Carrier Trading Center

Report #3 – Software Requirements Specifications

Carrier Trading Center		
Group Members	Lê Văn Dương	SE03290
	Vũ Văn Quyết	SE03344
	Đặng Lê Tuấn	SE03807
	Trịnh Đình Quyết	SE03159
	Lê Gia Hoàng	SE03200
Supervisor	Mr. Nguyễn Văn Sang	
Project code	CTC	

- Hanoi, 02/2017-

SIGNATURE PAGE

AUTHOR: Trịnh Đình Quyết   15/02/2017

Team member

REVIEWERS: Lê Văn Dương   20/02/2017

Project manager

APPROVAL: Nguyễn Văn Sang   --/--/2017

Supervisor

SIGNATURE PAGE

Record of change
*A - Added M - Modified D – Deleted

Effective Date	Changed Item	A,M,D	Change Description	Reason for Change	Rev. Number
15/02/2017	Create Software Requirements Specifications	A	Create Software Requirements Specifications	First version	1.0

Effective Date	Changed Item	A,M,D	Change Description	Reason for Change	Rev. Number

Table Contents

1. INTRODUCTION

1.1. Purpose

This is chapter outlines functional and non-functional requirements of our website. It also provides some format constraints in common requirements and project success criteria. All members will work (design, code, test) based on the information provided in this chapter.

1.2. Definitions and Acronyms

Acronym	Definition	Note
CTC	Carrier trading center	
SRS	Software Requirements Specifications	
Guest	CTC's user who did not register	
GWN	CTC's user who registered and they are goods owner	
CRE	CTC's user who registered and they are carrier	
Admin	Who manage CTC system	
User	Who use CTC system	

Table 1.1: Definition and Acronyms

1.3. System Purpose

Today we have a lot of ideas to make life better. With the development of information technology, it is easier to implement that idea. The CTC system creates a convenient auction environment where owners and owners can find each other easily and at the most affordable prices. CTC system helps to increase profit for customers and help society develop better. The CTC system is for everyone, everyone can use CTC as a tool as long as they follow our rules.
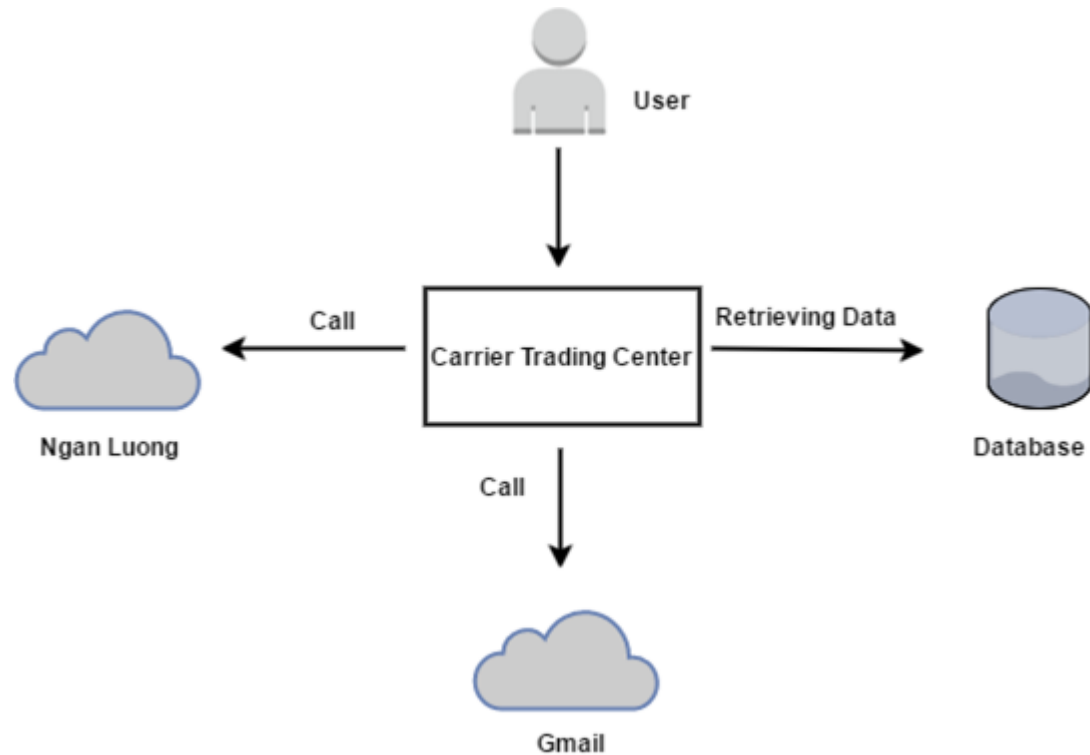
2. OVERALL DESCRIPTION

2.1. System overview

Figure 2-1: System Overview

2.2. Product Features

UC No.	Group Of Functions	Function	Glossary
Guest			
UC001	**Register**	Register a new account	
UC002	**Bill of lading list**	Search bill of lading	
UC003		View bill of lading list	
UC004	**Price list**	View price	
UC005		Reference price	
Admin			
UC006	**Bill of lading list**	View bill of lading detail	
UC007		Search bill of lading	
UC008		View bill of lading list	
UC009		View carrier auction success	
UC010		Summary all bill of lading	
UC011		View carrier list who are auctioning	
UC012	**Manage user**	Search user	

UC013		View user profile	
UC014		Edit user profile	
UC015		Add company	
UC016		Account recharge for user	
UC017		Active user	
UC018		Deactivate user	
UC019		Edit company information	
UC020		View user list	
UC021	**Price list**	View price list	
UC022		Add a new price	
UC023		View price table history	
UC024		Edit price list	
UC025		Reference price	
UC026		Edit reference price	
UC027	**Transaction history**	Transaction History	
UC028	**Login**	Login	
UC029	**Logout**	Logout	
UC030	**Manage report**	Search report	
UC031		Response report	
UC032		View report list	
UC033	**Manage profile**	View profile	
UC034		Edit profile	
UC035		Forget password	
UC036		Change password	
Goods owner			
UC037	**Bill of lading list**	View bill of lading list	
UC038		View bill of lading detail	
UC039		Search bill of lading	
UC040		View carrier auction success	
UC041		Confirm complete transaction	
UC042		Post a new bill of lading	
UC043		Cancel bill of lading	
UC044	**Manage profile**	Edit profile	
UC045		View profile	
UC046		Change password	
UC047		Forget password	
UC048		Add company	
UC049	**Manage report**	Send report	
UC050		Search report	
UC051		Cancel report	
UC052		View report list	
UC053	**Price list**	Reference price	
UC054		View price list	
UC055	**Account recharge**	Account recharge	
UC056	**Transaction history**	Transaction history	
UC057	**Login**	Login	
UC058	**Logout**	Logout	

UC059	**Connect to carrier**	Connect to carrier	
	Carrier		
UC060	**Bill of lading list**	View bill of lading list	
UC061		Confirm complete transaction	
UC062		View bill of lading detail	
UC063		Auction bill of lading	
UC064		Search bill of lading	
UC065		Cancel bill of lading	
UC066	**Manage profile**	Edit profile	
UC067		View profile	
UC068		Change password	
UC069		Forget password	
UC070		Add company	
UC071	**Manage report**	View report list	
UC072		Search report	
UC073		Cancel report	
UC074		Send report	
UC075	**Price list**	Reference price	
UC076		View pricing list	
UC077	**Transaction history**	Transaction history	
UC078	**Login**	Login	
UC079	**Logout**	Logout	
UC080	**Connect to goods owner**	Connect to goods owner	
UC081	**Account recharge**	Account recharge	

Table 2-1: List of use case diagram

2.2.1. User Characteristics

The Carrier Trading Center's transport floor is aimed at everyone who wants to use the service. Just follow the rules and steps have been programmed. Those with goods wanting to be transported and those with vehicles wanting to transport goods and improve economic productivity.

Carrier Trading Center has 4 user groups:

- **Guest:** Everyone who does not have account and accessed into the websites.
- **Goods Owner:** Everyone who has account and accessed into Carrier Trading Center Website to register bill of lading.
- **Carrier:** Everyone who has account and accessed into Carrier Trading Center Website to auction bill of lading.
- **Administrator:** A person who has the highest permission level and is responsible for managing the website

2.2.2. User Documentation

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

Table 2-2: User Documentation

2.2.3. 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, task meets the deadline.
- Team member do not conflict in the work process.

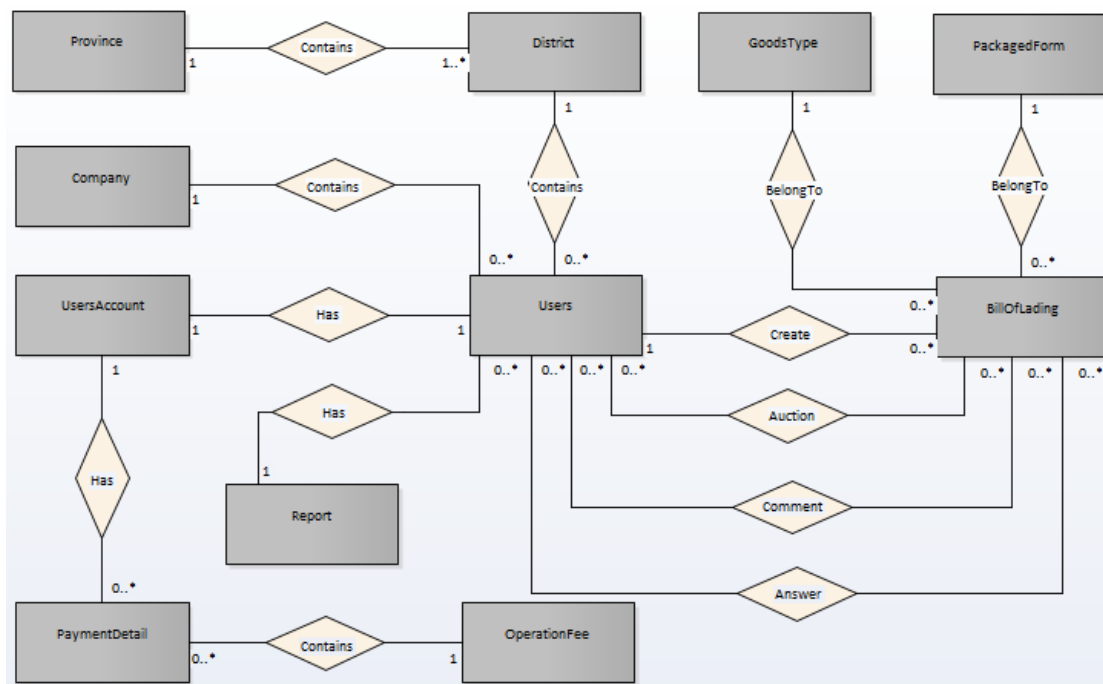## 2.3. Entity Relation Model

2.3.1. Entity-Relationship Diagram

Figure 2-3: Entity Relationship Diagram

2.3.2. Entity Detail

2.3.2.1. Table answer comment

NO.	Attribute	Type	Mandatory	Description
1	Content	Text	Yes	Content of comment
2	Created User	Text	Yes	Who create comment
3	Created	Text	NO	Create date

