b>	List All Service.		
<b>Goal:</b>	The purpose of List Service use case is allowing Admin to view all Services.		
<b>Triggers:</b>			

User choose “Quản lý Dịch Vụ” in menu.

**Preconditions:**

User is authenticated and has role “admin”.

The page is fully loaded.

**Post Conditions:**

Success: All Services is listed.

Failure: Do nothing.

**Main Success Scenario:**

<i>Step</i>	<i>User</i>	<i>System</i>
1	Click “Quản lý Dịch Vụ” in menu.	All Services are loaded.

**Alternative Scenario:**

N/A

**Exceptions:**

N/A

**Relationships:**

Manage Service

**Business Rules:**

N/A

### 3.2.2.12.2. View Service Detail

#### 3.2.2.12.2.1. View Service Detail Use-Case Diagram

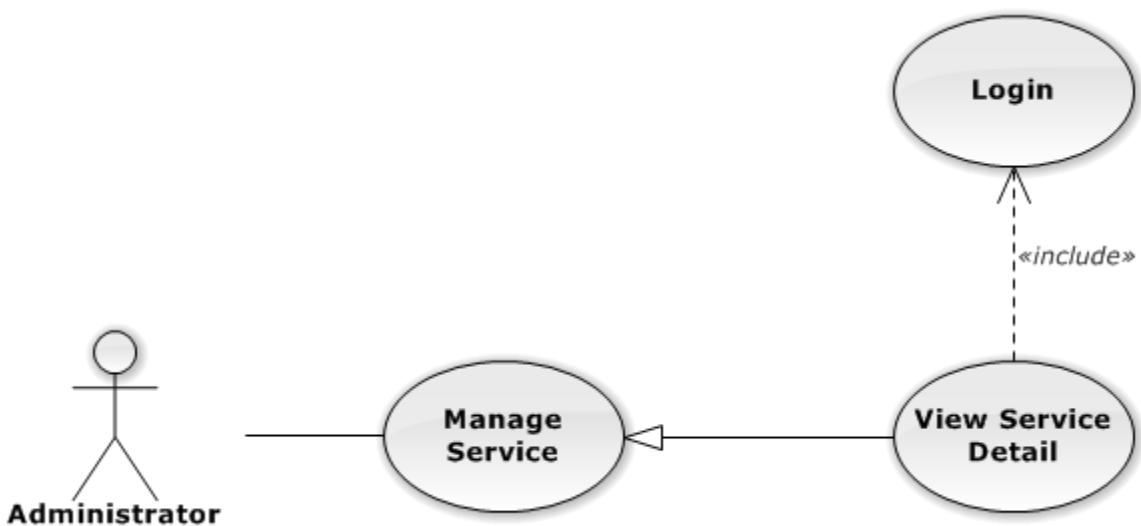


Figure 53: View Service Detail Use-Case Diagram

### 3.2.2.12.2.2. View Service Detail Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0036	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	View Service Detail		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>	Administrator		
<b>Summary:</b>	View Service Detail.		
<b>Goal:</b>	The purpose of View Service Detail use case is allowing Admin to view a Service detail.		
<b>Triggers:</b>			

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

### 3.2.2.12.3. Add New Service

#### 3.2.2.12.3.1. Add New Service Use-Case Diagram

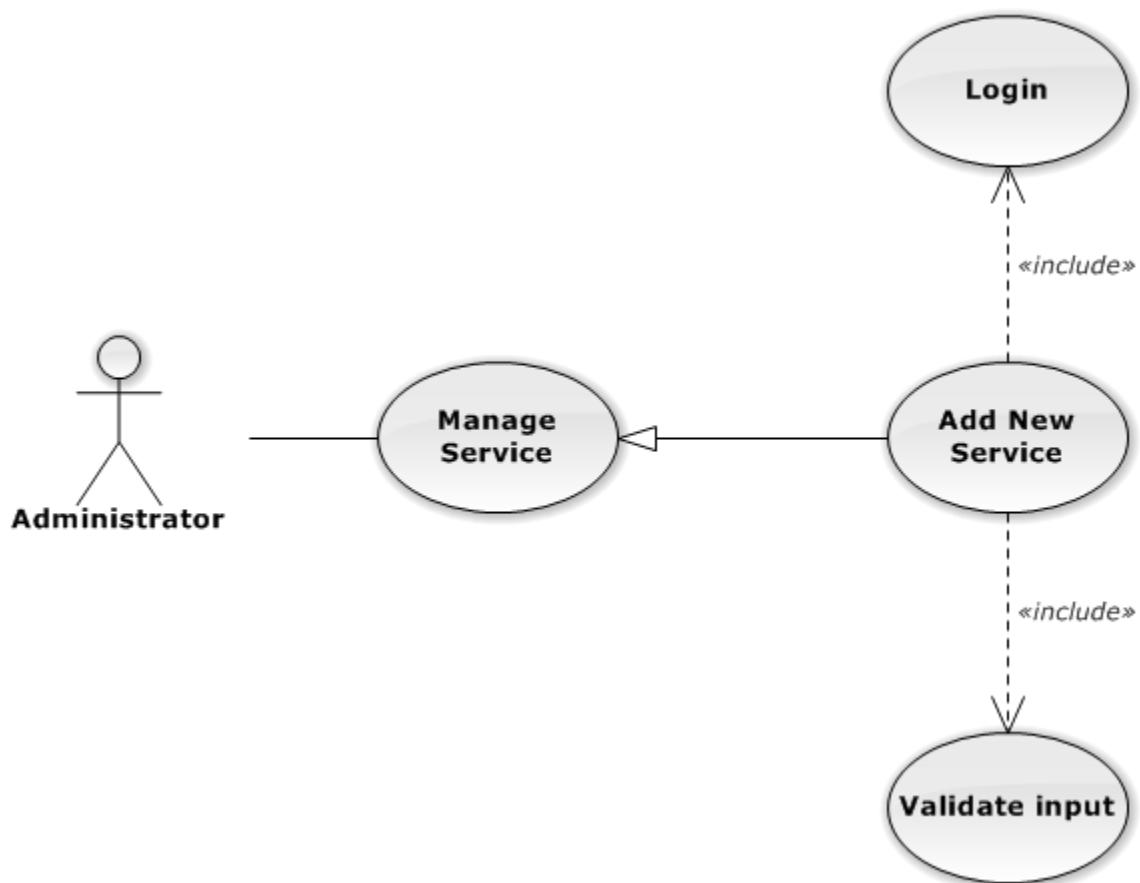


Figure 54: Add New Service Use-Case Diagram

### 3.2.2.12.3.2. Add New Service Use-Case Specification

USE CASE-n SPECIFICATION			
<b>Use-case No.</b>	UC0037	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Service		
<b>Author</b>	Lê Duy Hoàng		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>	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:**

<i>Step</i>	<i>User</i>	<i>System</i>
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:**

#	<i>User</i>	<i>System</i>
1	Presses “Đóng”, “X” button or click outside pop-up.	The Add New 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.
	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

#### 3.2.2.12.4. Edit Service

##### 3.2.2.12.4.1. Edit Service Use-Case Diagram

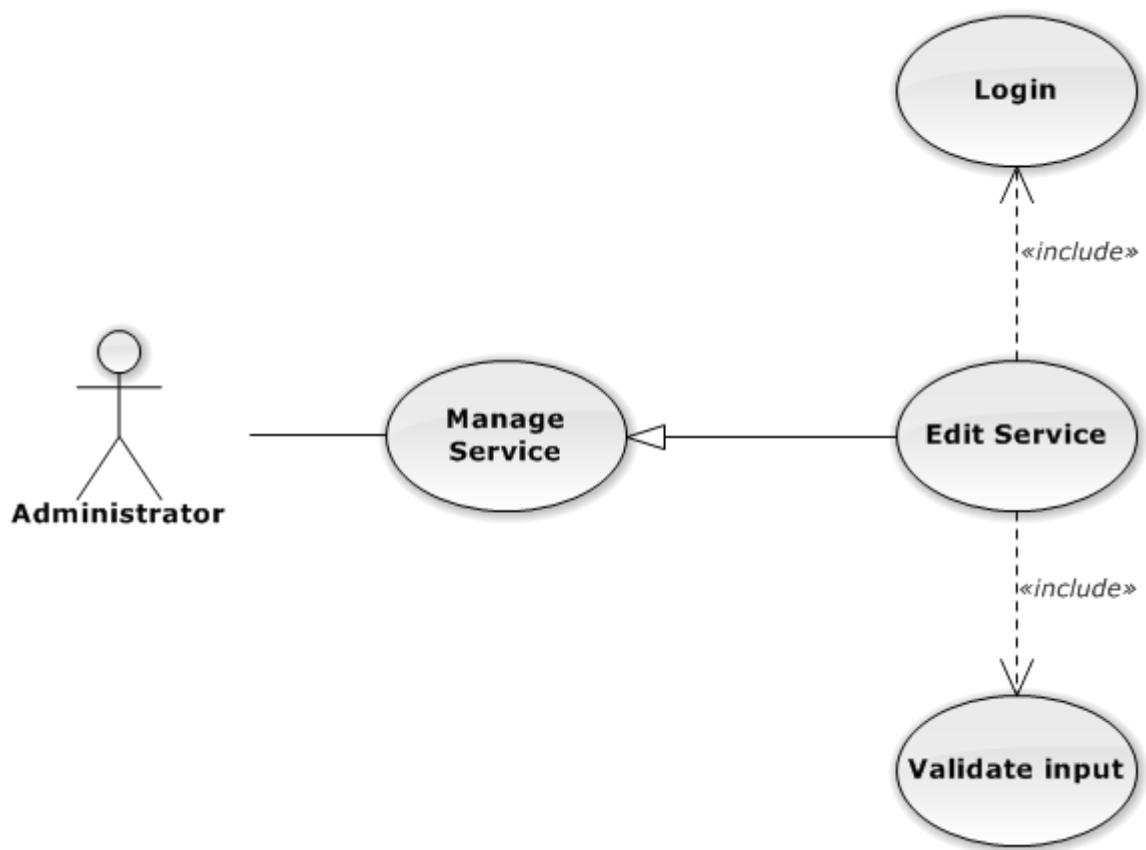


Figure 55: Edit Service Use-Case Diagram

#### 3.2.2.12.4.2. Edit Service Use-Case Specification

USE CASE SPECIFICATION			
Use-case No.	UC0038	Use-case Version	1.0
Use-case Name	Edit Service		
Author	Lê Duy Hoàng		
Date	30/01/2014	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:**

<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

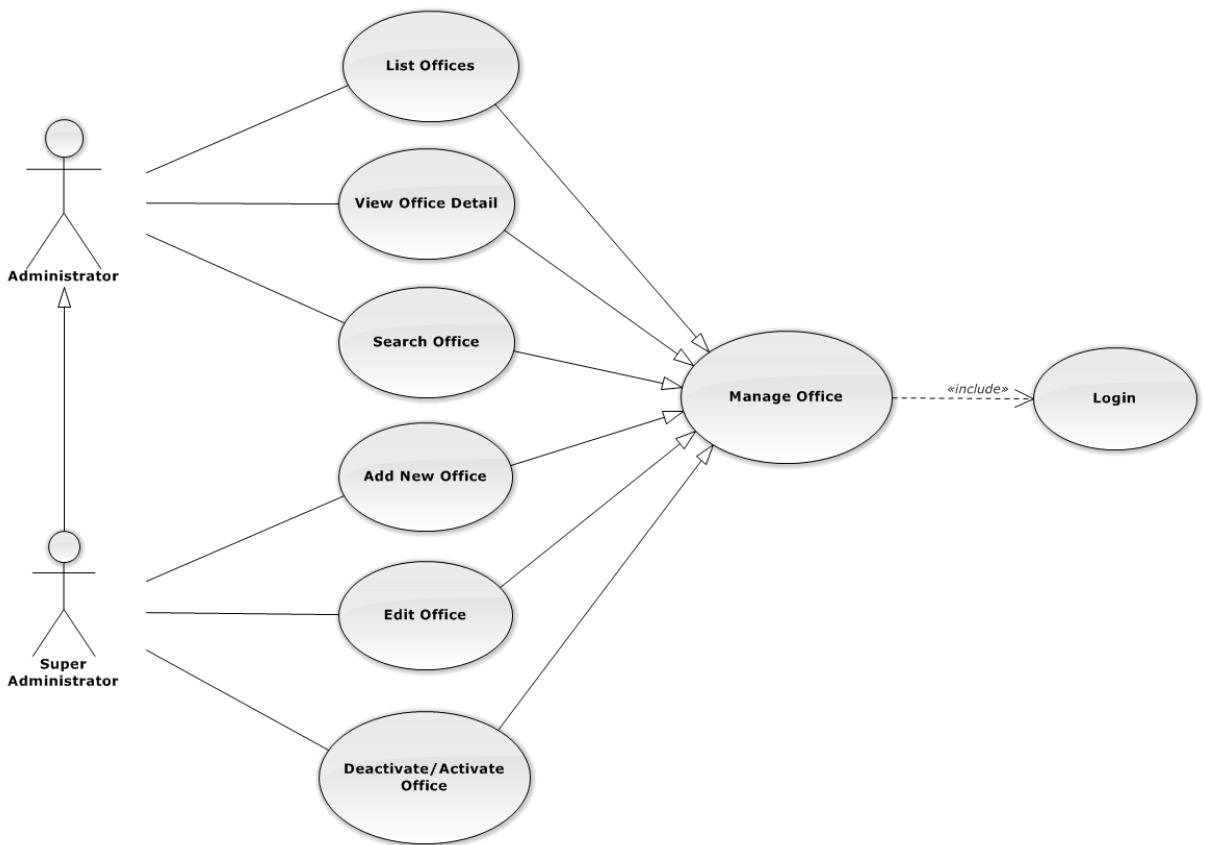
### 3.2.2.12.5. Delete Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 3.2.2.12.6. Search Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

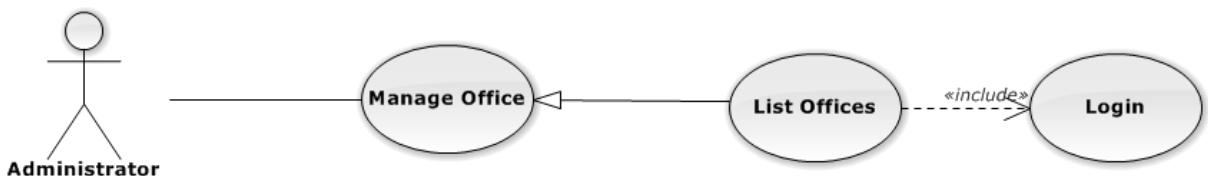
### 3.2.2.13. Manage Office



*Figure 56: Manage Office Use-Case Diagram*

### 3.2.2.13.1. List Offices

#### 3.2.2.13.1.1. List Offices Use-Case Diagram



*Figure 57: List Offices Use-Case Diagram*

#### 3.2.2.13.1.2. List Offices Use-Case Specification

**USE-CASE SPECIFICATION**

<b>Use-case No.</b>	UC0039	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	List Offices		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal

**Actor:**

Administrator

**Summary:**

Redirect user to “Quản lý văn phòng” page and list all office.

**Goal:**

To allowing Administrator view any detail information of all Office.

**Triggers:**

- User click on User Control Panel and then click on “Quản lý văn phòng” link

**Preconditions:**

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

**Post Conditions:**

Success: System redirects user to “Quản lý văn phòng” page.

Failure: Do nothing.

**Main Success Scenario:**

<b>Step</b>	<b>User</b>	<b>System</b>
1	Click on “Quản lý văn phòng” link	Redirect to “Quản lý 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.

### 3.2.2.13.2. View Office Detail

#### 3.2.2.13.2.1. View Office Detail Use-Case Diagram

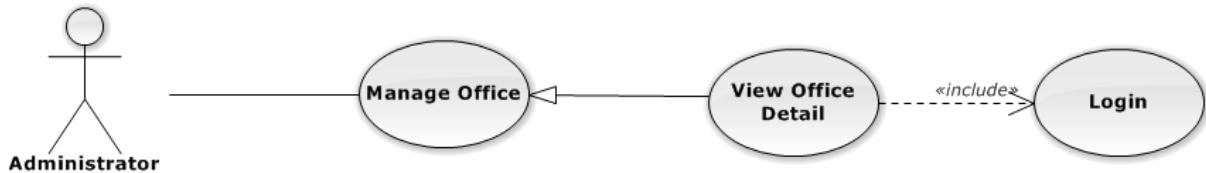


Figure 58: View Office Detail Use-Case Diagram

#### 3.2.2.13.2.2. View Office Detail Use-Case Specification

<b>USE-CASE SPECIFICATION</b>			
<b>Use-case No.</b>	UC0040	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	View Office Detail		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	30/01/2014	<b>Priority</b>	Normal
<b>Actor:</b>			
Administrator			
<b>Summary:</b>			
Staff can view detail of office information			
<b>Goal:</b>			
Helps staff to view offfice information			

**Triggers:**

- On User Control Panel click on “Quản lý văn phòng”,
- Click click on “Chi tiết” button
- Click on name's office link.

**Preconditions:**

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

**Post Conditions:**

Success: The detail office information is displayed

Failure: Do nothing

**Main Success Scenario:**

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

**Alternative Scenario:**

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

**Exceptions:**

N/A

**Relationships:**

Management office.

**Business Rules:**

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

### 3.2.2.13.3. Add New Office

#### 3.2.2.13.3.1. Add New Office Use-Case Diagram

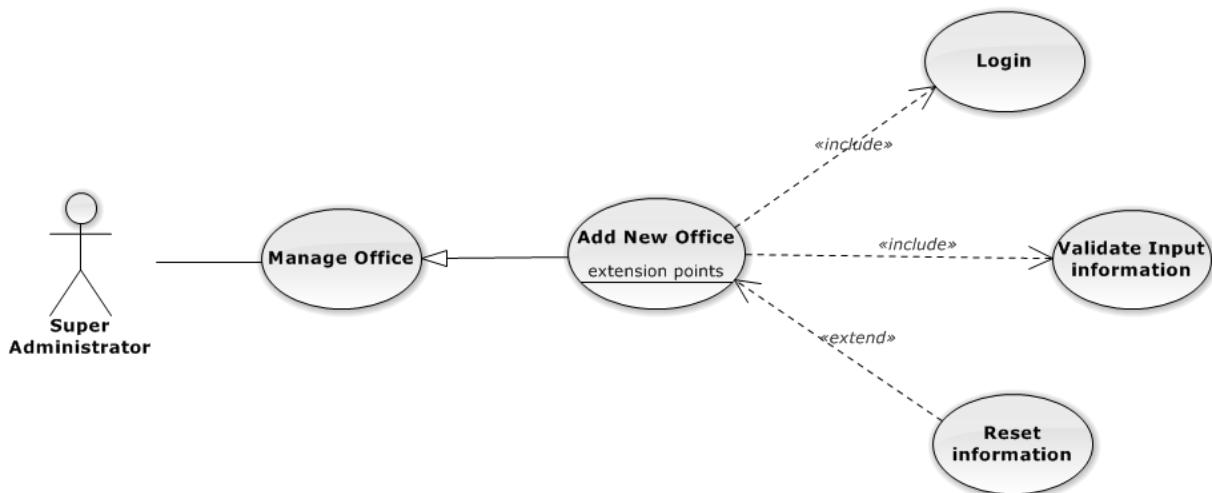


Figure 59: Add New Office Use-Case Diagram

#### 3.2.2.13.3.2. Add New Office Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0041	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Add New Office		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	24/03/2014	<b>Priority</b>	Normal
<b>Actor:</b>	Supper Administrator.		
<b>Summary:</b>	Insert new office in the system.		
<b>Goal:</b>			

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:**

<i>Step</i>	<i>User</i>	<i>System</i>
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:**

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

**Exceptions:**

<i>Step</i>	<i>User</i>	<i>System</i>

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.

#### 3.2.2.13.4. Edit Office

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 3.2.2.13.5. Deactivate/Activate Office

##### 3.2.2.13.5.1. Deactivate/Activate Office Use-Case Diagram

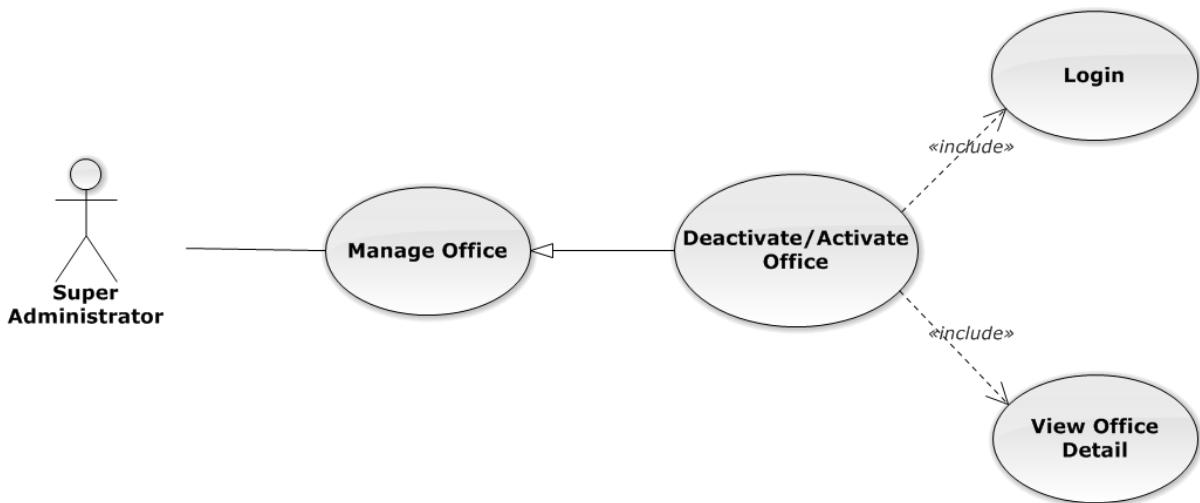


Figure 60: Deactivate/Activate Office Use-Case Diagram

### 3.2.2.13.5.2. Deactivate/Activate Office Use-Case Specification

USE CASE SPECIFICATION			
<b>Use-case No.</b>	UC0042	<b>Use-case Version</b>	1.0
<b>Use-case Name</b>	Deactivate/Activate office		
<b>Author</b>	Nguyễn Thanh Sang		
<b>Date</b>	24/03/2014	<b>Priority</b>	Normal
<b>Actor:</b>			
Supper Administrator.			
<b>Summary:</b>			
Supper Administrator can change status of Office to De active or Active.			
<b>Goal:</b>			
Helps Supper Administrator update Status of Office and save to database system.			
<b>Triggers:</b>			
<ul style="list-style-type: none"> <li>• Supper Administrator wants to update Status of office.</li> </ul>			

- 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:**

Step	User	System
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:**

<b>#</b>	<b>User</b>	<b>System</b>
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 “Chỉnh 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.

