USEFUL JAPANESE DICTIONARY FOR VIETNAMESE

SOFTWARE REQUIREMENT SPECIFICATION

Project Code: UJD_VN

Document Code: UJD_VN_ Software requirement specification_v1.2_EN

- Hanoi, 06/2014 -

RECORD OF CHANGE

*A - Added M - Modified D - Deleted

Effective Date	Changed Items	A* M, D	Change Description	New Version
30/06/2014	Change 1.6 functional specification	M	Update functionality follow comments of supervisor.	v1.0
05/08/2014	Change 1.5 Entity Relation Model	M	Update model	v1.1
11/08/2014	Change 1.6 Functional Specification	M	Update screen	v1.2

Signature page

Riginator	Nguyễn Ngọc Tuấn	23/06/2014
	Team member	
Reviewer	Nguyễn Ngọc Tuấn	11/08/2014
	Team member	
Approval	Nguyễn Văn Sang	11/08/2014
	Supervisor	

Table of Contents

1.1 Introduction

1.1.1 Purposes

This document is created as the introduction for project Useful Japanese Dictionary for Vietnamese – our Capstone Project at FPT University. In this document, we will descript the overview of function list, use case of our software, a brief description about function's screen. This document help user understand more about our system

1.1.2 Definition and Acronyms

This section describes the definitions, terms, and acronyms that are used in software requirements specification.

Items	Description
UJD_VN	Useful Japanese dictionary for Vietnamese

Table 3-1: Definition and Acronyms

1.2 System Purpose

That system is developed to help user easily find out information about Japanese (grammar, vocabulary, etc...) and training skill, doing test.

1.3 Scope

The scope of this project contains Requirement Analysis, Design, Coding and Testing (Unit Test, Integration Test, and System Test).

1.4 Overall Description

1.4.1 System overview

Nowadays, there are many dictionaries which support Japanese. That can be a website or mobile application. All of them have been created for the purpose of helping users search vocabulary or studying Japanese more easily. However, we found some disadvantages which existing in website, which support users studying Japanese. So, our project – UJD_VN will include some main functions of existing dictionary website and add some special features such as showing examples by Vietnamese, supporting searching specialized vocabulary or users can contribute idea, good knowledge to make our database become larger. Moreover, we will provide freely website to users. Here, we toward provide website for Vietnamese who want to studying Japanese communication or who want to join Japanese certification exams.

UJD_VN Guest/Member Module

Common Module

Account Management Module

Contact Admin Module

Practice Management

Member

Guest

UJD_VN Admin Module

Admin's account management

Management Member's account

Vocabulary Management

Grammar Management

Reading Document Management

Conversation management

Video Management

Listening Article Management

Doing test management

Contributed content management

Contributed opinion management

Q&A management

Admin

1.4.2   Product Features

Use Case No.	Group of functions	Functions	Glossary
UJD_VN GUEST/MEMBER MODULE			
Common Module			
UC001	Search	Search sentences	Tìm kiếm các mẫu câu ví dụ
UC002		Search conversation	Tìm kiếm các đoạn hội thoại
UC003		Search grammar	Tìm kiếm ngữ pháp
UC004		Search video	Tìm kiếm Video tiếng Nhật
UC005		Search specialized Japanese	Tìm kiếm Tiếng Nhật chuyền ngành
Account Management Module			
UC006	Login	Login by Facebook account	Đăng nhập bằng tài khoản Facebook
		Login by Google account	Đăng nhập bằng tài khoản Google
		Login by registered account	Đăng nhập bằng tài khoản tự đăng kí
UC007		Logout	Đăng xuất
UC008		Register	Đăng kí tài khoản cho khách để sử dụng nhiều chức năng hơn của website
UC009		Edit Profile	Chỉnh sửa thông tin cá nhân
UC0010		Forgot Password	Quên mật khẩu
Contact Admin Module			
UC0011		Contribute content	Đóng góp database hữu ích cho website

UC0012	Contact Admin	Contribute opinion	Đóng góp ý kiến để phát triển trang web
UC0013		Send Q & A	Gửi câu hỏi thắc mắc trong quá trình sử dụng Website
Practice Management			
UC0014	Doing Test	Test	Làm bài kiểm tra trắc nghiệm
		Tracking mark	Theo dõi quá trình học tập
UC0015		Training Listening	Luyện Nghe trình độ N2,N3,N4
UC0016		Listening conversation	Nghe hội thoại
UC0017		Reading Document	Đọc tài liệu
UJD_VN ADMIN MODULE			
UC0018	Admin's account management	Add new admin	Thêm mới admin
UC0019		Edit profile	Chỉnh sửa thông tin admin
UC0020		Delete admin	Xóa thông tin admin
UC0021	Management Member's account	Search member	Tìm kiếm thành viên
UC0022		Ban/Unban Member's account	Khóa/Mở khóa tài khoản thành viên
UC0023		Delete member	Xóa thành viên
UC0024	Vocabulary Management	Search vocabulary	Tìm kiếm từ vựng
UC0025		Add vocabulary	Thêm mới từ vựng
UC0026		Edit vocabulary	Chỉnh sửa thông tin từ vựng
UC0027		Delete vocabulary	Xóa từ vựng
UC0028	Grammar Management	Search grammar	Tìm kiếm ngữ pháp
UC0029		Add Grammar	Thêm ngữ pháp mới
UC0030		Edit grammar	Chỉnh sửa ngữ pháp
UC0031		Delete Grammar	Xóa ngứ pháp

UC0032	Reading Document Management	Search reading document	Tìm kiếm các bài đọc
UC0033		Add reading document	Thêm mới các bài đọc
UC0034		Edit reading document	Chỉnh sửa thông tin các bài đọc
UC0035		Delete reading document	Xóa các bài đọc
UC0036	Conversation management	Search conversation	Tìm kiếm các bài hội thoại
UC0037		Add conversation	Thêm mới bài hội thoại
UC0038		Edit conversation	Chỉnh sửa bài hội thoại
UC0039		Delete conversation	Xóa bài hội thoại
UC0040	Video Management	Search Video	Tìm kiếm Video bằng tiêu đề
UC0041		Add Video	Thêm mới video
UC0042		Edit Video	Chỉnh sửa nội dung liên quan đến video như tiêu đề.
UC0043		Delete Video	Xóa video
UC0044	Listening Article Management	Search listening article	Tìm kiếm các bài nghe
UC0045		Add listening article	Thêm mới các bài nghe
UC0046		Edit listening article	Chỉnh sửa các bài nghe
UC0047		Delete listening article	Xóa các bài nghe
UC0048	Doing test management	Search test	Tìm kiếm bài kiểm tra
UC0049		Add test	Thêm mới bài kiểm tra
UC0050		Edit test	Chỉnh sửa bài kiểm tra
UC0051		Delete test	Xóa bài kiểm tra
Contact's Content Management			
UC0052	Contributed content management	Search contribute content	Tìm kiếm nội dung đóng góp
		Approve content	Chấp nhận ý kiến đóng góp
		Reply user	Trả lời người dùng

		Delete content	Xóa nội dung đóng góp
UC0053	Contributed opinion management	Search contribute opinion	Tìm kiếm ý kiến đóng góp
		Reply user	Phản hồi lại ý kiến người dùng
		Delete opinion	Xóa ý kiến đóng góp
UC0054	Q & A Management	Search Q & A	Tìm kiếm Q & A
		Reply Q & A	Trả lời Q & A
		Delete Q & A	Xóa Q & A

1.4.3   User Characteristics

This website developed towards those who have achieved elementary level Japanese and want to improve intermediate level. The website requires users to have the ability to use a browser with an internet connection. Use can easy use the functions in website, but if they want to use all function, they must be login.

1.4.4   User Documentation

List of document when delivering this application is in the table below:

Name	Description
User Manual	Provide detailed explanation about the system, screens and guide users how to use all features of UJD_VN website.

1.4.5   Assumption

- Receive the guidance and good support of teacher.

- No one of member got sick in the software development process.

- In the development process, no device got fail.

- Every report meets the deadline.

- Team member do not conflict in the work process.

1.5   Entity Relation Model

1.5.1   Entity-Relationship Diagram
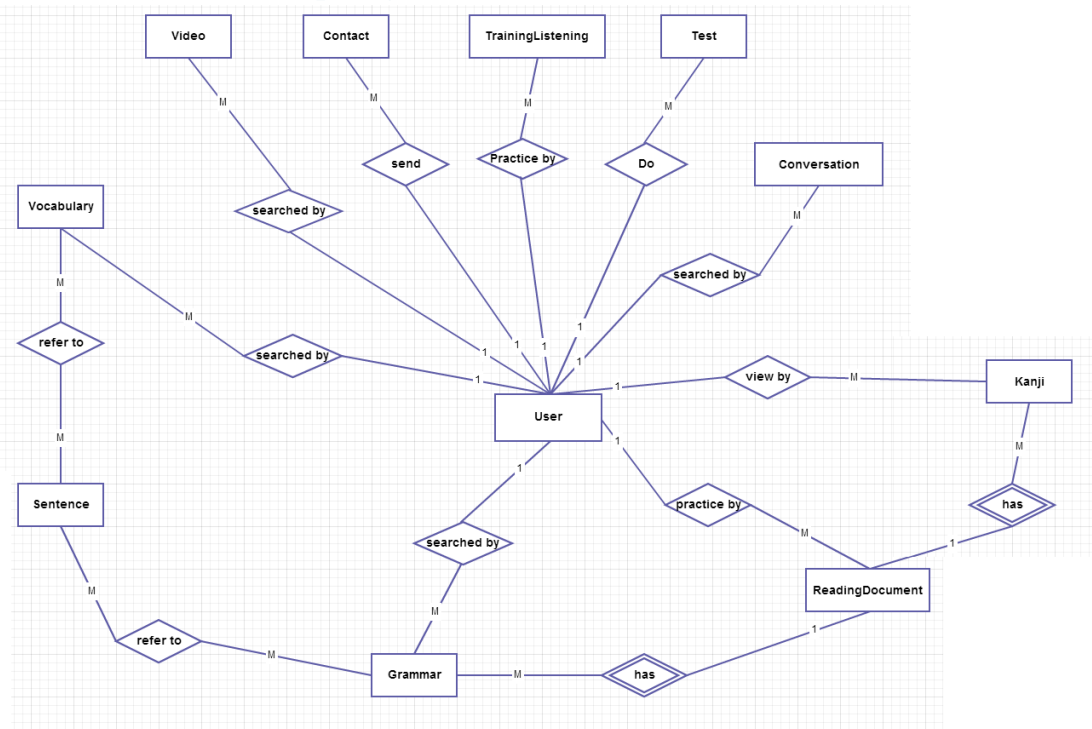
1.5.2   Entity Detail

1.5.2.1   Vocabulary

No	Field Name	Type	Mandatory	Description
1	id	Number	Y	Vocabulary's id
2	Hiragana	String	Y	Vocabulary's hiragana
3	Romaji	String	Y	Vocabulary's romaji
4	Meaning	String	Y	Vocabulary's meaning
5	Category	String	Y	Vocabulary's category
6	Kanji	String		Vocabulary's kanji
7	Specialized	String		Vocabulary's specialized
8	Status	Number	Y	Vocabulary's status

1.5.2.2   Sentence

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Sentence's id
2	Hiragana	String	Y	Sentence's hiragana
3	Romaji	String	Y	Sentence's romaji
4	Meaning	String	Y	Sentence's meaning
5	Kanji	String	Y	Sentence's kanji

1.5.2.3   Grammar

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Grammar's id
2	Hiragana	String	Y	Grammar's hiragana
3	Romaji	String	Y	Grammar's romaji
4	Level	String	Y	Grammar's level
5	Meaning	String	Y	Grammar's meaning
6	Use	String	Y	Grammar's use
7	Lesson	String		Grammar's lesson
8	Status	Number	Y	Grammar's status

1.5.2.4   Video

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Video's id
2	Title	String	Y	Video's title
3	Link	String	Y	Video's link

1.5.2.5　Kanji

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Kanji's id
2	Kanji	String	Y	Kanji in Japanese
3	Hanviet	String	Y	Kanji's Vietnamese-Han
4	Onyomi	String	Y	Kanji's onyomi
5	Kunyomi	String		Kanji's kunyomi
6	Meaning	String	Y	Kanji's meaning
7	Level	String	Y	Kanji's level
8	Lesson	String		Kanji's lesson
9	Status	Number	Y	Kanji's status

1.5.2.6　Conversation

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Conversation's id
2	Titel	String	Y	Conversation's level
3	Level	String	Y	Conversation's title
4	Content	String	Y	Conversation's content
5	Audio	String	Y	Conversation's audio
6	Image	String		Conversation's image

1.5.2.7 User

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	User's id
2	Username	String	Y	Username login
3	Password	String	Y	Store password login of user. Using md5 algorithm.
4	Role	Number	Y	Admin can assign permission for user
5	Full name	String		User's name display
6	Email	String	Y	User's email
7	Register date	Date	Y	Date register
8	Status	Number	Y	Active or deactive

1.5.2.8 Test

No	Field Name	Type	Default	Description
1	ID	Number	Y	Test's id
2	Title	String	Y	Test's category
3	Level	String	Y	Test's level
4	Category	String	Y	Test's category
5	Content	String		Test's content
6	Question	String	Y	Test's question
7	Answer	String	Y	Question's answer

1.5.2.9 Contact

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Contact's id
2	Email	String	Y	Contact's email
3	Content	String	Y	Contact's content
4	Type	String	Y	Contact's type
5	Reply	String		Contact's reply
6	Status	Number	Y	Contact's status

1.5.2.10 Training Listening

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Listening's id
2	Title	String	Y	Listening's title
3	Level	String	Y	Listening's level
4	File	String	Y	Listening's file
5	Question	String	Y	Listening's question
6	Script	String	Y	Listening's script
7	Meaning	String	Y	Listening's meaning
8	Answer	String	Y	Listening's answer

1.5.2.11 Reading document

No	Field Name	Type	Mandatory	Description
1	ID	Number	Y	Reading's id
2	Title	String	Y	Reading's title
3	Level	String	Y	Reading's level
4	Vocabulary	String	Y	Reading's vocabulary
5	Grammar	String	Y	Reading's grammar
6	Kanji	String	Y	Reading's kanji
7	Article	String	Y	Reading's article

1.6 Functional Specification

1.6.1 Common Module

1.6.1.1 Use Case Diagram
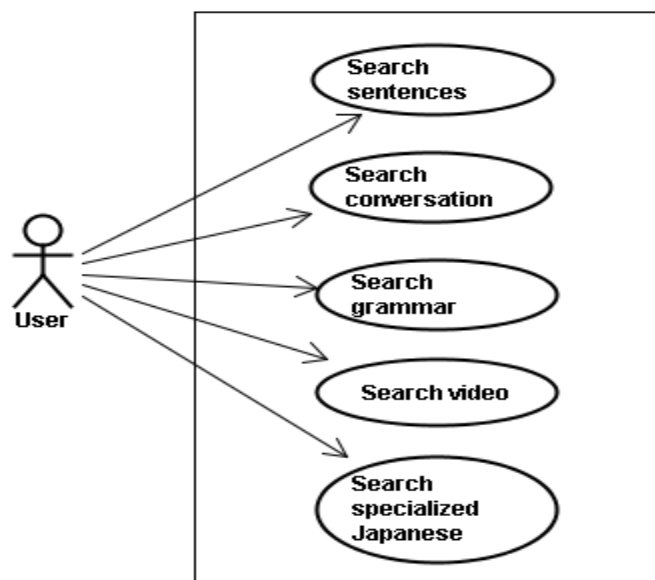
1.6.1.2 Screen description
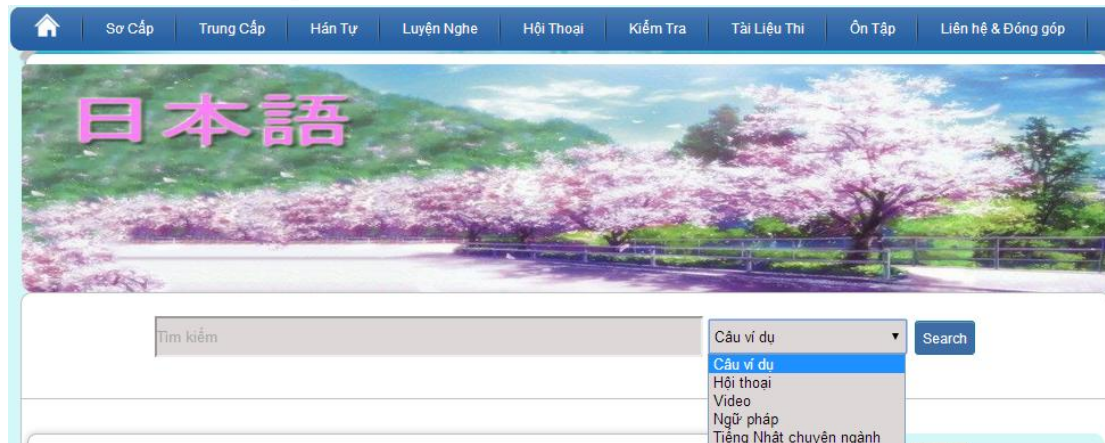
Figure 1: Search