Table 2-3: table answer comment

2.3.2.2. Table bill of lading

NO	Attribute	Type	Mandatory	Description
1	Goods Image	Text	NO	Image of goods
2	Weight	Number	YES	Number of goods
3	Volume	Number	YES	Volume of goods
4	Quantity	Number	NO	Quality of goods
5	Length	Number	YES	Length of goods
6	Width	Number	YES	Width of goods
7	Height	Number	YES	Height of goods
8	Description	Text	NO	Goods description
9	Sender	Text	NO	Name of sender
10	Sender Phone Number	Text	NO	Phone number of sender
11	Departure Address	Text	YES	Departure Address
12	Departure Date	Text	YES	Departure Date
13	Receiver	Text	NO	Name of receiver
14	Receiver Phone Number	Text	NO	Phone number of receiver
15	Arrival Address	Text	NO	Address of arrival
16	Arrival Date	Text	YES	Date of arrival
17	Distance	Number	YES	Distance of receiver and sender
18	Price	Number	Yes	Bid price
19	Status	Number	Yes	Status of bill of lading
20	Created User	Text	NO	Name of user create bill of lading
21	Created	Text	Yes	Create date
22	Modified	Text	Yes	Date of modified

Table 2-4: Table bill of lading

2.3.2.3. Table carrierauction

NO	Attribute	Type	Mandatory	Description
1	Carrier	Text	NO	Who have account to carry goods
2	Auction Date	Text	YES	Date of auction
3	Modified	Text	NO	Date of modified
4	Auction Price	Number	YES	Price of auction carrier want to get
5	Status	Text	YES	Status of bill of lading

Table 2-5: Table carrier auction

2.3.2.4. Table comment

NO	Attribute	Type	Mandatory	Description
1	Content	Text	YES	Content of comment
2	Created User	Text	YES	Who create comment
3	Created	Text	YES	Create date

Table 2-6: Table comment

2.3.2.5. Table company

NO	Attribute	Type	Mandatory	Description
1	Name	Text	YES	Name of company
2	Tax Code	Text	YES	Tax code of company
3	Email	Text	YES	Email of company
4	Phone Number	Number	YES	Phone number of company
5	Fax	Text	NO	Fax of company
6	address	Text	YES	Address of company

Table 2-7: Table company

2.3.2.6. Table district

NO	Attribute	Type	Mandatory	Description
1	Name	Text	YES	Name of district

Table 2-8: Table district

2.3.2.7. Table goods type

NO	Attribute	Type	Mandatory	Description
1	Name	Text	YES	Name type of goods
2	Description	Text	NO	Description of goods type
3	Reference Price	Number	NO	Reference price of goods type

Table 2-9: Table goods type

2.3.2.8. Table operation fee

NO	Attribute	Type	Mandatory	Description
1	Fee Name	Text	YES	Name of fee
2	Fee	Number	NO	How much of fee
3	Description	Text	NO	Description of fee

Table 2-10: Table operation fee

2.3.2.9. Table packagedform

NO	Attribute	Type	Mandatory	Description
1	Name	Text	YES	Name of package form
2	Description	Text	NO	Description of package form

2.3.2.10 Payment detail

NO	Attribute	Type	Mandatory	Description
1	Amounts	Text	YES	Amounts of payment
2	Payment Date	Text	NO	Date of payment
3	Description	Text	NO	Description of payment
4	Balance	float	NO	Account balance

Table 2-11: Table payment detail

2.3.2.11 Table province

NO	Attribute	Type	Mandatory	Description
1	Name	Text	YES	Name of province

Table 2-12: Table payment province

2.3.2.12 Table rport

NO	Attribute	Type	Mandatory	Description
1	Created User	Text	YES	Who create report
2	Report Date	Text	YES	Date of create report
3	Report Title	Text	YES	Title of report
4	Report Question	Text	NO	Question of report
5	Report Solution	Text	NO	Solution of report
6	Report Content	Text	NO	Content of report
7	Report Reply	Text	NO	Reply content of report
8	Status	boolean	NO	Status of report

Table 2-13: Table payment report

2.3.2.13 Table users

NO	Attribute	Type	Mandatory	Description
1	Full Name	Text	YES	Name of user
2	Email	Text	YES	Email of user
3	Phone Number	Text	YES	Phone number of user
4	Address	Text	YES	Address of user
5	Identity Card Information	Text	YES	Identity card information of user
6	Role	Text	YES	Kind of user
7	Created	Text	YES	Date of create user
8	Company Information	Text	NO	Company

				information of user

Table 2-14: Table users

2.3.2.14 Table users account

NO	Attribute	Type	Mandatory	Description
1	Balance	Number	YES	Account balance
2	Modified	Text	YES	Date of modified

Table 2-15: Table user account

3   FUNCTIONAL SPECIFICATION

3.3 Business Rules

No	Description
B1	The full name must be not empty
B2	The email address must not be empty
B3	The email must be valid.
B4	The phone number must be not empty
B5	The address must be not empty
B6	The province must be not empty
B7	The district must be not empty
B8	The identity card must be not empty
B9	The identity card place must be not empty
B10	The identity card date must be not empty
B11	The password must not be empty
B12	The password length must be in the range at least 8 character
B13	Check box kind of user (goods owner or carrier) must be not empty
B14	The auction is successfully
B15	The confirm password must be matched with the new password
B16	Receiver and sender must be not empty
B17	Received date must be not empty
B18	Send date must be not empty

B19	Receiver address and sender address must be not empty
B20	Auction end date must be not empty
B21	Proposed price must be not empty
B22	The email when reset password must be registered before
B23	One phone number must use for only one account
B24	One identity card must use for only one account
B25	One email address must use for only one account
B25	There are only one kind of goods in a bill of lading
B26	Account balance more than 0
B27	There is at least one user use CTC
B28	Name of cost must be not empty
B29	Code of cost must be not empty
B30	Kind of goods must be not empty
B31	Cost must be not empty
B32	Description must be not empty
B33	There is at least one bill of lading on CTC
B34	Bill of lading code must be not empty
B35	Kind of goods must be not empty
B36	Name of sender must be not empty
B37	Phone number must be not empty
B38	Receiver name must be not empty
B39	Receiver place must be not empty
B40	All district must be not empty
B41	All province must be not empty
B42	Destination must be not empty
B43	The place to go must be not empty
B44	Date sent must be not empty
B45	Date receive must be not empty
B46	Distance must be not empty
B47	weigh must be not empty
B48	number must be not empty
B49	size must be not empty
B50	End of auction date must be not empty

**Table 3-1: Business rules**

3.4 Use Cases

Actor	Description
Guest	Everyone who does not have account and accesses into the websites.
Carrier	Everyone who has account and accesses into Carrier Trading Center Website to auction bill of lading.
Goods Owner	Everyone who has account and accesses into Carrier Trading Center Website to register bill of lading.
Administrator	A person who has the highest permission level and is responsible for managing the website.

Table 3-2: Actor description

3.4.2 Guest Group Function

3.4.2.10 Register group function
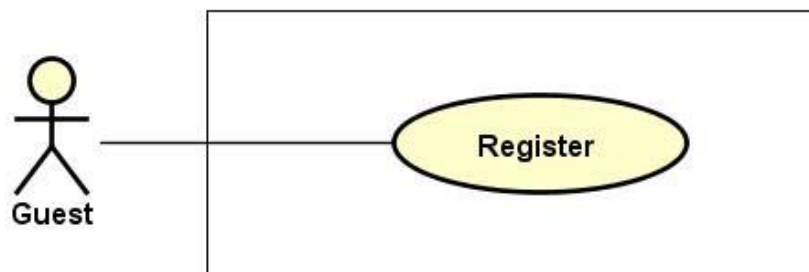
Figure 3-1: Register

3.4.2.10.1 Register

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Guest	Secondary Actor	
Description:	Guest can create new account to use more function as an unregistered		

		user
Preconditions:		The registration button appears on the home screen
Trigger:		"Đăng ký" button on the website is clicked
Post conditions:		1. Add exactly account information to database 2. Logs user into system 3. Redirect user to Homepage and display as Member

Normal Flow		
Step	**Actor**	**Action**
1	Guest	Click "Đăng ký" in header
2	CTC	Display Register page includes: - "Tên đầy đủ" input text - "Email" input text - "Số điện thoại" input text - "Địa chỉ" input text - "Tỉnh/Thành phố" input text - "Quận/Huyện" input text - "Chứng minh thư" input text - "Nơi cấp" input text - "Ngày cấp" date picker - "Chọn ảnh" file chooser - "Mật khẩu" input text - "Xác nhận mật khẩu" input text - "Loại ngườiduùng" check box - "Đăng ký" button
3	Guest	Enters data in fields
4	Guest	Click "Đăng ký" button
5	CTC	Send confirm email, display message "Đăng ký thành công" on register page
6	Guest	Confirm email
7	CTC	Activate user account to system