### 3.2.2.13.6. Search Office

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

## 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

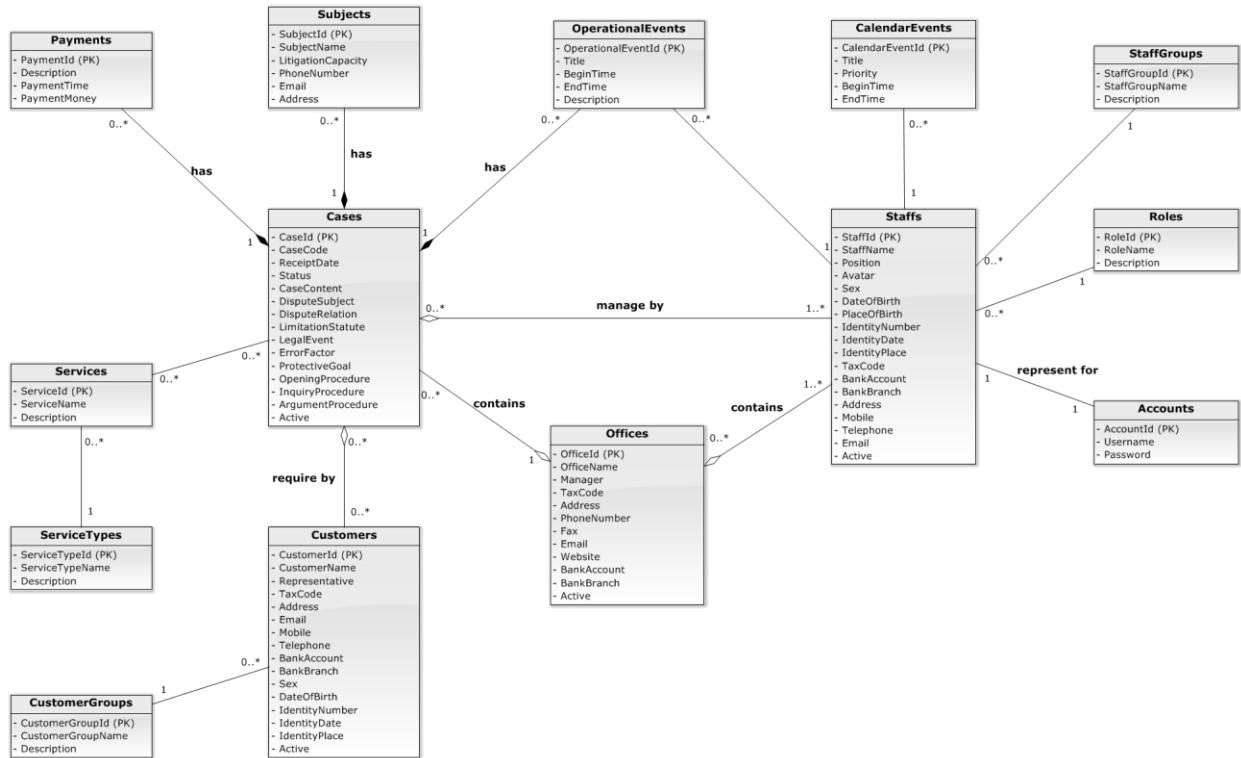


Figure 61: Entity Relationship Diagram

## **Report No.4: System Design Description (SDD)**

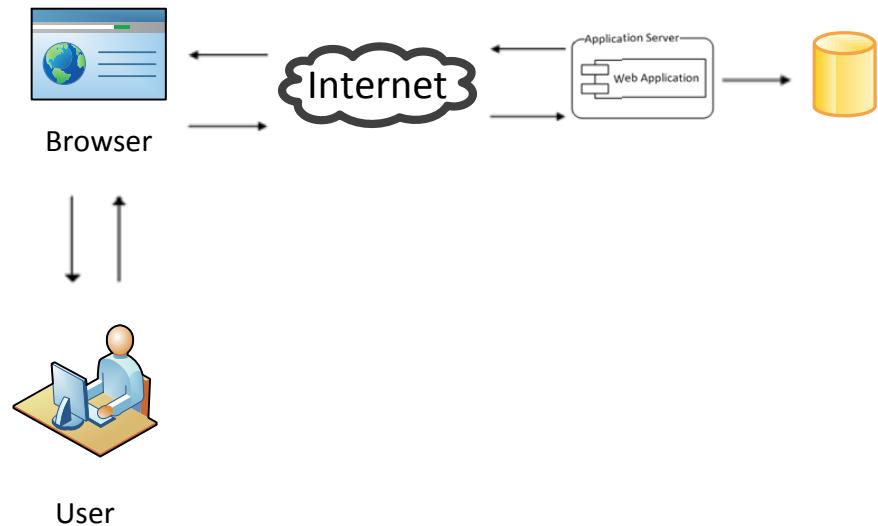
### **4.1. Design Overview**

- 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**

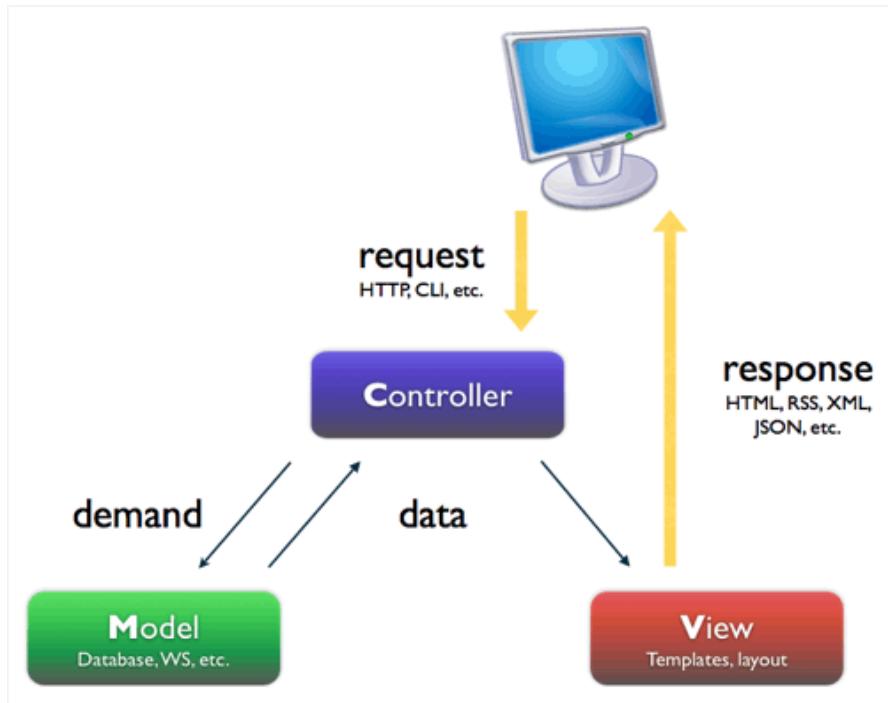
##### **4.2.1.1. System Architecture**



*Figure 62: 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 63: 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**

N/A

#### **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.

### **4.3. Package Diagram**

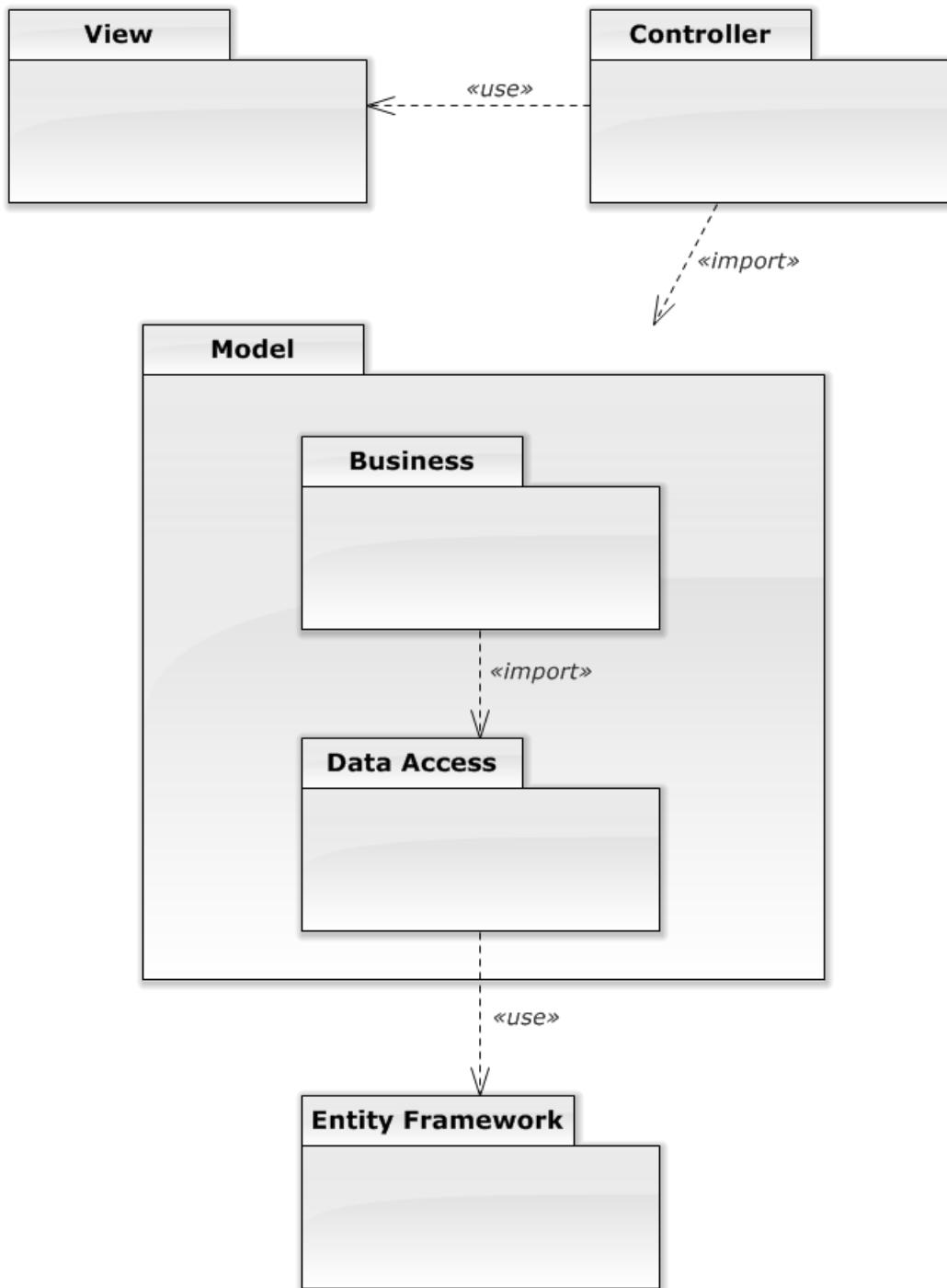


Figure 64: Package Diagram

## 4.4. Detailed Description of Packages

### 4.4.1. Data Transfer

#### 4.4.1.1. Data Transfer Class Diagram

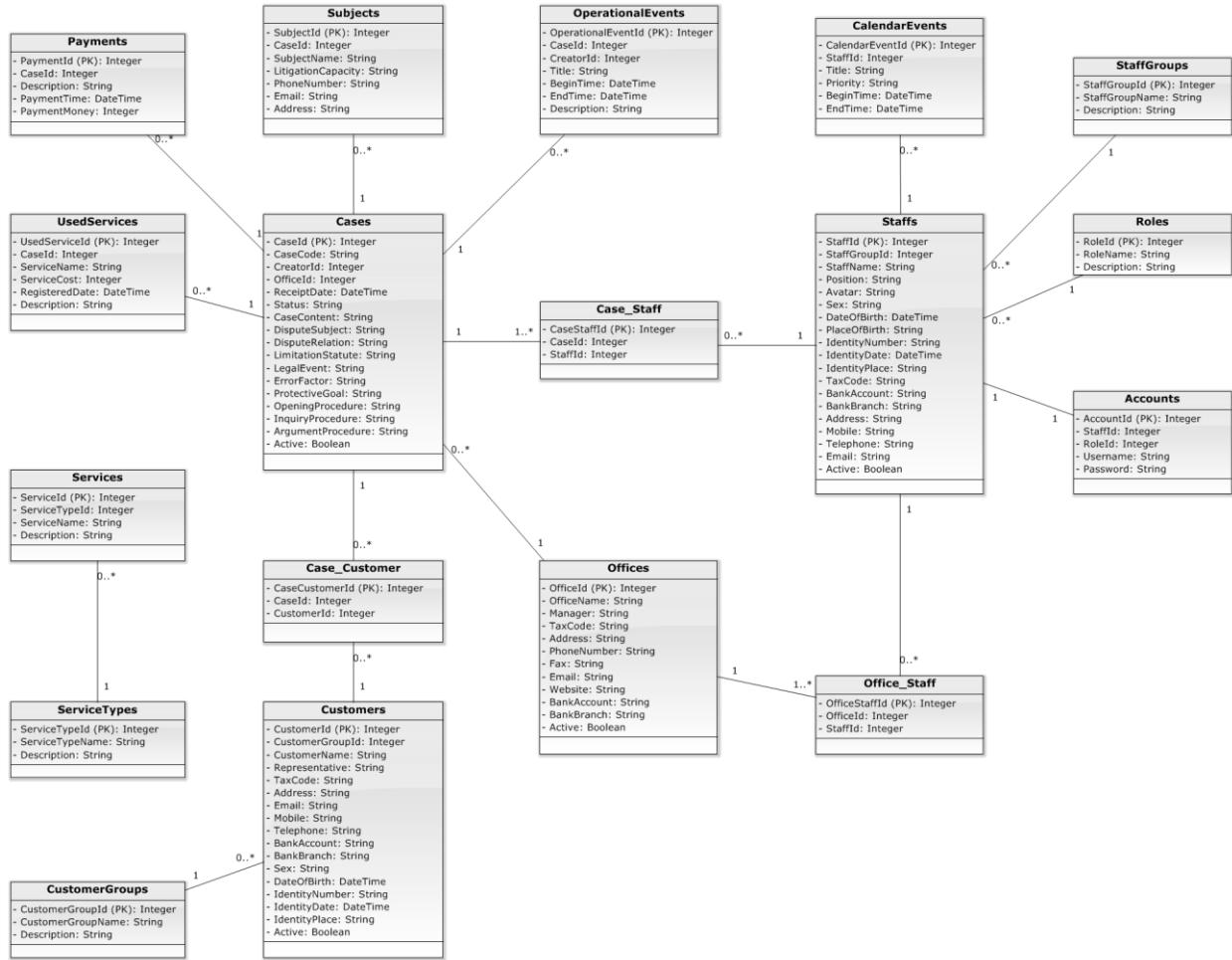


Figure 65: Data Transfer Class Diagram

#### 4.4.1.2. Data Transfer Class Diagram Explanation

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.4.2. Controller

##### 4.4.2.1. Controller Class Diagram

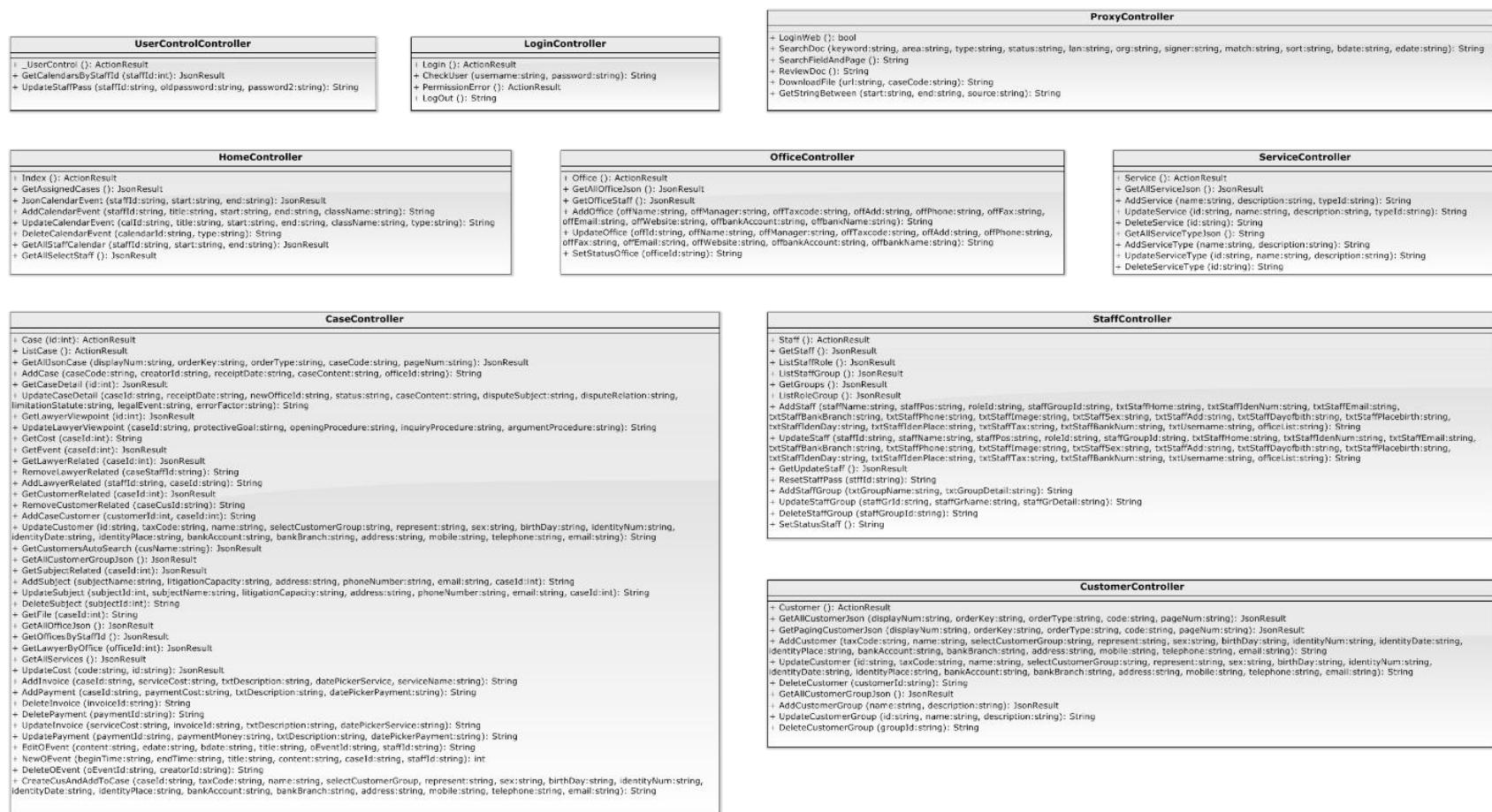


Figure 66: Controller Class Diagram

#### **4.4.2.2. Controller Class Diagram Explanation**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### **4.4.3. Business**

#### **4.4.3.1. Business Class Diagram**

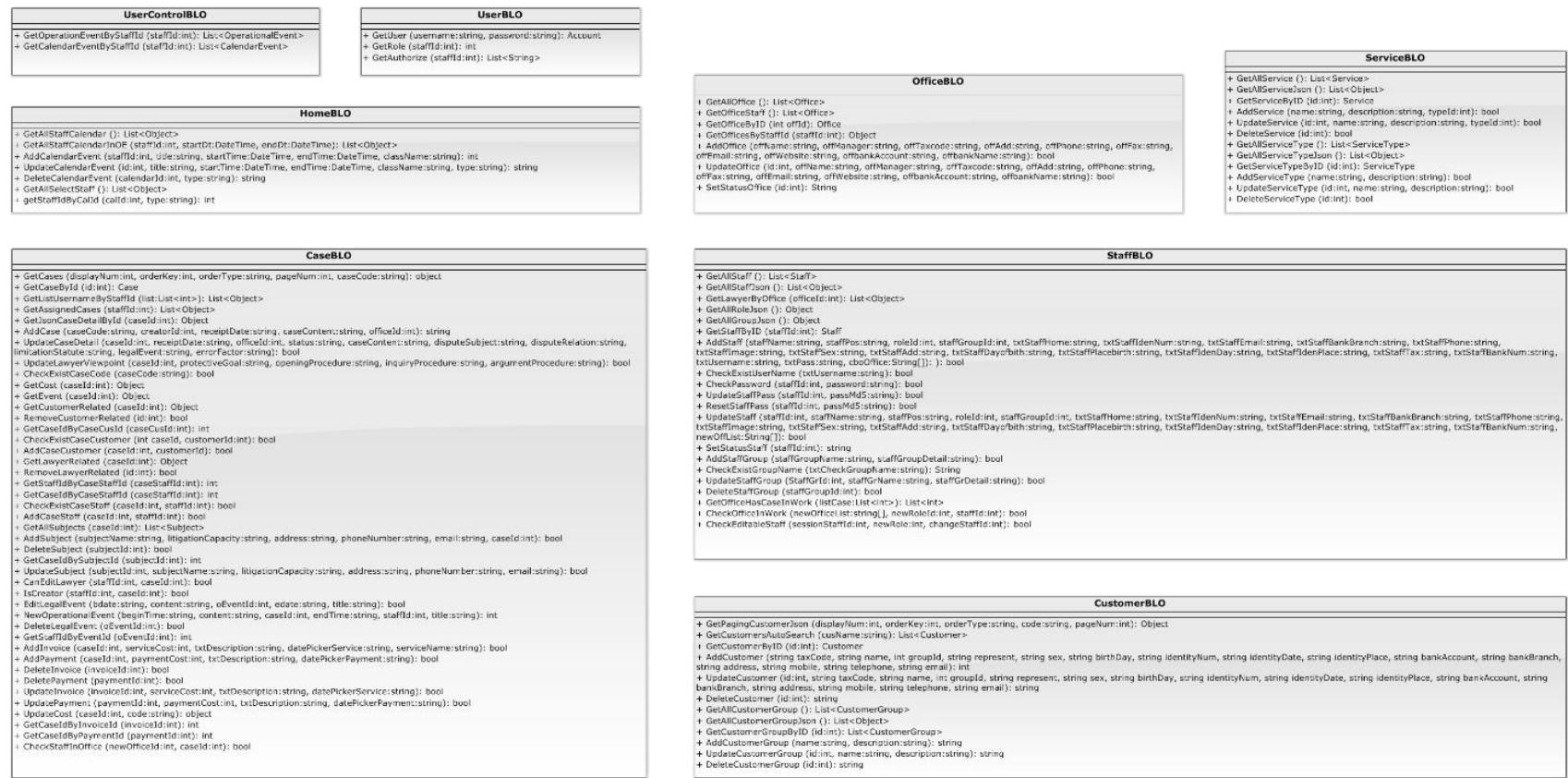


Figure 67: Business Class Diagram

#### **4.4.3.2. Business Class Diagram Explanation**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### **4.4.4. Data Access**