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Length	Description
1	Searcharea	Tìm kiếm	Text	Text	Y	255	User input a new word with length less than 255 characters
2	SearchOption	Kiểu tìm kiếm	Drop-down list	Click	Y		User choose type of search
2	Search	Search	Button	Click	Y		User click on search button

Table 1: Search's screen description

1.6.1.3 Use Case Specification

1.6.1.3.1 UC001: Search sentences

UC001 – Search sentences			
Use-case No.	<UC001>	**Use-case Version**	<1.0>
Use-case Name	Search sentences		

Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Guest, Member, Administrator

Summary:

      When Guest, Member, Administrator want to search by sentences in database successfully if it is existed

Triggers

      Click on search area , input sentences in the text area, choose type of search and then click "Search" button

Preconditions:

- Website is available

- User have to input data in search area

Post Conditions:

      Display detail information of sentences

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Home page screen
2	Input data in search area and choose "Câu ví dụ" type then click button Search	Display "sentences information" screen that contains the information of chosen sentences with these elements: - Serial number - Name of sentences by hiragana - Name of sentences by romaji - Meaning of sentences

Alternative Scenario:

At Step	User	System
2	Input data in search area and choose "Câu ví dụ" type then click on another link	Switch to selected page

Exceptions:

At Step	User	System
2	Fill data that they want to find (that do not exist in database) into these fields then click "Search" button	Return Error message to in orm that sentences cannot be found

1.6.1.3.2   UC002: Search conversation

UC002 – Search conversation			
Use-case No.	<UC002>	**Use-case Version**	<1.0>
Use-case Name	Search conversation		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

Guest, Member, Administrator

Summary:

When Guest, Member, Administrator want to search by conversation in database successfully if it is existed

Triggers

Click on search area , input conversation in the text area, choose type of search and then click "Search" button

Preconditions:

- Website is available

- User have to input data in search area

Post Conditions:

Display detail information of conversation

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Home page screen
2	Input data in search area and choose "Hội thoại" type then click button Search	Display "conversation information" screen that contains the information of chosen conversation with these elements: - Serial number - Name of conversation by hiragana - Name of conversation by romaji - Meaning of conversation

Alternative Scenario:

At Step	User	System
2	Input data in search area and choose "Hội thoại" type then click on another link	Switch to selected page

Exceptions:

At Step	User	System
2	Fill data that they want to find (that do not exist in database) into these fields then click "Search" button	Return Error message to inform that conversation cannot be found

1.6.1.3.3 UC003: Search grammar

UC003 – Search grammar			
Use-case No.	<UC003>	**Use-case Version**	<1.0>
Use-case Name	Search grammar		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

Guest, Member, Administrator

Summary:

When Guest, Member, Administrator want to search by grammar in database successfully if it is existed

Triggers

Click on search area , input grammar in the text area, choose type of search and then click "Search" button

Preconditions:

- Website is available

- User have to input data in search area

Post Conditions:

Display detail information of grammar

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Home page screen
2	Input data in search area and choose "Ngữ pháp" type then click button Search	Display "grammar information" screen that contains the information of chosen grammar with these elements: - Serial number - Name of grammar by hiragana - Name of grammar by romaji - Meaning of grammar

Alternative Scenario:

At Step	User	System
2	Input data in search area and choose "Ngữ pháp" type then click on another link	Switch to selected page

Exceptions:

At Step	User	System
2	Fill data that they want to find (that do not exist in database) into these fields then click "Search" button	Return Error message to inform that grammar cannot be found

1.6.1.3.4 UC004: Search video

UC004 – Search video			
Use-case No.	<UC004>	**Use-case Version**	<1.0>
Use-case Name	Search video		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

　　Guest, Member, Administrator

Summary:

　　When Guest, Member, Administrator want to search by video in database successfully if it is existed

Triggers

　　Click on search area , input video in the text area, choose type of search and then click "Search" button

Preconditions:

- Website is available

- User have to input data in search area

Post Conditions:

Display detail information of video

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Home page screen
2	Input data in search area and choose "Video" type then click button Search	Display "video information" screen that contains the information of chosen video with these elements: - Serial number - Name of video by hiragana - Name of video by romaji - Meaning of video

Alternative Scenario:

At Step	User	System
2	Input data in search area and choose "Video" type then click on another link	Switch to selected page

Exceptions:

At Step	User	System
2	Fill data that they want to find (that do not exist in database) into these fields then click "Search" button	Return Error message to inform that video cannot be found

1.6.1.3.5 UC005: Search specialized Japanese

UC005 – Search specialized Japanese			
Use-case No.	<UC005>	**Use-case Version**	<1.0>
Use-case Name	Search specialized Japanese		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

Guest, Member, Administrator

Summary:

When Guest, Member, Administrator want to search by specialized Japanese in database successfully if it is existed

Triggers

Click on search area , input specialized Japanese in the text area, choose type of search and then click "Search" button

Preconditions:

- Website is available

- User have to input data in search area

Post Conditions:

Display detail information of video

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Home page screen
2	Input data in search area and choose "Tiếng Nhật chuyên ngành" type then click button Search	Display "specialized Japanese information" screen that contains the information of chosen specialized Japanese with these elements:

		- Serial number - Name of specialized Japanese by hiragana - Name of specialized Japanese by romaji - Meaning of specialized Japanese

Alternative Scenario:

At Step	User	System
2	Input data in search area and choose "Tiếng Nhật chuyên ngành" type then click on another link	Switch to selected page

Exceptions:

At Step	User	System
2	Fill data that they want to find (that do not exist in database) into these fields then c ick "Search" button	Return Error message to inform that specialized Japanese cannot be found

1.6.2   Account management Module

1.6.2.1   Use Case Diagram
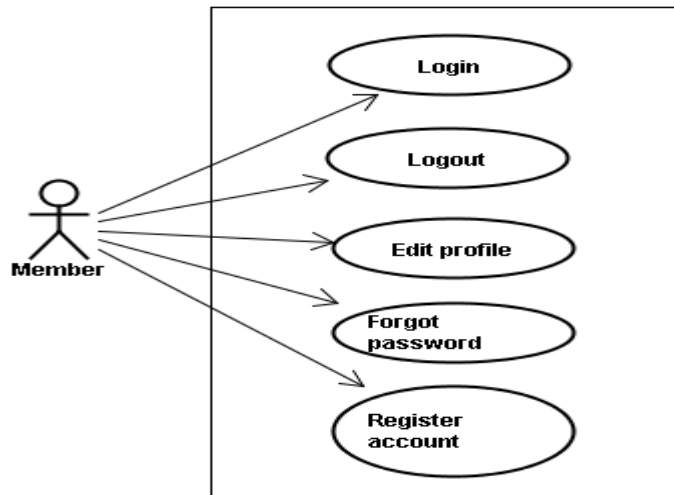
1.6.2.2   Use Case Specification

1.6.2.2.1   UC006: Login

Figure 2.1: Login

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Username	Tên đăng nhập	Text	Text	Y	32	User input username with length less than 32 character
2	Password	Mật khẩu	Password	Text	Y	32	User input their password with length less than 32 characters
3	Login	Đăng nhập	Button	Click	Y		User click on Login button

Table 2.1: Login's screen description

UC006 – Login			
Use-case No.	<UC006>	**Use-case Version**	<1.0>
Use-case Name	Login		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Member, Administrator

Summary:

      When Member, Administrator want to login by Facebook/Register account to use more functions in website

Triggers

      User choose the login method, input data and click on login button

Preconditions:

-   Website is available

-   Account Facebook/Register must be exist and correctly

Post Conditions:

    Login successfully and redirect user to previous page.

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Choose login method (login by Facebook/register account), input account and password and then	Validate information and log user into system.

	click "Đăng nhập" button	

Alternative Scenario:

At Step	User	System
2	Input data in username and password area then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Fill incorrect or missing information "Tên đăng nhập"/ "Mật khẩu" field	Return Error message beside "Tên đăng nhập"/ "Mật khẩu" field.

1.6.2.2.2   UC007: Logout

JS CAPSTONE PROJECT   tuannguyen | Thoát

Figure 2.2: Logout

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Logout	Button	Click	Y		User click on Logout button

Table 2.2: Logout's screen description

UC007 – Logout			
Use-case No.	<UC007>	**Use-case Version**	<1.0>
Use-case Name	Logout		

Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Member, Admin

Summary:

      When Member, Admin want to logout their account

Triggers

      Click on logout button

Preconditions:

    -   Website is available

    -   Member, Admin must be login

Post Conditions:

      Redirect user to previous page.

Main Success Scenario:

Step	User	System
1	Click on logout button	Redirect to homepage

1.6.2.2.3 UC008: Register account
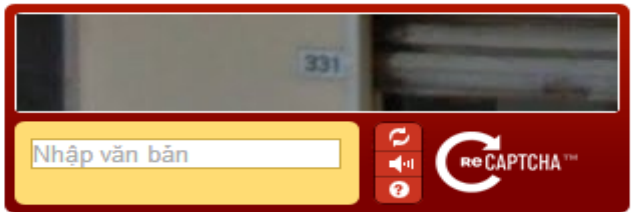
Figure 2.3: Register

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Username	Tên đăng nhập	Text	Text	Y	32	User input username with length less than 32 characters
2	Password	Mật khẩu	Password	Text	Y	32	User input their password with length less than 32

						characters
3	Re-password	Nhập lại mật khẩu	Password	Text	Y	32	User re-input password with length less than 32 characters
4	Name	Họ và tên	Text	Text	Y	50	User input their name with length less than 50 characters
5	Email	Email	Text	Text	Y	100	User input email with length less than 32 characters
6	Capcha	Mã xác nhận	Text	Text	Y	100	User input the verification code
7	Register	Đăng ký	Button	Click	Y		User click Register button

Table 2.3: Register's screen description

UC008 – Register account				
Use-case No.	<UC008>	**Use-case Version**	<1.0>	
Use-case Name	Register			
Author	Tuan NN			
Date	09/06/2014	**Priority**	<High >	
Actor: Guest				

Summary:

Visitor can create new account to use more function as a register user

Triggers

Click on register link on the website

Preconditions:

- Website is available

Post Conditions:

Create account for guest

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Click on register link	Display register form
3	Enter necessary and mandatory information and click "Đăng kí" button.	Display message to register successfully and redirect to homepage

Alternative Scenario:

At Step	User	System
3	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:

At Step	User	System
3	Missing "Tên đăng nhập" field and click "Đăng kí" button	Display error message beside "Tên đăng nhập" field.

	3	Enter incorrect information or missing "Mật khẩu" field and click "Đăng kí" button	Display error message beside "Mật khẩu" field.
	3	Missing "Họ và tên" field and click "Đăng kí" button	Display error message beside "Họ và tên" field.
	3	Missing "Email" field and click "Đăng kí" button	Display error message eside "Email" field.
	3	Enter incorrect information or missing "Mã xác nhận" field and click "Đăng kí" button	Display error message beside "Mã xác nhận" field.

1.6.2.2.4   UC009: Edit profile

Thay đổi thông tin

Tên đăng nhập:	datpham
Mật khẩu mới:	
Nhập lại mật khẩu mới:	
Họ và tên	Phạm Tiến Đạt
Email:	datptse02336@fpt.edu.vn (*)

Update

Figure 2.4: Edit profile

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Name	Họ và tên	Text	Text	Y	32	User input their name with

							length less than 32 characters
2	Old-Password	Mật khẩu cũ	Password	Text	Y	32	User input their old password with length less than 32 characters
3	New-password	Mật khẩu mới	Password	Text	Y	32	User input new password with length less than 32 characters
4	Re-password	Nhập lại mật khẩu mới	Password	Text	Y	32	User re-input password with length less than 32 characters
5	Email	Email	Text	Text	Y	100	User input email to with length less than 100 characters
6	Edit	Thay đổi thông tin	Button	Click	Y		User click on Edit button

Table 2.4: Edit profile's screen description

UC009 – Edit profile			
Use-case No.	<UC009>	**Use-case Version**	<1.0>
Use-case Name	Edit profile		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Member

Summary:

      When member want to change their profile

Triggers

      Login the website and click on the edit profile link

Preconditions:

- Website is available

- Member login the website

Post Conditions:

      Edit profile successful and redirect user to edited profile page

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged user into system.
3	Click on "Trang cá nhân" link.	Display "Trang cá nhân" page
4	User changes profile and click "Lưu" button	Update new profile

Alternative Scenario:

| t Step	User	System
4	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:

At Step	User	System
4	Enter new password that incorrect form or missing information and click "Luu" button	Display error message
4	Enter new email that incorrect form or missing information and click "Luu" button	Display error message

1.6.2.2.5 UC010: Forgot password

Figure 2.5: Forgot password

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Email	Email	Text	Text	Y	32	User input email with length less than 100 characters
2	Send	Đồng ý	Button	Click	Y		Click to receive password

Table 2.5: Forgot password's screen description

UC010 – Forgot password			
Use-case No.	<UC010>	**Use-case Version**	<1.0>
Use-case Name	Forgot password		

Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Member, Admin

Summary:

      When Member, Admin forgot their password to login the system, this function will receiving their password to email

Triggers

      Click on forgot password link on the website

Preconditions:

- Website is available

Post Conditions:

      Receiving their password to their email

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Click on "Quên mật khẩu link.	Display "Quên mật khẩu" page
3	Enter necessary and mandatory information in the "Quên mật khẩu" form and click "Gửi yêu cầu" button.	System will send the password into your email .