Alternative Flows:		
AT1	At step 4 in the main flows, if guest click other hyperlinks or buttons	
Step	**Actor**	**Action**
4.1	CTC	Redirects user to chosen hyperlink or button
Exceptions:		

| EC1	At step 4, required fields are not entered	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
EC2	At step 4, fields are entered with wrong type of data	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
Priority	High	
Frequency of Use:	High	
Business Rules:	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, 23, 24, 25	
Other Information:	N/A	

Table 3-3: Register

3.4.2.11 Price list group function
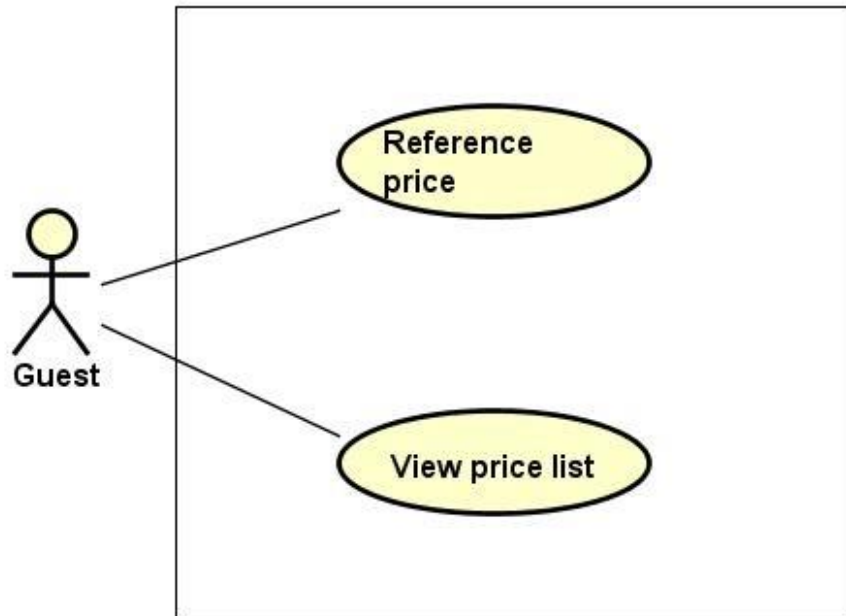
Figure 3-2: Price list group function

3.4.2.11.1   Reference price list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Guest	Secondary Actor	
Description:	Guest want to reference actual price system updated		
Preconditions:	1. "Tham Chiếu" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		
Trigger:	"Tham Chiếu" item is clicked		
Post conditions:	Display reference price list		
Normal Flow			

Step	Actor	Action
1	Guest	Hover mouse to "Báo giá" navigator and Click "Tham chiếu" button
2	CTC	Display reference price list
Alternative Flows: N/A		

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-4: Reference price list

3.4.2.11.2   View price list

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Guest	**Secondary Actor**	
Description:	Guest want to view price list		
Preconditions:	1. "Hệ Thống" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		
Trigger:	"Hệ Thống" item is clicked		
Post conditions:	Display price list on this page		

Normal Flow		
Step	**Actor**	**Action**
1	User	Hover mouse to "Tham chiếu" navigator and click "Hệ Thống" on homepage
2	CTC	Display price list

Alternative Flows: N/A	
Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-5: View price list

3.4.2.12 Bill of lading list group function

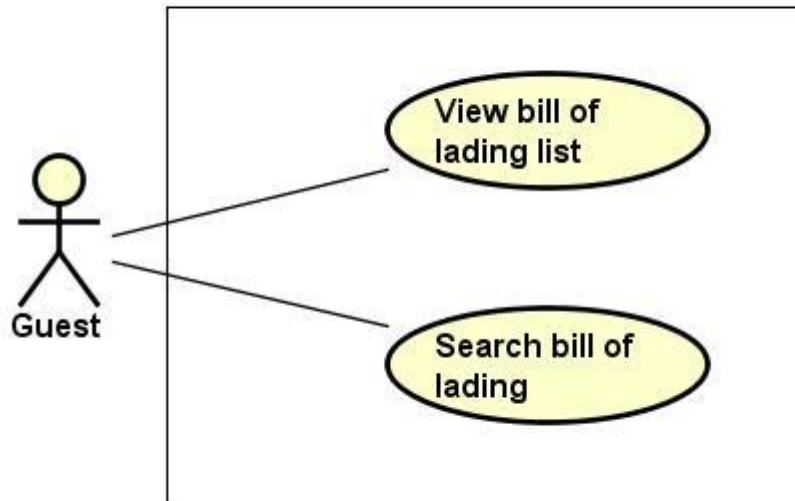**Figure 3-3: Bill of lading list group function**

3.4.2.12.1   View bill of lading list

Created by:		QuyetTD	Date Created:	08/03/2017
Primary Actor		Guest	Secondary Actor	
Description:		Guest want to view bill of lading list		
Preconditions:		"Tìm Hàng Chuyển" navigator appear header of website		
Trigger:		"Tìm Hàng Chuyển" navigator is cllicked		
Post conditions:		Display bill of lading list on common page		
Normal Flow				
Step	Actor	Action		
1	Guest	Click on "Tìm Hàng Chuyển" navigator on the website		
2	CTC	Display bill of lading list on common page		
Alternative Flows: N/A				
Exceptions: N/A				
Priority		High		

Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-6: View bill of lading list

3.4.2.12.2   Search bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Guest	**Secondary Actor**	
Description:	Guest want to find a bill of lading		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on header of website 2. Search box appear on common page		
Trigger:	"Tìm Hàng Chuyển" navigator is clicked		
Post conditions:	Display bill of lading system found on common page		

Normal Flow

Step	Actor	Action
1	Guest	Click "Tìm Hàng Chuyển" navigator
2	CTC	Display search page includes: - "Loại hàng" select box - "Hình thức đóng gói" select box - "Khối lượng" input text - "Thể tích" input text - "Địa điểm đi" select box - "Địa điểm đến" select box - "Thời gian đi" Date picker - "Thời gian đến" Date picker - "Tìm Kiếm" buttons
3	Guest	Enter data in this fields
4	Guest	Click "Tìm Kiếm" button
5	CTC	Display result bill of lading list system found

Alternative Flows:

AT1	At step 4 in the main flows, if guest click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-7: Search bill of lading

3.4.3   Carrier Group Function

3.4.3.10 Bill of lading list group function
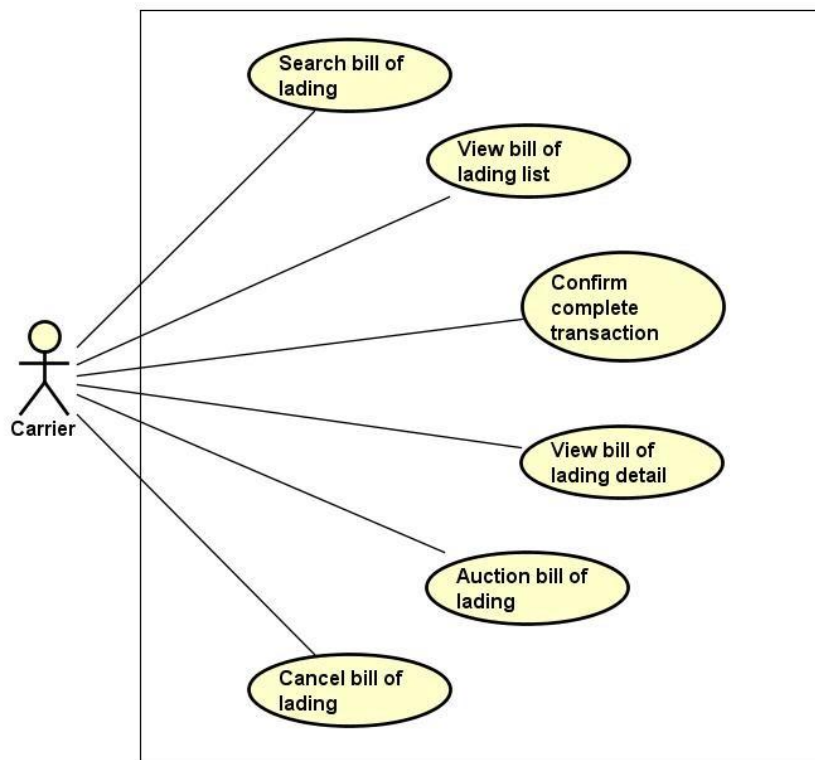
Figure 3-4: of lading list group function

3.4.3.10.1   View bill of lading list

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	

Description:	CRE want to view all bill of lading
Preconditions:	"Tìm Hàng Chuyển" navigator appear on header of website
Trigger:	"Tìm Hàng Chuyển" navigator is clicked
Post conditions:	Display bill of lading list on common page

Normal Flow		
Step	Actor	Action
1	CRE	Click "Tìm Hàng Chuyển" navigator
2	CTC	Display bill of lading list on common page

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-8: View bill of lading list

3.4.3.10.2 View bill of lading detail

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	CRE want to view bill of lading detail, they send request to system and then get result		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on homepage 2. Detail icon appear on bill of lading detail page		
Trigger:	Detail icon of bill of lading is clicked		
Post conditions:	Display bill of lading detail on this page		

Normal Flow		
Step	Actor	Action
1	CRE	Click "Tìm Hàng Vận Chuyển" navigator
2	CTC	Display bill of lading list page
3	CRE	Click "Chi Tiết" on bill of lading
4	CTC	Display bill of lading detail on bill of lading detail page

Alternative Flows: N/A	
Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	B33
Other Information:	N/A

Table 3-9: View bill of lading detail

3.4.3.10.3   Confirm complete transaction

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	Carrier want to confirm to system that they are complete bill of lading. It's mean that their customer got goods. They will get down payment back		
Preconditions:	1. Bill of lading was successful 2. "Đã Giao Hàng" button appear detail bill of lading page		
Trigger:	"Đã Giao Hàng" button in bill of lading detail page is clicked		
Post conditions:	Return down payment of customer to account and update bill of lading detail page		