##### **4.4.4.1. Data Access Class Diagram**



Figure 68: Data Access Class Diagram

#### 4.4.4.2. Data Access Class Diagram Explanation

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 4.5. Sequence Diagram

#### 4.5.1. Login

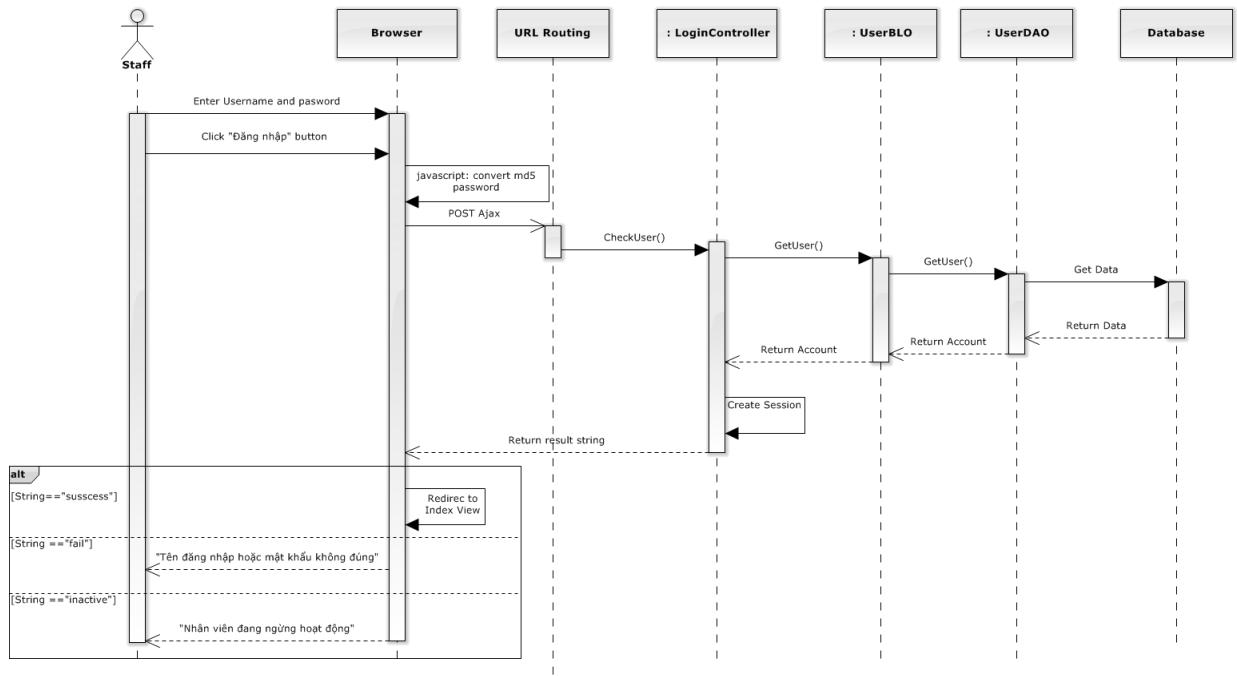


Figure 69: Login Sequence Diagram

#### 4.5.2. Change Password

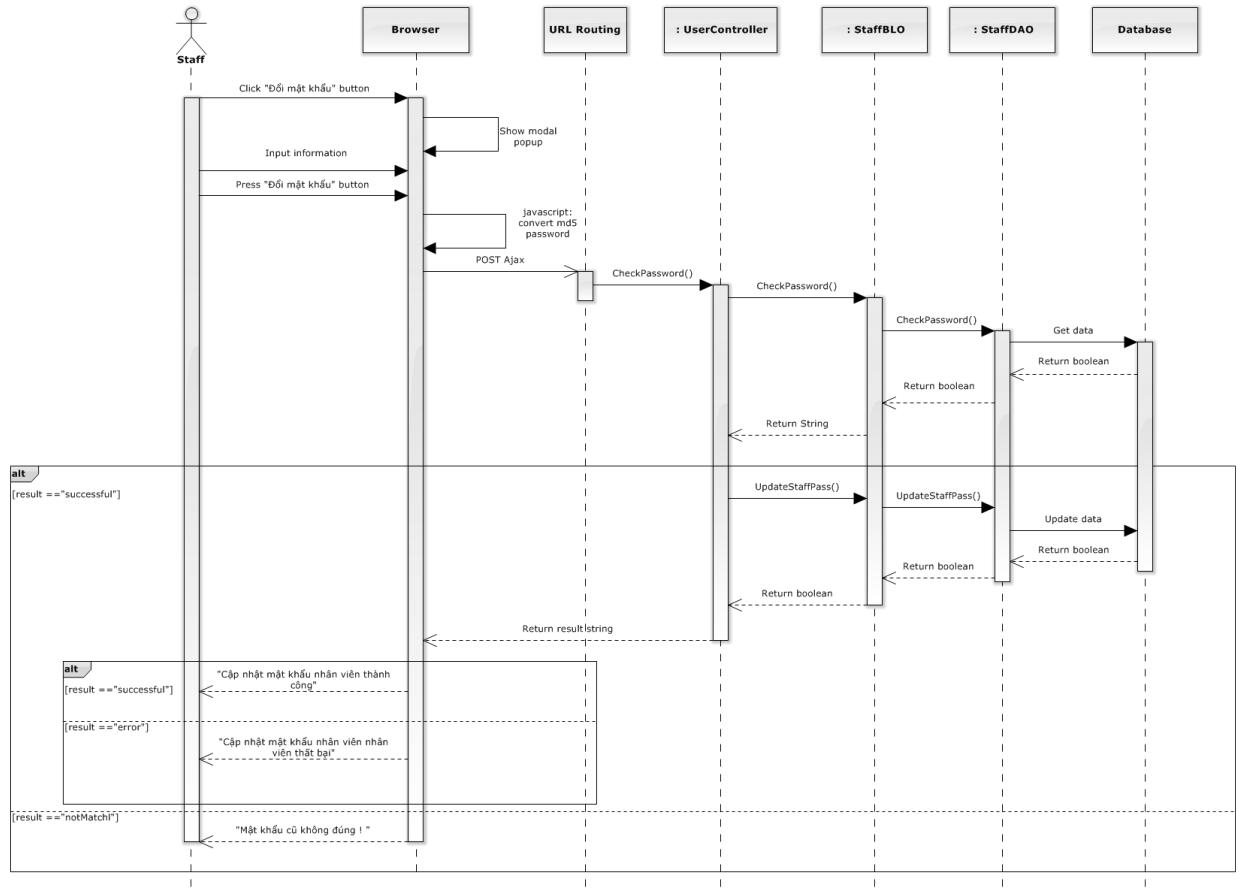


Figure 70: Change Password Sequence Diagram

#### 4.5.3. View Home

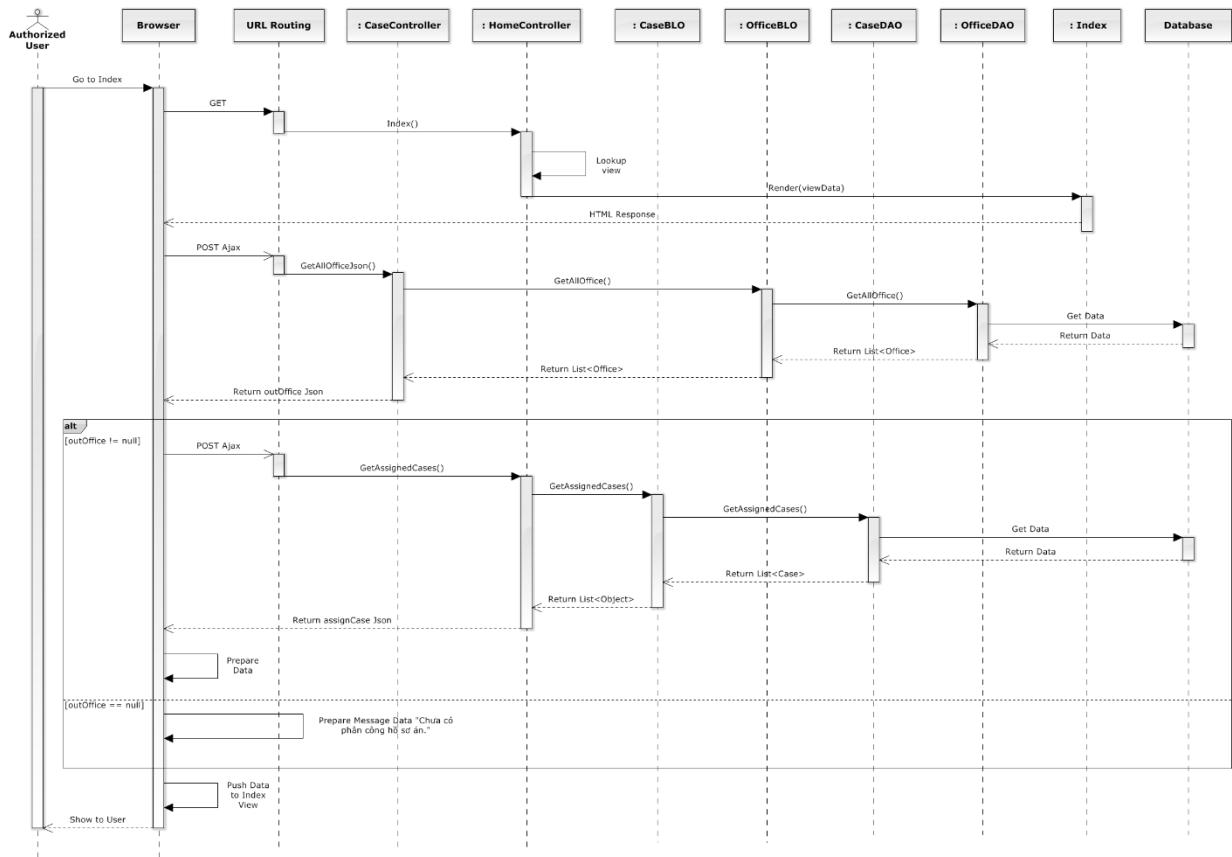


Figure 71: View Home Sequence Diagram

#### 4.5.4. Notify

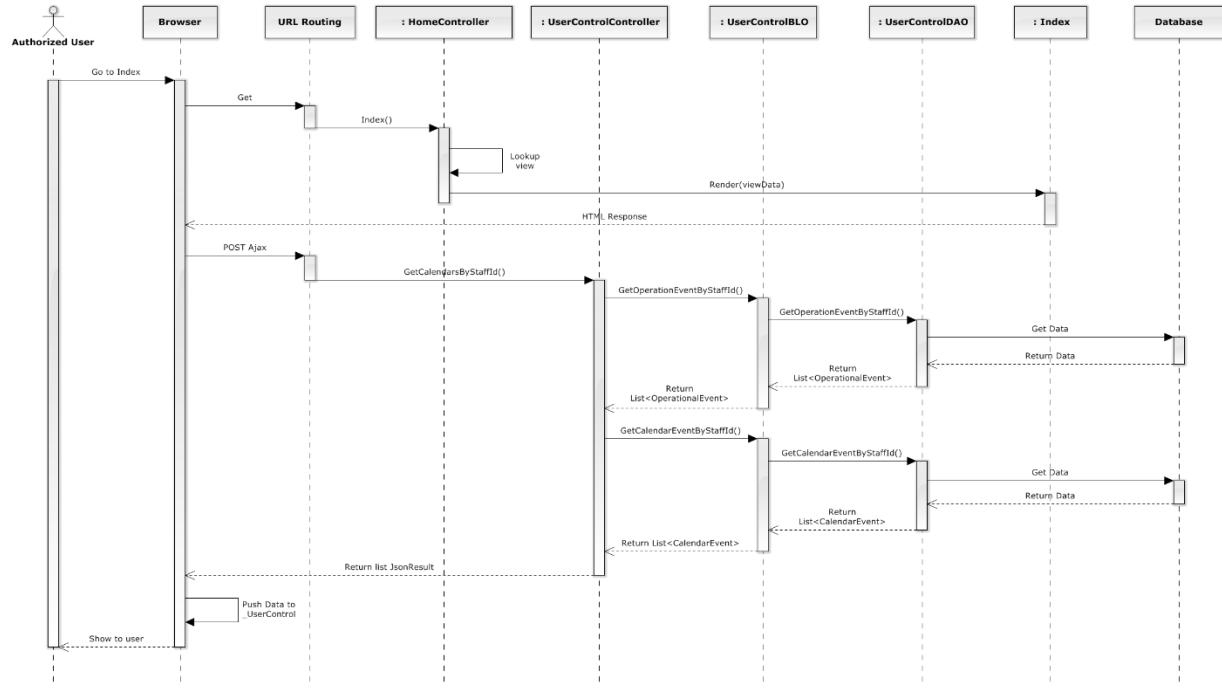


Figure 72: Notify Sequence Diagram

#### 4.5.5. Manage Calendar Event

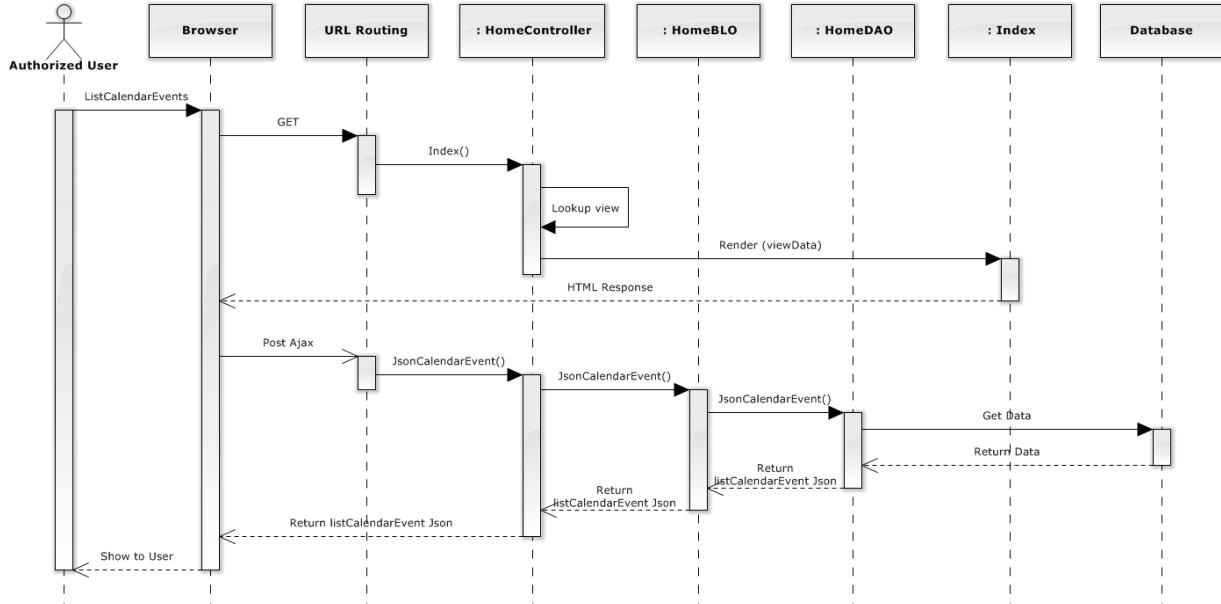


Figure 73: List Calendar Events Sequence Diagram

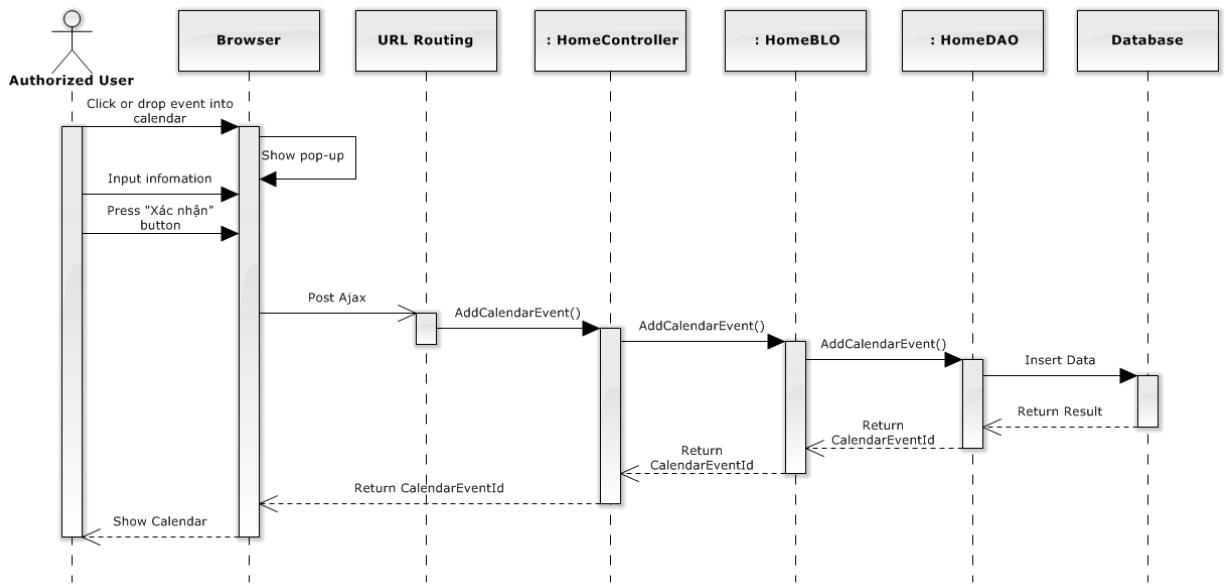


Figure 74: Add New Calendar Event Sequence Diagram

#### 4.5.6. Manage Case

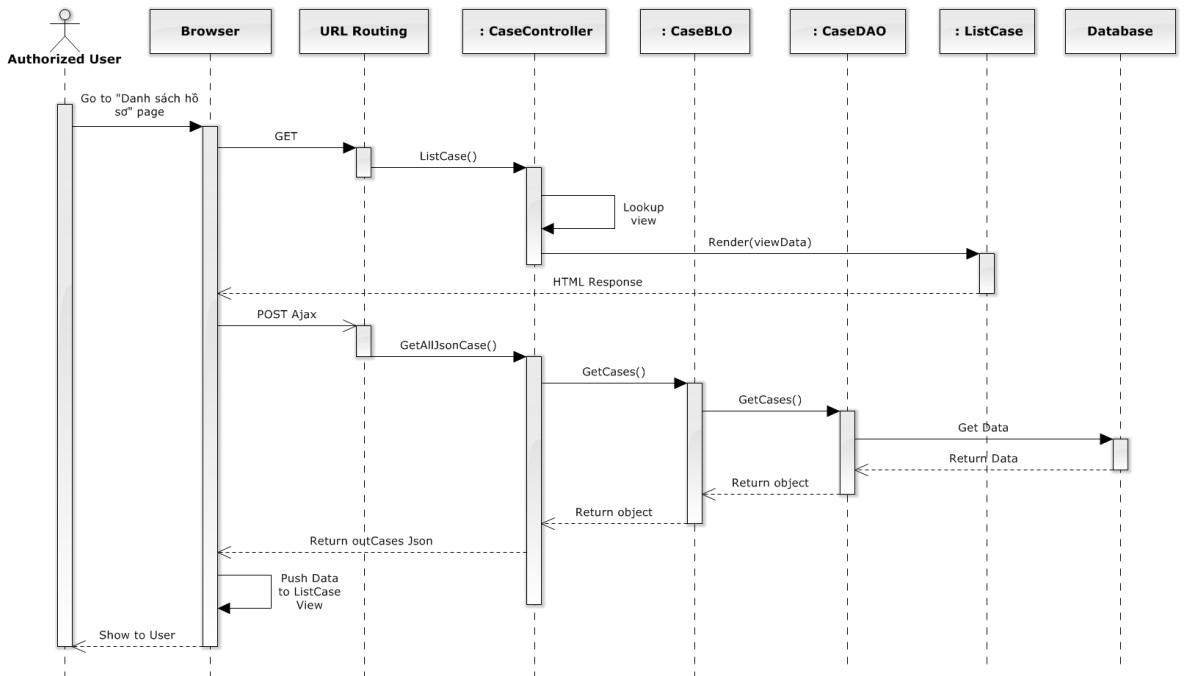


Figure 75: List All Cases Sequence Diagram

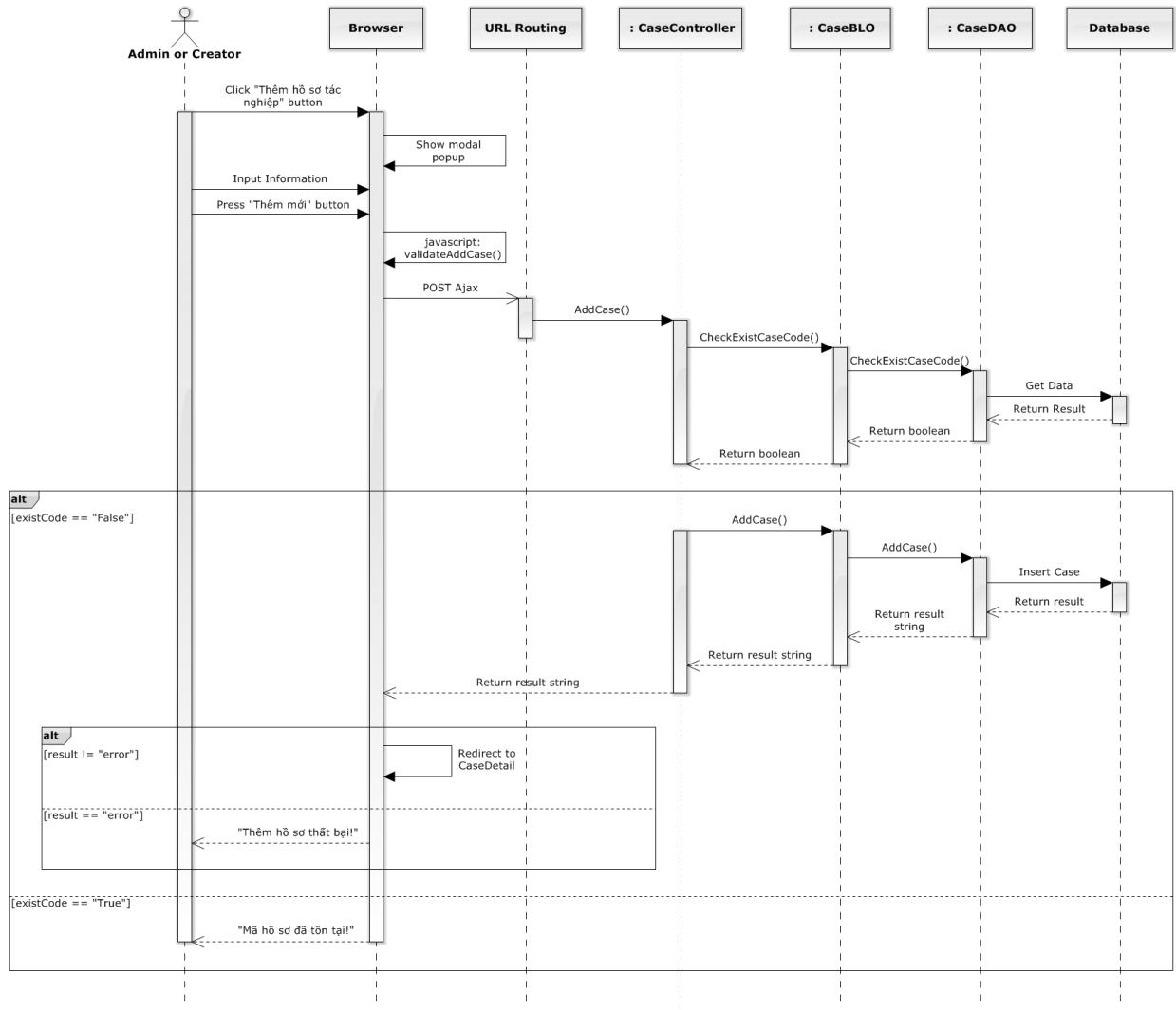


Figure 76: Add New Case Sequence Diagram

#### 4.5.6.1. Manage Case Detail

##### 4.5.6.1.1. Manage Case Info

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

##### 4.5.6.1.2. Manage Operation Event

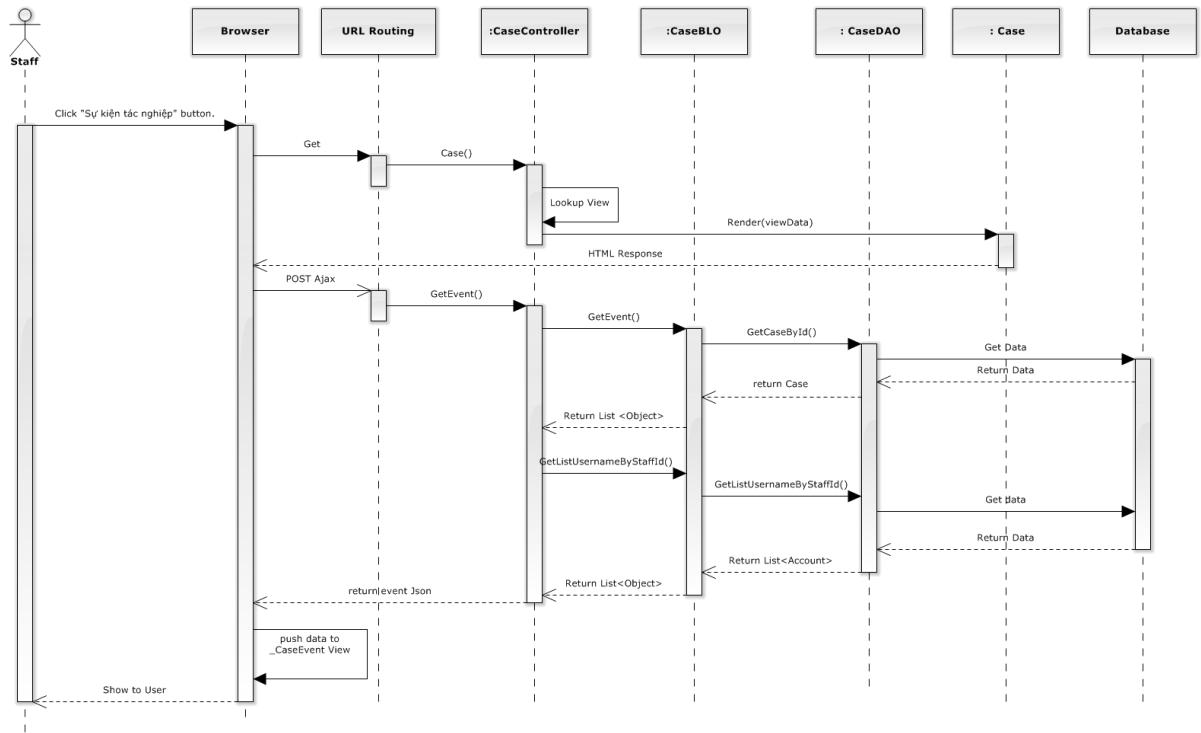


Figure 77: List Operation Events Sequence Diagram

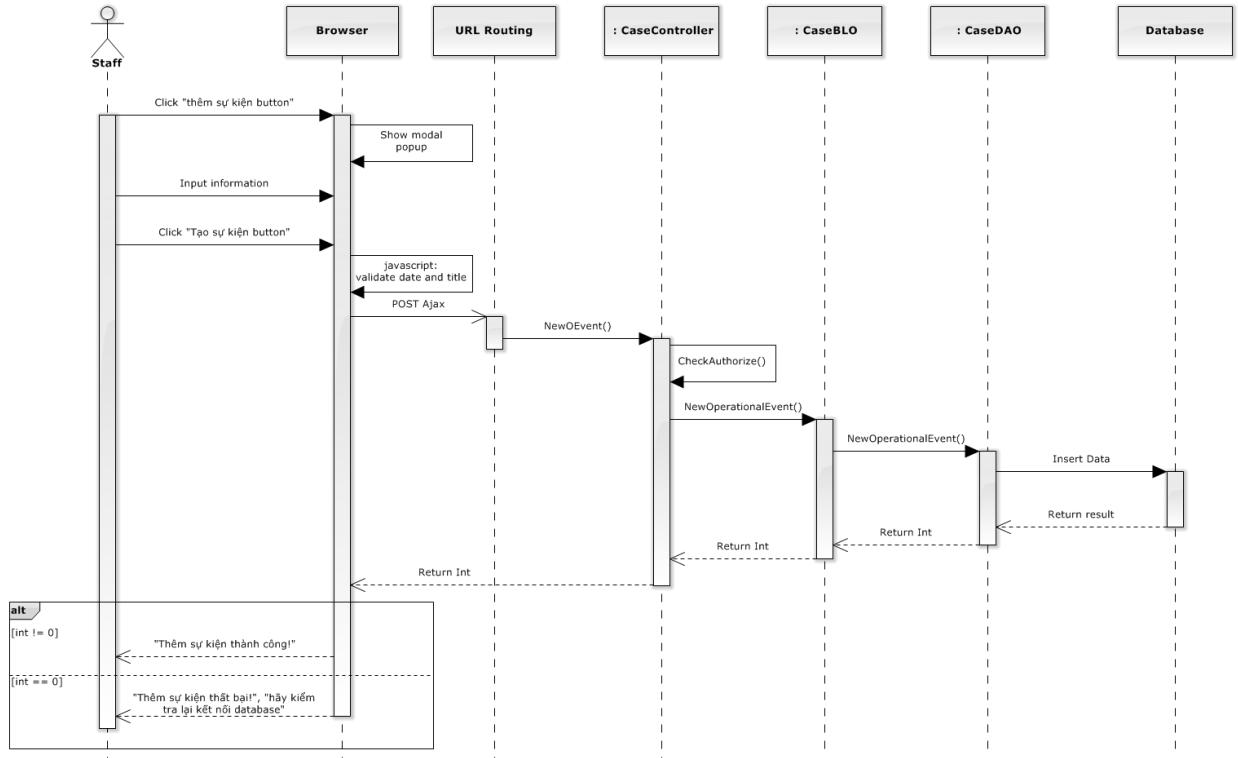


Figure 78: Add New Operation Event Sequence Diagram

#### 4.5.6.1.3. Manage Lawyer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.6.1.4. Manage Customer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.6.1.5. Manage Subject Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.6.1.6. Manage Document Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.6.1.7. Manage Used Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.6.1.8. Manage Payment