Alternative Scenario:

At Step	User	Syste

3	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:

At Step	User	System
3	Enter email incorrect with email that use to register account	Display error message and request to re-enter email

1.6.3 Contact admin Module

1.6.3.1 Use case diagram
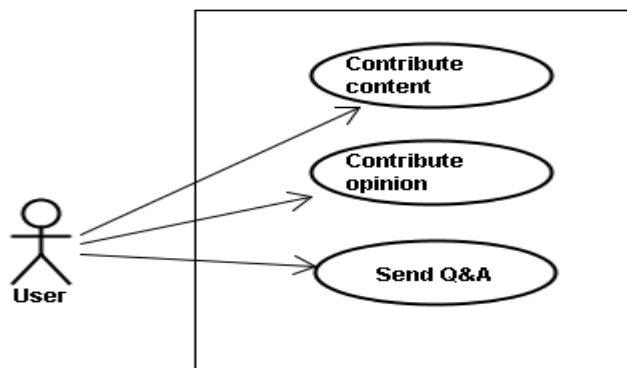
1.6.3.2 Use Case Specification

1.6.3.2.1 UC011: Contribute content

Figure 3.1: Contribute content

Đóng góp từ vựng

Nhập từ: (*)

Category: (*)

Chữ Hán(nếu có):

Nhập nghĩa: (*)

Mã xác nhận: (*)

2420

Nhập văn bản

ReCAPTCHA™

Đóng góp
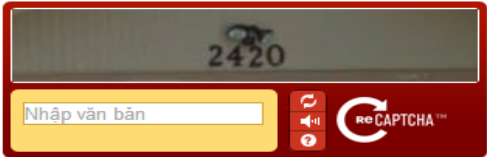
Figure 3.1.1: Contribute vocabulary

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Vocabulary	Từ	Text	Text	Y	200	User input vocabulary with length less than 200 characters
2	Category	Loại từ	Drop-down list	Click	Y		User choose type of category
3	Kanji	Chữ Hán	Text	Text	Y	10	User input kanji of vocabulary (if exist) with length less than 10 characters
4	Mean	Nhập nghĩa	Text	Text	Y	500	User input mean of vocabulary with length less than 500 characters
5	Capcha	Mã xác nhận	Text	Text	Y		User input the verification code

6	Contribute	Đóng góp	Button	Click	Y		User click on contribute button

Table 3.1: Contribute vocabulary's screen description

UC011 – Contribute content				
Use-case No.	<UC011>	**Use-case Version**		<1.0>
Use-case Name	Contribute content			
Author	Tuan NN			
Date	09/06/2014	**Priority**		<High >

Actor:

      Member

Summary:

      When Member want to contribute content for website

Triggers

      User enter website link and click on "Liên hệ"   link on the website

Preconditions:

- Website is available

- User must be login to the website

Post Conditions:

      Receive opinions and redirect user to contact page

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged user into system.

3	Click on "Liên hệ"->"Đóng góp database" section	Display "Đóng góp database" page
4	Enter information that member want to contribute for the website then click "Đóng góp"	System will receive contributions

Alternative Scenario:

At Step	User	ystem
4	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:

At Step	User	System
4	Missing "Nhập từ" field and click "Đóng góp" button	Display error message beside "Nhập từ" field.
4	Missing "Loại từ" field and click "Đóng góp" button	Display error message beside "Loại từ" field.
4	Missing "Nhập nghĩa" field and click "Đóng góp" button	Display error message beside "Nhập nghĩa" field.
4	Enter incorrect information or missing "Mã xác nhận" field and click "Đóng góp" button	Display error message beside "Mã xác nhận" field.

1.6.3.2.2 UC012: Contribute opinion

Figure 3.2: Contribute opinion

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Email	Email	Text	Text	Y	100	User input email with length less than100 characters
2	Content	Nhập nội dung	Text	Text	Y	1000	User input content with length less than1000 characters
3	Capcha	Mã xác nhận	Text	Text	Y		User input the verification code
4	Contribute	Đóng góp	Button	Click	Y		User click on contribute button

Table 3.2: Contribute opinion's screen description

UC012 – Contribute opinion

Use-case No.	<UC012>	Use-case Version	<1.0>
Use-case Name	Contribute opinion		
Author	Tuan NN		
Date	09/06/2014	Priority	<High >

Actor:

Member

Summary:

When Member want to contribute opinion for website

Triggers

User enter website link and click on "Liên hệ" link on the website

Preconditions:

- Website is available

- User must be login to the website

Post Conditions:

Receive opinions and redirect user to contact page

Main Success Scenario:

| Step	Use	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged user into system.
3	Click on "Liên hệ"->"Đóng góp ý kiến" tab	Display "Đóng góp ý kiến" page

4	Enter information that member want to contribute for the website then click "Đóng góp"	System will receive contributions

Alternative Scenario:

At Step	User	System
4	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:
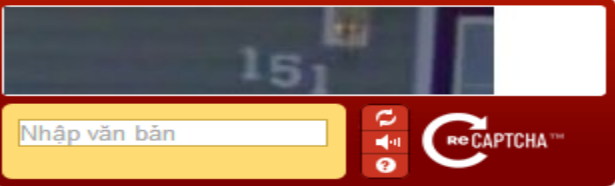
At Step	User	System
4	Missing "Nhập email" field and click "Đóng góp" button	Display error message beside "Nhập email" field.
4	Missing "Nhập nội dung:" field and click "Đóng góp" button	Display error message beside "Nhập nội dung:" field.
4	Enter incorrect information or missing "Mã xác nhận" field and click "Đóng góp" button	Display error message beside "Mã xác nhận" field.

1.6.3.2.3 UC013: Send Q&A

Figure 3.3: Send Q&A

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	QA	Q&A	Text	Text	Y	1000	User input Q&A with length less than 1000 characters
2	Email	Email	Text	Text	Y	100	User input email with length less than 100 characters
3	Capcha	Mã xác nhận	Text	Text	Y		User input the verification code
4	Contribute	Đóng góp	Button	Click	Y		User click on contribute button

Table 3.3: Send Q&A's screen description

UC013 – Send Q&A

Use-case No.	<UC013>	Use-case Version	<1.0>
Use-case Name	Send Q&A		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

     Member

Summary:

     When Member have the question, they can create Q&A

Triggers

     Click on "Liên hệ" link on the website

Preconditions:

- Website is available

- User must be login to the website

Post Conditions:

     Add new Q&A into the website

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged user into system.
3	Click on "Q&A" tab	Display "Q&A" page

4	Enter necessary and mandatory information in the "Q&A" form and click "Gửi" button.	Display this Q&A in the "Q&A" section.

Alternative Scenario:

At Step	User	System
4	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:

At Step	User	System
4	Missing "Nhập email" field and click "Đóng góp" button	Display error message beside "Nhập email" field.
4	Missing "Q&A" field and click "Đóng góp" button	Display error message beside "Q&A" field.
4	Enter incorrect information or missing "Mã xác nhận" field and click "Đóng góp" button	Display error message beside "Mã xác nhận" field.

1.6.4   Practice management Module

1.6.4.1   Use case diagram
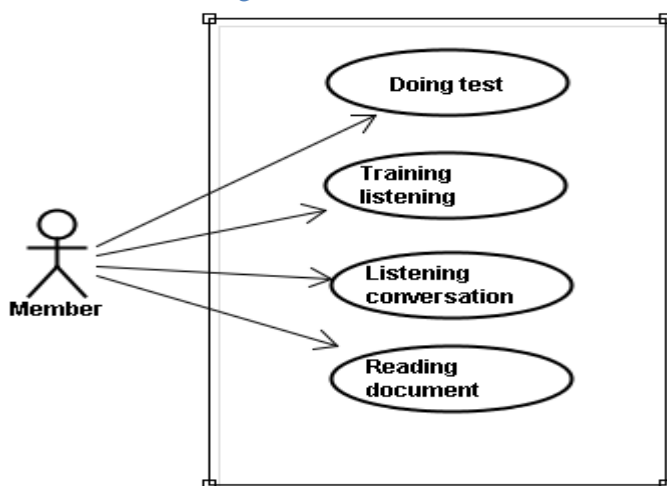
1.6.4.2   Use case specification

1.6.4.2.1   UC014: Doing test

ĐỀ KIỂM TRA

Tên đề
<<< N4_Bunpou_001>>>
<<< N4_Bunpou_002>>>
<<< N4_Bunpou_003>>>
<<< N4_Bunpou_004>>>
<<< N4_Bunpou_005>>>
<<< N4_Choukai_001>>>
<<< N4_Choukai_002>>>
<<< N4_Choukai_003>>>
<<< N4_Choukai_004>>>
<<< N4_Choukai_005>>>

Figure 4.1: Doing test

UC014 – Doing test			
Use-case No.	<UC014>	**Use-case Version**	<1.0>
Use-case Name	Doing test		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

Member

Summary:

This function will help users do the online quiz and check the answers, grading and evaluation capabilities

Triggers

User going to website, login and then click on "Kiểm tra" link on the website

Preconditions:

- Website is available

- User must be login to the website

Post Conditions:

Doing test in the website

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged user into system.
3	Click on "Kiểm tra" section	Display "Kiểm tra" page
4	Choose one of items that you want to doing test	Display that item's page
5	Doing test	Check the answer, grading after finish

Alternative Scenario:

At Step	User	System
5	While doing test, click another link	Switch to selected page

1.6.4.2.2 UC015: Training listening

Figure 4.2: Training listening

Figure 4.2.1: Training listening content

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Description
1	Audio	Audio	Audio	Click	Y	User click play button
2	Translation and Answer	Dịch và đáp án	Link	Click	Y	User click to display translation and answer

Table 4.2.1: Training listening content's screen description

UC015 – Training listening			
Use-case No.	<UC015>	**Use-case Version**	<1.0>
Use-case Name	Training listening		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

    Guest, Member

Summary:

    This function provide users some the listening of level N2, N3, N4 to help users training listening skill

Triggers

    User going to website and click on "Luyện nghe" link on the website

Preconditions:

-   Website is available

Post Conditions:

    Training listening in the website

Main Success Scenario:

Step	User	System

1	Enter website link on web browser	Display Homepage screen
2	Click on "Luyện nghe" section	Display "Luyện nghe" page

Alternative Scenario:

At St p	User	System
4	While listening, click another link	Switch to selected page

1.6.4.2.3 UC016: Listening conversation

Figure 4.3: Listening conversation

Figure 4.3.1: Conversation content

No	Field name	Field name in Vietnamese	Type	Require	Mandatory	Description
1	Translation	Dịch	Link	Click	Y	User click to display translation

Table 4.3.1: Training listening content's screen description

UC016 – Listening conversation			
Use-case No.	<UC016>	**Use-case Version**	<1.0>
Use-case Name	Listening conversation		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

Guest, Member

Summary:

This function provide users some the conversation in everyday life and common situations (eg: restaurants, shopping, in hospital ..)

Triggers

Click on "Hội thoại"   link on the website

Preconditions:

- Website is available

Post Conditions:

Listening conversation in the website

Main Success Scenario:

Step	User	System
1	Enter websi e link n web browser	Display Homepage screen
2	Click on "Hội thoại" section	Display "Hội thoại" page

Alternative Scenario:

At Step	User	System
4	While listening, click another link	Switch to selected page

1.6.4.2.4   UC017: Reading document
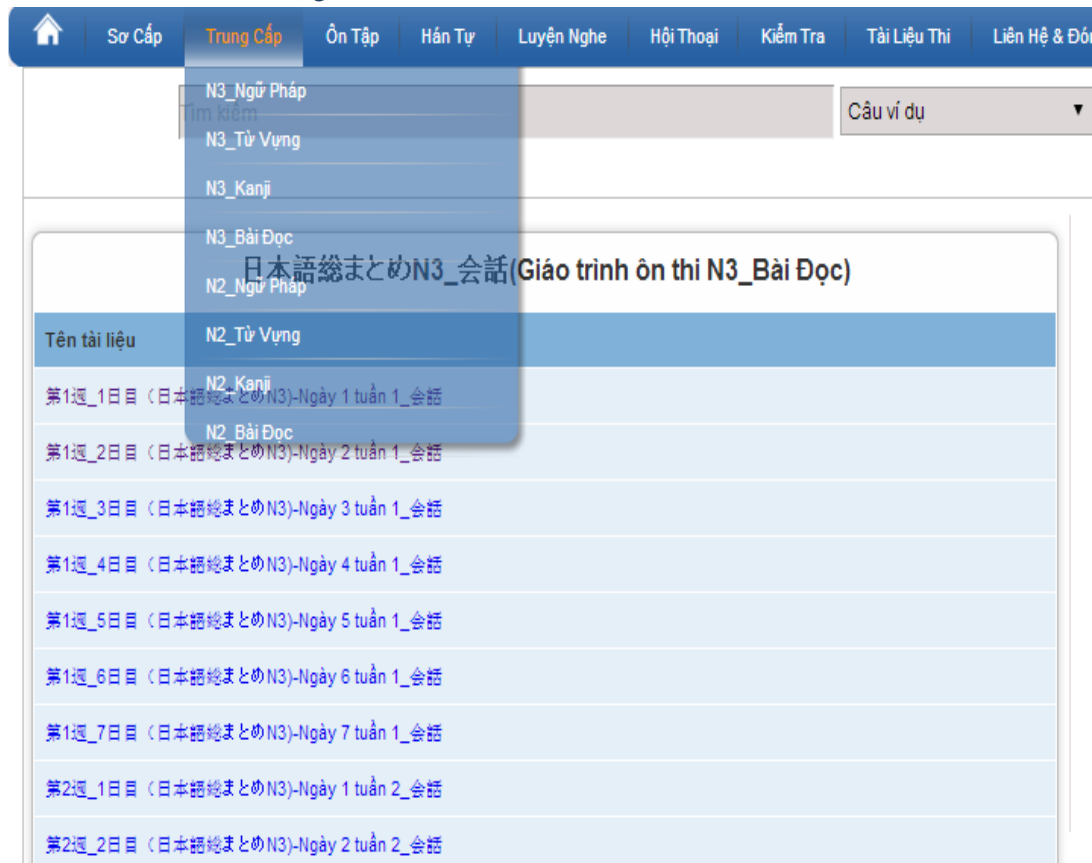
Figure 4.4: Reading document

UC017 – Reading document			
Use-case No.	<UC017>	**Use-case Version**	<1.0>
Use-case Name	Reading document		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

Guest, Member

Summary:

This function provides users some document: elementary, intermediate and review.