Normal Flow		
Step	Actor	Action
1	CRE	Click "Đã Giao Hàng" button
2	CTC	Display bill of lading detail page update
3	CTC	Refund deposit for carrier

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	B14
Other Information:	N/A

Table 3-10:Confirm complete transaction

3.4.3.10.4   Auction bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	Carrier want to transport goods and then they auction bill of lading on CTC		
Preconditions:	1. There is a bill of lading auctioning		
Trigger:	"Đấu Thầu" button on bill of lading detail page is clicked		
Post conditions:	Auction bill of lading on system		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	Click "Đấu Thầu" button on bill of lading detail page	
2	CTC	Display "Đấu Giá" pop-up includes: - Account balance - Ceiling price - Service charge - "Giá Đấu Thầu" input text - "Xác Nhận" button - "Hủy Bỏ" button	
3	CRE	Enter data in "Giá Đấu Thầu" input text	
4	CRE	Click "Xác Nhận" button	
5	CTC	Save data in database	
6	CTC	Update bill of lading detail page.	
Alternative Flows:			
AT1	At step 4, CRE click "Hủy Bỏ" button		
Step	**Actor**	**Action**	
6.1	CTC	Return bill of lading detail page	
AT2	At step 4 in the main flows, if CRE click other hyperlinks or buttons		
Step	**Actor**	**Action**	
6.1	CTC	Redirects user to chosen hyperlink or button	
Exceptions: N/A			
Priority	High		

Frequency of Use:	High
Business Rules:	B33
Other Information:	N/A

Table 3-11: Auction bill of lading

3.4.3.10.5 Search bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	CRE want to find a bill of lading		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on header of website 2. Search box appear on common page		
Trigger:	"Tìm Hàng Chuyển" navigator is clicked		
Post conditions:	Display bill of lading system found on common page		
Normal Flow			

Step	Actor	Action	
1	CRE	Click "Tìm Hàng Chuyển" navigator one website	
2	CTC	Display summary bill of lading page includes: - "Loại hàng select box - "Hình thức đóng gói" select box - "Khối lượng" input text - "Thể tích" input text - "Địa điểm đi" select box - "Địa điểm đến" select box - "Thời gian đi" Date picker - "Thời gian đến" Date picker - "Tìm Kiếm" buttons	
1	CRE	Enter data in this fields	
2	CRE	Click "Tìm Kiếm" button search page	
3	CTC	Display result on common page	
Alternative Flows: N/A			
Exceptions: N/A			
Priority	High		
Frequency of Use:	high		

Business Rules:	N/A
Other Information:	N/A

Table 3-12: Search bill of lading

3.4.3.10.6   Cancel bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	CRE do not want to transport their goods. So they cancel bill of lading		
Preconditions:	Cancel button appear on bill of lading detail page		
Trigger:	"Hủy Đấu Giá" button is clicked		
Post conditions:	Bill of lading will be disable		
Normal Flow			

Step	Actor	Action
1	CRE	Click "Hủy Đấu Giá" button
2	CTC	Cancel bill of lading
3	CTC	Update bill of lading detail page

Alternative Flows:	
Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-13: Cancel bill of lading
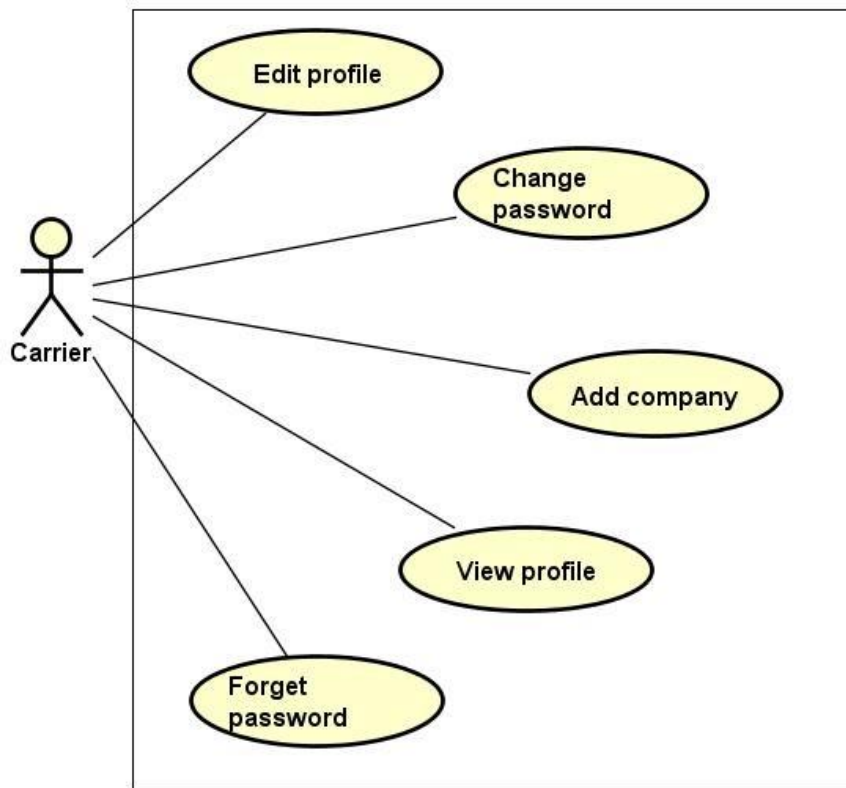
3.4.3.11 Manage profile group function

Figure 3-5: Manage profile group function

3.4.3.11.1   Edit profile

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	CRE want to edit goods owner profile		
Preconditions:	"Thay Đổi" button appear on detail user view page		
Trigger:	"Thay Đổi" button on detail user view page is clicked		
Post conditions:	Save carrier profile in database and updated detail user view page		
Normal Flow			
Step	Actor	Action	
1	CRE	Carrier click "Thay Đổi" button	
2	CTC	Display pop-up includes:	

		- "Chọn ảnh" file chooser - "Họ tên" input text - "Bạn là" (phân quyền quản trị) check box - "Email" input text - "Địa chỉ" input text - "Chứng minh thư" input text - "Ngày cấp thẻ" date picker - "Ngày tham gia" date picker - "Thay Đổi" button
3	CRE	Change data in this fields
4	CRE	Click "Lưu Thay Đổi" button
5	CTC	Save changed in database
6	CTC	Display changed on user detail page

Alternative Flows:		
AT1	At step 4, carrier click "x" in pop-up	
Step	**Actor**	**Action**
4.1	CRE	click "x" in pop-up
6.1	CTC	Display user detail page
AT2	At step 4 in the main flows, if CRE click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects admin to chosen hyperlink or button

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-14: Edit profile

3.4.3.11.2   View profile

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	Carrier want to view their profile		
Preconditions:	"Thông Tin Cá Nhân" item appear on top navigator		

Trigger:	"Thông Tin Cá Nhân" item is clicked	
Post conditions:	Display carrier profile	
Normal Flow		
Step	Actor	Action
1	CRE	Hover mouse to user name label and click "Thông Tin Cá Nhân" item
2	CTC	Display CRE detail on user detail view page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-15: View bill of lading

3.4.3.11.3   Forget password

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	CRE forget password. They want to reset password		
Preconditions:	"Quên mật khẩu" label appear on login page		
Trigger:	"Quên mật khẩu" label on login page is clicked		
Post conditions:	System send new password to goods owner's email		
Normal Flow			
Step	Actor	Action	
1	CRE	CRE click "Quên mật khẩu" on login page	
2	CTC	Display forget password page includes: - "Email đăng ký" input text - "Gửi" button	
3	CRE	Enter email address they use for register goods owner account	
4	CTC	Send new password to goods owner's email address	
Alternative Flows: N/A			

Exceptions: N/A	
Priority	Medium
Frequency of Use:	High
Business Rules:	B22
Other Information:	N/A

Table 3-16: Forget password

3.4.3.11.4   Add company

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	Carrier want to add company information to their profile.		
Preconditions:	"Thêm mới" button appear below "THÔNG TIN CÔNG TY" label		
Trigger:	"Thêm mới" button on view user detail page is cliecked		
Post conditions:	Add company information to user		
Normal Flow			

Step	Actor	Action
1	CRE	Click "Thêm mới" button on view user detail page
2	CTC	Display add company information for user pop-up includes: - "Tên công ty" input text - "Email" input text - "Số điện thoại" input text - "Fax" input text - "Địa chỉ" input text - "Mã số thuế" input text - "Hủy bỏ" button
3	CRE	- Enter data on fields - Click "Xác nhận" button
4	CTC	- Add company information for user
Alternative Flows: N/A		
AT1	At step 3 in the main flows, CRE click "Hủy bỏ" button	

Step	Actor	Action
4.1	CTC	Close "Thêm thông tin công ty" pop-up

Exceptions: N/A		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
Priority		Medium
Frequency of Use:		Medium
Business Rules:		N/A
Other Information:		N/A

Table 3-17: Add company

3.4.3.11.5   Change password

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	Carrier want to change password for security		
Preconditions:	"Thay đổi mật khẩu" item appear on top navigator		
Trigger:	"Thay đổi mật khẩu" item is clicked		
Post conditions:	Change password of goods owner		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	Click "Thay đổi mật khẩu" label	
2	CTC	Display change password page includes: - "Mật khẩu cũ" input text - "Mật khẩu mới" input text - "Xác nhận mật khẩu" input text - "Đổi mật khẩu" button	
3	CRE	Enter data in this fields	

4	CRE	Click "Đổi mật khẩu" button
5	CTC	Save new password in database
6	CTC	Display "Thay đổi thành công" message on pop-up

Alternative Flows:		
AT1	At step 4 in the main flows, if CRE click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects CRE to chosen hyperlink or button

Exceptions:		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC3	At step 3, password is wrong	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC4	At step 3, new password and confirm password are not match	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields