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.6.1.9. Integrate Thư Viện Pháp Luật

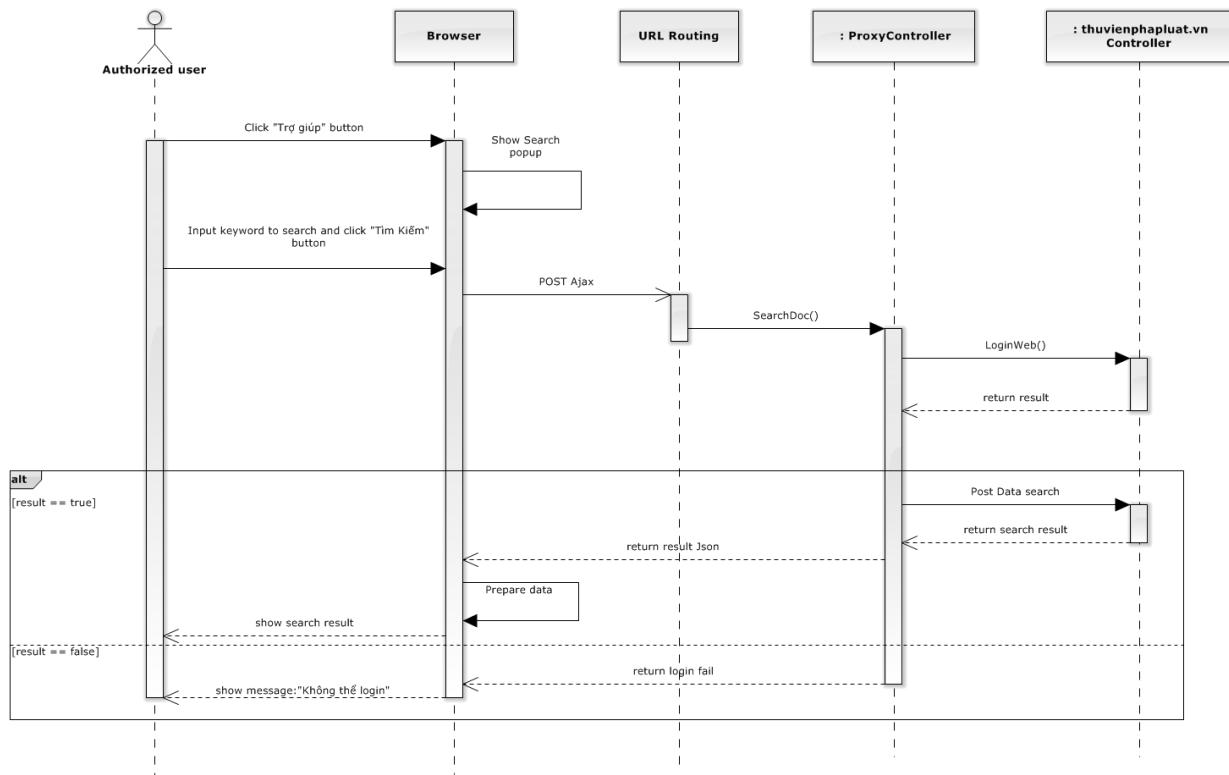


Figure 79: Integrate Thư Viện Pháp Luật Sequence Diagram

#### 4.5.7. Manage Customer Group

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.8. Manage Customer

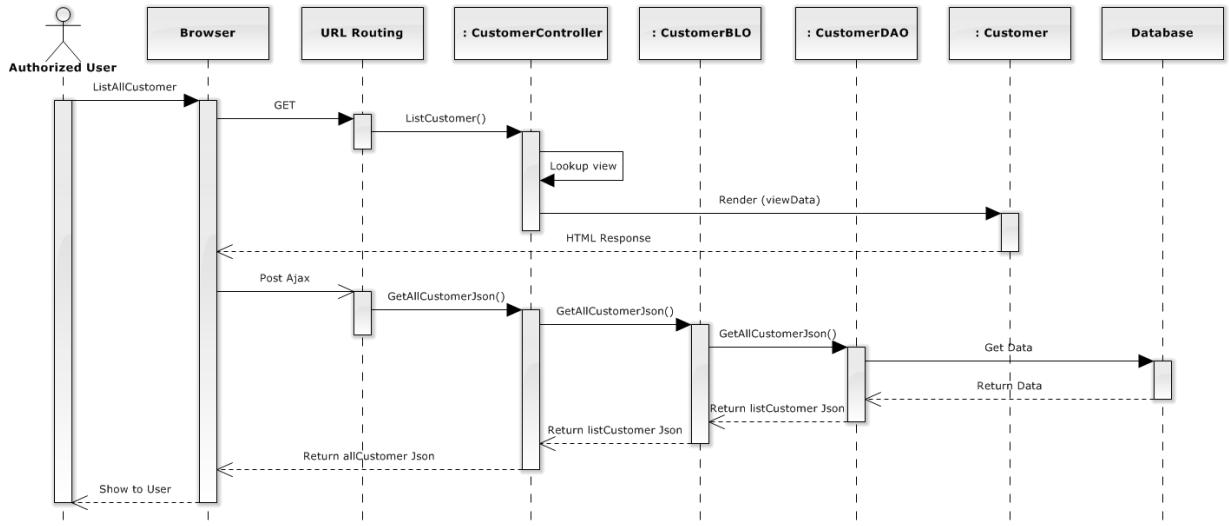


Figure 80: List Customers Sequence Diagram

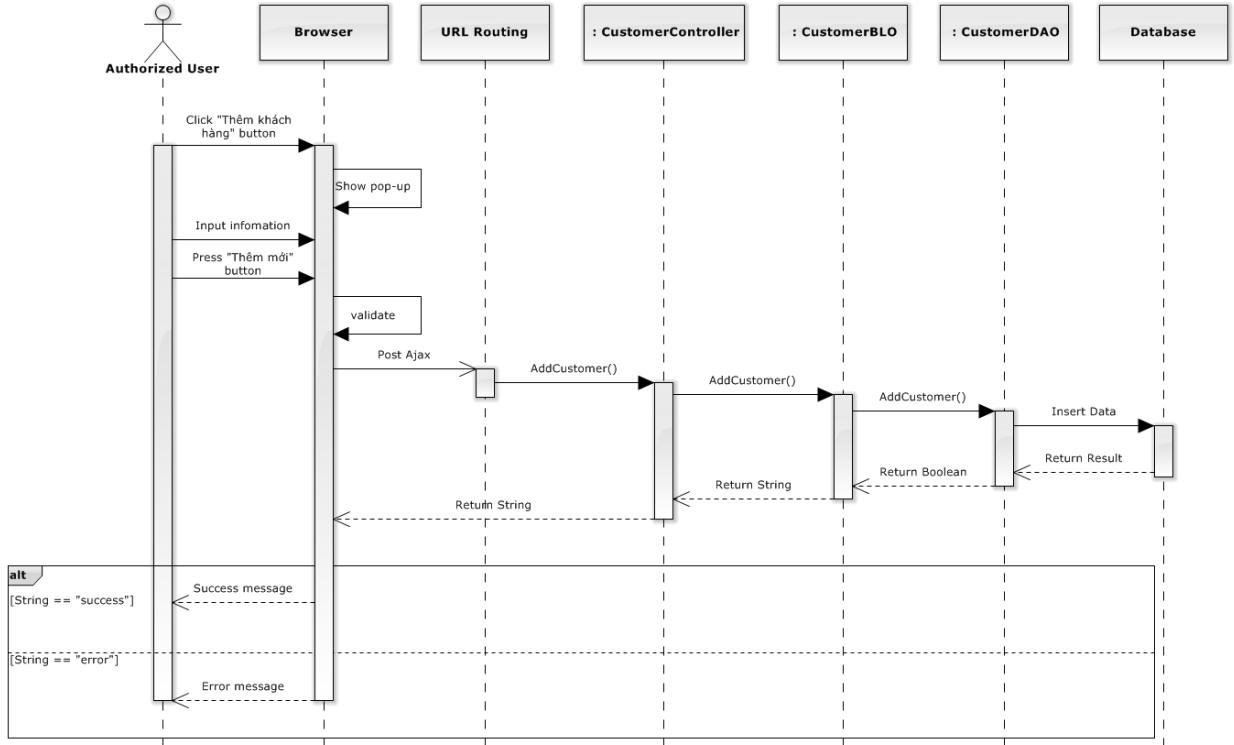


Figure 81: Add New Customer Sequence Diagram

#### 4.5.9. Manage Staff Group

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.10. Manage Staff

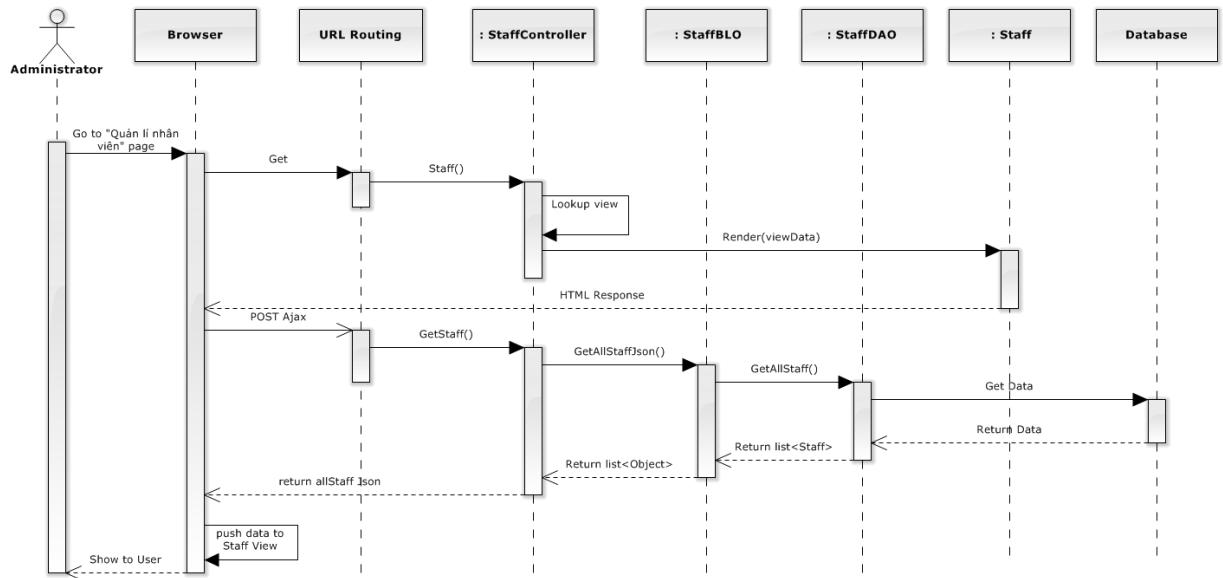


Figure 82: List Staffs Sequence Diagram

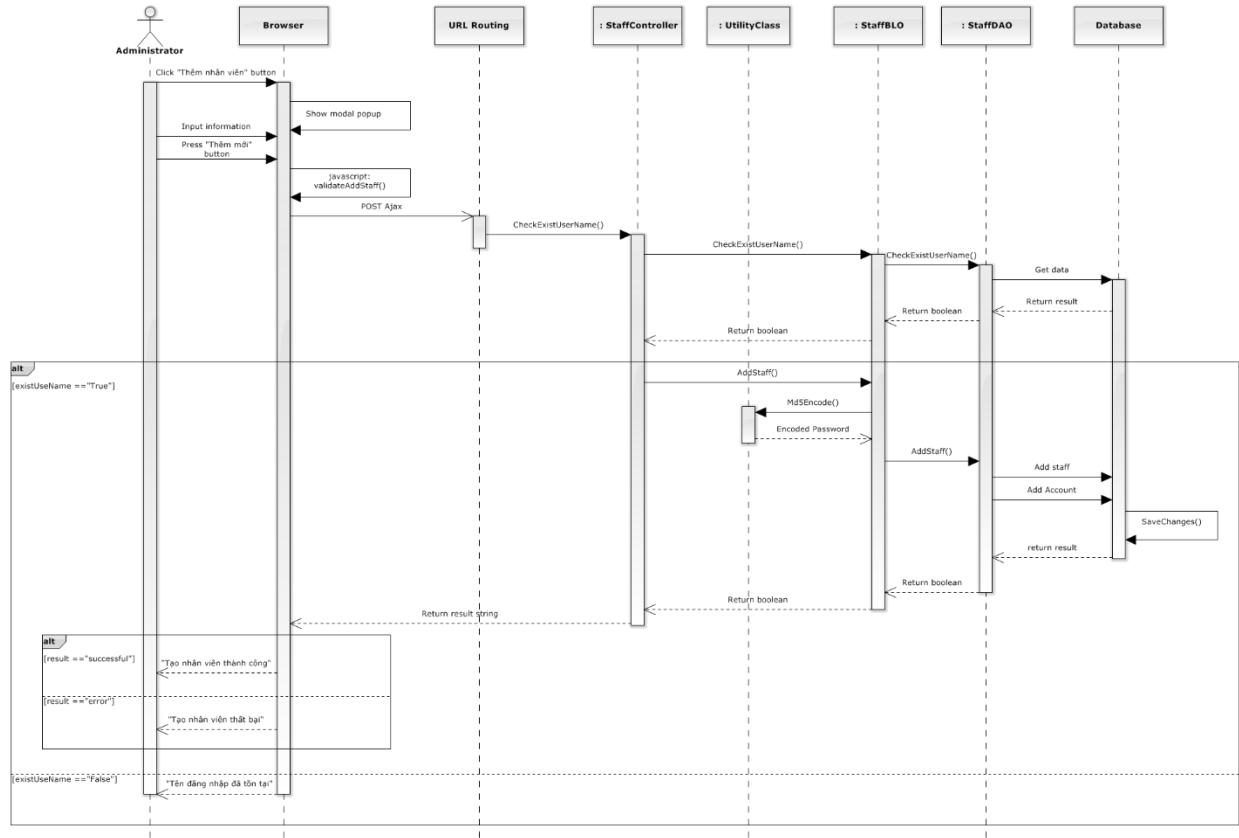


Figure 83: Add New Staff Sequence Diagram

#### 4.5.11. Manage Service Type

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.12. Manage Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.5.13. Manage Office

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 4.6. User Interface Design

#### 4.6.1. Home

##### 4.6.1.1. Home Screen Image



Figure 84: Home Screen Image

#### 4.6.1.2. Home Description

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

#### 4.6.2. User Control Panel

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.6.3. Calendar Event

##### 4.6.3.1. Personal Calendar

###### 4.6.3.1.1. Personal Calendar Screen Image

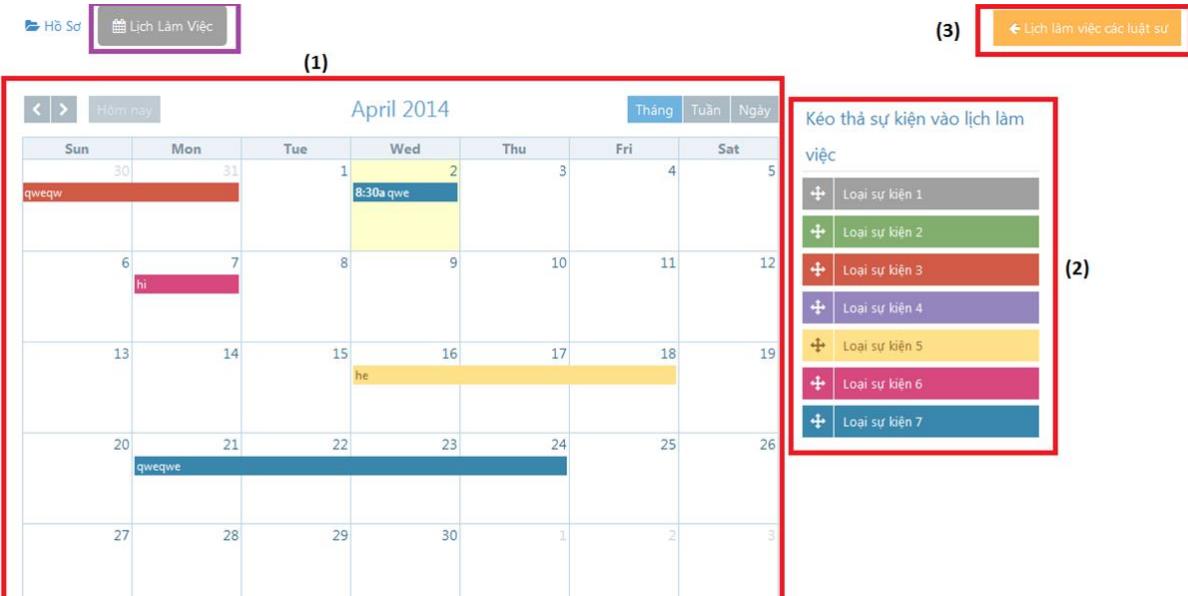


Figure 85: Personal Calendar Screen Image

#### 4.6.3.1.2. Personal Calendar Description

No	Name	Type	Description
1	Calendar	Full Calendar	Show all event of Staff on calendar
2	Dropable event	Object	Drag and drop into calendar to create new event
3	Lịch làm việc của các luật sư	Button	Show other staff calendar pop-up

#### 4.6.3.2. Shared Calendar

##### 4.6.3.2.1. Shared Calendar Screen Image

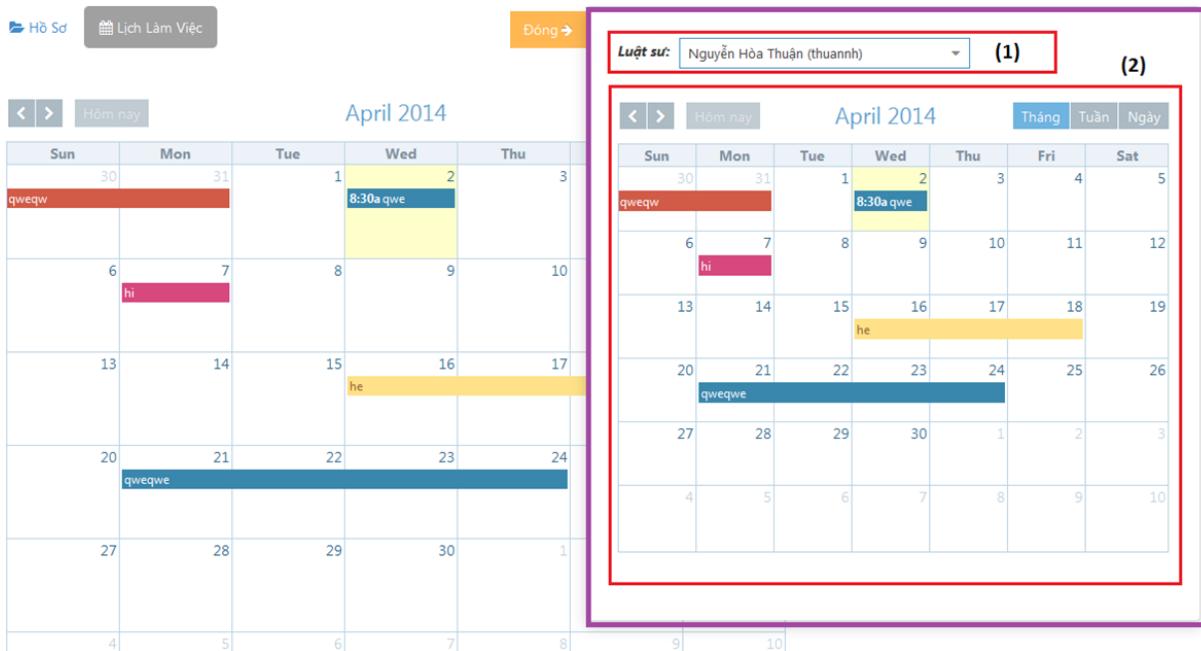


Figure 86: Shared Calendar Screen Image

#### 4.6.3.2.2. Shared Calendar Description

No	Name	Type	Description
1	Luật sư	Search combo-box	Staff name
2	Calendar	Full calendar	Other staff calendar event

#### 4.6.4. Case

##### 4.6.4.1. All Cases

###### 4.6.4.1.1. All Cases Screen Image

Mã hồ sơ	Nội dung	Ngày thụ lý	Thuộc văn phòng	Trạng thái
HS20140002	Đòi bồi thường tai nạn giao thông	14/02/2014	Luật Thuận Nguyễn Vĩnh Long	Đang thụ lý
HS20140001	Tranh chấp tài sản thừa kế	20/01/2014	Luật Thuận Nguyễn Hồ Chí Minh	Đã thụ lý

Figure 87: All Cases Screen Image

#### 4.6.4.1.2. All Cases Description

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

#### 4.6.4.2. Add New Case

##### 4.6.4.2.1. Add New Case Screen Image

The screenshot shows a modal window titled "Thêm hồ sơ tác nghiệp" (Add New Case). The form contains the following fields:

- Mã hồ sơ \* (Case code) - (1)
- Ngày thụ lý \* (Receipt date) - (2) (02/04/2014)
- Thuộc văn phòng \* (Belongs to office) - (3) (dropdown menu)
- Nội dung \* (Content) - (4)
- Buttons at the bottom: (5) Đóng (Close) and (6) Thêm mới (Create New) (green button with checkmark).