Triggers

Click on "N3/N2 Bài đọc"   link on the website

Preconditions:

- Website is available

Post Conditions:

Reading document in the website

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Click on "Bài đọc" section	Display "Bài đọc" page

Alternative Scenario:

At Step	User	System
4	While reading, click another link	Switch to selected page

1.6.5 Admin's account management

1.6.5.1 Use case diagram
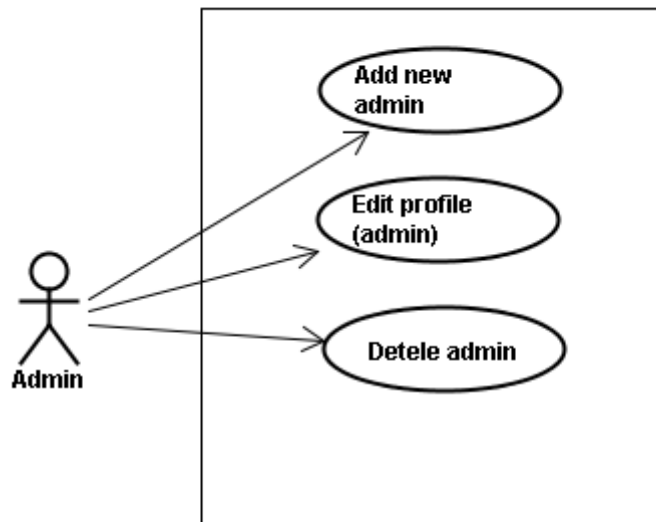
1.6.5.2 Use case specifications

1.6.5.2.1 UC018: Add new admin

Add New Admin

Username:		(*)
Password:		(*)
Role:	Administrator ▼	(*)
Email:		(*)
	Register	

Figure 5.1: Add new admin

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Username	Text	Text	Y	32	Admin input username of admin's account with length less than 32 characters
2	Password	Text	Text	Y	100	Admin input password of admin's account with length less than 32 characters
3	Roll	Drop-down list	Choose	Y		Admin choose the roll of account
4	Email	Text	Text	Y	100	Admin input email of admin's account with length less than 100 characters
5	Register	Button	Click	Y		Admin add new admin

Table 5.1: Add new admin's screen description

UC018 – Add new admin			
Use-case No.	<UC018>	**Use-case Version**	<1.0>
Use-case Name	Add new admin		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

    Admin

Summary:

    Administrator can add new admin

Triggers

    Admin login the website and click on add new admin link on the website

Preconditions:

- Website is available

- Admin login to the website

Post Conditions:

New admin be added successfully

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on add new admin button	Display "Add New Admin" screen that contains these elements: - Username - Password - Roll - Email
4	Fill test information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new test data into database

Alternative Scenario:

At Step	User	System
4	Input data in account area then click on another link	Switch to selected page

Exceptions:

At Step	User	System

4	Fill incorrect account name	Return Error message

1.6.5.2.2   UC019: Edit profile (admin)

Admin Edit Page

UserName:	datpt1	(*)
Password:	••••••••••••••••••••••••••	
New-password:		
Renew-password:		
FullName:	Phạm Tiến Đạt	
Email:	datptse02338@fpt.edu.vn	(*)

Update

Figure 5.2: Edit profile admin

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Username	Text	Text	N		Username of admin's account
2	New-password	Text	Text	Y	32	Admin input new password with length less than 32 characters

3	Renew-password	Text	Text	Y	32	Admin re-input new password with length less than 32 characters
4	Fullname	Text	Text	Y	100	Admin input full name with length less than 100 characters
5	Email	Text	Text	Y	100	Admin input email with length less than 100 characters
6	Update	Button	Click	Y		User click to edit vocabulary

Table 5.2: Edit profile admin's screen description

UC019 – Edit profile(admin)			
Use-case No.	<UC019>	**Use-case Version**	<1.0>
Use-case Name	Edit profile admin		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

    Administrator

Summary:

    Administrator want to change their profile

Triggers

    Administrator login the website and click on the edit profile link

Preconditions:

- Website is available

- Administrator login the website

Post Conditions:

Edit admin profile and redirect to edited profile page

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on edit profile tab	Display "Edit profile" screen that contains these elements: - Username - Password - New-Password - Renew-Password - Full name - Email
4	Fill test information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new test data into database

Alternative Scenario:

At Step	User	System
4	Enter necessary and mandatory information and click another link	Switch to selected page

Exceptions:

At Step	User	System
4	Enter new password that incorrect form or missing information and click "Luru" button	Display error message
4	Enter new email that incorrect form or missing information and click "Luru" button	Display error message

1.6.5.2.3   UC020: Delete admin

Admin List

No.	UserName	Email	Role	Status	Action
1	tuannguyen	tuannn@gmail.com	Admin	Active	Delete

Figure 5.3: Delete admin

UC020 – Delete admin			
Use-case No.	<UC020>	**Use-case Version**	<1.0>
Use-case Name	Delete admin		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

   Administrator

Summary:

   Administrators can remove administrator rights of other admin

Triggers

   Login the website and click on the delete admin link

Preconditions:

-   Website is available

-   Admin login the website

Post Conditions:

   Admin will be remove administrator rights

Main Success Scenario:

Step	User	System

1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on delete admin link.	Display delete admin page
4	Enter the account that you want to remove administrator rights	Remove administrator rights of account and display message to remove successfully

Alternative Scenario:

At Step	User	System
4	Input data in account area then click on another link	Switch to selected page

Exceptions:

At Step	User	System
4	Fill incorrect account name	Return Error message

1.6.6 Management Member's account

1.6.6.1 Use case diagram

1.6.6.2 Screen description

Figure 6: Management Member

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Username	Text	Text	Y	32	Admin input username to search member by username
2	Email	Text	Text	Y	100	Admin input email to search member by email
3	Ban/Unban	Button	Click	N		Admin click ban/unban member
4	Delete	Button	Click	N		Admin click delete

						member	

Table 6: Management member's screen description

1.6.6.3   Use case specifications

1.6.6.3.1   UC021: Search member

Search member screen:

Username: datpham   Email: [Search]

User List

No.	UserName	Email	Role	Ban/Unban	Status	Action
1	datpham	datptse02336@fpt.edu.vn	Member	Ban	Active	Delete

UC021 – Search member				
Use-case No.	<UC021>	**Use-case Version**	<1.0>	
Use-case Name	Search member			
Author	Tuan NN			
Date	09/06/2014	**Priority**	<High >	

Actor:

Admin

Summary:

When admin want to search by member's account in database successfully if it is existed

Triggers

Admin login the website and click on search member , input member's account in the right text box then click "Search" button

Preconditions:

- Website is available

- Admin must be login

- Input data must be correctly

Post Conditions:

Display detail information of member

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on "Search member" button and input member's account or email	Display "member information" screen that contains the information : - No - User Name - Email - Roll - Ban/Unban

		- Status
		- Delete

Alternative Scenario:

At Step	User	System
3	Fill information of the member that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Fill information of the member that they want to find (that do not exist in database) into these fields then click "Search" button	Return Error message to inform that member cannot be found

1.6.6.3.2   UC022: Ban/Unban member

UC022 – Search member			
Use-case No.	<UC022>	**Use-case Version**	<1.0>
Use-case Name	Ban/Unban member		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When admin can ban user who violated rule of website and unban member

Triggers

      Admin login the website and click on member's account and then click "Ban/Unban" button

Preconditions:

- Website is available

- Admin must be login

- Input data must be correctly

Post Conditions:

      Member's account will be ban/unban by administrator

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on "Search member" button and input member's account or email	Display "member information" screen that contains the information
4	Click "Ban/Unban" link	Ban/Unban member

Alternative Scenario:

At Step	User	System
3	Fill information of the member that they want to find into these	Switch to selected page

	fields then click on another link	

Exceptions:

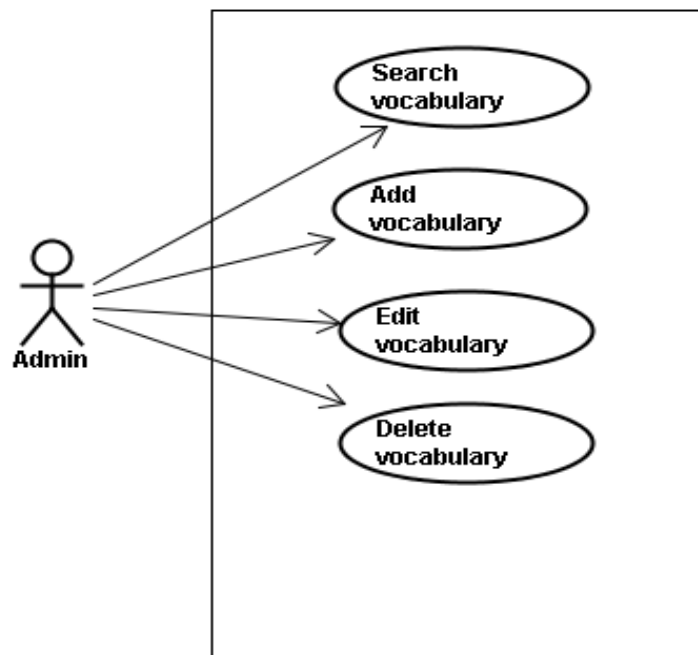| At Step	User	System
3	Fill information of the member that they want to find (that do not exist in database) into these fields then click "Search" button	Return Error message to inform that member cannot be found

1.6.6.3.3 UC023: Delete member

UC023 – Delete member			
Use-case No.	<UC023>	**Use-case Version**	<1.0>
Use-case Name	Delete member		
Author	Tuan NN		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      Administrators can delete member who violated rule of website

Triggers

      Admin login the website and click on the delete member link

Preconditions:

-    Website is available

- Admin must be login

- Input data must be correctly

Post Conditions:

Member's account will be removed from system

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on "Search member" button and input member's account or email	Display information of member
4	Click on delete link corresponding with member want to delete	Remove member from list

Alternative Scenario:

At Step	User	System
3	Fill information of the member that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Fill information of the member that they want to find (that do not exist in database) into these fields then click	Return Error message to inform that member cannot be found

"Search" button	
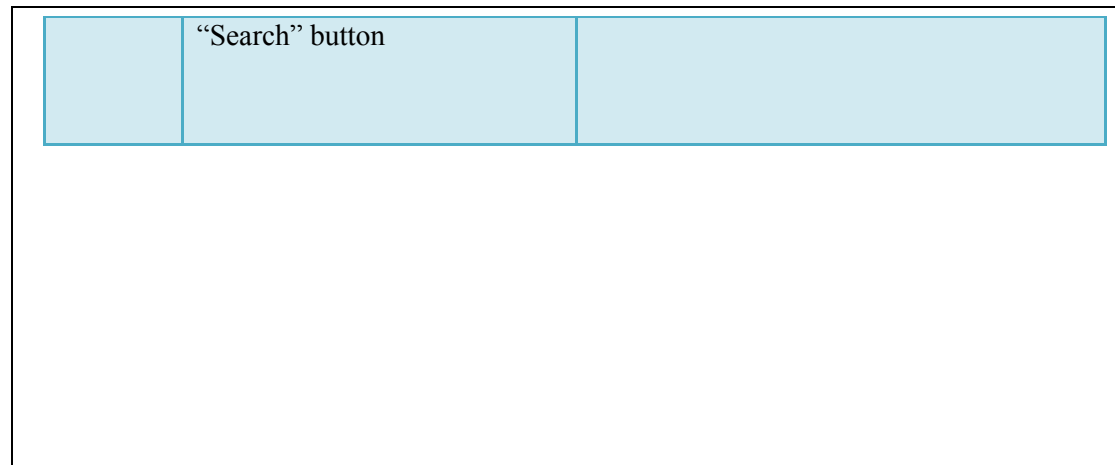
1.6.7 Vocabulary Management

1.6.7.1 Use case diagram

1.6.7.2   Screen description

Figure 7: Vocabulary management

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Romaji	Text	Text	Y	100	Admin input romaji with length less than 100 character
2	Search	Button	Click	Y		Admin click to search vocabulary
2	Add-new	Button	Click	N		Admin add new vocabulary into database
3	Add meaning	Button	Click	Y		Admin add meaning of vocabulary
4	Edit	Button	Click	N		Admin click edit vocabulary
5	Delete	Button	Click	N		Admin click delete vocabulary
6	Add-reference	Button	Click	N		Admin add

						reference of vocabulary if reference exist
7	List-contribute	Button	Click	N		Admin click to view list contribute

Table 7.1: Vocabulary management's screen description

1.6.7.3 Use case specifications

1.6.7.3.1 UC024: Search vocabulary

Figure 7.1: Search vocabulary

UC0024 – Specification			
Use-case No.	<UC0024>	**Use-case Version**	<1.0>
Use-case Name	Search vocabulary		
Author	TuanNN		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to search a vocabulary on database

Goal:

Administrator can search vocabulary in database successfully if it is existed

Triggers

Admin login the website and click on "Vocabulary management" tab, input vocabulary in the right text box then click "Search" button

Preconditions:

- Website is available

- Admin must be login

- Input data must be correctly

Post Conditions:

Display detail information of vocabulary

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
4	Click on "vocabulary management" tab	Displays criteria search screen
5	Fill information of the vocabulary that they want to find into these fields then click "Search" button	Displays search result as a table with these elements: - No - Hiragana - Romaji - Status

		- Meaning
		- Category
		- Kanji
		- Specialized
		- Add meaning
		- Edit
		- Delete
		- Add reference

Alternative Scenario:

At Step	User	System
5	Fill information of the vocabulary that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
5	Fill information of the vocabulary that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that vocabulary structure cannot be found

1.6.7.3.2   UC025: Add vocabulary

Add New Vocabulary

V_hiragana: [   ] (*)
V_romaji: [   ] (*)

[Add]

Figure 7.2: Add new vocabulary

Add Meaning

V_id: 1 (*)

Hiragana: ふぐあい (*)

Romaji: fuguai (*)

Meaning: (*)

Category: N ▼ (*)

Kanji:

Specialized:

Add

Figure 7.2.1: Add vocabulary meaning

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	200	Admin input vocabulary by hiragana with length less than 200 characters
2	Romaji	Text	Text	Y	200	Admin input vocabulary by romaji with length less than 200 characters
3	Meaning	Text	Text	Y	500	Admin input mean of vocabulary with length less than 500 characters
4	Category	Drop-down list	Click	Y		Admin choose category of vocabulary
5	Kanji	Text	Text	Y	10	Admin input vocabulary by kanji with length less than 10 characters
6	Specialized	Text	Text	Y	200	Admin input specialized of vocabulary with length

					less than 200 characters
7	Add	Button	Click	Y	Admin add new vocabulary

Table 7.2: Add new vocabulary & meaning's screen description

UC0025 - Specification				
Use-case No.	<UC0025>	**Use-case Version**	<1.0>	
Use-case Name	Add vocabulary			
Author	Tuan NN			
Date	09/06/2014	**Priority**	<High >	

Actor:

Admin

Summary:

When Administrator want to add a vocabulary into database. They have to insert all necessary data of vocabulary into "Add new vocabulary" screen

Goal:

Administrator can add new vocabulary information in database successfully

Triggers

User must click on "Vocabulary management/ Add new" tab and input all necessary information of vocabulary into the right fields then click on "Add new" button

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

New vocabulary has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on "Vocabulary management/Add new" tab	Display "Add New Vocabulary" screen that contains these elements: - Hiragana - Romaji
4	Fill information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new vocabulary data into database
5	Click on "Vocabulary management/Add meaning" tab	Display "Add meaning" screen that contains these elements: - Hiragana - Romaji - Meaning - Category - Kanji - Specialized
6	Fill information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new vocabulary data into database
7	Click on "Vocabulary management/Add reference" tab	Display "Add meaning" screen that contains these elements: - Vocabulary - Meaning - Sentence
8	Choose sentence and click "Add" button	The system validates the input data and then save new vocabulary data into database

Alternative Scenario:

At Step	User	System
4	Click on another link	Do not save new vocabulary data into database then redirect to selected page
6	Click on another link	Do not save meaning data into database then redirect to selected page
8	Click on another link	Do not save reference into database then redirect to selected page

Exceptions:

At Step	User	System
4	Do not fill full information into fields then click "Add" button	Return Error message beside empty field and ask if user want to add with empty field.
6	Do not fill full information into fields then click "Add" button	Return Error message beside empty field and ask if user want to add with empty field.
8	Do not fill full information into fields then click "Add" button	Return Error message beside empty field and ask if user want to add with empty field.

1.6.7.3.3 UC026: Edit vocabulary

Edit Vocabulary

Figure 7.3: Edit vocabulary

No	Field name	Type	Require	Manda tory	Max-Length	Description
1	Hiragana	Text	Text	Y	200	Admin input vocabulary by hiragana with length less than 200 characters
2	Romaji	Text	Text	Y	200	Admin input vocabulary by romaji with length less than 200 characters
3	Meaning	Text	Text	Y	500	Admin input mean of vocabulary with length less than 500 characters
4	Category	Drop-down list	Click	Y		Admin choose category of vocabulary
5	Kanji	Text	Text	Y	10	Admin input vocabulary by kanji with length less than 10 characters
6	Specialized	Text	Text	Y	200	Admin input specialized of vocabulary with leng

					less than 200 characters
7	Edit	Button	Click	Y		Admin edit vocabulary

Table 7.3: Edit vocabulary's screen description

UC0026 - Specification					
Use-case No.	<UC0026>		**Use-case Version**	<1.0>	
Use-case Name	Edit vocabulary				
Author	TuanNN				
Date	09/06/2014		**Priority**	<High >	

Actor:

     Admin

Summary:

     When Administrator want to edit a vocabulary on database which has some new meanings or errors

Goal:

     Administrator can edit vocabulary information in database successfully

Triggers

     User must click on "Vocabulary management" then search for the vocabulary. User click on "Edit" link on corresponding vocabulary. They edit necessary information in the right fields then click on "Edit" button.