Priority	Medium
Frequency of Use:	Medium
Business Rules:	B12, B15
Other Information:	N/A

Table 3-18: Change password

3.4.3.12 Account recharge group function
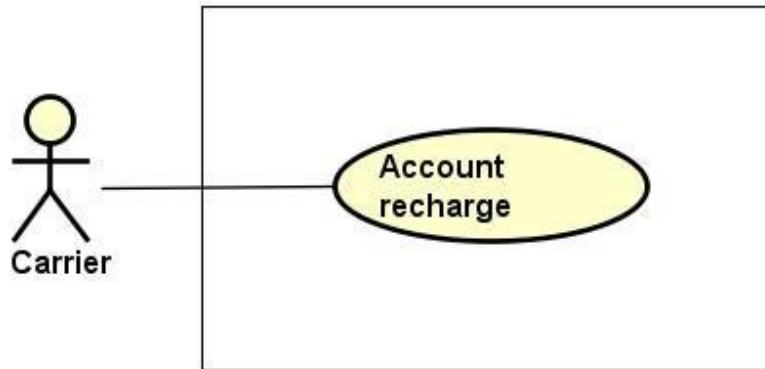
Figure 3-6: Account recharge group function

3.4.3.12.1   Account recharge

Created by:		QuyetTD	Date Created:	08/03/2017
Primary Actor		Carrier	**Secondary Actor**	
Description:		Carrier want to account recharge to account for auction bill of lading		
Preconditions:		"Nạp tiền vào tài khoản" item appear on top navigator		
Trigger:		"Nạp tiền vào tài khoản" item is clicked		
Post conditions:		Recharge the user account		
Normal Flow				
Step	**Actor**	**Action**		
1	CRE	Hover mouse to user name and Click "Nạp tiền vào tài khoản" item		
2	CTC	Display "nganluong.vn" website includes 3 item for 3 way to recharge to account: - "Ví điện thứ Ngân Lượng" button - "Thẻ cào điện thoại" button - "Online bằng thẻ ATM\Internet banking" button - "Chuyển khoản ngân hàng" button		

3	CRE	Click one of three button for choose how to recharge to account
4	CTC	Display the way user chose to recharge account
5	CRE	GWN do something follow "Ngân Lượng" guide
6	CTC	Add money to user account

Alternative Flows:		
AT1	At step 4 in the main flows, if CRE click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button

Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-19: Account recharge

3.4.3.13 Manage report group function
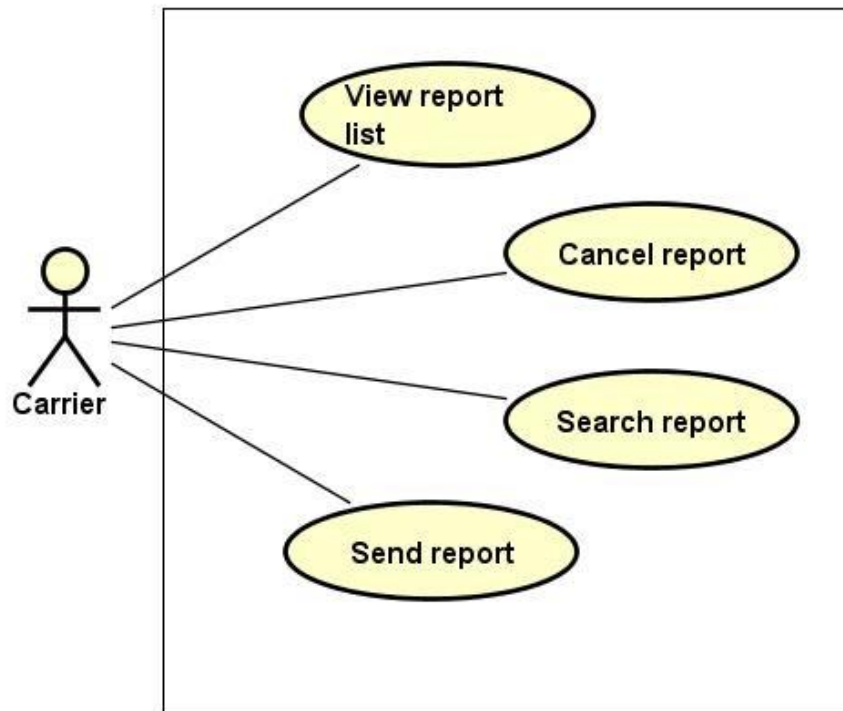
Figure 3-7: Manage report group function

3.4.3.13.1   Send report

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	Carrier want to send report to admin		
Preconditions:	1. "BÁO CÁO CỦA TÔI" navigator appear on header of website 2. "Tạo báo cáo mới" button appear on list report user page		
Trigger:	"Tạo mới báo cáo" button is clicked		
Post conditions:	Send report to admin		
Normal Flow			

Step	Actor	Action
1	CRE	Click "Tạo mới báo cáo" button
2	CTC	Display add new report page includes: - "Chủ đề bạn muốn báo cáo là gì" input text - "Câu hỏi của bạn là gì" input text - "Bạn mong muốn xử lý như thế nào" input text - "Nội dung báo cáo của bạn" input text - "Gửi phản hồi" button - "Quay lại" button
3	CRE	Enter data in fields
4	CRE	Click "Gửi phản hồi" button
5	CTC	Send report to admin
Alternative Flows:		
AT1	At step 4, CRE click "Quay lại" button	
Step	Actor	Action
5.1	CTC	Return report list page
AT2	At step 4 in the main flows, if CRE click other hyperlinks or buttons	
Step	Actor	Action
5.1	CTC	Redirects CRE to chosen hyperlink or button
Exceptions:		
EC1	At step 3, required fields are not entered	
Step	Actor	Action
5.1	CTC	Display Register page with message error
5.2	CTC	Mark error fields
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-20: Send report

3.4.3.13.2   View report list

Created by:	QuyetTD	Date Created:	08/03/2017

Primary Actor	Carrier	Secondary Actor	
Description:	CRE want to view report list		
Preconditions:	"BÁO CÁO CỦA TÔI" navigator appear on header of website		
Trigger:	"BÁO CÁO CỦA TÔI" navigator is clicked		
Post conditions:	Display report list on report list page		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	Click "Báo Cáo Của Tôi" navigator	
2	CTC	Display report list on report list page	
Alternative Flows: N/A			
Exceptions: N/A			
Priority	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		

Table 3-21: View report list

3.4.3.13.3   Search report

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	Secondary Actor	
Description:	Carrier want to find a report in report list		
Preconditions:	1. "BÁO CÁO CỦA TÔI" navigator appear header of website 2. Search box appear on list report user page		
Trigger:	"BÁO CÁO CỦA TÔI" navigator appear header of website		
Post conditions:	Display report on report list page		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	CRE click "Quản Lý Report" navigator	
2	CTC	Display search page includes: - "Tên tài khoản" - "Tên người dùng"	

		- "Tiêu đề báo cáo" - "ngày bắt đầu" input text - "ngày kết thúc" input text - "Tìm kiếm" button
3	CRE	Enter data in fields
4	CRE	Click "Tìm kiếm" button
5	CTC	Display result on report list page

Alternative Flows:		
AT1	At step 4 in the main flows, if CRE click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-22: Search report

3.4.3.13.4   Cancel report

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	CRE want to cancel their report		
Preconditions:	"BÁO CÁO CỦA TÔI" navigator appear on header of website		
Trigger:	"BÁO CÁO CỦA TÔI" navigator is clicked		
Post conditions:	Cancel this report		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	Click "Báo Cáo Của Tôi" navigator	
2	CRE	Click cancel report icon	
2	CTC	Cancel this report	
Alternative Flows: N/A			

Exceptions: N/A	
Priority	Medium
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-23: Cancel report

3.4.3.14 Price list group function
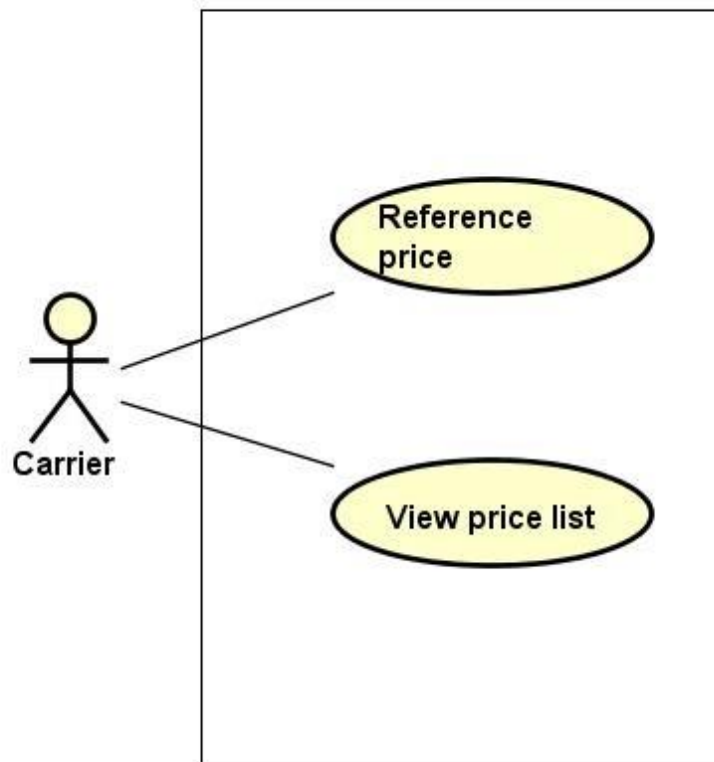
Figure 3-8: Manage price list group function

3.4.3.14.1   Reference price

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	Carrier want to reference actual price system updated		

Preconditions:	1. "Tham Chiếu" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website
Trigger:	"Tham chiếu" item is clicked
Post conditions:	Display price list on price list page

Normal Flow		
Step	**Actor**	**Action**
1	CRE	Click "Tham chiếu" button
2	CTC	Display price list from other website