Figure 88: Add New Case Screen Image

#### 4.6.4.2.2. Add New Case Description

No	Name	Type	Description
1	"Mã hồ sơ"	Textbox	Case code
2	"Ngày thụ lý"	Textbox	Receipt date
3	"Thuộc văn phòng"	Textbox	Choose one office
4	"Nội dung"	Textbox	Case content
5	"Đóng"	Button	Click to close modal popup
6	"Thêm mới"	Button	Click to create a new case

#### 4.6.4.3. Case Detail

##### 4.6.4.3.1. Case Info

###### 4.6.4.3.1.1. Case Info Screen Image

The screenshot shows a web-based application for managing case files. The top navigation bar includes links for 'Trang chủ', 'Hồ sơ tác nghiệp', 'Danh sách hồ sơ', and 'HS20140002'. A sidebar on the left lists 'Chỉ tiết hồ sơ' (Case details) under 'Sự kiện', 'Người liên quan', 'Tài liệu liên quan', and 'Hóa đơn'. The main content area is titled 'Thông tin chung' (General information). It contains several input fields and dropdown menus, each labeled with a number from 1 to 14. The fields include:

- (1) 'Danh sách hồ sơ' (List of cases) - Link to view all cases.
- (2) 'Thông tin chung' (General information) - Edit button.
- (3) 'Mã hồ sơ' (Case code) - Textbox containing 'HS20140002'.
- (4) 'Ngày thụ lý' (Receipt date) - Textbox containing '14/02/2014'.
- (5) 'Thuộc văn phòng' (Office) - Dropdown menu containing 'Luật Thuận Nguyễn Vĩnh Long'.
- (6) 'Trạng thái' (Status) - Dropdown menu containing 'Đang thụ lý'.
- (7) 'Nội dung tranh chấp' (Content of dispute) - Textbox containing 'Đối bồi thường tai nạn giao thông'.
- (8) 'Đối tượng tranh chấp' (Subject of dispute) - Textbox containing 'Tiền bồi thường'.
- (9) 'Quan hệ tranh chấp' (Relation of dispute) - Textbox containing 'Người bị hại'.
- (10) 'Thời hiệu' (Statute of limitations) - Textbox.
- (11) 'Sự kiện pháp lý' (Legal event) - Textbox.
- (12) 'Yếu tố lỗi' (Error factor) - Textbox containing 'Giành tiền bồi thường thương tích'.
- (13) 'Hủy chỉnh sửa' (Cancel edit) - Button.
- (14) 'Lưu chỉnh sửa' (Save edit) - Button.

Figure 89: Case Info Screen Image

#### 4.6.4.3.1.2. Case Info Description

No	Name	Type	Description
1	"Danh sách hồ sơ"	Link	Redirect to view all cases
2	Edit	Button	Must be click to edit infor
3	"Mã hồ sơ"	Textbox	Case code
4	"Ngày thụ lý"	Textbox	Receipt date
5	"Thuộc văn phòng"	Textbox	Choose one office
6	"Trạng thái"	Textbox	Case status
7	"Nội dung tranh chấp"	Textbox	The contents of dispute
8	"Đối tượng tranh chấp"	Textbox	The subject of dispute
9	"Quan hệ tranh chấp"	Textbox	The relation of dispute
10	"Thời hiệu"	Textbox	The statute of limitations
11	"Sự kiện pháp lý"	Textbox	Legal event
12	"Yếu tố lỗi"	Textbox	Error factor
13	"Hủy chỉnh sửa"	Button	Cancel edit infor
14			

<b>14</b>	“Lưu chỉnh sửa”	Button	Save new infor
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#### 4.6.4.3.2. Operation Event

##### 4.6.4.3.2.1. Operation Event Screen Image

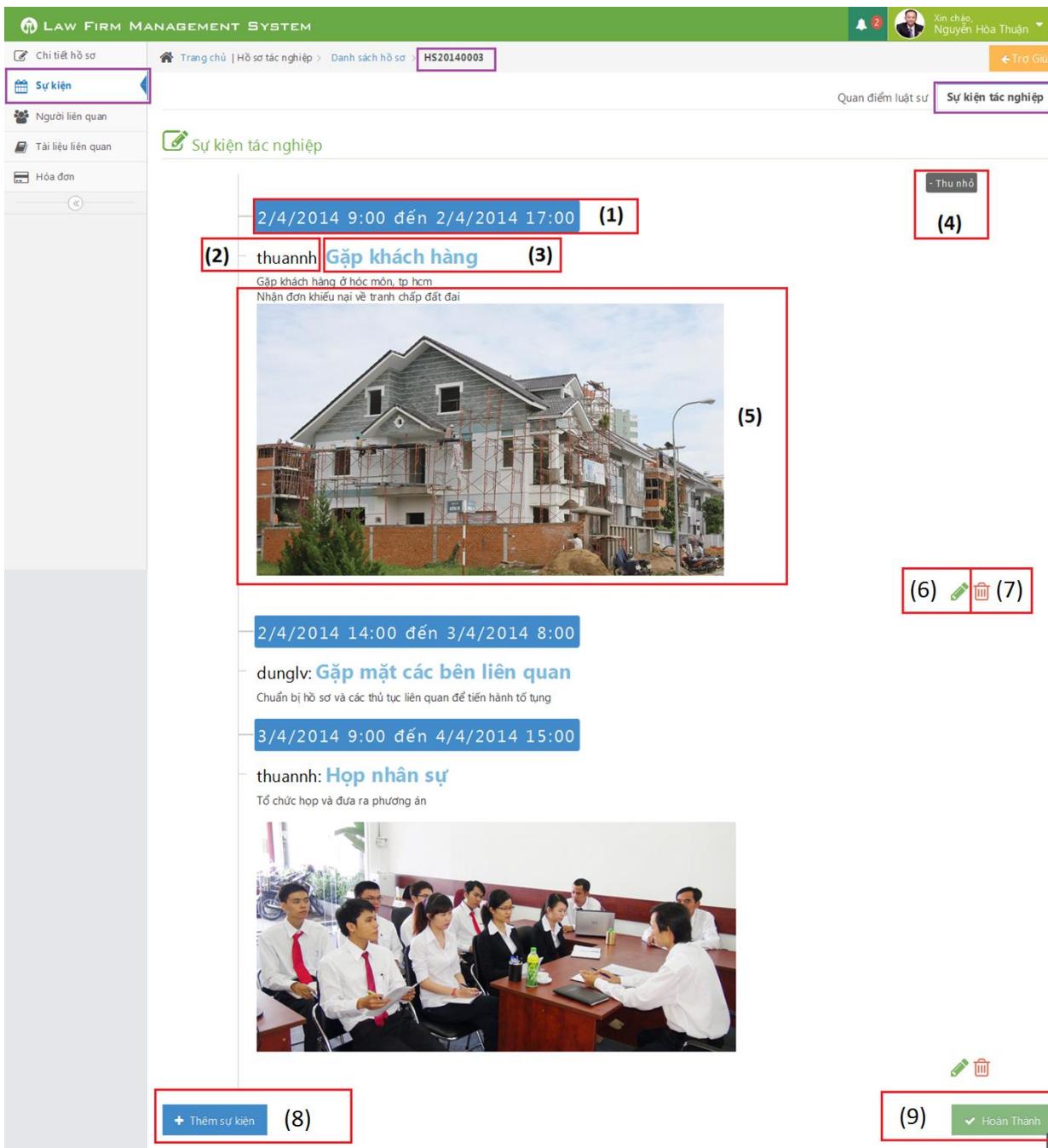


Figure 90: Operation Event Screen Image

##### 4.6.4.3.2.2. Operation Event Description

No	Name	Type	Description
1	Time range	Label	Click to choose begin time and end time of event
2	Staff username	Label	The lawyer who create a case
3	Title	Label	Title of Operation Event
4	Thu nhỏ / Mở rộng	Button	Reduce / Expand
5	Content	Information	Content of Operation Event
6	Pencil	Button	Edit operation event
7	Trash	Button	Delete operation event
8	Thêm sự kiện	Button	Click to add new operation event
9	Hoàn thành	Button	Click to finish edit operation event

#### 4.6.4.3.3. Lawyer Related

##### 4.6.4.3.3.1. Lawyer Related Screen Image

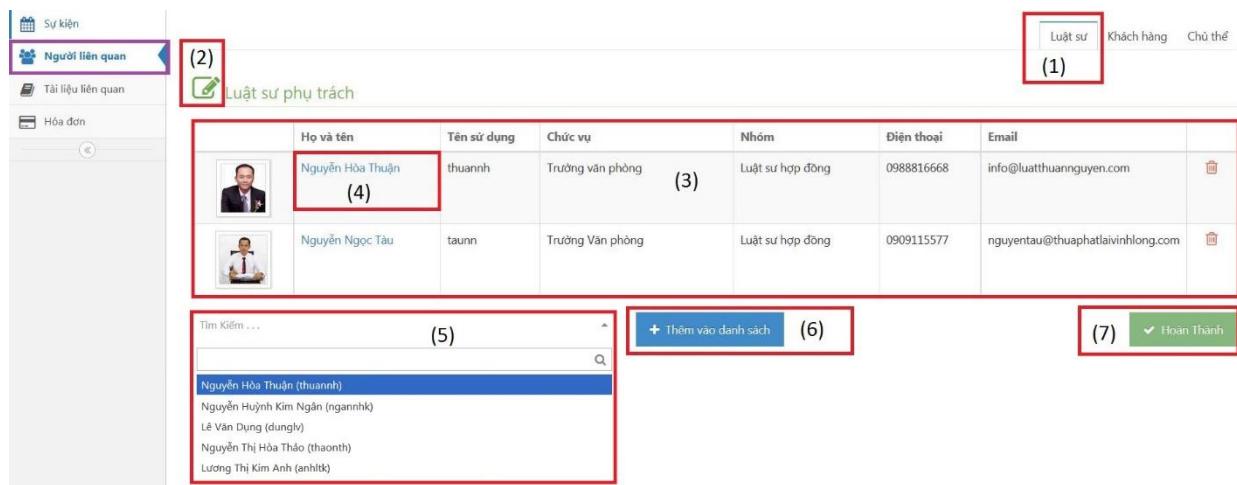


Figure 91: Lawyer Related Screen Image

##### 4.6.4.3.3.2. Lawyer Related Description

No	Name	Type	Description
1	"Luật sư"	Button	Change to "Luật sư" tab

<b>2</b>	Edit	Button	Must be click to edit info
<b>3</b>	View all lawyers	Table	Show all lawyers
<b>4</b>	Fullname	Link	Click to show detail of lawyer
<b>5</b>	“Tìm kiếm”	Combo box	Search lawyer before assign
<b>6</b>	“Thêm vào danh sách”	Button	Click to assign lawyer to current case
<b>7</b>	“Hoàn thành”	Button	Complete assign

#### 4.6.4.3.4. Customer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.6.4.3.5. Subject Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 4.6.4.3.6. Document Related

##### 4.6.4.3.6.1. Document Related Screen Image

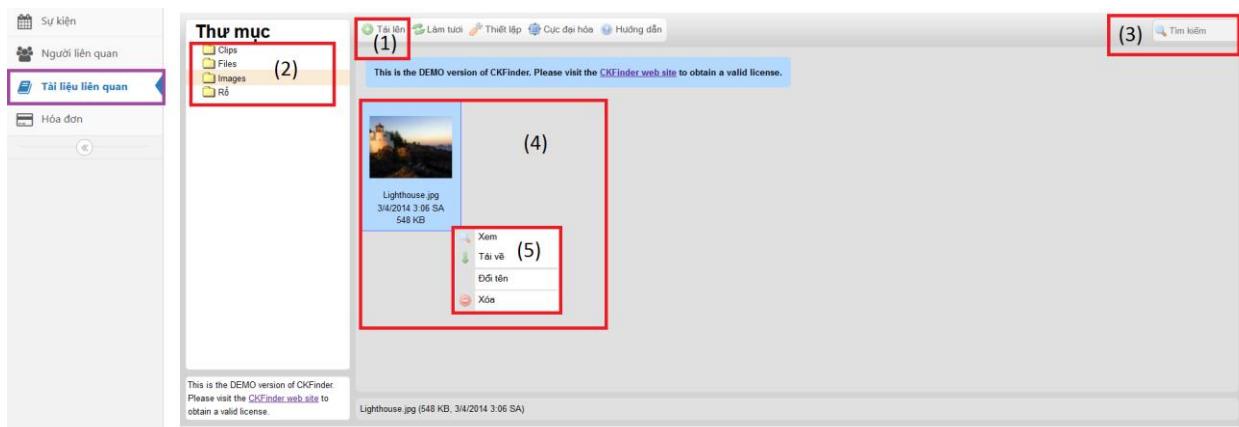


Figure 92: Document Related Screen Image

##### 4.6.4.3.6.2. Document Related Description

No	Name	Type	Description
<b>1</b>	“Tải lên”	Button	Upload one or many file to server
<b>2</b>	Folder	Button list	Each folder only allow upload a few type of file

<b>3</b>	"Tìm kiếm"	Textbox	Search file name automatically
<b>4</b>	File detail	Information	Show main information of file
<b>5</b>	Properties	Button list	Allow to View, Dowload, Rename and Delete a file

#### 4.6.4.3.7. Used Service / Payment

##### 4.6.4.3.7.1. All Used Services / Payments Screen Image

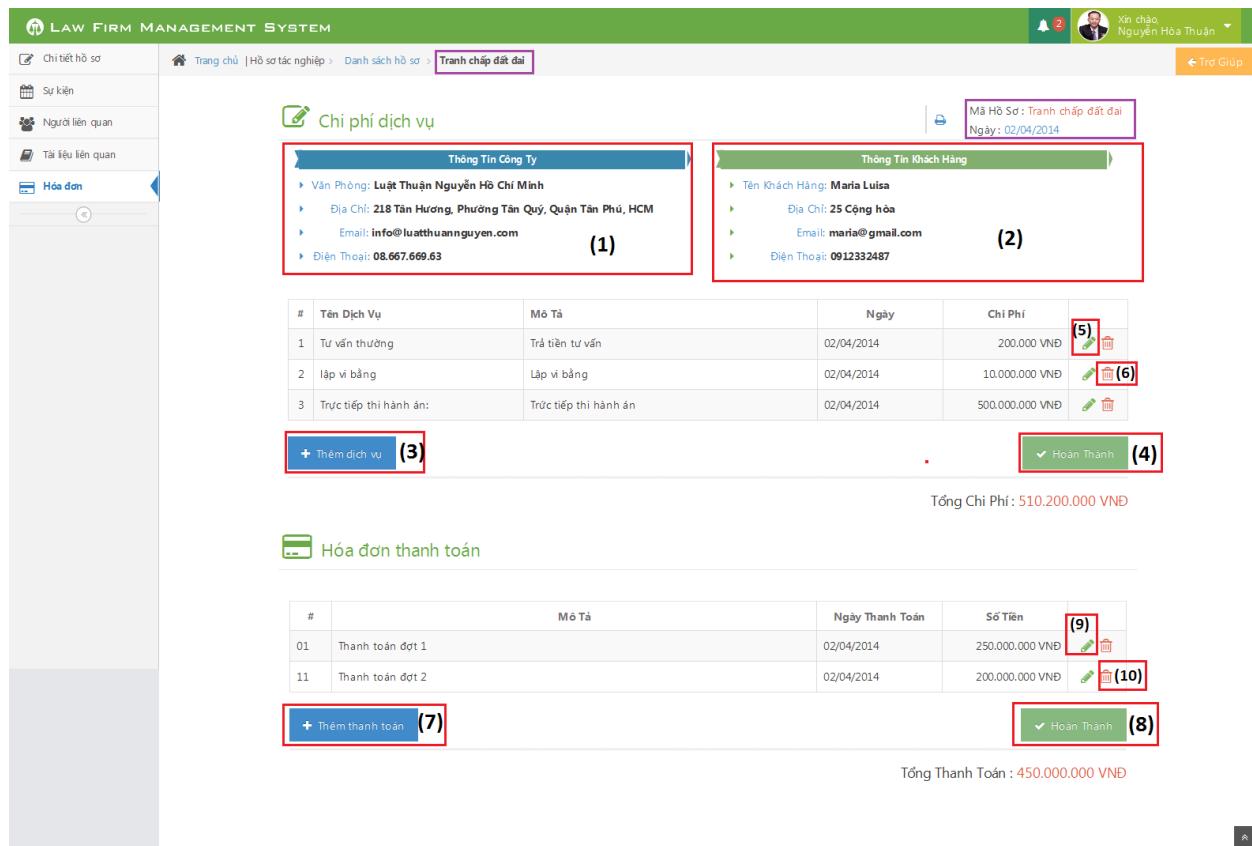


Figure 93: All Used Services / Payments Screen Image

##### 4.6.4.3.7.2. All Used Services / Payments Description

No	Name	Type	Description
<b>1</b>	List office detail of current case	Table	List detail of office in current case

<b>2</b>	List customer detail of current case	Table	List detail of customer in current case
<b>3</b>	Thêm dịch vụ	Button	Click to show popup for add new Used Service
<b>4</b>	Hoàn thành	Button	Click to close table and finish add/edit Used Service
<b>5</b>	Edit	Button	Click to show popup edit detail of Used Service
<b>6</b>	Delete	Button	Click to show popup confirm delete Used Service
<b>7</b>	Thêm thanh toán	Button	Click to show popup for add new Payment
<b>8</b>	Hoàn thành	Button	Click to close table and finish add/edit Payment
<b>9</b>	Edit	Button	Click to show popup edit detail of Payment
<b>10</b>	Delete	Button	Click to show popup confirm delete Payment

#### 4.6.4.3.8. Thư Viện Pháp Luật

##### 4.6.4.3.8.1. Thư Viện Pháp Luật Screen Image

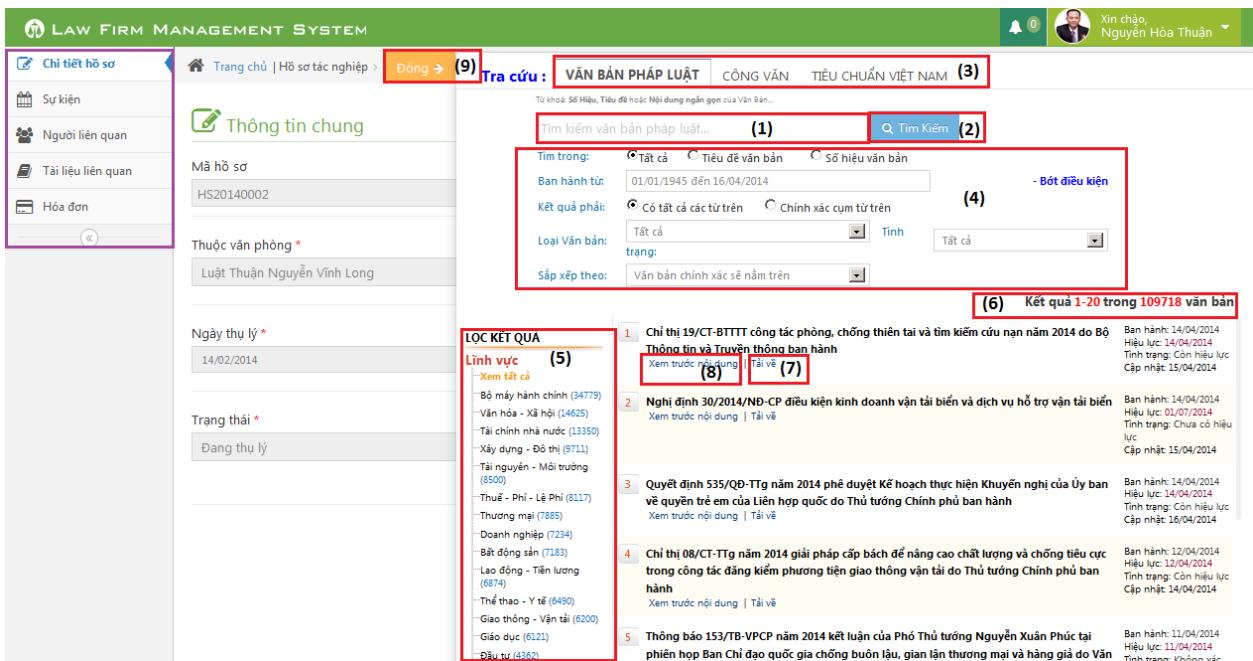


Figure 94: Thư Viện Pháp Luật Screen Image

#### 4.6.4.3.8.2. Thư Viện Pháp Luật Description

No	Name	Type	Description
1	Input keyword to search	Text box	Input key to search document
2	Tìm kiếm	Button	Press to search document
3	Type search of document	Button	Three type of search document
4	Choose or input other condition of search	Lable	Choose or input to add other condition of search
5	Choose a link to search other type of document	Lable	Choose a link to search other type of document
6	Result of search	Lable	Result of search
7	Download	Button	Click to download document to current Case
8	View	Button	Click to view detail of document
9	Close	Button	Close Search Popup

## 4.6.5. Customer

### 4.6.5.1. All Customers

#### 4.6.5.1.1. All Customers Screen Image

The screenshot shows the 'Law Firm Management System' interface. The top navigation bar has a green background with the system name and a user profile. The sidebar on the left has a purple header 'Khách hàng'. The main content area displays a table of customers with columns for Name, Representative, Address, and Phone Number. A red box labeled (1) highlights the 'Thêm khách hàng' button. Another red box labeled (2) highlights the table body. A third red box labeled (3) highlights the search and filter icons. A fourth red box labeled (4) highlights the edit icon. A fifth red box labeled (5) highlights the delete icon. A sixth red box labeled (6) highlights the row count 'dòng (6)'. A seventh red box labeled (7) highlights the search bar 'Tim kiếm:'. A eighth red box labeled (8) highlights the page navigation buttons.

Figure 95: All Customers Screen Image

#### 4.6.5.1.2. All Customers Description

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

### 4.6.5.2. Customer Detail

#### 4.6.5.2.1. Customer Detail Screen Image

The screenshot shows a software interface for managing law firm clients. At the top, there's a header bar with the system name 'LAW FIRM MANAGEMENT SYSTEM' and a user profile. Below it, a green header bar says 'Thêm Khách Hàng' (Add Customer). The main area is a form with various input fields:

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

At the bottom left is a yellow button labeled '(16)' with a 'Làm trống' (Clear) icon. On the right is a green button labeled '(17)' with a checkmark and 'Thêm mới' (Add new). To the right of the form is a vertical toolbar with icons for search, edit, and delete.