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

    Changed information of vocabulary has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on "Vocabulary management " then search for the vocabulary that they want to edit	Displays search result as a table
4	Click on "Edit" link	Display "Edit Vocabulary" screen that contains the information of chosen vocabulary with these elements: - Hiragana - Romaji - Meaning - Category - Kanji - Specialized
5	Edit vocabulary information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
4	Edit vocabulary information then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit vocabulary information to be similar to another existed grammar and click "Edit"	The system validates the input data and return Error message and do not save edited data into database

button		

Reference:

UC0024 - Search Vocabulary

1.6.7.3.4   UC027: Delete vocabulary

UC0027 - Specification

Use-case No.	<UC0027>	Use-case Version	<1.0>
Use-case Name	Delete vocabulary		
Author	TuanNN		
Date	09/06/2014	Priority	<High >

Actor:

Admin

Summary:

When Administrator want to delete a vocabulary on database

Goal:

Administrator can delete selected vocabulary in database successfully

Triggers

User must click on "Vocabulary management" then search for the vocabulary. User click on "Delete" link on corresponding vocabulary.

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have existed in system

Post Conditions:

Vocabulary has been deleted from system database successfully

Main Success Scenario:

Step	User	System
1	Enter website link on web browser	Display Homepage screen
2	Enter necessary and mandatory information and click "Login"	Redirect to previous page and logged admin into system.
3	Click on "Vocabulary management " then search for the vocabulary that they want to delete	Displays search result as a table
4	Click on "Delete" link beside that vocabulary row	Remove that vocabulary from list

Exceptions:

At Step	User	System

Reference:

UC0024 - Search vocabulary

1.6.8 Grammar Management

1.6.8.1 Use case diagram

1.6.8.2 Screen description

Figure 8: Grammar management

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Romaji	Text	Text	Y	100	Admin input romaji with length less than 100 character

2	Add-new	Button	Click	N		Admin add new grammar into database
3	Edit	Button	Click	N		Admin click edit grammar
4	Delete	Button	Click	N		Admin click delete grammar
5	Add-reference	Button	Click	N		Admin add reference of grammar
6	List-contribute	Button	Click	N		Admin click to view list contribute

Table 8.1: Grammar management's screen description

1.6.8.3   Use case specifications

1.6.8.3.1   UC0028: Search grammar

Figure 8.1: Search grammar

UC0028 - Specification			
Use-case No.	<UC0028>	**Use-case Version**	<1.0>
Use-case Name	Search grammar		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

    Admin

Summary:

    When Administrator wants to search a grammatical structure in database, Admin can input a grammatical structure by "romaji" letter then click button "Search". If that grammatical structure is existed, system will return meaning.

Triggers

    Click on "Grammar management" tab, input grammatical structure in the right text box then click "Search" button

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input data in search area

Post Conditions:

    Display detail information of grammatical structure

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Grammar management" tab	Displays criteria search screen
3	Fill information of the grammatical structure that they want to find into these fields then click "Search" button	Displays search result as a table with these elements: - No - Hiragana - Romaji - Level - Meaning - Use - Status - Add reference - Edit

		- Delete

Alternative Scenario:

At Step	User	System
3	Fill information of the grammatical structure that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Fill information of the grammatical structure that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that grammatical structure cannot be found

1.6.8.3.2 UC0029: Add grammar

Add Grammar

Hiragana: _____ (*)

Romaji: _____ (*)

Level: [▾] (*)

Meaning: _____ (*)

Use:
_____
(*)

Lesson: _____

[Add]

Figure 8.2: Add grammar

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	200	Admin input grammar by hiragana with length less than 200 characters
2	Romaji	Text	Text	Y	200	Admin input grammar by romaji with length less than 200 characters
3	Meaning	Text	Text	Y	200	Admin input mean of grammar with length less than 200 characters
4	Use	Text	Text	Y	1000	Admin input use of grammar with length less than 1000 characters
5	Level	Drop-down list	Choose	Y		Admin choose level of grammar
6	Lesson	Text	Text	Y	20	Admin input lesson
7	Add	Button	Click	Y		Admin add new grammar

Table 8.2: Add grammar's screen description

UC0029 - Specification			
Use-case No.	<UC0029>	**Use-case Version**	<1.0>
Use-case Name	Add grammar		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator wants to add a grammar into database. They have to insert all necessary data of grammar into "Add Grammar" screen then click "Add" button

Triggers

User must click on "Grammar management/ Add New" and input all necessary information of grammar into the right fields then click on "Add" button

Preconditions:

- Website is available

- User has to login as Administrator

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

New grammatical structure has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Grammar management/Add New"	Display "Add Grammar" screen that contains these elements: - Hiragana - Romaji - Level - Meaning - Use - Lesson
3	Fill grammar information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new grammar data into database
4	Click on "Grammar	Display "Add Grammar" screen that

	management/Add Reference"	contains these elements: - Grammar - Meaning - Reference
5	Fill grammar information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new grammar data into database

Alternative Scenario:

At Step	User	System
3	Click on another link	Do not save new grammar data into database then redirect to selected page
5	Click on another link	Do not save new reference data into database then redirect to selected page

Exceptions:

At Step	User	System
3	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields
5	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields

1.6.8.3.3 UC0030: Edit grammar

Figure 8.3: Edit grammar

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	200	Admin input grammar by hiragana with length less than 200 characters
2	Romaji	Text	Text	Y	200	Admin input grammar by romaji with length less than 200 characters
3	Meaning	Text	Text	Y	200	Admin input mean of grammar with length less than 200 characters

4	Use	Text	Text	Y	1000	Admin input use of grammar with length less than 1000 characters
5	Level	Drop-down list	Choose	Y		Admin choose level of grammar
6	Lesson	Text	Text	Y	20	Admin input lesson
7	Add	Button	Click	Y		Admin add new grammar

Table 8.3: Edit vocabulary's screen description

UC0030 - Specification			
Use-case No.	<UC0030>	**Use-case Version**	<1.0>
Use-case Name	Edit grammar		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When Administrator want to edit a grammatical structure in database which has some new meanings or errors. Admin will search that grammar then click "Edit" link. When edit finished, new meaning of that grammar will be updated.

Triggers

      User must click on "Grammar management" then search for the grammatical structure. User click on "Edit" link corresponding with grammar which want to edit. Users edit necessary information of grammar in the right fields then click on "Edit" button.

Preconditions:

- Website is available

- User has to login as Administrator

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

Changed information of grammar has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Management grammar " then search for the grammatical structure that they want to edit	Displays search result as a table
3	Click on "Edit" link corresponding with grammar	Display "Edit Grammar" screen that contains the information of chosen grammar with these elements: - Hiragana - Romaji - Level - Meaning - Use - Lesson
4	Edit grammar information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
4	Edit grammar information then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit grammar information to be similar to another existed grammar and click "Edit"	The system validates the input data and return Error message and do not save edited data into database

	button	

Reference:

UC0028 - <Admin> Search Grammar

1.6.8.3.4 UC0031: Delete grammar

UC0031 - Specification			
Use-case No.	<UC0031>	**Use-case Version**	<1.0>
Use-case Name	Delete grammar		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to delete a grammar in database. Admin will search that grammar then click "Delete" link. When deleted finished, that grammar no longer exist in database.

Triggers

User must click on "Grammar management" then search for the grammatical structure. User click on "Delete" link corresponding with grammar which want to delete.

Preconditions:

- Website is available

- User has to login as Administrator

Post Conditions:

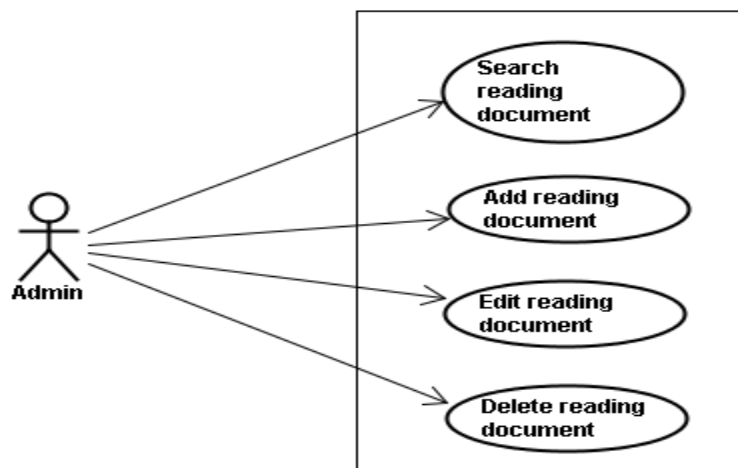|	Grammar has been deleted from system database successfully	

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Grammar management " then search for the grammar that they want to delete	Displays search result as a table
3	Click on "Delete" link corresponding with grammar	Remove that grammar in database

Reference:　　　UC0028 - <Admin> Search grammar

1.6.9   Reading Document Management

1.6.9.1   Use case diagram

1.6.9.2 Screen description

Figure 9: Reading document

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Level	Drop-down list	Click	Y		Admin choose the level
2	Search	Button	Click	Y		Admin click to search
3	Add-new	Button	Click	N		Admin add new into database
4	Edit	Button	Click	N		Admin click edit grammar
5	Delete	Button	Click	N		Admin click delete grammar
6	Detail-Vocab	Hyperlink	Click	N		Details of vocabulary
7	Detail-Article	Hyperlink	Click	N		Details of article

Table 9: Reading document's screen description

1.6.9.3   Use case specifications

1.6.9.3.1   UC0032: Search reading document

Figure 9.1: Search reading document

UC0032 - Specification			
Use-case No.	<UC0032>	**Use-case Version**	<1.0>
Use-case Name	Search document		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to search reading document in database and Administrator can search reading document in database successfully if it is existed

Triggers

Click on "Reading management" tab, choose level of reading document in the right text box then click "Search" button

Preconditions:

User has to login as Administrator user

Post Conditions:

Display detail information of reading document

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Reading management" tab	Displays criteria search screen
3	Choose level of the reading document that they want to find then click "Search" button	Displays search result as a table with these elements: - No - Title - Code - Level - Vocabulary - Article - Edit - Delete

Alternative Scenario:

At Step	User	System
3	Choose level of the reading document that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Choose level of the reading document that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that reading document cannot be found

1.6.9.3.2 UC0033: Add reading document

Add Reading

Code : _____ (*)

Title : _____ (*)

Level: [▼] (*)

[Add]

Figure 9.2: Add reading document

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Code	Text	Text	Y	50	Admin input code with length less than 50 character
2	Title	Text	Text	Y	100	Admin input title with length less than

						100 characters
3	Level	Drop-down list	Click	Y		Admin choose the level
4	Add	Button	Click	Y		Admin click to add reading

Table 9.2: Add reading document's screen description

Add Reading Vocabulary

Figure 9.2.1: Add reading vocabulary

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	100	Admin input hiragana with length less than 100 character
2	Meaning	Text	Text	Y	100	Admin input meaning with length less than 100 characters
3	Kanji	Text	Text	N	10	Admin input kanji with length less than 10 characters
4	Type	Drop-down list	Click	Y		Admin choose the type
5	Add	Button	Click	Y		Admin click to add reading vocabulary

Table 9.2.1: Add reading vocabulary's screen description

Add Article

Figure 9.2.2: Add article

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Content	Text	Text	Y	5000	Admin input content with length less than 5000 character
2	Question	Text	Text	Y	5000	Admin input question with length less than 5000 characters
3	Answer	Text	Text	Y	5000	Admin input answer

						with length less than 5000 characters
4	Meaning	Text	Text	Y	5000	Admin input meaning with length less than 5000 characters
5	Add	Button	Click	Y		Admin click to add article

Table 9.2.2: Add article's screen description

UC0030 - Specification				
Use-case No.	<UC0030>	**Use-case Version**		<1.0>
Use-case Name	Add document			
Author	Minh PT			
Date	09/06/2014	**Priority**		<High >

Actor:

      Admin

Summary:

      When Administrator want to add new reading document into database. They have to insert all necessary data of reading document into "Add new reading" screen

Triggers

      User must click on "Reading management/ Add new" tab and input all necessary information of grammar into the right fields then click on "Add new" button

Preconditions:

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

	New reading document has been saved into system database successfully	

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Reading management/Add new" tab	Display "Add New Reading" screen that contains these elements: - Code - Title - Level
3	Fill reading document information into all necessary or mandatory fields and click "Add " button	The system validates the input data and then save new reading document data into database
4	Click on "Reading management/Vocabulary Details"	Display "Vocabulary Details" screen that contains these elements: - Hiragana - Meaning - Kanji - Type
5	Fill reading document information into all necessary or mandatory fields and click "Add " button	The system validates the input data and then save new reading document data into database
6	Click on "Reading management/Article Details"	Display "Article Details" screen that contains these elements: - Content - Question - Answer - Meaning
7	Fill reading document information into all necessary or mandatory fields and click "Add " button	The system validates the input data and then save new reading document data into database

Alternative Scenario:

At Step	User	System
3	Click on another link	Do not save new reading document data into database then redirect to selected page
5	Click on another link	Do not save vocabulary details data into database then redirect to selected page
7	Click on another link	Do not save article details data into database then redirect to selected page

Exceptions:

At Step	User	System
3	Do not fill full information into fields then click "Add new" button	Return Error message beside empty field and ask if user want to add with empty field.
5	Do not fill full information into fields then click "Add new" button	Return Error message beside empty field and ask if user want to add with empty field.
7	Do not fill full information into fields then click "Add new" button	Return Error message beside empty field and ask if user want to add with empty field.

1.6.9.3.3 UC0034: Edit reading document

Edit ReadingDocument

Code   N2_soumatome_1.1

Title   第1週_1日目（日本語総まとめN2)-Nga

Level: N2 ▾   (*)

Edit

Figure 9.3: Edit reading document

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Code	Text	Text	Y	50	Admin input code with length less than 50 character
2	Title	Text	Text	Y	100	Admin input title with length less than 100 characters
3	Level	Drop-down list	Click	Y		Admin choose the level
4	Edit	Button	Click	Y		Admin click to edit reading

Table 9.3: Edit reading document's screen description

Edit Reading Vocabulary

Hiragana: チラシ (*)

Meaning: tờ rơi (*)

Kanji:

Type: n ▼ (*)

Edit

Figure 9.3.1: Add reading vocabulary

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	100	Admin input hiragana with length less than 100 character
2	Meaning	Text	Text	Y	100	Admin input meaning with length less than 100 characters
3	Kanji	Text	Text	N	10	Admin input kanji with length less than 10 characters
4	Type	Drop-down list	Click	Y		Admin choose the type
5	Edit	Button	Click	Y		Admin click to edit reading vocabulary

Table 9.3.1: Add reading vocabulary's screen description

Edit Reading Article

Content:
```
ソフトウェアを行き当たりばったりで開発していて
は、生産性も品質も上がらないことは明白です。そ
こで、ソフトウェアを順序立てて開発する手順をプロ
セスとしてとらえ、さまざまな取り組みがなされてき
ました．1970年代から80 年代にかけては、ウォ
```
(*)

Question:
```
1．開発者同士の分業の容易化、プロジェクト管理の
効率化を図ることができます?

2．開発者同士の分業の容易化、プロジェクト管理の
効率化を図ることができます?
```
(*)

Answer:
```
1．開発者同士の分業の容易化

2.プロジェクト管理の効率化を図ることができます
```
(*)

Meaning:
```
Để người lớn có thể thưởng thức
truyện tranh từ truyện tranh cho
trẻ em, một loạt các truyện tranh
đã được bán tại Nhật Bản. Đôi khi
tôi nói một bức tranh tốt, nhưng
```
(*)

Edit

Figure 9.3.2: Add article

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Content	Text	Text	Y	5000	Admin input content with length less than 5000 character
2	Question	Text	Text	Y	5000	Admin input question with length less than 5000 characters
3	Answer	Text	Text	Y	5000	Admin input answer with length less than 5000 characters
4	Meaning	Text	Text	Y	5000	Admin input meaning with length

						less than 5000 characters
5	Edit	Button	Click	Y		Admin click to edit article

Table 9.3.2: Add article's screen description

UC0034 - Specification				
Use-case No.	<UC0034>	**Use-case Version**	<1.0>	
Use-case Name	Edit reading document			
Author	Minh PT			
Date	09/06/2014	**Priority**	<High >	

Actor:

      Admin

Summary:

      When Administrator want to edit reading document on database which has some new meanings or errors

Triggers

      User must click on "Reading management" then search for the reading document. User click on "Edit" link to corresponding reading document. They edit necessary information of reading document in the right fields then click on "Edit" button.