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-24: Reference price

3.4.3.14.2   View price list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	CRE want to view list of price		
Preconditions:	1. "Hệ Thống" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		
Trigger:	"Hệ Thống" item is clicked		
Post conditions:	Display price list on price list page		

Normal Flow		
Step	**Actor**	**Action**
1	CRE	Click "Báo Giá" navigator and then choose "Hệ Thống" item
2	CTC	Display price list on price list page

Alternative Flows: N/A	
Exceptions: N/A	
Priority	High

Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-25: View report list

3.4.3.15 Connect to goods owner group function
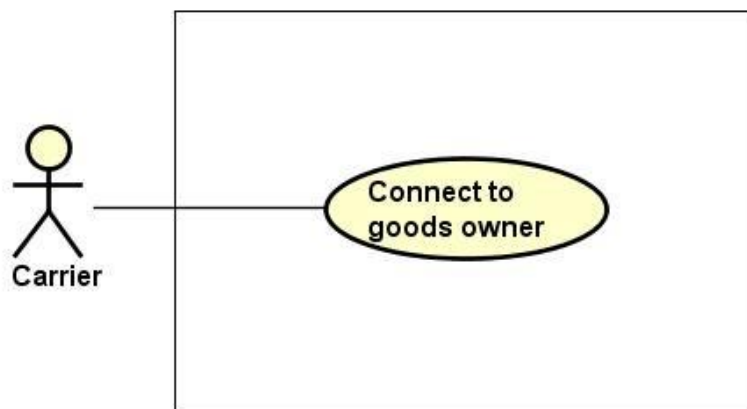
**Figure 3-9: Connect to goods owner group function**

3.4.3.15.1   Connect to goods owner

Created by:		QuyetTD	**Date Created:**	08/03/2017
Primary Actor		Carrier	**Secondary Actor**	
Description:		Carrier want to connect to Goods owner		
Preconditions:		Bill of lading is successful		
Trigger:		"Reply" item on bill of lading detail page is clicked		
Post conditions:		Send comment to goods owner		
Normal Flow				
Step	**Actor**	**Action**		
1	CRE	Click "Chi Tiết" on a bill of lading		

2	CTC	Display bill of lading detail comment includes: - "Hỏi Đáp" input text
3	CRE	Enter data in fields
4	CRE	Press enter key word on keyboard
5	CTC	Send comment to goods owner
Alternative Flows:		
AT1	At step 4 in the main flows, if CRE click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects CRE to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	B14	
Other Information:	N/A	

Table 3-26: Connect to goods owner

3.4.3.16 Transaction history group function
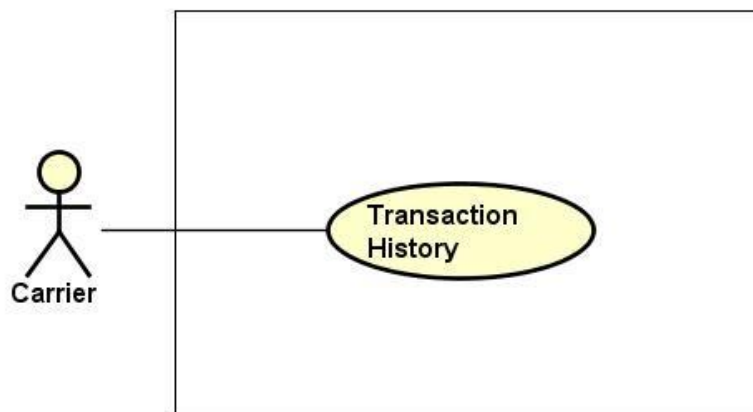
Figure 3-10: Transaction history group function

3.4.3.16.1 Transaction history

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	Carrier want to check money in account and what did they do with money		
Preconditions:	"Thông tin giao dịch" item appear on top navigator		
Trigger:	"Thông tin giao dịch" item is clicked		
Post conditions:	Display money in account and transaction history		
Normal Flow			
Step	**Actor**	**Action**	
1	Carrier	Hover mouse to user name and Click "Thông tin giao dịch" item	
2	CTC	Display money in account and transaction history	
Alternative Flows: N/A			
Exceptions: N/A			
Priority	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		

Table 3-27: Transaction history

3.4.3.17 Login group function
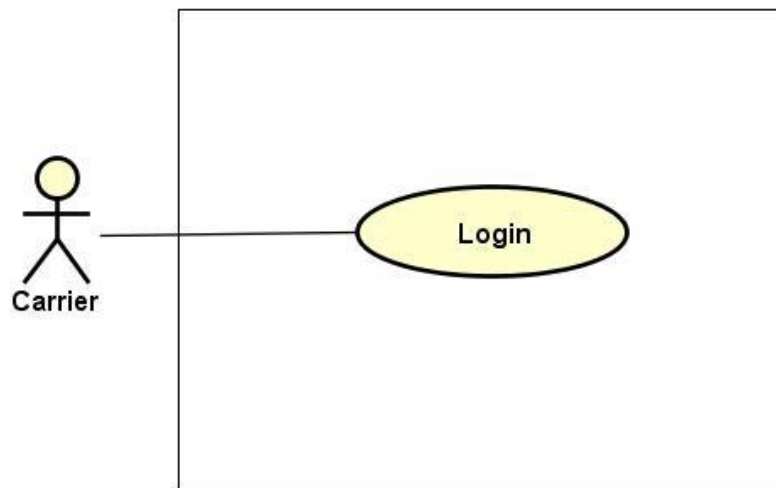
Figure 3-11: Login group function

3.4.3.17.1   Login

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	CRE want to login to CTC system for work		
Preconditions:	"Đăng nhập" button appear on login page		
Trigger:	"Đăng nhập" button on login page is clicked		
Post conditions:	Carrier login to CTC system		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	Click "Đăng nhập" on homepage	
2	CTC	Display login page includes: - "Email" input text - "Mật khẩu" input text - "Đăng nhập" button	
3	CRE	Enter data in fields	

4	CTC	Login account to CTC
Alternative Flows: N/A		
Exceptions:		
EC1	At step 4, required fields are not entered	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
EC2	At step 4, fields are entered with wrong type of data	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
Priority		High
Frequency of Use:		High
Business Rules:		B2, B11
Other Information:		N/A

Table 3-28: Login

3.4.3.18 Logout group function
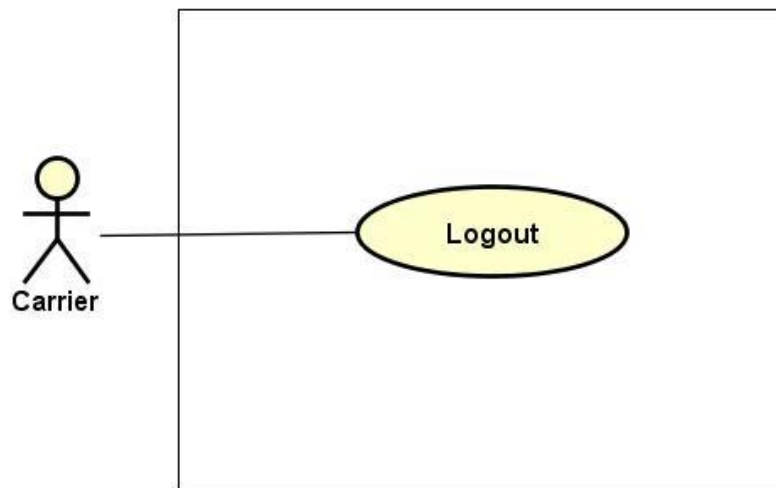
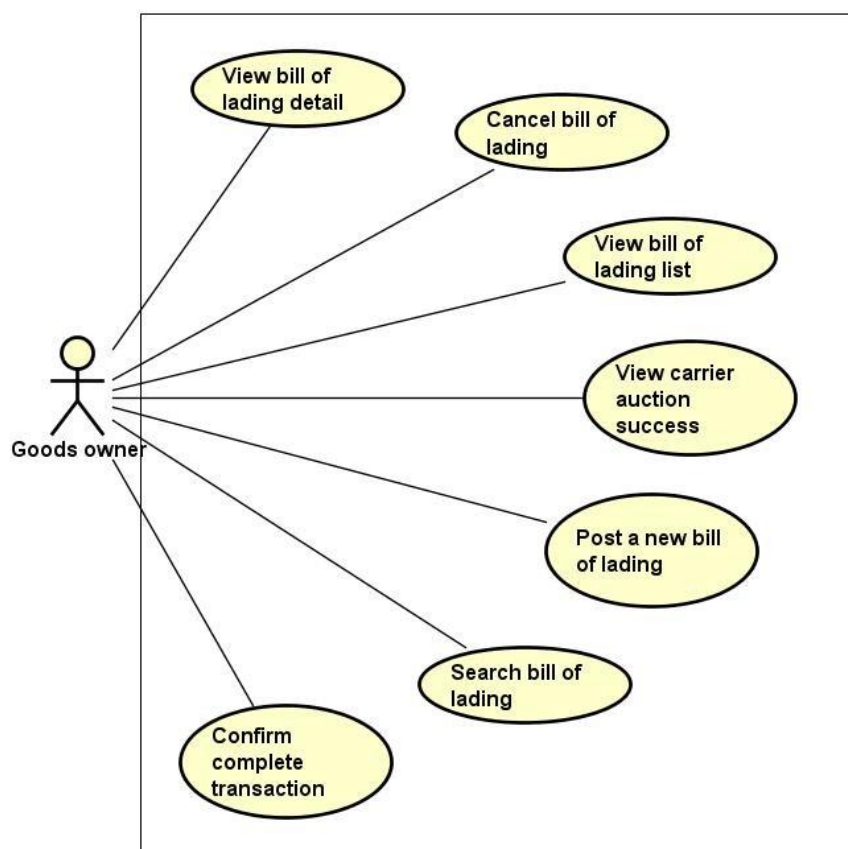**Figure 3-12: Logout group function**