Figure 96: Customer Detail Screen Image

#### 4.6.5.2.2. Customer Detail Description

No	Name	Type	Description
1	Tên Khách hàng	Textbox	Customer name
2	Người đại diện	Textbox	Presentative
3	Ngày sinh	Date picker	Date of Birth
4	Ngày cấp CMND	Date picker	Identity Date
5	Số tài khoản	Textbox	Bank account
6	Mã số thuế	Textbox	Tax code
7	Điện thoại di động	Textbox	Mobile
8	Nhóm khách hàng	Combo-box	Customer group
9	Giới tính	Radio-button	Gender
10	Số CMND	Textbox	Identity Number
11	Nơi cấp CMND	Textbox	Identity Place
12	Tên ngân hàng	Textbox	Bank Branch

<b>13</b>	Email	Textbox	Email
<b>14</b>	Điện thoại cố định	Textbox	Phone
<b>15</b>	Địa chỉ	Text area	Address
<b>16</b>	Làm trống	Button	Clear all field
<b>17</b>	Thêm mới	Button	Add new customer

#### 4.6.6. Staff

##### 4.6.6.1. All Staffs

###### 4.6.6.1.1. All Staffs Screen Image

Tên nhân viên	Chức vụ	Địa chỉ liên hệ	Điện thoại	Vai trò	Trạng thái
Nguyễn Hòa Thuận	Trưởng văn phòng	58 Mậu Thân, khóm 1, phường 3, thành phố Vĩnh Long	0988816668	Admin	<span>Đang hoạt động</span>
Nguyễn Ngọc Tàu	Trưởng Văn phòng	Phạm Hùng - Phường 9 - TP. Vĩnh Long	0909115577	Creator	<span>Đang hoạt động</span>
Nguyễn Phi Long	Thư ký nghiệp vụ	59A, Phường Hưng Lợi, Quận Ninh Kiều, Cần Thơ	0912355854	Viewer	<span>Đang hoạt động</span>
Ngô Văn Tùng	Thư ký nghiệp vụ	02 Hai Bà Trưng - Q. Ninh Kiều - TP. Cần Thơ	0914463777	Viewer	<span>Đang hoạt động</span>
Nguyễn Thành Tín	Thành viên hợp danh	Số 24, Đường 3 tháng 2, Phường 1 - TPVL	0978224446	Viewer	<span>Đang hoạt động</span>
Nguyễn Huỳnh Kim Ngân	Nhân viên chăm sóc khách hàng	Số 2/7A đường Mậu Thân, khóm 1, phường 3, thành phố Vĩnh Long	0974332467	Admin	<span>Đang hoạt động</span>
Lê Văn Dũng	Luật sư thành viên	Hải Đông, Sơn Trà, Đà Nẵng	0903311879	Creator	<span>Đang hoạt động</span>
Nguyễn Thị Hòa Thảo	Luật sư	Số 88, Hoàng Thái Hiếu, Phường 1, TPVL	0913889233	Creator	<span>Đang hoạt động</span>
Lương Thị Kim Anh	Kế toán tổng hợp	Xã Dương Hòa, huyện Kiên Lương, tỉnh Kiên Giang	01992448593	Viewer	<span>Đang hoạt động</span>
Nguyễn Hữu Tiếng	Chuyên viên	Khóm 16, Thị trấn An Khê, Tỉnh Gia Lai	0902345537	Viewer	<span>Đang hoạt động</span>

Figure 97: All Staffs Screen Image

#### 4.6.6.1.2. All Staffs Description

No	Name	Type	Description
1	Thêm nhân viên	Button	Click to show popup for add new staff
2	Tìm kiếm	Textbox	Search staff
3	Image of staff	Image	Click to show popup detail of staff

<b>4</b>	View	Button	Click to show popup detail of staff
<b>5</b>	Edit	Button	Click to show popup edit detail of staff information.
<b>6</b>	List all staff	Table	List all staff
<b>7</b>	Paging	Button	Paging page

#### 4.6.6.2. Staff Detail

##### 4.6.6.2.1. Staff Detail Screen Image

Chi tiết nhân viên X

 <span style="font-size: 1.5em; font-weight: bold;">(1)</span>	Nhóm nhân viên * <input style="width: 100%;" type="text" value="Luật sư hợp đồng"/> <span style="font-size: 1.5em; font-weight: bold;">(8)</span>	Vai trò nhân viên * <input style="width: 100%;" type="text" value="Creator"/> <span style="font-size: 1.5em; font-weight: bold;">(16)</span>
Ngày sinh * <input style="width: 100%;" type="text" value="02/01/1980"/> <span style="font-size: 1.5em; font-weight: bold;">(9)</span>	CMND * <input style="width: 100%;" type="text" value="146568448"/> <span style="font-size: 1.5em; font-weight: bold;">(17)</span>	
Nơi sinh <input style="width: 100%;" type="text" value="Vĩnh Long"/> <span style="font-size: 1.5em; font-weight: bold;">(10)</span>	Ngày Cấp CMND * <input style="width: 100%;" type="text" value="02/12/1998"/> <span style="font-size: 1.5em; font-weight: bold;">(18)</span>	
Tên nhân viên * <input style="width: 100%;" type="text" value="Nguyễn Ngọc Tàu"/> <span style="font-size: 1.5em; font-weight: bold;">(2)</span>	Điện thoại di động * <input style="width: 100%;" type="text" value="0909115577"/> <span style="font-size: 1.5em; font-weight: bold;">(11)</span>	
Tên đăng nhập * <input style="width: 100%;" type="text" value="taunn"/> <span style="font-size: 1.5em; font-weight: bold;">(3)</span>	Điện thoại nhà riêng <input style="width: 100%;" type="text"/> <span style="font-size: 1.5em; font-weight: bold;">(12)</span>	
Chức vụ <input style="width: 100%;" type="text" value="Trưởng Văn phòng"/> <span style="font-size: 1.5em; font-weight: bold;">(4)</span>	Email * <input style="width: 100%;" type="text" value="nguyentau@thuaphatlaivinlong.com"/> <span style="font-size: 1.5em; font-weight: bold;">(13)</span>	
Giới tính: <input checked="" type="radio"/> Nam <input type="radio"/> Nữ <span style="font-size: 1.5em; font-weight: bold;">(5)</span>	Địa chỉ liên hệ * <input style="width: 100%;" type="text" value="Phạm Hùng - Phường 9 - TP. Vĩnh Long"/> <span style="font-size: 1.5em; font-weight: bold;">(14)</span>	
<span style="color: green;">✓</span> Đặt lại mật khẩu <span style="font-size: 1.5em; font-weight: bold;">(6)</span>	Số tài khoản <input style="width: 100%;" type="text"/> <span style="font-size: 1.5em; font-weight: bold;">(21)</span>	
<span style="color: red;">✓</span> Ngừng hoạt động <span style="font-size: 1.5em; font-weight: bold;">(7)</span>	Chí nhánh ngân hàng <input style="width: 100%;" type="text"/> <span style="font-size: 1.5em; font-weight: bold;">(22)</span>	
<span style="background-color: #ccc; border-radius: 5px; padding: 5px 10px;">✖ Đóng <span style="font-size: 1.5em; font-weight: bold;">(23)</span></span> <span style="margin-left: 20px; background-color: #0072BD; color: white; border-radius: 5px; padding: 5px 10px; border: none;">✖ <span style="font-size: 1.5em; font-weight: bold;">(24)</span> <span style="color: white;">Chỉnh sửa</span></span>		

Figure 98: Staff Detail Screen Image

##### 4.6.6.2.2. Staff Detail Description

No	Name	Type	Description
----	------	------	-------------

<b>1</b>	Image of staff	Image	Image of staff
<b>2</b>	Tên nhân viên	Textbox	Name of staff
<b>3</b>	Tên đăng nhập	Textbox	Username of staff
<b>4</b>	Chức vụ	Textbox	Position of staff
<b>5</b>	Giới tính	Radio button	Choose sex of staff
<b>6</b>	Đặt lại mật khẩu	Link	Reset password of staff to default
<b>7</b>	Ngừng hoạt động / Hoạt động lại	Link	Change status of staff
<b>8</b>	Nhóm nhân viên	Textbox	Select group of staff
<b>9</b>	Ngày sinh	Datetime picker	Date of birth of staff
<b>10</b>	Nơi sinh	Textbox	Place of birth of staff
<b>11</b>	Điện thoại di động	Textbox	Phone number of staff
<b>12</b>	Điện thoại nhà riêng	Textbox	Telephone of staff
<b>13</b>	Email	Textbox	Email of staff
<b>14</b>	Địa chỉ liên hệ	Textbox	Address of staff
<b>15</b>	Thuộc văn phòng	Multiple select box	Select office of staff
<b>16</b>	Vai trò nhân viên	Select box	Select role of staff
<b>17</b>	CMND	Textbox	Identity number of staff
<b>18</b>	Ngày cấp CMND	Datetime picker	Date of Identity of staff
<b>19</b>	Nơi cấp CMND	Textbox	Place of Identity of staff
<b>20</b>	Mã số thuế	Textbox	Tax number of staff
<b>21</b>	Số tài khoản	Textbox	Bank account number of staff
<b>22</b>	Chi nhánh ngân hàng	Textbox	Name of bank of staff

23	Đóng	Button	Close Popup and back to list staff screen.
24	Lưu chỉnh sửa	Button	Update staff information to database

## 4.6.7. Service

### 4.6.7.1. All Services

#### 4.6.7.1.1. All Services Screen Image

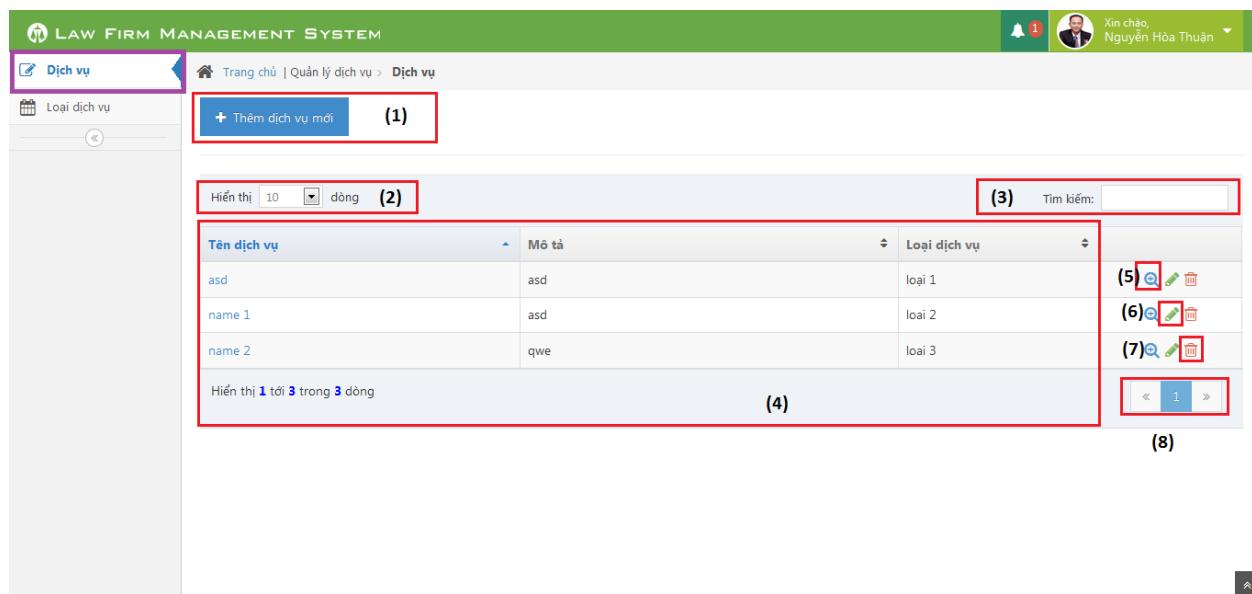


Figure 99: All Services Screen Image

#### 4.6.7.1.2. All Services Description

No	Name	Type	Description
1	Thêm dịch vụ mới	Button	Add new service
2	Dòng hiển thị	Combo-box	Rows of record in table
3	Tìm kiếm	Textbox	Search service
4	List Services	Table	List all services
5	View customer detail	Icon	Show Customer detail pop-up

<b>6</b>	Edit customer	Icon	Show edit customer pop-up
<b>7</b>	Delete customer	Icon	Delete customer
<b>8</b>	Paging	Button	Paging the customer list

#### 4.6.7.2. Service Detail

##### 4.6.7.2.1. Service Detail Screen Image

The screenshot shows a modal dialog titled "Thêm dịch vụ". It contains three input fields: "Tên dịch vụ" (1), "Loại dịch vụ" (2), and "Mô tả" (3). At the bottom left is a button labeled "Đóng" (4) and at the bottom right is a button labeled "Thêm mới" (5). The entire dialog is highlighted with a red box.

Figure 100: Service Detail Screen Image

##### 4.6.7.2.2. Service Detail Description

No	Name	Type	Description
<b>1</b>	Tên dịch vụ	Textbox	Add new service
<b>2</b>	Loại dịch vụ	Combo-box	Service type
<b>3</b>	Mô tả	Text area	Description
<b>4</b>	Đóng	Button	Close pop-up
<b>5</b>	Thêm mới	Button	Add new service

#### 4.6.8. Office

##### 4.6.8.1. All Offices

#### 4.6.8.1.1. All Offices Screen Image

The screenshot shows a web-based application for managing law firm offices. At the top, there's a green header bar with the title 'LAW FIRM MANAGEMENT SYSTEM'. Below the header, a navigation bar has items 'Trang chủ' and 'Quản lý văn phòng' selected. A red box labeled '(1)' highlights the 'Thêm văn phòng' button. To the right, there's a user profile and a notification bell icon.

The main content area displays a table of office details. The table has columns for 'Tên văn phòng', 'Địa chỉ liên hệ', 'Điện thoại', 'Website', and 'Trạng thái'. Three rows of data are shown:

- Row 1: Luật Thuận Nguyễn Hồ Chí Minh (3). Address: 218 Tân Hương, Phường Tân Quý, Quận Tân Phú, HCM. Status: Đang hoạt động (4).
- Row 2: Luật Thuận Nguyễn Vĩnh Long. Address: 161/10 Long Thuận A, Long Phước, Long Hồ, Vĩnh Long. Status: Đang hoạt động (5).
- Row 3: Thủ Phát Lai Vĩnh Long. Address: Số 2/7A đường Mậu Thân, phường 3, thành phố Vĩnh Long. Status: Đang hoạt động (6).

Below the table, there's a search bar with 'Tim kiếm:' and a page navigation bar with '(7)' and '1'.

Figure 101: All Offices Screen Image

#### 4.6.8.1.2. All Offices Description

No	Name	Type	Description
1	Thêm văn phòng	Button	Click to show popup for add new office
2	Tìm kiếm	Textbox	Search office
3	Name of office	Table	Click to show popup detail of office
4	View	Button	Click to show popup detail of office
5	Edit	Button	Click to show popup edit detail of office information.
6	List all office	Table	List all office
7	Paging	Button	Paging page

#### 4.6.8.2. Office Detail

##### 4.6.8.2.1. Office Detail Screen Image

Chi tiết văn phòng X

Tên văn phòng *	Địa chỉ văn phòng *
Thừa Phát Lai Vĩnh Long <span style="font-size: 2em; vertical-align: middle;">(1)</span>	Số 2/7A đường Mậu Thân, khóm 1, phường 3, thành phố Vĩnh Long <span style="font-size: 2em; vertical-align: middle;">(7)</span>
Người quản lí *	Điện thoại *
Nguyễn Hòa Thuận <span style="font-size: 2em; vertical-align: middle;">(2)</span>	0966611139 <span style="font-size: 2em; vertical-align: middle;">(8)</span>
Số tài khoản	Mã số thuế
087641212 <span style="font-size: 2em; vertical-align: middle;">(3)</span>	0909012121 <span style="font-size: 2em; vertical-align: middle;">(9)</span>
Fax	Ngân hàng
0909009091212 <span style="font-size: 2em; vertical-align: middle;">(4)</span>	VCB <span style="font-size: 2em; vertical-align: middle;">(10)</span>
Email *	Website
info@thuaphatlavinhlong.com <span style="font-size: 2em; vertical-align: middle;">(5)</span>	www.thuaphatlavinhlong.com <span style="font-size: 2em; vertical-align: middle;">(11)</span>
Ngừng hoạt động <span style="font-size: 2em; vertical-align: middle;">(6)</span>	
<span style="background-color: #ccc; padding: 5px;">x Đóng <span style="font-size: 2em; vertical-align: middle;">(12)</span></span>	<span style="background-color: #6b8e23; color: white; padding: 5px;">✓ Lưu chỉnh sửa <span style="font-size: 2em; vertical-align: middle;">(13)</span></span>

Figure 102: Office Detail Screen Image

#### 4.6.8.2.2. Office Detail Description

No	Name	Type	Description
1	Tên văn phòng	Textbox	Name of office
2	Người quản lí	Textbox	Nam's manager of office
3	Số tài khoản	Textbox	Bank account number of office
4	Fax	Textbox	Fax of office
5	Email	Textbox	Email of office
6	Ngừng hoạt động / Hoạt động lại	Link	Change status of office
7	Địa chỉ văn phòng	Textbox	Address of office

<b>8</b>	Điện thoại	Textbox	Phone number of office
<b>9</b>	Mã số thuế	Textbox	Tax number of office
<b>10</b>	Số tài khoản	Textbox	Bank account number of office
<b>11</b>	Ngân hàng	Textbox	Name of bank of office
<b>12</b>	Đóng	Button	Close Popup and back to list office screen.
<b>13</b>	Lưu chỉnh sửa	Button	Update office information to database

## 4.7. Database Design

### 4.7.1. Relational Database Diagram

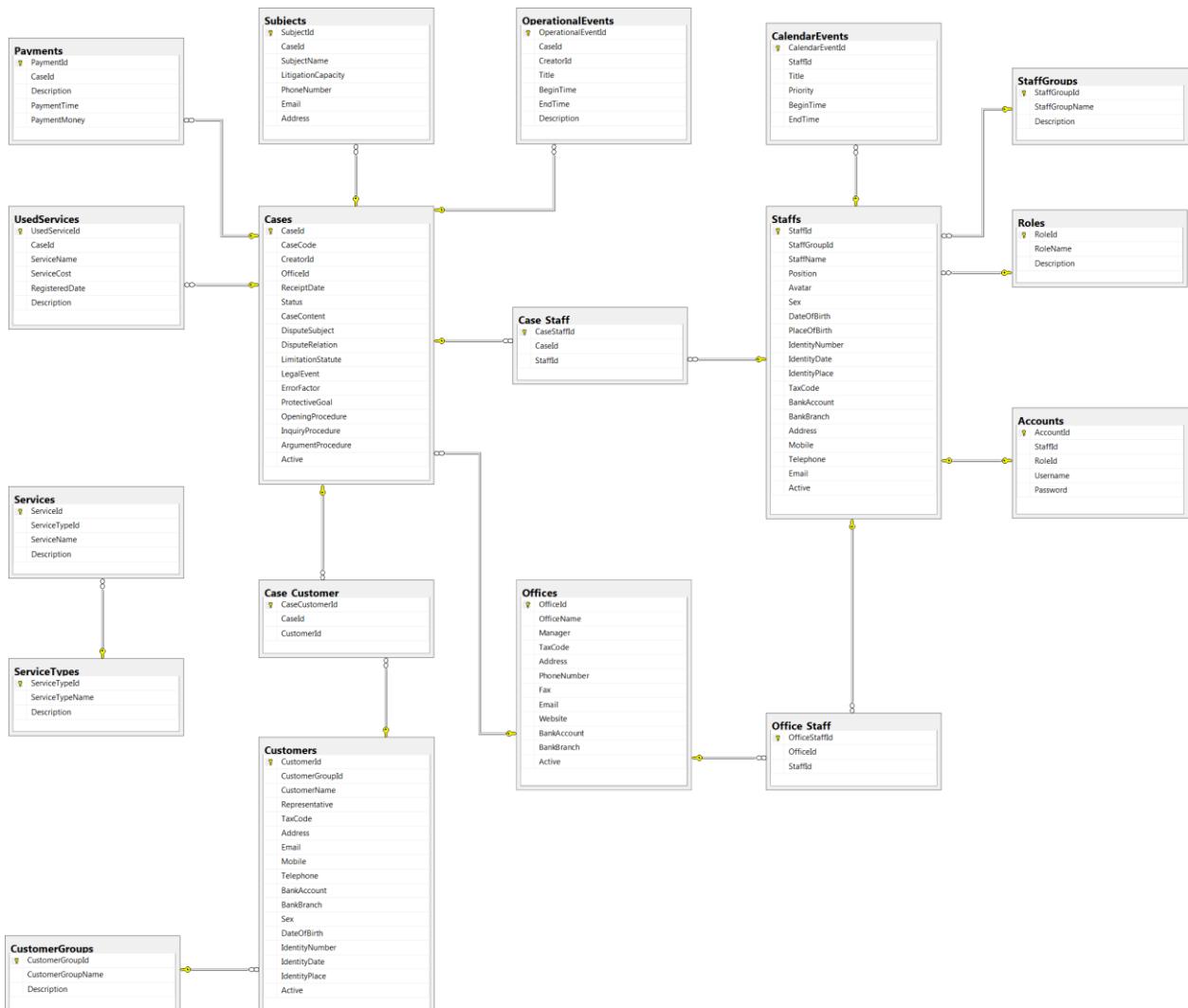


Figure 103: Relational Database Diagram

#### 4.7.2. Table Dictionary

Field Name	English Terminology	Thuật ngữ tiếng Việt
<b>ReceiptDate</b>	Date of receipt of denunciations	Ngày thụ lý
<b>CaseContent</b>	The contents of dispute	Nội dung tranh chấp
<b>DisputeSubject</b>	The subject of dispute	Đối tượng tranh chấp
<b>DisputeRelation</b>	The relation of dispute	Quan hệ tranh chấp
<b>LimitationStatute</b>	The statute of limitations	Thời hiệu

<b>LegalEvent</b>	Legal event	Sự kiện pháp lý
<b>ErrorFactor</b>	Error factor	Yếu tố lỗi
<b>ProtectiveGoal</b>	Protective goal / Objective	Mục tiêu bảo vệ
<b>OpeningProcedure</b>	Procedure for opening court sessions	Phần thủ tục bắt đầu
<b>InquiryProcedure</b>	Procedure for inquiry	Phần thủ tục xét hỏi
<b>ArgumentProcedure</b>	Argument at cours session	Phần tranh luận
<b>Representative</b>	Lawful representatives	Người đại diện
<b>LitigationCapacity</b>	The capacity of litigation	Tư cách tố tụng

# **Report No.5: System Implementation & Test (SIT)**

## **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. Features to be tested**

All features to be tested

### **5.2.2. Features not to be tested**

No features not to be tested

### **5.2.3. Testing Tools and Environment**

- Windows 7 Operating System
- Mozilla Firefox 25 or higher version

## 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							
AU_01	Test Login Blank Field		<ul style="list-style-type: none"> <li>-Go to website Login page</li> <li>-Click [Đăng nhập] button</li> </ul>	<ul style="list-style-type: none"> <li>-Error message is displayed: “Tên đăng nhập hoặc mật khẩu không đúng! ”</li> </ul>	Pass	03/04/2014	
AU_02	Test Login Successfully		<ul style="list-style-type: none"> <li>-Go to website Login page</li> <li>- Input “thuannh” for “Tên đăng nhập”</li> <li>- Input “123456” for “Mật khẩu”</li> <li>-Click [Đăng nhập] button</li> </ul>	<ul style="list-style-type: none"> <li>- Login successfully.</li> <li>- [Home] page will be shown.</li> </ul>	Pass	03/04/2014	
AU_03	Test Login with wrong username		<ul style="list-style-type: none"> <li>-Go to website Login page</li> <li>- Input “thuannh123” for “Tên đăng nhập”</li> <li>- Input “123456” for “Mật khẩu”</li> <li>-Click [Đăng nhập] button</li> </ul>	<ul style="list-style-type: none"> <li>- Login fail and displayed message. “Tên đăng nhập hoặc mật khẩu không đúng! ”</li> </ul>	Pass	03/04/2014	

AU_04	Test Login with wrong password		<ul style="list-style-type: none"> <li>- Go to website Login page</li> <li>- Input “thuannh” for “Tên đăng nhập”</li> <li>- Input “12345678” for “Mật khẩu”</li> <li>- Click [Đăng nhập] button</li> </ul>	<ul style="list-style-type: none"> <li>- Login fail and displayed message.</li> </ul> <p>“Tên đăng nhập hoặc mật khẩu không đúng! ”</p>	Pass	03/04/2014	
AU_05	Test Login with account is Active	User “thuannh” have status is Active	<ul style="list-style-type: none"> <li>- Go to website Login page</li> <li>- Input “thuannh” for “Tên đăng nhập”</li> <li>- Input “12345678” for “Mật khẩu”</li> <li>- Click [Đăng nhập] button</li> </ul>	<ul style="list-style-type: none"> <li>- Login fail and displayed message.</li> </ul> <p>“Nhân viên đang ngừng hoạt động!”</p>	Pass	03/04/2014	
AU_06	Test Login with error server		<ul style="list-style-type: none"> <li>- Go to website Login page</li> <li>- Input “thuannh” for “Tên đăng nhập”</li> <li>- Input “123456” for “Mật khẩu”</li> <li>- Click [Đăng nhập] button</li> </ul>	<ul style="list-style-type: none"> <li>- Login fail and displayed message.</li> </ul> <p>“Lỗi kết nối đến máy chủ!</p>	Pass	03/04/2014	

### 5.3.2. Change Password

ID	Test Case Description	Preconditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Change Password							
Steps 1. User login into system. 2. Click “Đổi mật khẩu” in Control panel.							