Preconditions:

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

    Changed information of reading document has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Reading management " then search for the reading document that they want to edit	Displays search result as a table
3	Click on "Edit" link	Display "Edit reading" screen that contains the information of chosen reading with these elements: - Code - Title - Level
4	Edit reading document information and click "Edit" button	The system validates the input data and then save data into database
5	Click on "VocabularyEdit" link	Display "Edit vocabulary" screen that contains the information of chosen reading with these elements: - Hiragana - Meaning - Kanji - Type
6	Edit reading document information and click "Edit" button	The system validates the input data and then save data into database
7	Click on "ArticleEdit" link	Display "Edit article" screen that contains the information of chosen reading with these elements: - Content - Question - Answer - Meaning
8	Edit reading document information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
4	Edit reading information then click to another link	Do not save edited data then redirect to selected page
6	Edit reading information then click to another link	Do not save edited data then redirect to selected page
8	Edit reading information then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit reading information to be similar to another existed reading and click "Edit" button	The system validates the input data and return Error message and do not save edited data into database
6	Edit reading information to be similar to another existed reading and click "Edit" button	The system validates the input data and return Error message and do not save edited data into database
8	Edit reading information to be similar to another existed reading and click "Edit" button	The system validates the input data and return Error message and do not save edited data into database

Reference:

UC0032- <Admin> Search reading document

1.6.9.3.4   UC0035: Delete reading document

UC0035 - Specification			
Use-case No.	<UC0035>	**Use-case Version**	<1.0>
Use-case Name	Delete reading document		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When Administrator want to delete reading document on database

Triggers

      User must click on "Reading management" then search for the reading document. User click on "Delete" link on corresponding reading document.

Preconditions:

-    User have logged into system as an admin.

-    All mandatory fields have been filled

-    All input data must be valid and have existed in system

Post Conditions:

      Reading document has been deleted from system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Reading management " then search for the reading document that they want to delete	Displays search result as a table

| 3 | Click on "Delete" link beside that reading document row | Displays pop up to confirm if they really want to remove that reading document |
| 4 | Click "Yes" button on popup | Closes the popup then remove that reading document name from reading list |

Alternative Scenario:

At Step	User	System
4	Click close icon of the popup	Only closes the popup, does not remove that reading document

Exceptions:

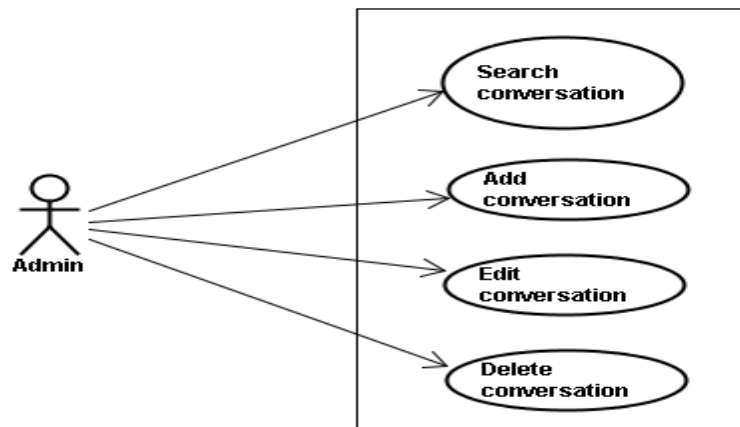| At Step	User	System
4	Click "Cancel" button on popup	Only closes the popup, does not remove that reading document

Reference:

UC0032 - <Admin> Search reading document

1.6.10 Conversation management

1.6.10.1 Use case diagram

1.6.10.2 Screen description

Figure 10: Conversation management

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Level	Drop-down list	Click	N		Admin choose the level
2	Search	Button	Click	N		Admin click to

						search conversation
3	Add-new	Button	Click	N		Admin click to add new conversation
4	View	Hyperlink	Click	N		Admin click to view content
5	Edit	Hyperlink	Click	N		Admin click edit conversation
6	Delete	Hyperlink	Click	N		Admin click delete conversation

Table 10: Conversation management's screen description

View Detail Conversation

Hội thoại - Trung cấp 1 - Bài 1

Tình huống : Đề nghị làm gì. Edit Delete

▶ ──────── 0:00 ◂

A：雨降ってきそうだよ。傘持ってったら？

B：いいよ、めんどくさいし。

A：ほら、折りたたみだから。

B：いい、いい。そんなにどしゃぶりにはならないでしょ。

Dịch

~~~~~~

1.6.10.3 Use case specifications

1.6.10.3.1 UC0036: Search conversation

Level: Trung cấp 1 ▾   Search   Add Conversation

Conversation List

| Total record : 4

No.	Title	Level	Image	Action
1	Hội thoại - Trung cấp 1 - Bài 1	Trung cấp 1		View| Edit	Delete
2	Hội thoại - Trung cấp 1 - Bài 3	Trung cấp 1	No image	View| Edit	Delete
3	Hội thoại - Trung cấp 1 - Bài 4	Trung cấp 1	No image	View| Edit	Delete
4	Hội thoại - Trung cấp 1 - Bài 5	Trung cấp 1	No image	View| Edit	Delete

Figure 10.1: Search conversation

UC0036 - Specification			
Use-case No.	<UC0036>	**Use-case Version**	<1.0>
Use-case Name	Search conversation		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

    Admin

Summary:

    When Administrator wants to search conversation in database. User choose level of conversation or level then click "Search" button

Triggers

    Click on "Conversation management" tab, choose level of conversation in the right text box then click "Search" button

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input data in search area

Post Conditions:

    Display detail information of conversation

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Conversation management" tab	Displays criteria search screen
3	Choose level of the conversation that they want to find then click "Search" button	Displays search result as a table with these elements: - No - Title - Level - Image - View - Edit - Delete

Alternative Scenario:

At Step	User	System
3	Choose level of the conversation that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Choose level of the conversation that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that conversation cannot be found

1.6.10.3.2 UC0037: Add conversation

Add Conversation

Title: _____ (*)

Level: [▼] (*)

Image: No image [Chọn tệp] Không có tệp nào được chọn

[Add]

Figure 10.2.1: Add conversation

No	Field name	Type	Require	Manda tory	Max-Length	Description
1	Title	Text	Text	Y	100	Admin input title of conversation with length

					less than 100 characters
3	Level	Drop-down list	Text	Y	Admin choose the level
4	Image	Button	Click	N	Admin choose the image
5	Add	Button	Click	Y	Admin add new conversation

Table 10.2.1: Add conversation's screen description

Add Content

Title: Bài 1 : Chào hỏi cơ bản - 基本的な挨拶 (*)

Sub-Title: (*)

Hiragana: (*)

Romaji: (*)

Meaning: (*)

File: No file
Chọn tệp Không có tệp nào được chọn (*)

Add

Figure 10.2.2: Add new conversation content

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Title					

2	Sub-title	Text	Text	Y	200	Admin input subtitle with length less than 200 characters
3	Hiragana	Text	Text	Y	5000	Admin input hiragana with length less than 5000 characters
4	Romaji	Text	Text	Y	5000	Admin input conversation by romaji with length less than 5000 characters
5	Meaning	Text	Text	Y	5000	Admin input conversation's meaning with length less than 5000 characters
6	File	Button	Click	Y		Admin choose the file
7	Add	Button	Click	Y		Admin add new content

Table 10.2.2: Add conversation content's screen description

UC0037 - Specification			
Use-case No.	<UC0037>	**Use-case Version**	<1.0>
Use-case Name	Add conversation		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When Administrator wants to add new conversation into database. They have to insert all necessary data of conversation into "Add Conversation" screen

Triggers

      User must click on "Conversation management/ Add New" and input all necessary

information of conversation into the right fields then click on "Add" button

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

New conversation has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Conversation management/Add New"	Display "Add Conversation" screen that contains these elements: - Title - Level - Image
3	Fill conversation information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new conversation data into database
4	Click on "Conversation management/View/Add new content"	Display "Add Content" screen that contains these elements: - Title - Subtitle - Hiragana - Romaji - Meaning - File
5	Fill conversation information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new conversation data into database

Alternative Scenario:

At Step	User	System
3	Click on another link	Do not save new conversation data into database then redirect to selected page
5	Click on another link	Do not save new content conversation data into database then redirect to selected page

Exceptions:

At Step	User	System
3	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields
5	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields

1.6.10.3.3 UC0038: Edit conversation

Edit Conversation

Title: Bài 1 : Chào hỏi cơ bản - 基本的な挨拶 (*)

Level: Giao tiếp ▼ (*)

Image:

Chọn tệp   Không có tệp nào được chọn

Edit

Figure 10.3.1: Edit conversation

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Title	Text	Text	Y	100	Admin input title of conversation with length less than 100 characters
3	Level	Drop-down list	Text	Y		Admin choose the level
4	Image	Button	Click	N		Admin choose the image
5	Edit	Button	Click	Y		Admin add edit conversation

Table 10.3.1: Edit conversation's screen description

Edit Content

Sub-Title: `111111` (*)

Hiragana: `111111111` (*)

Romaji: `111111111` (*)

Meaning: `11111111` (*)

File: N4Choukai121.mp3
Chọn tệp Không có tệp nào được chọn

Edit

Figure 10.3.2: Edit new conversation content

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Sub-title	Text	Text	Y	200	Admin input subtitle with length less than 200 characters
2	Hiragana	Text	Text	Y	5000	Admin input hiragana with length less than 5000 characters
3	Romaji	Text	Text	Y	5000	Admin input conversation by romaji with length less than

						5000 characters
4	Meaning	Text	Text	Y	5000	Admin input conversation's meaning with length less than 5000 characters
5	File	Button	Click	Y		Admin choose the file
6	Edit	Button	Click	Y		Admin edit conversation

Table 10.3.2: Edit conversation content's screen description

UC0038 - Specification			
Use-case No.	<UC0038>	**Use-case Version**	<1.0>
Use-case Name	Edit conversation		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to edit conversation in database which has some new meanings or errors. When edit finished, new meaning will be updated

Triggers

User must click on "Conversation management" then search for the conversation. User click on "Edit" link on corresponding conversation. They edit necessary information of conversation in the right fields then click on "Edit" button.

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

Changed information of conversation has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Conversation management " then search for the conversation that they want to edit	Displays search result as a table
3	Click on "Edit" link corresponding	Display "Edit conversation" screen that contains the information of chosen conversation with these elements: - Title - Level - Image
4	Edit conversation information and click "Edit" button	The system validates the input data and then save data into database
5	Click "View/Edit content"	Display "Edit Conversation Content" screen that contains the information of chosen conversation with these elements: - Sub-title - Hiragana - Romaji - Meaning - File
6	Edit conversation content information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System

4	Edit conversation then click to another link	Do not save edited data then redirect to selected page
6	Edit conversation content then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit conversation to be similar to another existed conversation	
6	Click "Edit" button	The system validates the input data and return Error message and do not save edited data into database

Reference:

UC0036- <Admin> Search conversation

1.6.10.3.4 UC0039: Delete conversation

UC0039 - Specification			
Use-case No.	<UC0039>	**Use-case Version**	<1.0>
Use-case Name	Delete conversation		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to delete conversation in database

Triggers

User must click on "Conversation management" then search for the conversation. User click on "Delete" link on corresponding conversation.

Preconditions:

-   Website is available

-   User have logged into system as an admin.

Post Conditions:

Conversation has been deleted from system database successfully

Main Success Scenario:

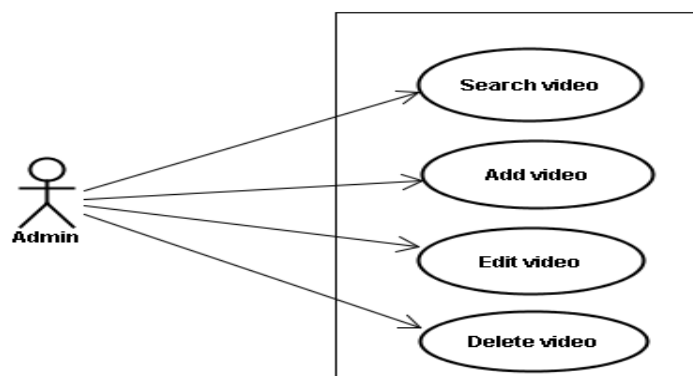| Step	User	System
1	Have logged into system as an admin	
2	Click on "Conversation management " then search for the conversation that they want to delete	Displays search result as a table
3	Click on "Delete" link corresponding with conversation	Remove that conversation in database

Exceptions:

At Step	User	System
3	Click on "Delete" link corresponding with conversation (conversation content is existing)	Return Error message and request user remove conversation content first

Reference:

UC0036 - <Admin> Search conversation

1.6.11   Video Management

1.6.11.1 Use case diagram

1.6.11.2 Screen description

Figure 11: Video management

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Title	Text	Text	Y	100	Admin input title with length less than 100 character
2	Add new	Button	Click	N		Admin add new video into database
3	Edit	Button	Click	N		Admin click edit video
4	Delete	Button	Click	N		Admin click delete video

Table 11.1: Video management's screen description

1.6.11.3 Use case specifications

1.6.11.3.1 UC040: Search video

Figure 11.1: Search video

UC0040 - Specification

Use-case No.	<UC0040>	Use-case Version	<1.0>
Use-case Name	Search video		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

    Admin

Summary:

    When Administrator wants to search video in database. User input title of video then click "Search" button

Triggers

    Click on "Video management" tab, input title of video in the right text box then click "Search" button

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input data in search area

Post Conditions:

    Display detail information of video

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Video management" tab	Displays criteria search screen

3	Fill information of the video that they want to find into these fields then click "Search" button	Displays search result as a table with these elements: - No - Title - Link - Edit - Delete

Alternative Scenario:

At Step	User	System
3	Fill information of the video that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Fill information of the video that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that video cannot be found

1.6.11.3.2 UC041: Add video

Add Video

Title: _____ (*)

Link: _____ (*)

Add

Figure 11.2: Add video

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Title	Text	Text	Y	200	Admin input title with length less than 200 characters
2	Link	Text	Text	Y		Admin input hyperlink
3	Add	Button	Click	Y		Admin add new video
4	Reset	Button	Click	N		Admin reset information

Table 11.2: Add video's screen description

UC0041 - Specification			
Use-case No.	<UC0041>	**Use-case Version**	<1.0>
Use-case Name	Add video		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

     Admin

Summary:

     When Administrator wants to add new video into database. They have to insert all necessary data of video into "Add Video" screen

Triggers

     User must click on "Video management/ Add New" tab and input all necessary information of video into the right fields then click on "Add" button

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

New video has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Video management/Add New" tab	Display "Add Video" screen that contains these elements: - Title - Link
3	Fill video information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new video data into database

Alternative Scenario:

At Step	User	System
3	Click on another link	Do not save new video data into database then redirect to selected page

Exceptions:

At Step	User	System
3	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields

1.6.11.3.3 UC042: Edit video

Figure 11.3: Edit video

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Title	Text	Text	Y	200	Admin input title with length less than 200 characters
2	Link	Text	Text	Y	1000	Admin input hyperlink
3	Add	Button	Click	Y		Admin edit video

Table 11.3: Edit video's screen description

UC0042 - Specification			
Use-case No.	<UC0042>	**Use-case Version**	<1.0>
Use-case Name	Edit video		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >
Actor: Admin **Summary:** When Administrator wants to edit video in database which has some new meanings or errors. When edit finished, new meaning will be updated			

Triggers

　　　　User must click on "Video management" then search for the video. User click on "Edit" link corresponding with video. User edits necessary information of video in the right fields then click on "Edit" button.

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

　　Changed information of video has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Video management " then search for the video that they want to edit	Displays search result as a table
3	Click on "Edit" link corresponding	Display "Edit video" screen that contains the information of chosen video with these elements: - Title - Link
4	Edit video information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
4	Edit video then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit video to be similar to another existed video and click "Edit" button	The system validates the input data and return Error message and do not save edited data into database

Reference:

UC0040- <Admin> Search video

1.6.11.3.4 UC043: Delete video

UC0043 - Specification

Use-case No.	<UC0043>	**Use-case Version**	<1.0>
Use-case Name	Delete video		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

    Admin

Summary:

    When Administrator wants to delete video in database

Triggers

    User must click on "Video management" then search for the video. User click on "Delete" link on corresponding video.

Preconditions:

- Website is available

- User have logged into system as an admin.

Post Conditions:

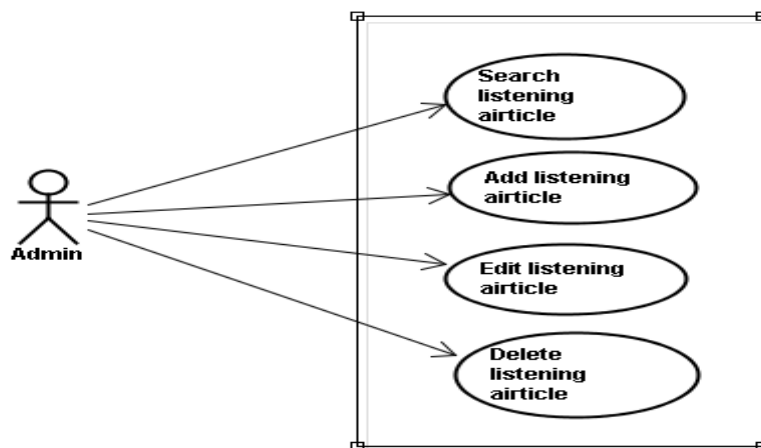Video has been deleted from system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Video management" then search for the video that they want to delete	Displays search result as a table
3	Click on "Delete" link corresponding with conversation	Remove that video in database

Reference:

UC0040 - <Admin> Search video

1.6.12   Training Listening Management

1.6.12.1 Use case diagram

1.6.12.2 Screen description

Figure 12: Listening article management

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Level	Drop-down list	Click	Y		Admin choose the level
2	Search	Button	Click	Y		Admin click to search
3	Addnew	Button	Click	N		Admin add new listening into database
4	ViewDetail	Hyperlink	Click	N		Admin click to view details of listening
5	Edit	Button	Click	N		Admin click edit listening article
6	Delete	Button	Click	N		Admin click delete article

Table 12.1: Conversation management's screen description

View Detail Listening

Title : Choukai(これで大丈夫)_N2&N3_絵のある問題_P1

Tình huống :

女の人の息子がかいた絵はどれですか。

a)キーワード下の大きい四角、この三角は。本当は丸いんだけどね。

b)本当は丸いんだけどね.

c)マスクのつもりなのよ。

d)髪のリボンがかわいいでしょ.

Dịch&Đáp án

Edit Delete