3.4.3.18.1   Logout

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Carrier	**Secondary Actor**	
Description:	CRE want to logout CTC system		
Preconditions:	"Đăng xuất" button appear on top navigator		
Trigger:	"Đăng xuất" button is clicked		
Post conditions:	Logout carrier account		
Normal Flow			
Step	**Actor**	**Action**	
1	CRE	Click "Đăng xuất" in website	
2	CTC	Logout Goods owner account	
3	CTC	Return homepage	
Alternative Flows: N/A			
Exceptions: N/A			

Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-29: Logout

3.4.4 Goods Owner Group Function

3.4.4.10 Bill of lading list group function

Figure 3-13: Bill of lading list group function

3.4.4.10.1   View bill of lading list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	User want to view all bill of lading		
Preconditions:	"Tìm Hàng Chuyển" navigator appear on header of website		

Trigger:	"Tìm Hàng Chuyển" navigator is clicked	
Post conditions:	Display bill of lading list on common page	
Normal Flow		
Step	Actor	Action
1	GWN	Click "Tìm Hàng Chuyển" navigator
2	CTC	Display bill of lading list on bill of lading list page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-30: View bill of lading list

3.4.4.10.2   Confirm complete transaction

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	
Description:	Goods owner want to confirm that they are complete bill of lading to the system. It means that their customer got goods. They will get down payment back		
Preconditions:	1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Go to bill of lading detail		
Trigger:	Click "Hoàn thành giao dịch" button in bill of lading detail page		
Post conditions:	Return down payment of customer to account and update bill of lading detail page		
Normal Flow			
Step	Actor	Action	
1	GWN	Click "Hoàn thành giao dịch" button	
2	CTC	Display bill of lading detail page update	
Alternative Flows: N/A			
Exceptions: N/A			

Priority	Medium
Frequency of Use:	Medium
Business Rules:	B14
Other Information:	N/A

Table 3-31: Confirm complete transaction

3.4.4.10.3 View bill of lading detail

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	
Description:	GWN want to view bill of lading detail, they send request to system and then get result		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on homepage 2. Detail icon appear on bill of lading detail page		
Trigger:	Detail icon of bill of lading is clicked		
Post conditions:	Display bill of lading detail on bill of lading detail page		

Normal Flow		
Step	Actor	Action
1	GWN	Click "Tim Hàng Vận Chuyển" navigator
2	CTC	Display bill of lading list page
3	GWN	Click "Chi Tiết" on bill of lading
4	CTC	Display bill of lading detail on bill of lading detail page

Alternative Flows: N/A	
Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	B33
Other Information:	N/A

Table 3-32: View bill of lading detail

3.4.4.10.4 Cancel bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	

Description:	Goods owner do not want to transport their goods. So they cancel bill of lading
Preconditions:	Cancel button appear on bill of lading detail page
Trigger:	"Hủy Đấu Giá" button is clicked
Post conditions:	Bill of lading will be disable
Normal Flow	

Step	Actor	Action
1	GWN	Click "Hủy Đấu Giá" button
2	CTC	Cancel bill of lading
3	CTC	Update bill of lading detail page

Alternative Flows: N/A	
Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-33: Cancel bill of lading

3.4.4.10.5   Search bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	
Description:	GWN want to find a bill of lading		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on header of website 2. Search box appear on common page		
Trigger:	"Tìm Hàng Chuyển" navigator is clicked		
Post conditions:	Display bill of lading system found on common page		
Normal Flow			

Step	Actor	Action	
1	GWN	Click "Tìm Hàng Chuyển" navigator one website	
2	CTC	Display summary bill of lading page includes: - "Loại hàng select box	

		- "Hình thức đóng gói" select box
		- "Khối lượng" input text
		- "Thể tích" input text
		- "Địa điểm đi" select box
		- "Địa điểm đến" select box
		- "Thời gian đi" Date picker
		- "Thời gian đến" Date picker
		- "Tìm Kiếm" buttons
3	GWN	Enter data in this fields
4	GWN	Click "Tìm Kiếm" button search page
5	CTC	Display bill of lading system found on common page
Alternative Flows:		
AT1	At step 4 in the main flows, if GWN click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects GWN to chosen hyperlink or button
Exceptions: N/A		
Priority	High	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-34: Search bill of lading

3.4.4.10.6   View carrier auction success

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	GWN want to view who auction bill of lading successful		
Preconditions:	1. Bill of lading is successful 2. Detail icon of bill of lading appear bill of lading detail page		
Trigger:	Detail icon of bill of lading appear bill of lading detail page is clicked		
Post conditions:	Display who are auction success on bill of lading detail page		
Normal Flow			
Step	**Actor**	**Action**	

1	GWN	Click "GIAO DỊCH CỦA TÔI" navigator
2	CTC	Display bill of lading list page
3	GWN	Click detail icon of bill of lading on Goods Owner Bill Of Lading page
4	CTC	Display who are auction success on detail page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	B33	
Other Information:	N/A	

Table 3-35: View carrier auction success

3.4.4.10.7   Post a new bill of lading

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to transport their goods so create a new bill of lading in CTC system		
Preconditions:	"TẠO VẬN ĐƠN" navigator appear on header of website		
Trigger:	"TẠO VẬN ĐƠN" navigator is clicked		
Post conditions:	Register new bill of lading in CTC system		
Normal Flow			
Step	**Actor**	**Action**	
1	GWN	Click "Tạo Vận Đơn" navigator	
2	CTC	Display post bill of lading page includes: - "Mã vận đơn" input text - "loại hàng" select box - "Hình thức đóng gói" select box - "Họ tên người gửi" input text - "Số điện thoại" input text - "Họ tên người nhận" input text - "Địa điểm gửi" select box - "Địa điểm nhận" select box - "Từ quận/huyện" select box	

		- "Đến quận/huyện" select box
		- "Địa chỉ nơi gửi" input text
		- "Địa chỉ nơi nhận" input text
		- "Đặc điểm nơi gửi" input text
		- "Đặc điểm nơi nhận" input text
		- "Ngày gửi" date time picker
		- "Ngày nhận" date time picker
		- "Quãng đường" input text
		- "Khối lượng" input text
		- "Số lượng" input text
		- "Dài" input text
		- "Rộng" input text
		- "Cao" input text
		- "Hàng đông lạnh" check box
		- "Hàng dễ vỡ" check box
		- "Hình ảnh" button upload
		- "Mô tả" ricd texbox
		- "Giá đề xuất" input text
		- "Thời gian kết thúc đấu giá" date time picker
		- "Đăng ký" button
		- "Hủy bỏ" button
3	GWN	Enter data in fields
4	GWN	Click "Đăng ký" button on post bill of lading page
5	CTC	Save data in database (register bill of lading in database)
6	CTC	Display new bill of lading on bill of lading detail
Alternative Flows:		
AT1	at step 4, GWN click "Hủy bỏ" button	
Step	**Actor**	**Action**
6.1	CTC	Return bill of lading list page
AT2	At step 4 in the main flows, if GWN click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects GWN to chosen hyperlink or button
Exceptions:		
EC1	At step 4, required fields are not entered	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error

4.2	CTC	Mark error fields
EC2	At step 4, fields are entered with wrong type of data	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
Priority		High
Frequency of Use:		High
Business Rules:		B4, B21, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50
Other Information:		N/A

Table 3-36: Post bill of lading

3.4.4.11 Price list group function
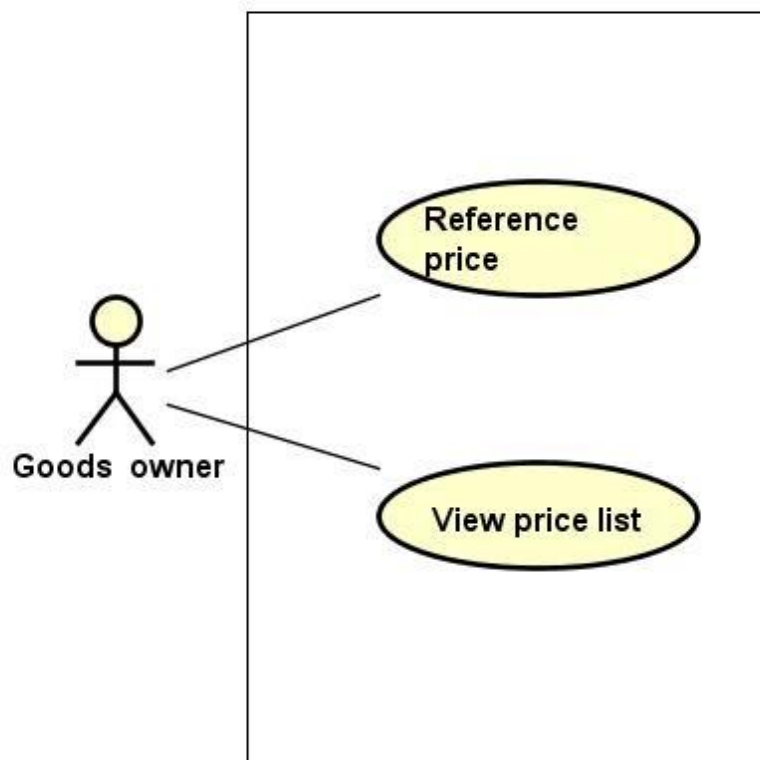
Figure 3-14: Price list group function

3.4.4.11.1   View price list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to view list of price		
Preconditions:	1. "Hệ Thống" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		
Trigger:	"Hệ Thống" item is clicked		
Post conditions:	Display price list on price list page		
Normal Flow			

Step	Actor	Action	
1	GWN	Click "Báo Giá" navigator and then choose "Hệ Thống"	
2	CTC	Display price list on price list page	

Exceptions: N/A			
Priority	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		

Table 3-37: View price list

3.4.4.11.2   Reference price

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to reference actual price system updated		
Preconditions:	1. "Tham Chiếu" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		
Trigger:	"Tham chiếu" item is clicked		
Post conditions:	Display price list on price list page		
Normal Flow			

Step	Actor	Action	
1	GWN	Click "Tham chiếu" item	
2	CTC	Display price list from other website	