AC_07	Test change password screen	User have login	-Go to Chage password pass popup	"Thay đổi mật khẩu" Popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]	Pass	03/04/2014	
AC_08	Test change password Blank Field	AC_07	Go to change password screen  -Click [Đổi mật khẩu] button	-Error message is displayed: “Hãy nhập lại mật khẩu cũ ”  “Hãy nhập mật khẩu mới.”  “Hãy nhập lại mật khẩu mới.”	Pass	03/04/2014	
AC_09	Test change password  Input not enough 6 character in field “Mật khẩu mới” and “Lặp lại mật khẩu mới”	AC_07	Go to change password screen  -Input “123” to “Mật khẩu mới” text box  -Input “123” to “Lặp lại mật khẩu mới” text box	-Error message is displayed: “Mật khẩu mới phải có ít nhất 6 ký tự.”	Pass	03/04/2014	
AC_10	Test change password  Input character in field “Mật khẩu mới” and “Lặp lại mật khẩu	AC_07	Go to change password screen  -Input “123456” to “Mật khẩu mới” text box  -Input “123567” to	-Error message is displayed: “Mật khẩu 2 không trùng khớp.”	Pass	03/04/2014	

	mới” diffirent		“Lặp lại mật khẩu mới” text box				
AC_11	Test change password Input error old password	AC_07 Old password of user “thuannh” is 123456	Go to change password screen  -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 khẩu] button	-Error message is displayed: “Mật khẩu cũ không đúng !”	Pass	03/04/2014	
AC_12	Test change password Successfully	AC_07 Old password of user “thuannh” is 123456	Go to change password screen  -Input “123456” to “Mật khẩu cũ” text box  -Input “123567” to “Mật khẩu mới” text box  -Input “123567” to “Lặp lại mật khẩu mới” text box  - Click [Đổi mật khẩu] button	-Success message is displayed: “Cập nhật mật khẩu nhân viên thành công!”  New password of user “thuannh” is 1234567	Pass	03/04/2014	

AC_13	Test change password Close button	AC_07	Go to change password screen -Click [Đóng] button	- “Thay đổi mật khẩu” Popup is closed.	Pass	03/04/2014	
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### 5.3.3. View Home

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.4. Manage Calendar Event

#### 5.3.4.1. List Calendar Events

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.4.2. Add New Calendar Event

ID	Test Case Description	Precondition	Test Case Procedure	Expected Output	Result	Test Date	Note
Add Calendar Event							
Steps							
1. Go to Calendar Event page 2. Click on [Lịch làm việc] tab							
CE_01	Test Add new calendar event	User login	Click and drag at calendar, input event name and press “Xác nhận” button	Event is created	Pass	03/04/2014	
CE_02	Test Add new calendar event	User login	Drag and drop an event tag to calendar, input event name and press “Xác nhận” button	Event is created	Pass	03/04/2014	
CE_03	Test Cancel add new calendar event	User login	Click and drag at calendar, input event name and press “Bỏ qua” button	Confirm pop-up is closed	Pass	03/04/2014	

CE_04	Test Cancel add new calendar event	User login	Drag and drop an event tag to calendar, input event name and press “Bỏ qua” button	Confirm pop-up is closed	Pass	03/04/2014	
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#### 5.3.4.3. Edit Calendar Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.4.4. Delete Calendar Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.4.5. Search Calendar Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.5. Manage Case

#### 5.3.5.1. List All Cases

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.2. 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 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 3. Input information 4. Click on “Thêm mới” button			

				- Thuộc văn phòng (dropdown list)  - Nội dung (textarea)			
CA02	Test add new case successfully	CA01	- Input case infor  - Click on “Thêm mới” button	- System will be create new case  - Redirect to case detail page	Pass	4/3/2014	
CA03	Test add new case validation	CA01	- Do not input “Mã hồ sơ”  - Click on “Thêm mới” button	- Error message will be displayed: “Nhập mã hồ sơ!”	Pass	4/3/2014	
CA04	Test add new case validation	CA01	- Do not input “Thuộc văn phòng”  - Click on “Thêm mới” button	- Error message will be displayed: “Chọn văn phòng!”	Pass	4/3/2014	
CA05	Test add new case validation	CA01	- Do not input “Nội dung”  - Click on “Thêm mới” button	- Error message will be displayed: “Nhập nội dung!”	Pass	4/3/2014	
CA06	Test add new case validation	CA01	- Input “Mã hồ sơ” already exist  - Click on “Thêm mới” button	- Error message will be displayed: “Mã hồ sơ đã tồn tại!”	Pass	4/3/2014	
CA07	Test cancel add new case	CA01	- Click on “Đóng” button	The popup be close	Pass	4/3/2014	

### 5.3.5.3. Search Case

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4. Manage Case Detail

##### 5.3.5.4.1. Manage Case Info

###### 5.3.5.4.1.1. View Case Info

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

###### 5.3.5.4.1.2. Edit Case Info

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Edit Case Info							
Steps							
CI01	Test view case info	- User logged in - Admin or user is assigned in current case	Go to case detail page	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) - Sự kiện pháp lý (textarea)	Pass	4/4/2014	

				- Yếu tố lỗi (textarea)			
CI02	Test update case info successfully	CI01	- Edit case infor - Click on "Lưu chỉnh sửa" button	- System will be update case infor - A notification will be displayed "Cập nhật thông tin hồ sơ thành công!"	Pass	4/4/2014	
CI03	Test update case info validation	CI01	- "Nội dung tranh chấp" is empty - Click on "Lưu chỉnh sửa" button	- Error message will be displayed: "Nhập nội dung!"	Pass	4/4/2014	
CI04	Test cancel update case info	CI01	- Click on "Hủy chỉnh sửa" button	- Two button is hidden - All field is read only	Pass	4/4/2014	

### 5.3.5.4.2. Manage Operation Event

#### 5.3.5.4.2.1. List Operation Events

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.2.2. View Operation Event Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.2.3. Add New Operation Event

ID	Test Case Description	Precondition s	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Operation Event							
<p>Steps</p> <ol style="list-style-type: none"> <li>1. User logged in system</li> <li>2. Go to Case detail and click [Sự kiện] button</li> <li>3. Click on edit icon button</li> <li>4. Click on [Thêm sự kiện] button</li> <li>5. Input information and click [Tạo sự kiện] button</li> </ol>							

OE_01	Test Add new operation event screen	User login User assign current case	-Click [Thêm sự kiện] button	Popup is displayed correctly Two button [Đóng], [Tạo sự kiện]	Pass	03/04/2014	
OE_02	Test Add new operation event Blank Field	User login User assign current case	-Click [Thêm sự kiện] button -Click [Tạo sự kiện] button	- Error message is displayed “Hãy chọn thời gian và nhập tiêu đề!”	Pass	03/04/2014	
OE_03	Test Add new operation event Add Successfully	User login User assign current case	-Click [Thêm sự kiện] button - Input all information in all field. -Click [Tạo sự kiện] button	- Successful message is displayed. “Thêm sự kiện thành công!” New Event is inserted and display on timeline	Pass	03/04/2014	
OE_04	Test Add new operation event Close button	User login User assign current case	-Click [Thêm sự kiện] button -Click [Đóng] button	-Close Popup add new operation event - Back to timeline screen.	Pass	03/04/2014	
OE_05	Test Add new operation event Input date to start > date to finish	User login User assign current case	-Click [Thêm sự kiện] button - Choose date start “4/4/2014 0:0” and date finish “3/4/2014 0:0” -Click [Áp dụng] button - Click [Thêm mới] textbox	- System can not insert this date because date start > date finish.	Pass	03/04/2014	

OE_06	Test Add new operation event  Input time to start > time to finish	User login  User assign current case	-Click [Thêm sự kiện] button  - Choose date start "4/4/2014 10:00" and date finish "4/4/2014 09:00"  -Click [Áp dụng] button  - Click [Thêm mới] textbox	- System can not insert this date because time start > time finish.	Pass	03/04/2014	
OE_07	Test Add new operation event  Click [Hủy bỏ] button	User login  User assign current case	-Click [Thêm sự kiện] button  - Choose date start "4/4/2014 0:0" and date finish "3/4/2014 0:0"  -Click [Hủy bỏ] button	- Popup date time picker is closed and back to input screen.	Pass	03/04/2014	

#### 5.3.5.4.2.4. Edit Operation Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.2.5. Delete Operation Event

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.5.4.3. Manage Lawyer Related

#### 5.3.5.4.3.1. List Lawyers Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.3.2. View Lawyer Related Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.3.3. 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"> <li>1. User logged in system</li> <li>2. Go to Case Detail and then “Người liên quan” page</li> <li>3. Click on edit icon button</li> <li>4. Search lawyer to assign</li> <li>5. Click “Thêm vào danh sách” button</li> </ol>							
LR01	Test assign lawyer related component	- User logged in - User is admin or creator of current case	- Go “Người liên quan” page - Click on edit icon button	The page will be show with: - List of lawyer related (table) - Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button)	Pass	4/4/2014	
LR02	Test assign lawyer related successfully	LR01	- Search and then choose one lawyer - Click on “Thêm vào danh sách” button	- System will be assign the lawyer into case - A notification will be displayed “Đã phân công luật sư!”	Pass	4/4/2014	
LR03	Test assign lawyer related validation	LR01	- No choose lawyer - Click on “Thêm vào danh sách” button	- Error message will be displayed: “Hãy chọn 1 luật sư!”	Pass	4/4/2014	
LR04	Test assign lawyer related validation	LR01	- Choose the lawyer already exist in list - Click on “Thêm vào danh sách” button	- Error message will be displayed: “Đã tồn tại luật sư!”	Pass	4/4/2014	

LR05	Test complete assign lawyer related	LR01	Click on “Hoàn thành” button	Two button and search textbox is hidden	Pass	4/4/2014	
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#### 5.3.5.4.3.4. Remove Lawyer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.3.5. Search Lawyer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.5.4.4. Manage Customer Related

#### 5.3.5.4.4.1. List Customers Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.4.2. View Customer Related Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.4.3. Add Customer Related

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add Customer Related							
Steps							
			1. User logged in system 2. Go to Case Detail and then “Người liên quan”, “Khách hàng” tab 3. Click on edit icon button 4. Search customer to assign (if not exist, user can be add new customer) 5. Click “Thêm vào danh sách” button				
CR01	Test add customer related component	<ul style="list-style-type: none"> <li>- User logged in</li> <li>- Admin or user is assigned in current case</li> </ul>	<ul style="list-style-type: none"> <li>- Go “Người liên quan” page</li> <li>- Click on edit icon button</li> </ul>	The page will be show with: <ul style="list-style-type: none"> <li>- List of customer related (table)</li> <li>- Tạo khách hàng (button)</li> </ul>	Pass	4/4/2014	

				- Tìm kiếm (dropdown list) - Thêm vào danh sách (button) - Hoàn thành (button)			
CR02	Test add customer related successfully	CR01	- Search and then choose one customer - Click on “Thêm vào danh sách” button	- System will be assign the lawyer into case - A notification will be displayed “Thêm khách hàng thành công!”	Pass	4/4/2014	
CR03	Test add customer related validation	CR01	- No choose customer - Click on “Thêm vào danh sách” button	- Error message will be displayed: “Hãy chọn 1 khách hàng!”	Pass	4/4/2014	
CR04	Test add customer related validation	CR01	- Choose the customer already exist in list - Click on “Thêm vào danh sách” button	- Error message will be displayed: “Đã tồn tại khách hàng!”	Pass	4/4/2014	
CR05	Test complete add customer related	CR01	Click on “Hoàn thành” button	Three button and search textbox is hidden	Pass	4/4/2014	

#### 5.3.5.4.4.4. Remove Customer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.4.5. Search Customer Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.5. Manage Subject Related

### 5.3.5.4.5.1. List Subjects Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.5.4.5.2. 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 thẻ” tab 3. Click on edit icon button 5. Click “Tạo chủ thẻ” button							
SR01	Test add new subject related component	- User logged in - Admin or user is assigned in current case	- Click on edit icon button - Click on “Tạo chủ thẻ” button	The modal popup will be show with:  - Tên chủ thẻ (button) - Tư cách tố tụng (button) - Điện thoại (button) - Email (button) - Địa chỉ (button)	Pass	4/4/2014	
SR02	Test add new subject related successfully	SR01	- Input information - Click on “Thêm mới” button	- System will be assign the lawyer into case  - A notification will be displayed “Thêm chủ thẻ mới thành công!”	Pass	4/4/2014	
SR03	Test add new subject related validation	SR01	- Do not input “Tên chủ thẻ” - Click on “Thêm mới” button	- Error message will be displayed: “Nhập tên chủ thẻ!”	Pass	4/4/2014	

SR04	Test add new subject related validation	SR01	- Do not input “Tư cách tố tụng” - Click on “Thêm mới” button	- Error message will be displayed: “Nhập tư cách tố tụng!”	Pass	4/4/2014	
SR05	Test add new subject related validation	SR01	Input character is not number	Do not allow to input	Pass	4/4/2014	
SR06	Test add new subject related validation	SR01	Input wrong format email	- Error message will be displayed: “Email chưa đúng định dạng!”	Pass	4/4/2014	
SR07	Test cancel add new subject related	SR01	Click on “Đóng” button	Modal popup be close	Pass	4/4/2014	

#### 5.3.5.4.5.3. Edit Subject Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.5.4. Delete Subject Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.6. Manage Document Related

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.7. Manage Used Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.8. Manage Payment

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.5.4.9. Integrate Thư Viện Pháp Luật

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.6. Manage Customer Group

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

## 5.3.7. Manage Customer

### 5.3.7.1. List Customers

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.7.2. View Customer Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 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	-Click [Thêm khách hàng] button	"Thêm khách hàng" Popup is displayed correctly Two button [Làm trống], [Tạo mới]	Pass	03/04/2014	
MA_02	Test Add new customer screen  Blank Field	Authorized User	-Click [Thêm khách hàng] button  -Click [Thêm mới] button	- Error message is displayed in current field (field with * label with red color) require input data.	Pass	03/04/2014	
MA_03	Test Add new customer screen  Add Successfully	Authorized User	-Click [Thêm khách hàng] button  - Input all information in all field.  -Click [Thêm mới] button	- Successful message is displayed. "Tạo khách hàng thành công!"  New Customer is inserted and display in Customer View	Pass	03/04/2014	

MA_04	Test Add new customer screen Clear data	Authorized User	<ul style="list-style-type: none"> <li>-Click [Thêm khách hàng] button</li> <li>- Input all information in all field.</li> <li>-Click [Làm trống] button</li> </ul>	<ul style="list-style-type: none"> <li>- All field is reset to blank.</li> </ul>	Pass	03/04/2014	
MA_07	Test Add new customer screen Input regular expression in Email	Authorized User	<ul style="list-style-type: none"> <li>-Click [Thêm khách hàng] button</li> <li>- Input all information in all field.</li> <li>-Input “thuaninfo” in to “Email” textbox</li> <li>- Click [Thêm mới] textbox</li> </ul>	<ul style="list-style-type: none"> <li>- Error message is displayed. “Hãy nhập địa chỉ email đúng”</li> </ul>	Pass	03/04/2014	
MA_08	Test Add new customer screen Input Character in numeric's fields	Authorized User	<ul style="list-style-type: none"> <li>-Click [Thêm khách hàng] button</li> <li>- Input all information in all field.</li> <li>-Input “asdfg” in to “Điện thoại di động”, “Điện thoại cố định”, “Số tài khoản”, “Mã số thuế”, “Số CMND” textbox</li> </ul>	<ul style="list-style-type: none"> <li>- Can not input character in this fields</li> </ul>	Pass	03/04/2014	
MA_09	Test Cancel add customer	Authorized User	Click “Thêm khách hàng” button, then click “Close” icon	The Add customer pop-up is closed	Pass	03/04/2014	

#### 5.3.7.4. Edit Customer

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### **5.3.7.5. Delete Customer**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### **5.3.7.6. Search Customer**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

## **5.3.8. Manage Staff Group**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### **5.3.9. Manage Staff**

#### **5.3.9.1. List Staffs**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### **5.3.9.2. View Staff Detail**

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### **5.3.9.3. Add New Staff**

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Staff							
Steps 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	-Click [Thêm nhân viên] button	"Thêm nhân viên" Popup is displayed correctly Two button [Làm trống], [Tạo mới]	Pass	03/04/2014	

ST_02	Test Add new staff Blank Field	ST_01	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>-Click [Thêm mới] button</li> </ul>	<ul style="list-style-type: none"> <li>- Error message is displayed in current field (field with * label with red color) require input data.</li> </ul>	Pass	03/04/2014	
ST_03	Test Add new staff Add Successfully	ST_01	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>- Input all information in all field.</li> <li>-Click [Thêm mới] button</li> </ul>	<ul style="list-style-type: none"> <li>- Successful message is displayed. “Tạo nhân viên thành công!”</li> <li>New Staff is inserted and display in Staff View</li> </ul>	Pass	03/04/2014	
ST_04	Test Add new staff Clear data	ST_01	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>- Input all information in all field.</li> <li>-Click [Làm trống] button</li> </ul>	<ul style="list-style-type: none"> <li>- All field is reset to blank.</li> </ul>	Pass	03/04/2014	
ST_05	Test Add new staff Input username is exist in database	ST_01 Have use thuannh in databasse	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>- Input all information in all field.</li> <li>-Input “thuannh” in to “Tên đăng nhập” textbox</li> <li>-Click [Tạo mới] button</li> </ul>	<ul style="list-style-type: none"> <li>- Error message is displayed. “Tên đăng nhập nhân viên đã tồn tại!”</li> </ul>	Pass	03/04/2014	

ST_06	Test Add new staff Input regular expression in username	ST_01	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>- Input all information in all field.</li> <li>-Input “thuan!@#” in to “Tên đăng nhập” textbox</li> </ul>	<ul style="list-style-type: none"> <li>- Error message is displayed. “Tên đăng nhập không được chứa ký tự đặc biệt”</li> </ul>	Pass	03/04/2014	
ST_07	Test Add new staff Input regular expression in Email	ST_01	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>- Input all information in all field.</li> <li>-Input “thuaninfo” in to “Email” textbox</li> <li>- Click [Thêm mới] textbox</li> </ul>	<ul style="list-style-type: none"> <li>- Error message is displayed. “Hãy nhập địa chỉ email đúng”</li> </ul>	Pass	03/04/2014	
ST_08	Test Add new staff Input Character in numeric's fields	ST_01	<ul style="list-style-type: none"> <li>-Click [Thêm nhân viên] button</li> <li>- Input all information in all field.</li> <li>-Input “asdfg” in to “Điện thoại di động”, “Điện thoại nhà riêng”, “Số tài khoản”, “Mã số thuế” textbox</li> </ul>	<ul style="list-style-type: none"> <li>- Can not input character in this fields</li> </ul>	Pass	03/04/2014	

#### 5.3.9.4. Edit Staff

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.9.5. Deactivate/Activate Staff

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.9.6. Search Staff

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.9.7. Reset Password

ID	Test Case Description	Precondition s	Test Case Procedure	Expected Output	Result	Test Date	Note
Reset Password							
Steps							
1. Go to Manage Staff page 2. Choose one staff and click [Edit] button. 3. Click “Đặt lại mật khẩu” link							
ST_16	Test Reset Password screen	User have login with role supper administrator	-Click [Edit] button - Click [Đặt lại mật khẩu] link	Conrfirm Popup is displayed Two button [Bỏ qua], [Xác nhận]	Pass	03/04/2014	
ST_17	Test Reset Password Click [Bỏ qua] button	User have login with role supper administrator	-Click [Edit] button - Click [Đặt lại mật khẩu] link - Click [BỎ QUÁ] button	- Back to “Chi tiết nhân viên” Popup and password of staff is not reset to default.	Pass	03/04/2014	
ST_18	Test Reset Password Successfully	User have login with role supper administrator	-Click [Edit] button - Click [Đặt lại mật khẩu] link - Click [BỎ QUÁ] button	- Successful message is displayed. “Khôi phục mật khẩu thành công!” Password of staff is reset to default “123456”	Pass	03/04/2014	

### 5.3.10. Manage Service Type

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

## 5.3.11. Manage Service

### 5.3.11.1. List Services

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.11.2. View Service Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.11.3. 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	-Click [Thêm dịch vụ] button	“Thêm dịch vụ” Popup is displayed correctly Two button [Đóng], [Tạo mới]	Pass	03/04/2014	
MA_02	Test Add new Service screen Blank Field	Login with “admin” role	-Click [Thêm dịch vụ] button -Click [Thêm mới] button	- Error message is displayed in current field (field with * label with red color) require input data.	Pass	03/04/2014	
MA_03	Test Add new Service screen Add Successfully	Login with “admin” role	-Click [Thêm dịch vụ] button - Input all information in all field. -Click [Thêm mới] button	- Successful message is displayed. “Tạo dịch vụ thành công!” New Service is inserted and display in Service View	Pass	03/04/2014	

MA_04	Test Cancel add Service	Login with “admin” role	Click “Thêm dịch vụ” button, then click “Đóng” button	The Add service pop-up is closed	Pass	03/04/2014	
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#### 5.3.11.4. Edit Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.11.5. Delete Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.11.6. Search Service

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 5.3.12. Manage Office

#### 5.3.12.1. List Offices

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.12.2. View Office Detail

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.12.3. Add New Office

ID	Test Case Description	Pre-conditions	Test Case Procedure	Expected Output	Result	Test Date	Note
Add New Office							
Steps							
			1. User logged in system 2. Go to [Quản lý văn phòng] page 3. Click on [Thêm văn phòng] button 4. Input information and click [Tạo mới] button.				
OF_01	Test Add new office screen	User have login with role super administrator	-Click [Thêm văn phòng] button	“Thêm văn phòng” Popup is displayed correctly	Pass	03/04/2014	

				Two button [Làm trống], [Tạo mới]			
OF_02	Test Add new office Blank Field	OF_01	-Click [Thêm văn phòng] button -Click [Thêm mới] button	- Error message is displayed in current field (field with * label with red color) require input data.	Pass	03/04/2014	
OF_03	Test Add new office Add Successfully	OF_01	-Click [Thêm văn phòng] button - Input all information in all field. -Click [Thêm mới] button	- Successful message is displayed. “Thêm văn phòng thành công!”  New office is inserted and display in Office View	Pass	03/04/2014	
OF_04	Test Add new office Clear data	OF_01	-Click [Thêm văn phòng] button - Input all information in all field.  -Click [Làm trống] button	- All field is reset to blank.	Pass	03/04/2014	
OF_05	Test Add new staff Input regular expression in Email	OF_01	-Click [Thêm văn phòng] button - Input all information in all field.  -Input “thuaphaltlai” in to “Email” textbox  - Click [Thêm mới] textbox	- Error message is displayed. “Hãy nhập địa chỉ email đúng”	Pass	03/04/2014	

OF_06	Test Add new staff Input Character in numeric's fields	OF_01	-Click [Thêm văn phòng] button - Input all information in all field. -Input "asdfg" in to "Điện thoại di động", "Mã số thuế" textbox	- Can not input character in this fields	Pass	03/04/2014	
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#### 5.3.12.4. Edit Office

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.12.5. Deactivate/Activate Office

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

#### 5.3.12.6. Search Office

Reference to DVD: <root>/Documents/LFMS Project Document - Full Report.docx

### 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?	X		
2	Is the user required to fix entries which have failed validation tests?			X
3	Have any fields got multiple validation rules and if so are all rules being applied?	X		
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?	X		
5	Is validation consistently applied at screen level unless specifically required at field level?	X		

6	For all numeric fields check whether negative numbers can and should be able to be entered.		X	
7	For all numeric fields check the minimum and maximum values and also some mid-range values allowable?		X	
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?	X		
9	Do all mandatory fields require user input?	X		
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.)	X		

#### 5.4.2. Submission Checklist

#	Question	Yes	No	N/A
<b>TABLES AND FIGURES</b>				
1	Does a failure of validation on every field cause a sensible user error symbol?	X		
2	Is the user required to fix entries which have failed validation tests?			X
3	Have any fields got multiple validation rules and if so are all rules being applied?	X		
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?	X		
5	Is validation consistently applied at screen level unless specifically required at field level?	X		
6	For all numeric fields check whether negative numbers can and should be able to be entered.		X	

<b>7</b>	For all numeric fields check the minimum and maximum values and also some mid-range values allowable?		X	
<b>8</b>	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?	X		

## REFERENCES

<b>1</b>	Are references cited both in text and in the reference list?			X
<b>2</b>	Do the text citations and reference list entries agree both in spelling and in date?			X
<b>3</b>	Are journal titles in the reference list spelled out fully?		X	
<b>4</b>	Are the references (both in the parenthetical text citations and in the reference list) ordered alphabetically by the authors' surnames?		X	
<b>5</b>	Are inclusive page numbers for all articles or chapters in books provided in the reference list?		X	
<b>6</b>	Are references to studies included in your meta-analysis preceded by an asterisk?		X	

## FORMAT

<b>1</b>	Have you checked the journal's website for instructions to authors regarding specific formatting requirements for submission?		X	
<b>2</b>	Is the entire manuscript—including quotations, references, author note, content footnotes, and figure captions—double-spaced? Is the manuscript neatly prepared?		X	
<b>3</b>	Are the margins at least 1 in. (2.54 cm)?			X
<b>4</b>	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			X

	sequence, with the text pages between the abstract and the references?			
5	Are all pages numbered in sequence, starting with the title page?	X		
<b>PARAGRAPHS AND HEADINGS</b>				
1	Is each paragraph longer than a single sentence but not longer than one manuscript page?			X
2	Do the levels of headings accurately reflect the organization of the paper?	X		
3	Do all headings of the same level appear in the same format?	X		