~~~~~~

1.6.12.3 Use case specifications

1.6.12.3.1 UC044: Search listening article

Level: N4N5 ▼ Search   Add Listening

Training Listening List

| Total record : 5

No.	Title	Level	Action
1	Choukai(これで大丈夫)_N4&N5_絵のある問題_P1	N4N5	ViewDetail | Edit | Delete
2	Choukai(これで大丈夫)_N4&N5_絵のある問題_P2	N4N5	ViewDetail | Edit | Delete
3	Choukai(これで大丈夫)_N4&N5_絵のある問題_P3	N4N5	ViewDetail | Edit | Delete
4	Choukai(これで大丈夫)_N4&N5_絵のある問題_P4	N4N5	ViewDetail | Edit | Delete
5	Choukai(これで大丈夫)_N4&N5_絵のある問題_P5	N4N5	ViewDetail | Edit | Delete

Figure 12.1: Search listening article

UC0044 - Specification			
Use-case No.	<UC0044>	**Use-case Version**	<1.0>
Use-case Name	Search listening article		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator wants to search listening article in database. User choose level of listening level then click "Search" button

Triggers

Click on "Listening practice management" tab, choose level in the right text box then click "Search" button

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input data in search area

Post Conditions:

Display detail information of listening article

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Listening article management" tab	Displays criteria search screen
3	Choose level of the listening article that they want to find then click "Search" button	Displays search result as a table with these elements: - No - Title - Level - View details - Edit - Delete

Alternative Scenario:

At Step	User	System
3	Choose level of the listening article that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Choose level of the listening article that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that listening article cannot be found

1.6.12.3.2 UC045: Add listening article

Add Traininglistening

Title: _____ (*)

Level: [▼] (*)

[Add]

Figure 12.2: Add listening

No	Field name	Type	Require	Mandatory	Max-Length h	Description
1	Title	Text	Text	Y	500	Admin input id with length less than 500 characters
2	Level	Drop-down list	Choose	Y		Admin choose level
3	Add	Button	Click	Y		Admin add new listening

Table 12.2: Add listening's screen description

Add Sourcefile

Title: Choukai(これで大丈夫)_N4&N5_※   (*)

Sourcefile: No file
      Chọn tệp   Không có tệp nào được chọn   (*)

Question: (*)

Script: (*)

Meaning: (*)

Answer: (*)

Add

Figure 12.2.1: Add listening source file

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Source_file	Button	Click	Y		Admin choose the file
2	Question	Text	Text	Y	5000	Admin input question of listening with length less than 5000 characters
3	Script	Text	Text	Y	5000	Admin input script of listening with length less than 5000 characters

4	Meaning	Text	Text	Y	5000	Admin input meaning of listening with length less than 5000 characters
5	Answer	Text	Text	Y	5000	Admin input answer of listening with length less than 5000 characters
6	Add	Button	Click	Y		Admin add source file

Table 12.2.1: Add listening source file's screen description

UC0045 - Specification			
Use-case No.	<UC0045>	**Use-case Version**	<1.0>
Use-case Name	Add listening article		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When Administrator wants to add new listening article into database. They have to insert all necessary data of listening article into "Add new listening" screen

Triggers

      User must click on "Listening management/ Add New" and input all necessary information of listening article into the right fields then click on "Add" button

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

New listening article has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Listening article management/Add New"	Display "Add New Listening" screen that contains these elements: - Title - Level
3	Fill listening article information into all necessary or mandatory fields click "Add" button	The system validates the input data and then save new listening article data into database
4	Click on "Listening article management/View details/ Add source file"	Display "Add source file" screen that contains these elements: - Title - Source file - Question - Script - Meaning - Answer
5	Fill listening article information into all necessary or mandatory fields click "Add" button	The system validates the input data and then save new listening article data into database

Alternative Scenario:

At Step	User	System
3	Click on another link	Do not save new listening article data into database then redirect to selected page
5	Click on another link	Do not save new source file data into database then redirect to selected page

Exceptions:

At Step	User	System
3	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields
5	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields

1.6.12.3.3 UC046: Edit listening article

Edit TrainingListening

lis_title: Choukai(これで大丈夫)_N4&N5_絵のあ (*)

lis_level: N4N5 ▾ (*)

Edit

Figure 12.3: Edit listening

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Title	Text	Text	Y	500	Admin input id with length less than 500 characters
2	Level	Drop-down list	Choose	Y		Admin choose level
3	Edit	Button	Click	Y		Admin edit listening

Table 12.3: Edit listening 's screen description

Edit Content

Figure 12.3.1: Edit listening source file

No	Field name	Type	Require	Manda tory	Max-Length	Description
1	Source_file	Button	Click	Y		Admin choose the file
2	Question	Text	Text	Y	5000	Admin input question of listening with length less than 5000 characters
3	Script	Text	Text	Y	5000	Admin input script of listening with length less than 5000 characters
4	Meaning	Text	Text	Y	5000	Admin input meaning of

						listening with length less than 5000 characters
5	Answer	Text	Text	Y	5000	Admin input answer of listening with length less than 5000 characters
6	Edit	Button	Click	Y		Admin edit source file

Table 12.3.1: Edit listening source file's screen description

UC0046 - Specification			
Use-case No.	<UC0046>	**Use-case Version**	<1.0>
Use-case Name	Edit listening article		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

     Admin

Summary:

   When Administrator wants to edit listening article in database which has some new meanings or errors. When edit finished, new meaning will be updated

Triggers

     User must click on "Listening management" then search for the listening article. User click on "Edit" link corresponding with listening article. They edit necessary information of listening article in the right fields then click on "Edit" button.

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

Changed information of listening article has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Training listening" then search for the listening article that they want to edit	Displays search result as a table
3	Click on "Edit" link corresponding	Display "Edit listening" screen that contains the information of chosen listening article with these elements: - Title - Level
4	Edit listening article information and click "Edit" button	The system validates the input data and then save data into database
5	Click on "View details/ Edit" link corresponding	Display "Edit listening" screen that contains the information of chosen listening article with these elements: - File - Question - Script - Meaning - Answer
6	Edit listening article information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
4	Edit listening article then click to another link	Do not save edited data then redirect to selected page

6	Edit listening article then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit listening article to be similar to another existed listening article click "Edit" button	The system validates the input data and return Error message and do not save edited data into database
6	Edit listening article to be similar to another existed listening article click "Edit" button	The system validates the input data and return Error message and do not save edited data into database

Reference:

UC0044- <Admin> Search listening article

1.6.12.3.4 UC047: Delete listening article

UC0047 - Specification			
Use-case No.	<UC0047>	**Use-case Version**	<1.0>
Use-case Name	Delete listening article		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When Administrator want to delete listening article inn database

Triggers

      User must click on "Listening article management" then search for the listening article. User click on "Delete" link corresponding with listening article.

Preconditions:

- Website is available

- User have logged into system as an admin.

Post Conditions:

      Listening article has been deleted from system database successfully
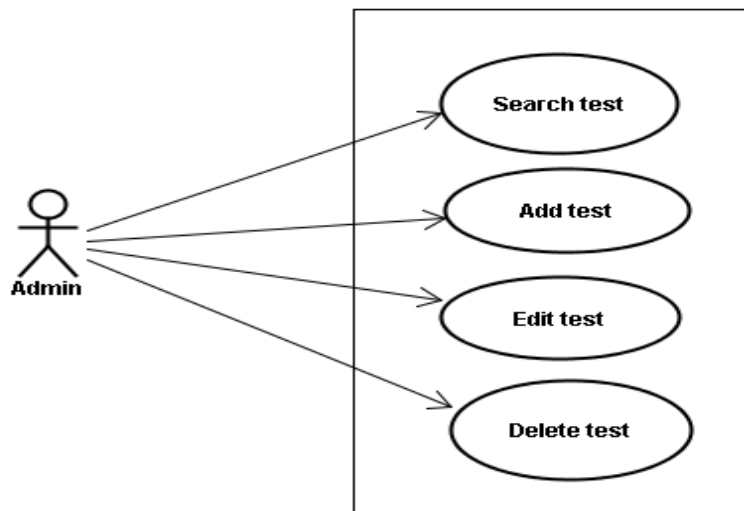
Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Listening article management " then search for the listening article that they want to delete	Displays search result as a table
3	Click on "Delete" link corresponding	Remove that listening article in database

Reference:

      UC0044 - <Admin> Search listening article

1.6.13   Test management

1.6.13.1 Use case diagram

1.6.13.2 Screen description

Figure 13: Doing test management

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Level	Drop-down list	Click	N		Admin choose the level
2	Search	Button	Click	N		Admin click to search
3	List	Hyperlink	Click	N		Admin click to view details
4	Edit	Button	Click	N		Admin click edit

						test
5	Delete	Button	Click	N		Admin click delete test

Table 13.1: Doing test management's screen description

1.6.13.3 Use case specifications

1.6.13.3.1 UC048: Search test

Figure 13.1: Search test

UC0048 - Specification			
Use-case No.	<UC0048>	**Use-case Version**	<1.0>
Use-case Name	Search test		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator wants to search test article in database. User choose test level then click "Search" button.

Triggers

Click on "Test management" tab, choose level in the right text box then click "Search" button

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input data in search area

Post Conditions:

Display detail information of that test

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Test management" tab	Displays criteria search screen
3	Choose level of the test that they want to find then click "Search" button	Displays search result as a table with these elements: - No - Title - Category - Level - Content - Edit - Delete

Alternative Scenario:

At Step	User	System
3	Choose level of the test that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Choose level of the test that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that test cannot be found

1.6.13.3.2 UC049: Add test

Add New Test

Figure 13.2: Add test

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	ID	Text	Text	Y	100	Admin input id with length less than 100

					characters
2	Category	Drop-down list	Click	Y		Admin choose category
3	Level	Drop-down list	Click	Y		Admin choose level of test
4	Test content	Text	Text	Y	5000	Admin input content with length less than 5000 characters
5	Add	Button	Click	Y		Admin click to add test

Table 13.2: Add test's screen description

Figure 13.2.1: Add question

No	Field name	Type	Require	Manda tory	Max-Length	Description
1	Question	Text	Text	Y	200	Admin input question with length less than 200 characters
2	Answer 1	Text	Text	Y	200	Admin input answer 1

						with length less than 200 characters
3	Correct answer 1	Drop-down list	Click	Y		Admin choose correct answer
4	Answer 2	Text	Text	Y	200	Admin input answer 2 with length less than 200 characters
5	Correct answer 2	Drop-down list	Click	Y		Admin choose correct answer
6	Answer 3	Text	Text	Y	200	Admin input answer 3 with length less than 200 characters
7	Correct answer 3	Drop-down list	Click	Y		Admin choose correct answer
8	Answer 4	Text	Text	Y	200	Admin input answer 4 with length less than 200 characters
9	Correct answer 4	Drop-down list	Click	Y		Admin choose correct answer
10	Add	Button	Click	Y		Admin click to add

Table 13.2.1: Add question's screen description

UC0049 - Specification			
Use-case No.	<UC0049>	**Use-case Version**	<1.0>
Use-case Name	Add test		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to add new test into database. They have to insert all necessary data of test into "Add new test" screen

Triggers

User must click on "Test management/ Add New" and input all necessary information of test into the right fields then click on "Add" button

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

New test has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Test management/Add New"	Display "Add New Test" screen that contains these elements: - Title - Category - Level - Content
3	Fill test information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new test data into database
4	Click on "Title link/Add new question"	Display "Add New Question" screen that contains these elements: - Title

		- Question
		- Answer 1
		- Correct answer 1
		- Answer 2
		- Correct answer 2
		- Answer 3
		- Correct answer 3
		- Answer 4
		- Correct answer 4
5	Fill test information into all necessary or mandatory fields and click "Add" button	The system validates the input data and then save new test data into database

Alternative Scenario:

At Step	User	System
3	Click on another link	Do not save new test data into database then redirect to selected page
5	Click on another link	Do not save new question data into database then redirect to selected page

Exceptions:

At Step	User	System
3	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields
5	Do not fill full information into fields then click "Add" button	Return Error message and request user input data into all fields

1.6.13.3.3 UC050: Edit test

Edit Test

Title: N4_Bunpou_001   (*)

Category: Grammar ▼   (*)

Level   N4 ▼   (*)

Content :

      [Edit]

Figure 13.3: Edit test

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	ID	Text	Text	Y	100	Admin input id with length less than 100 characters
2	Category	Drop-down list	Click	Y		Admin choose category
3	Level	Drop-down list	Click	Y		Admin choose level of test
4	Test content	Text	Text	Y	5000	Admin input content with length less than 5000 characters
5	Edit	Button	Click	Y		Admin click to edit test

Table 13.3: Edit test's screen description

Figure 13.3.1: Edit question

No	Field name	Type	Require	Manda tory	Max-Length	Description
1	Question	Text	Text	Y	200	Admin input question with length less than 200 characters
2	Answer 1	Text	Text	Y	200	Admin input answer 1 with length less than 200 characters
3	Correct answer 1	Drop-down list	Click	Y		Admin choose correct answer

4	Answer 2	Text	Text	Y	200	Admin input answer 2 with length less than 200 characters
5	Correct answer 2	Drop-down list	Click	Y		Admin choose correct answer
6	Answer 3	Text	Text	Y	200	Admin input answer 3 with length less than 200 characters
7	Correct answer 3	Drop-down list	Click	Y		Admin choose correct answer
8	Answer 4	Text	Text	Y	200	Admin input answer 4 with length less than 200 characters
9	Correct answer 4	Drop-down list	Click	Y		Admin choose correct answer
10	Edit	Button	Click	Y		Admin click to edit

Table 13.3.1: Edit question's screen description

UC0050 - Specification			
Use-case No.	<UC0050>	**Use-case Version**	<1.0>
Use-case Name	Edit test		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

   When Administrator want to edit test in database that has some new meanings or errors. When edit finished, new meaning will be updated
Triggers

      User must click on "Test management" then search for the test. User click on "Edit" link on corresponding test. User edits necessary information of test in the right fields

then click on "Edit" button.