# Report No.6: System User's Manual

## 6.1. Installation Guide

### 6.1.1. Hosting and Domain

In this guide, we use free hosting Somee.com

### 6.1.2. Upload Project

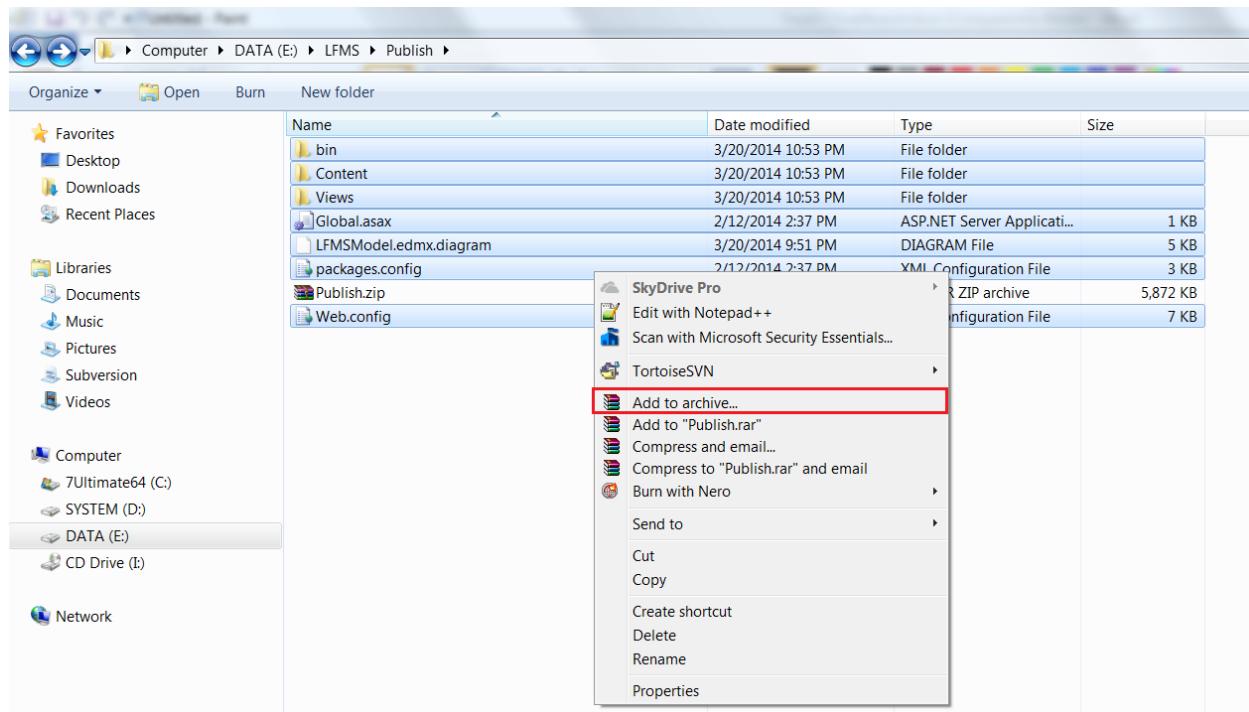


Figure 104 - Step 1: Archive website to Publish.zip

The screenshot shows the Somee.com File manager interface. On the left, there's a sidebar with a 'User menu' containing links like User, Support tickets, Checkout, Account, Managed products, Virtual servers, Websites, Applications, and a 'File manager' link which is highlighted by a red box. The main area shows a file list for the site 'lfms.somee.com'. The 'File manager' section has several 'Browse...' buttons, an 'Overwrite existing files' checkbox, and 'Upload files' and 'Upload and Unzip archives' buttons, all of which are highlighted by red boxes. The file list table includes columns for 'File name', 'Size', and 'Last modified'. The table lists files such as bin, Content, Views, Global.asax, LFMSModel.edmx.diagram, packages.config, and Web.config.

Figure 105 - Step 2: Upload Publish.zip to server

### 6.1.3. Upload Database

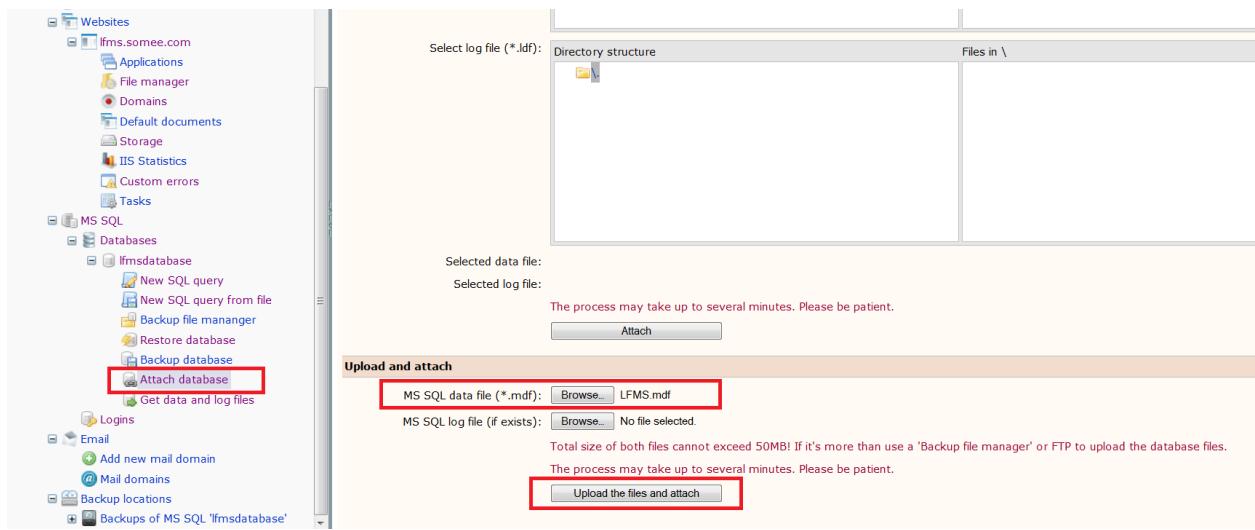


Figure 106 - Step 3: Upload database to server

### 6.1.4. Config Web.config

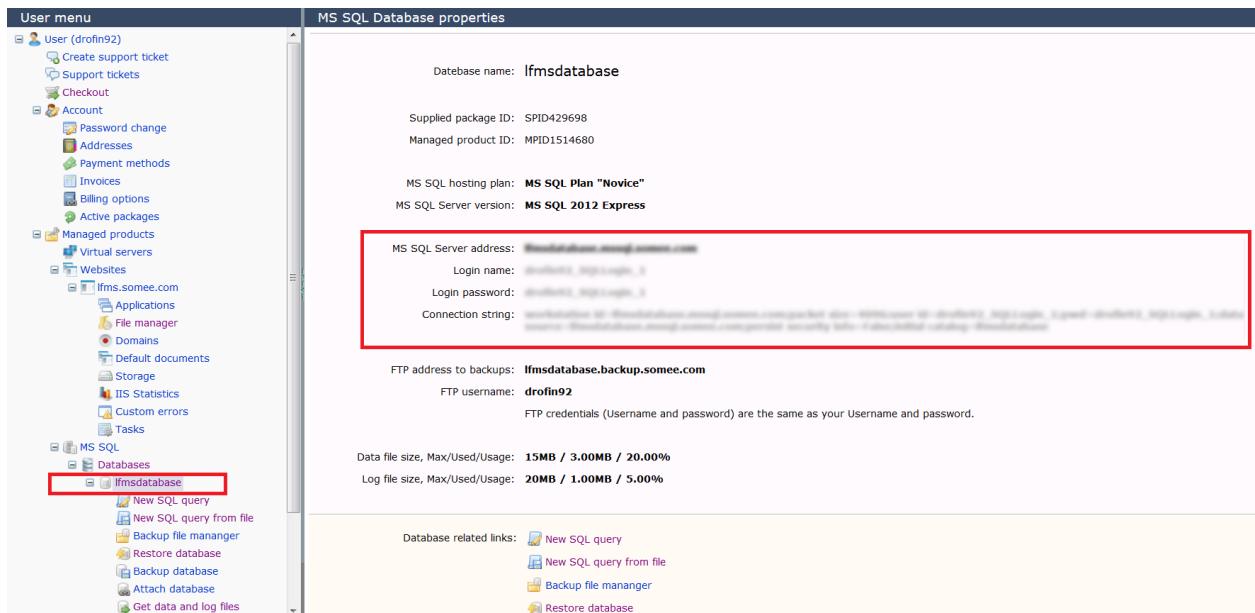


Figure 107 - Step 4: Get information of database in server

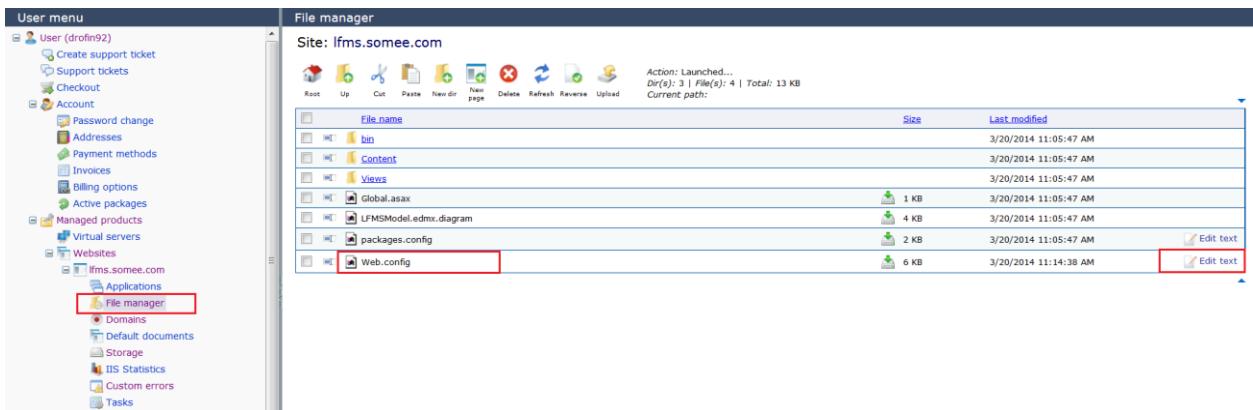


Figure 108 - Step 5: Edit Web.config in server

### 6.1.5. Config Domain

Domain name	Name servers	Website IP address
lfms.somee.com(Default)	ns.somee.com; ns1.somee.com;	204.27.57.77

Important! We do not sell domains! All domains must be purchased separately from domain name registrars such as 'Network Solutions' or others. We support all domain types, including international.

Considering that you've already purchased a domain name, pointing the domain name to your site is a two step process:

1. You add your domain name here. You need to type in full domain name without 'www' prefix. This will add a record to our DNS servers and create bindings in IIS for your website.
2. You need to go to your domain name registrar and specify our name servers for the domain. Take Name servers from the list above.

After that you'll need to wait up to 48 hours before your website will be available under the new domain name.

Figure 109 - Step 6: Add domain name to host

## 6.2. User's Guide

### 6.2.1. How to create a Calendar Event

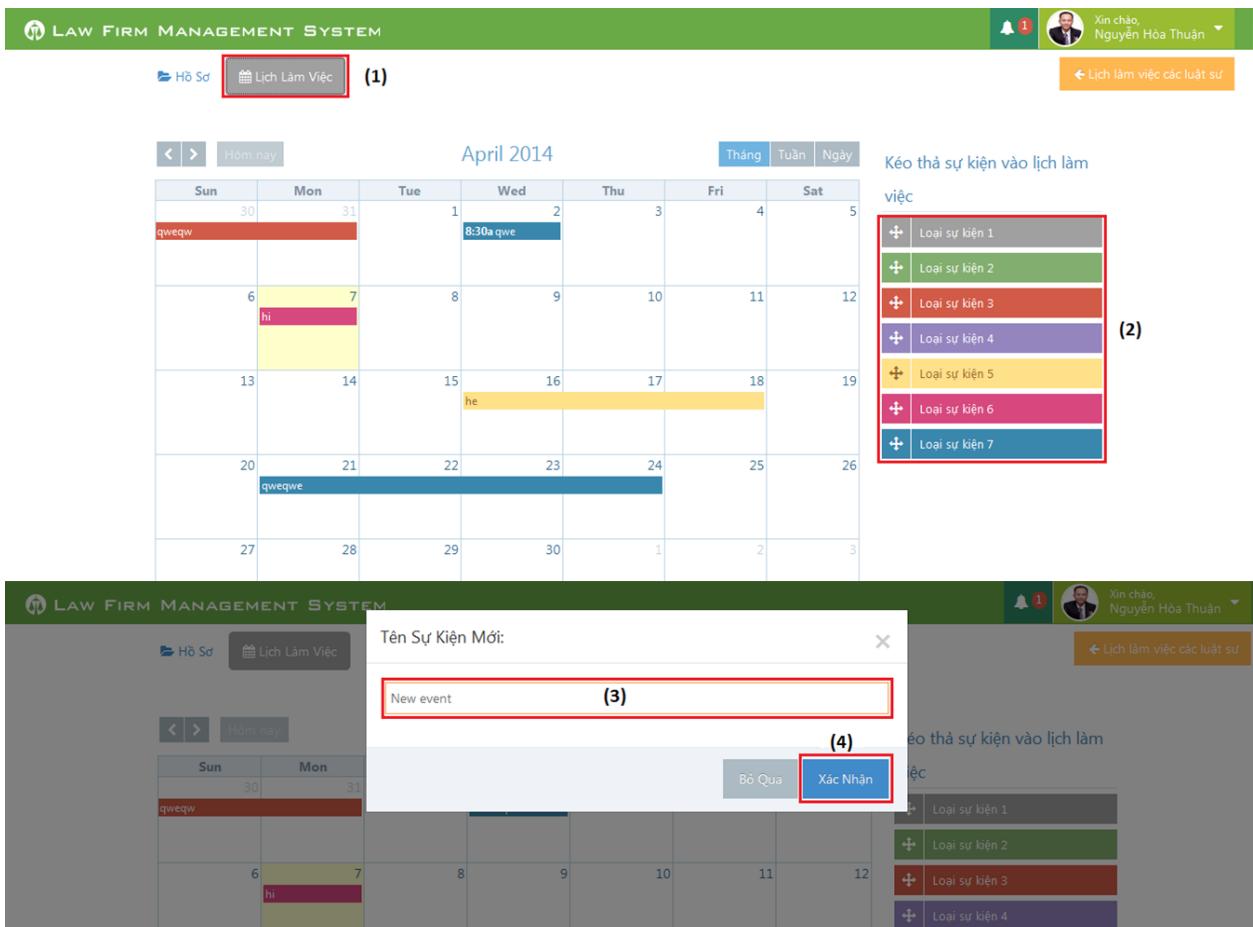


Figure 110: How to create a Calendar Event

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 create an Operation Event

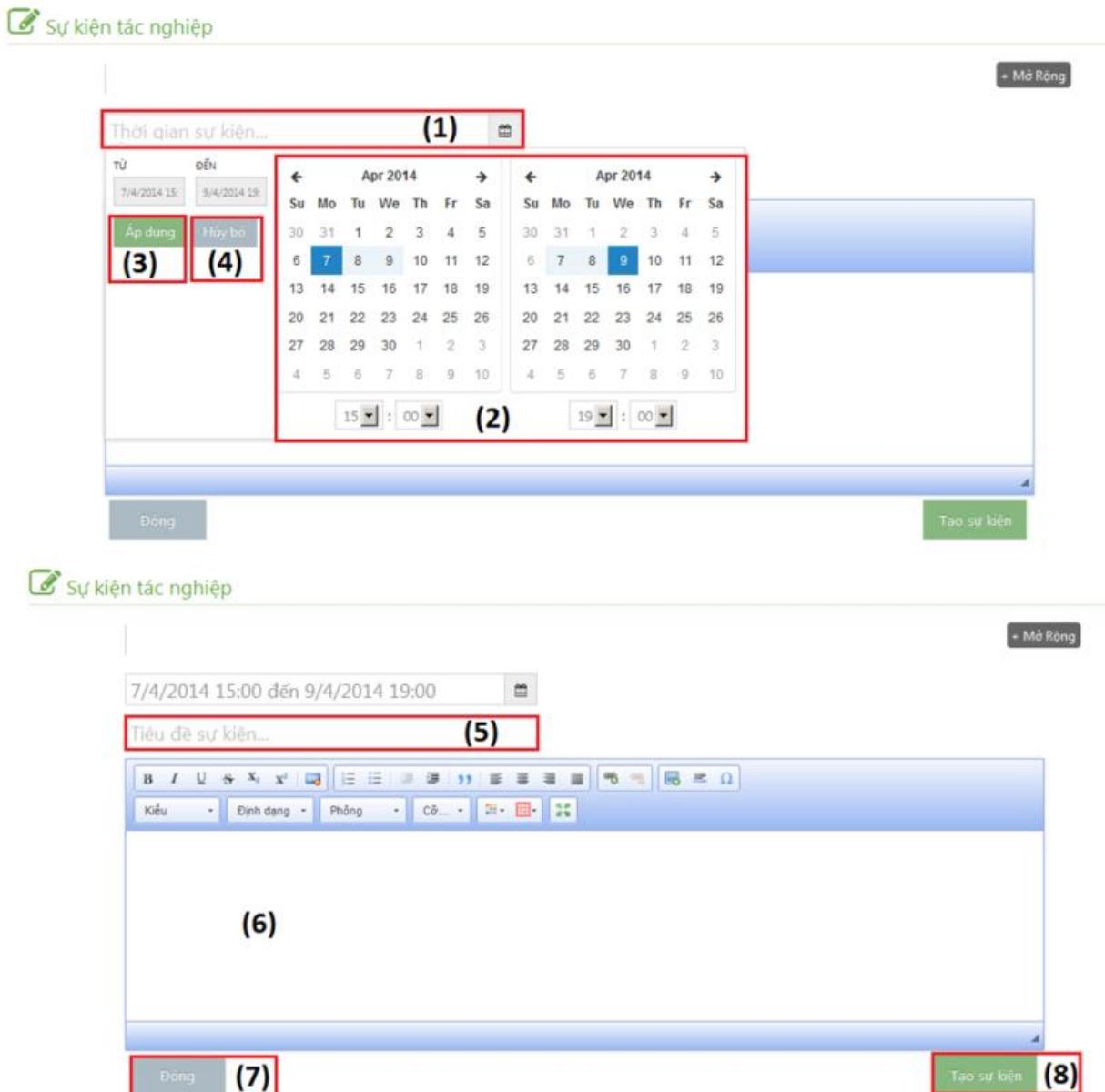


Figure 111: How to create an Operation Event

Step	Description
1	Click to text box to add time start and finish of event
2	Choose date and time of event
3	Click [Áp dụng] button to input data on “Thời gian sự kiện”
4	Click [Hủy bỏ] button to cancel input

<b>5</b>	Input title of event
<b>6</b>	Input content of event include: text, image....
<b>7</b>	Click [Đóng] button to close Popup and back to [List event] screen
<b>8</b>	Click [Tạo sự kiện] to insert new operation event

### 6.2.3. How to upload photos to Documents Related

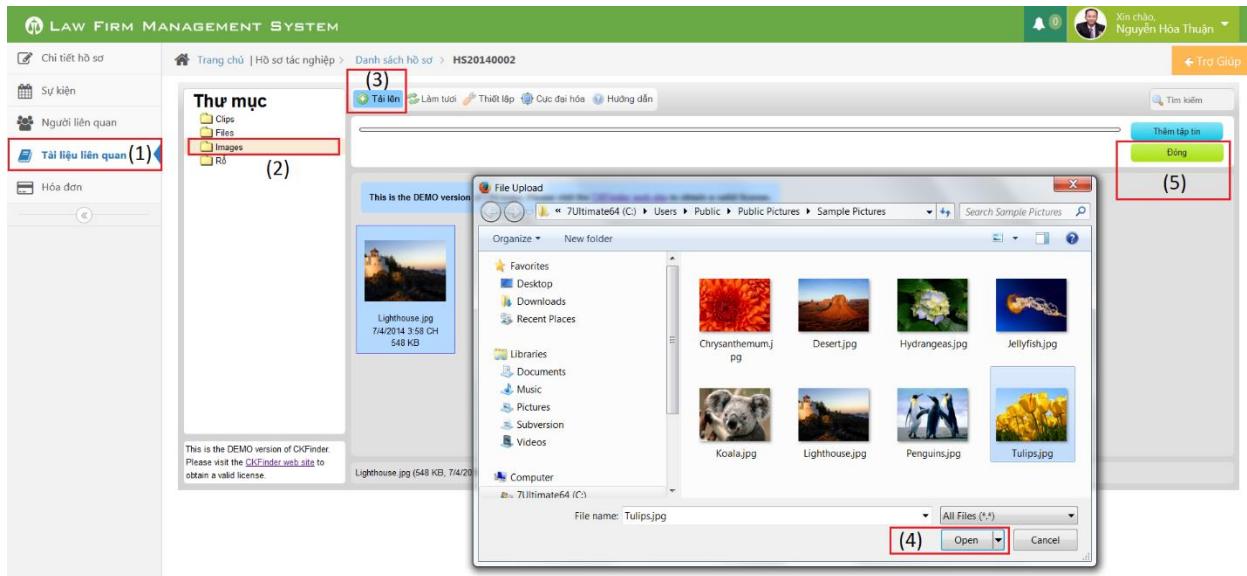


Figure 112: How to upload photos to Documents Related

Step	Description
<b>1</b>	Go to case detail page and then click on “Tài liệu liên quan” link
<b>2</b>	Click on “Images” button (can upload only image file format)
<b>3</b>	Click on “Tải lên” button to show a popup
<b>4</b>	Choose one or many photos and then click “Open” button
<b>5</b>	Click on “Đóng” button to complete upload

### 6.2.4. How to search in Thư Viện Pháp Luật

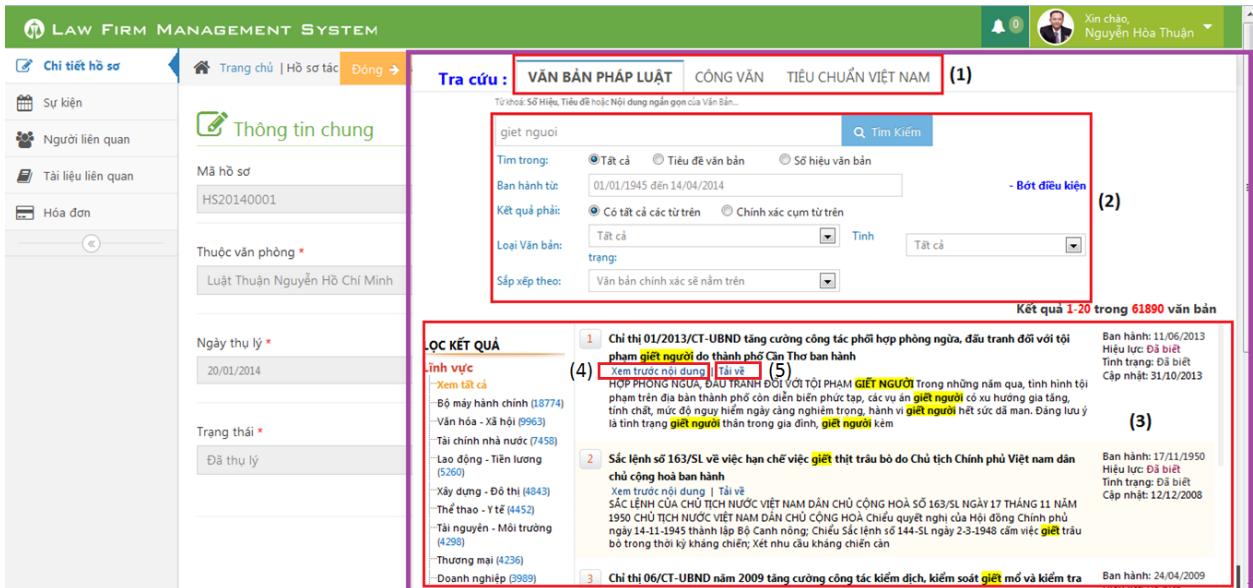


Figure 113: How to search in Thư Viện Pháp Luật

Step	Description
1	Open “Trợ giúp” pop-up and choose the Document type that you want to search.
2	Input the conditional to search the document.
3	After press “Tìm kiếm” button, the result will be showed.
4	Each result, user can pre-view by click at “Xem trước nội dung” link.
5	User can also download the document by click at “Tải về” link.