Preconditions:

- Website is available

- User have logged into system as an admin.

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

Changed information of test has been saved into system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Test management " then search for the test that they want to edit	Displays search result as a table
3	Click on "Edit" link corresponding	Display "Edit Test" screen that contains the information of chosen test with these elements: - Title - Category - Level - Content
4	Edit test information and click "Edit" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
4	Edit test then click to another link	Do not save edited data then redirect to selected page

Exceptions:

At Step	User	System
4	Edit test to be similar to another existed test and click "Edit" button	The system validates the input data and return Error message and do not save edited data into database

Reference:

UC0048- <Admin> Search test

1.6.13.3.4 UC051: Delete test

UC0051 - Specification			
Use-case No.	<UC0051>	**Use-case Version**	<1.0>
Use-case Name	Delete test		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to delete test in database

Triggers

User must click on "Test management" then search for the test. User click on "Delete" link corresponding with test.

Preconditions:

- Website is available

- User have logged into system as an admin.

Post Conditions:

Test has been deleted from system database successfully
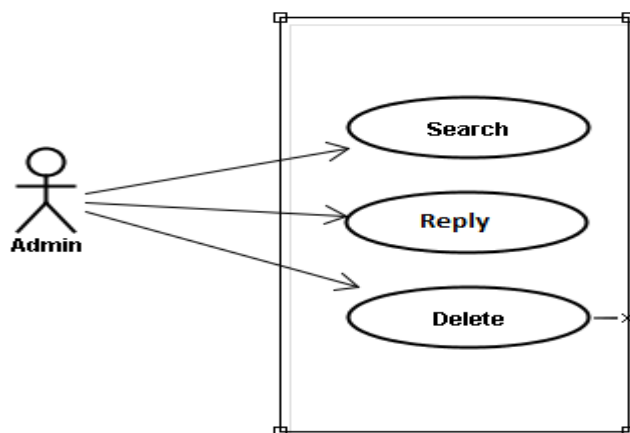
Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Test management " then search for the test that they want to delete	Displays search result as a table
3	Click on "Delete" link corresponding	Remove that test in database

Reference:

UC0048 - <Admin> Search test

1.6.14   Contact management

1.6.14.1   Use case diagram

1.6.14.2 Use case specifications

1.6.14.2.1 UC052: Search question

Figure 14.1: Search contact management's screen

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Type	Drop-down list	Click	N		Admin choose the typ
2	Search	Button	Click	N		Admin click to search
3	Reply	Button	Click	N		Admin click reply the question
4	Delete	Button	Click	N		Admin click delete question
5	List reply	Button	Click	N		Admin click to view list reply

Table 14.1: Search contact management's screen description

UC0055 – Specification			
Use-case No.	<UC0055>	Use-case Version	<1.0>
Use-case Name	Search question		
Author	Minh PT		

Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When administrator wants to search question from member. User choose data then click "Search" button.

Triggers

Click on "Contact Management " tab, choose type of data in the right text box then click "Search" button

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input data in search area

Post Conditions:

Display detail information of question

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Contact Management " tab	Displays criteria search screen
3	Choose type of contact that they want to find then click "Search" button	Displays search result as a table with these elements: - No - Email - Content - Type

		- Status
		- Reply
		- Delete

Alternative Scenario:

At Step	User	System
3	Fill information that they want to find into these fields then click on another link	Switch to selected page

Exceptions:

At Step	User	System
3	Fill information that they want to find (that do not exited in database) into these fields then click "Search" button	Return Error message to inform that cannot be found

1.6.14.2.2 UC053: Reply question

Reply Contact

ID:	1
Email:	datptse02336@fpt.du.vn
Content:	Tại sao không đăng ký được tài khoản mới?
Reply:	(*)

Reply

Figure 16.2: Reply contact

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Email					Email of admin's account
2	Content					Question
3	Reply	Text	Text	Y		Admin input reply of question
4	Reply	Button	Click	N		Admin click send reply question

Table 16.2: Reply contact's screen description

UC0056 - Specification			
Use-case No.	<UC0056>	**Use-case Version**	<1.0>
Use-case Name	Search question		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

      Admin

Summary:

      When administrator wants to reply question from member.

Triggers

      Click on "Opinion/Q&A Management " tab, User search question then click "Reply" link corresponding

Preconditions:

- Website is available

- User has to login as Administrator

- User has to input answer

Post Conditions:

      Answer be sent to user

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Opinion/Q&A Management " tab	Displays criteria search screen
3	Click "Reply" link corresponding	Displays Reply screen with these elements: - Email - Content - Reply
4	Input the answer and click "Reply" button	The answer of question will be sent to member

Alternative Scenario:

At Step	User	System
4	Input answer then click on another link	Switch to selected page

Exceptions:

At Step	User	System

Reference:

UC0052 - < Opinion/Q&A Management > Search question

1.6.14.2.3 UC054: Delete question

UC0054 - Specification			
Use-case No.	<UC0051>	**Use-case Version**	<1.0>
Use-case Name	Delete question		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

Admin

Summary:

When Administrator want to delete question

Triggers

User must click on "Contact management" then search for the test. User click on "Delete" link corresponding with test.

Preconditions:

- Website is available

- User have logged into system as an admin.

Post Conditions:

Question has been deleted from system database successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Contact management " then search for the test that they want to delete	Displays search result as a table
3	Click on "Delete" link corresponding	Remove that test in database

Reference:

UC0052 - <Admin> Search contact

1.6.15 Contributed content management

1.6.15.1 Use case diagram
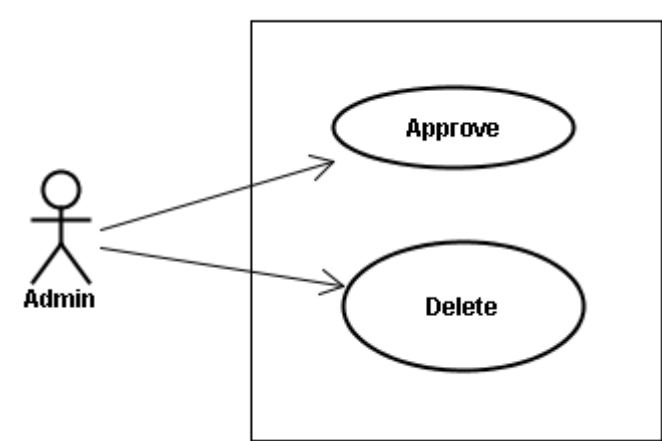
1.6.15.2 Use case specifications

1.6.15.2.1 UC055 <Contact's content Management>: Approve contribute content
Approve contribute content screen:

1. Approve contribute kanji screen:

Figure 15.1: Approved kanji's screen

No	Field name	File name in Vietnamese	Type	Require	Mandatory	Max-Length	Description
1	Kanji	Kanji	Text	Text	Y	10	Admin input kanji with length less than 10 characters
2	HanViet	Hán Việt	Text	Text	N	50	Admin input to the field with length less than 50 characters
3	Onyomi	Âm Onyomi	Text	Text	Y	100	Admin input onyomi with length less than 100 characters
4	Kunyomi	Âm kunyomi	Text	Text	Y	100	Admin input kunyomi with length less than 100 characters
5	Meaning	Nghĩa	Text	Text	Y	200	Admin input meaning with length less than 200 characters
6	Level	Level	Drop-down list	Click	Y		Admin choose the level
7	Reading_id		Text	Text	N	20	Admin input reading id with length less than 20 characters
8	Approved	Approved	Button	Click	Y		Admin click to approved contribute

Table 15.1: Approved kanji's screen description

2. Approve contribute grammar screen

Figure 15.2: Approved grammar screen

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	200	Admin input hiragana with length less than 200 characters
2	Romaji	Text	Text	Y	200	Admin input romaji with length less than 200 characters
3	Meaning	Text	Text	Y	200	Admin input meaning with length less than 200 characters

4	Level	Drop-down list	Click	Y		Admin choose the level
5	Use	Text	Text	Y	1000	Admin input how to use with length less than 1000 characters
6	Lesson	Text	Text	N	20	Admin input lesson with length less than 20 characters
7	Approved	Button	Click	Y		Admin click to approved contribute

Table 15.2: Approved grammar's screen description

3. <u>Approve contribute vocabulary screen:</u>

Approve Vocabulary

Hiragana: ふぐあい (*)

Romaji: fuguai (*)

Meaning: sự bất tiện; lỗi (*)

Category: Noun ▾ (*)

Kanji: 不具合

Specialized: IT

Approved

Table 15.3: Approved vocabulary

No	Field name	Type	Require	Mandatory	Max-Length	Description
1	Hiragana	Text	Text	Y	200	Admin input hiragana with length less than 200 characters

2	Romaji	Text	Text	N	200	Admin input romaji with length less than 200 characters
3	Meaning	Text	Text	Y	500	Admin input meaning with length less than 500 characters
4	Category	Drop-down list	Click	Y	10	Admin choose category
5	Kanji	Text	Text	N	10	Admin input kanji with length less than 10 characters
6	Specialized	Text	Text	N	200	Admin input specialized with length less than 200 characters
7	Approved	Button	Click	Y		Admin click to approved contribute

Table 15.3: Approved vocabulary's screen description

UC0053 - Specification			
Use-case No.	<UC0053>	**Use-case Version**	<1.0>
Use-case Name	Approve contribute content		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >
Actor: Admin			
Summary: When administrator wants to approve contribute content include kanji, grammar, vocabulary in database. User click on link corresponding with kanji, grammar, vocabulary			
Triggers			

Click on "Contribute Kanji Management" or "Contribute Grammar Management" or "Contribute Vocabulary Management" tab, input data in the right text box then click "Search" button. Click on link corresponding with kanji, grammar, vocabulary which want to approve to database

Preconditions:

- Website is available

- User has to login as Administrator

- All mandatory fields have been filled

- All input data must be valid and have not existed in system

Post Conditions:

Display detail information of contribute content

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Kanji Management/List contribute kanji" or "Grammar Management/List contribute grammar" or "Vocabulary/List contribute vocabulary" tab	Displays criteria search screen
3	Fill information that they want to find into text box then click "Search" button	Displays search result
4	Click "Approved" link corresponding want to update into database	Display Approve kanji screen with these elements: 1. Kanji - Kanji - Âm hán - Âm Onyomi - Âm Kunyoumi - Meaning - level - Reading_id

		- Approved
		2. Grammar: - Hiragana - Romaji - Level - Meaning - Use - Lesson - Approved 3. Vocabulary: - Hiragana - Romaji - Meaning - Category - Kanji - Specialized - Approved
5	Edit or add more information and Click "Approved" button	The system validates the input data and then save data into database

Alternative Scenario:

At Step	User	System
5	Fill information then click on another link	Switch to selected page

Exceptions:

At Step	User	System
5	Fill information that exited in database into fields then click "Approved" button	Return Error message to inform that data is exiting in database

Reference:

1.6.15.2.2 UC0056: < Contact's content Management > Delete contribute content

UC0054 - Specification			
Use-case No.	<UC0054>	**Use-case Version**	<1.0>
Use-case Name	Delete contribute content		
Author	Minh PT		
Date	09/06/2014	**Priority**	<High >

Actor:

> Admin

Summary:

> When Administrator wants to delete a contribute content. Admin will search that content then click "Delete" link corresponding.

Triggers

> User must click on "Contribute Kanji Management" or "Contribute Grammar Management" or "Contribute Vocabulary Management" tab then search for the contribute content. User click on "Delete" link corresponding with kanji, grammar, vocabulary which want to delete.

Preconditions:

- Website is available

- User has to login as Administrator

Post Conditions:

> Kanji, grammar, vocabulary have been deleted from list successfully

Main Success Scenario:

Step	User	System
1	Have logged into system as an admin	
2	Click on "Contribute Kanji Management " or "Contribute Grammar Management " or "Contribute Vocabulary	Displays search result as a table

	Management " tab	
3	Click on "Delete" link corresponding with kanji, grammar, vocabulary	Remove that kanji, grammar, vocabulary from list

Reference:

1.7 Non-functional Specification

1.7.1 Reliability

- Mean time between failures: The mean time between each failure is expected to be about 480 hours of using.
- Mean time to repair: Immediately when Administrator finds out problem or website is attacked/hacked by someone. Average 1 day.
- The maximum bugs per function are 2 bugs/a function when user uses software within 2 months. The average number of bugs in the software during system testing is about to be around 1 bugs/1000 LOC.
- The database must be backed up daily and can be recovered if necessary

1.7.2 Performance Requirements

1.7.2.1 Availability

The application must be available 95% of time. Users can access to it everywhere from their Web browser with internet connection.

1.7.2.2 Response time

In term of response time, waiting time of processing will be 2 to 5 seconds; time to process any functions will not exceed 7 seconds.

1.7.3   User Interface

● **Color:** The background color will be white and blue in default. The color of text will be black or white.

● **Text:** All texts bases on Helvetica style and title or label will use upper case with the first letter.

1.7.4   Maintainability

- **Coding standards and naming conventions**
    - Output of the project must include coding standards and naming conventions documentations. Implementation code must be easy to maintain.
    - All code must be clearly commented, including class, method documentations.
    - If some components are reused, the documentations of those components must also be included.
- **Design**
    - The design of the system must be loosely coupled that chances on some module will not affect others.
- **Logging**
    - All the errors should be logged, supporting for bug fixing and maintenance.
    - All strange or sensitive situations should also be logged.

1.7.5   Usability

Usability Requirements support the following from the perspective of its primary users:

● **Efficiency of use:** user can complete each function in less than 12 actions

● **Intuitiveness:** all help/error messages are simple to understand; user can know exactly how to do each feature after one time using it.

1.7.6   Security Requirements

In order to avoid unwanted access by strangers, the security implemented in various ways:
- **User layer**: Each function must be distributed system access and manipulate the individual parts. To edit information, user must declare their username and password before the operation. Functions will be show after users login dependencies user's role and permission of each user.
- **Manage Data Layer**: Only Administrator can modify database system.
- **Stored Data**: All data about information of user, tested, etc.. will be saved in My SQL Server, and be easy for data classification or backup..

1.7.7   Hardware/Software Requirements

● **Hardware requirement:** PC/Laptop (window 7, window 8, window XP…)
● **Software requirements:** Web browser (Chrome, Firefox, IE…) with internet connection