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-38: Reference price

3.4.4.12 Manage report group function
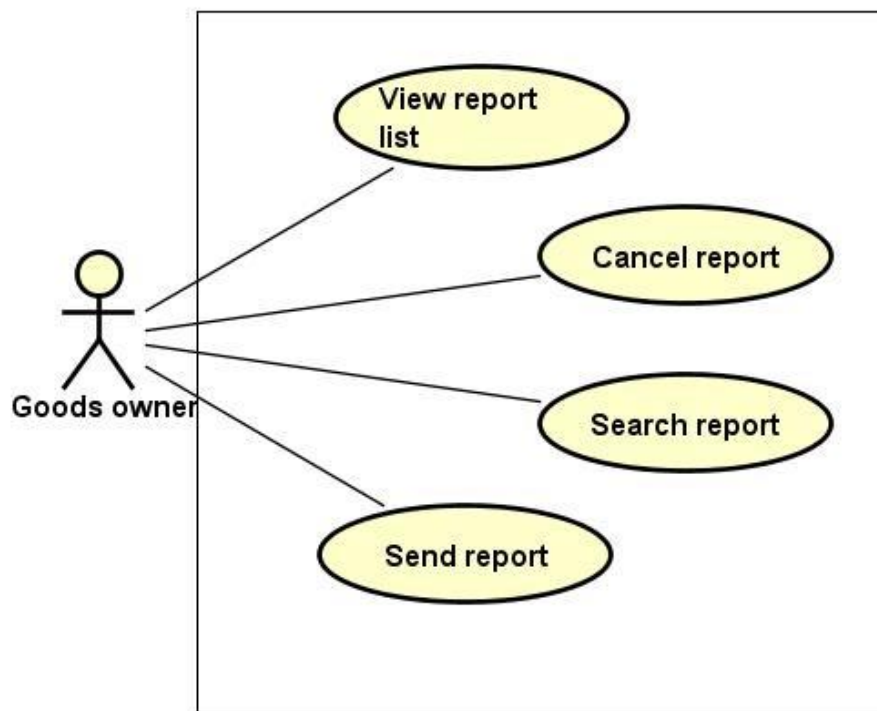
Figure 3-15: Manage report group function

3.4.4.12.1   Send report

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to send report to admin		

Preconditions:		1. "BÁO CÁO CỦA TÔI" navigator appear on header of website 2. "Tạo báo cáo mới" button appear on list report user page
Trigger:		"Tạo mới báo cáo" button is clicked
Post conditions:		Send report to admin
Normal Flow		
Step	Actor	Action
1	GWN	Click "Tạo mới báo cáo" button
2	CTC	Display add new report page includes: - "Chủ đề bạn muốn báo cáo là gì" input text - "Câu hỏi của bạn là gì" input text - "Bạn mong muốn xử lý như thế nào" input text - "Nội dung báo cáo của bạn" input text - "Gửi phản hồi" button - "Quay lại" button
3	GWN	Enter data in fields
4	GWN	Click "Gửi phản hồi" button
5	CTC	Send report to admin
Alternative Flows:		
AT1	At step 4, GWN click "Quay lại" button	
Step	Actor	Action
5.1	CTC	Return report list page
AT2	At step 4 in the main flows, if GWN click other hyperlinks or buttons	
Step	Actor	Action
5.1	CTC	Redirects GWN to chosen hyperlink or button
Exceptions:		
EC1	At step 3, required fields are not entered	
Step	Actor	Action
5.1	CTC	Display Register page with message error
5.2	CTC	Mark error fields
Priority		Medium

Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-39: Send report

3.4.4.12.2   View report list

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	GWN want to view report list		
Preconditions:	"BÁO CÁO CỦA TÔI" navigator appear on header of website		
Trigger:	"BÁO CÁO CỦA TÔI" navigator is clicked		
Post conditions:	Display report list on report list page		
Normal Flow			

Step	Actor	Action	
1	GWN	Click "Báo Cáo Của Tôi" navigator	
2	CTC	Display report list on report list page	

Alternative Flows: N/A			
Exceptions: N/A			
Priority	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		

Table 3-40: View report list

3.4.4.12.3   Search report

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to find a report in report list		
Preconditions:	1. "BÁO CÁO CỦA TÔI" navigator appear header of website 2. Search box appear on list report user page		
Trigger:	"BÁO CÁO CỦA TÔI" navigator appear header of website		
Post conditions:	Display report on report list page		

Normal Flow		
Step	**Actor**	**Action**
1	GWN	GWN click "Quản Lý Report" navigator
2	CTC	Display search page includes: - "Tên tài khoản" - "Tên người dung" - "Tiêu đề báo cáo" - "Tìm kiếm" button - "ngày bắt đầu" input text - "ngày kết thúc" input text
3	GWN	Enter data in fields
4	GWN	Click "Tìm kiếm" button
5	CTC	Display result on report list page
Alternative Flows:		
AT1	At step 4 in the main flows, if GWN click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects GWN to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-41: Search report

3.4.4.12.4   Cancel report

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	GWN want to cancel their report		
Preconditions:	"BÁO CÁO CỦA TÔI" navigator appear on header of website		
Trigger:	"BÁO CÁO CỦA TÔI" navigator is clicked		
Post conditions:	Cancel this report		
Normal Flow			

Step	Actor	Action
1	GWN	Click "Báo Cáo Của Tôi" navigator
2	GWN	Click cancel report icon
2	CTC	Cancel this report
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

3.4.4.13 Manage profile group function
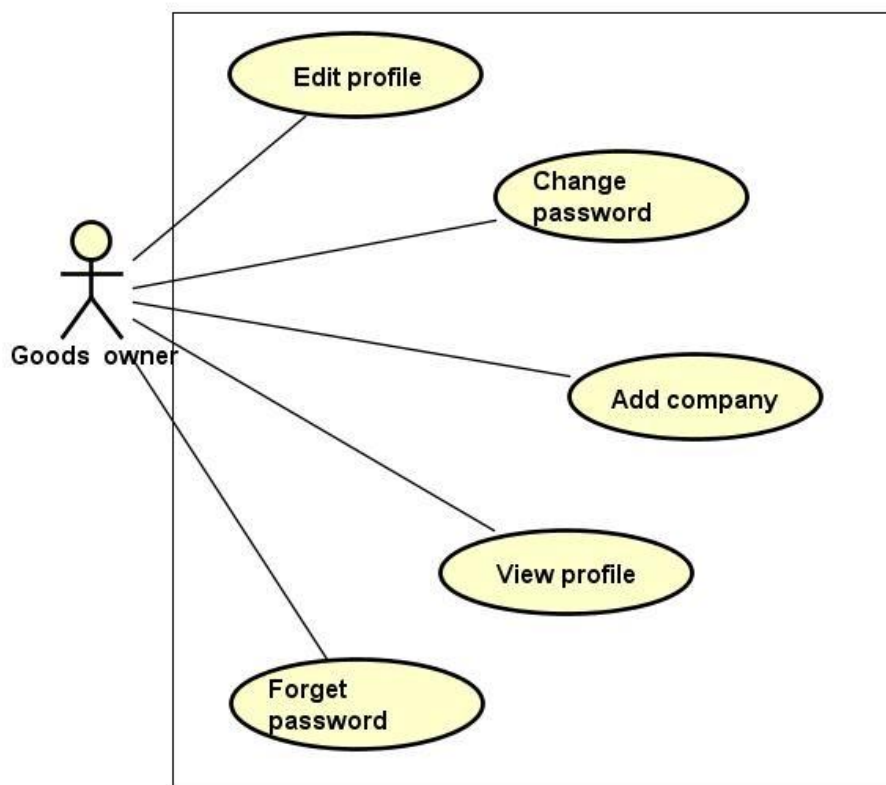
Figure 3-16: Manage profile group function

3.4.4.13.1 Edit profile

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	
Description:	Goods owner want to edit goods owner profile		
Preconditions:	"Thay Đổi" button appear on detail user view page		
Trigger:	"Thay Đổi" button on detail user view page is clicked		
Post conditions:	Save goods owner profile in database		
Normal Flow			
Step	Actor	Action	
1	GWN	Hover mouser to user name label and clicj "Chỉnh Sửa Thông Tin" item	
2	CTC	Display pop-up includes: - "Chọn ảnh" file chooser - "Họ tên" input text - "Bạn là" (phân quyền quản trị) check box - "Email" input text - "Địa chỉ" input text - "Chứng minh thư" input text - "Ngày cấp thẻ" date picker - "Ngày tham gia" date picker - "Thay Đổi" button	
3	GWN	Change data in this fields	
4	GWN	Click "Lưu Thay Đổi" button	
5	CTC	Save changed in database	
6	CTC	Display changed on user detail page	
Alternative Flows:			
AT1	At step 4, GWN click "x" in pop-up		
Step	Actor	Action	
4.1	GWN	click "x" in pop-up	
6.1	CTC	Display user detail page	
AT2	At step 4 in the main flows, if GWN click other hyperlinks or buttons		
Step	Actor	Action	

6.1	CTC	Redirects GWN to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-42: Edit profile

3.4.4.13.2   Change password

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	GWN want to change their password for security		
Preconditions:	"Thay đổi mật khẩu" item appear on top navigator		
Trigger:	"Thay đổi mật khẩu" item is clicked		
Post conditions:	Change password of goods owner		
Normal Flow			

Step	Actor	Action
1	GWN	Hover mouse to user name label and click "Đổi mật khẩu" item
2	CTC	Display change password page includes: - "Mật khẩu cũ" input text - "Mật khẩu mới" input text - "Xác nhận mật khẩu" input text - "Đổi mật khẩu" button
3	GWN	Enter data in this fields
4	GWN	Click "Đổi mật khẩu" button
5	CTC	Save new password in database
6	CTC	Display "Thay đổi thành công" message on pop-up
Alternative Flows: N/A		
AT1	At step 4 in the main flows, if GWN click other hyperlinks or buttons	

Step	Actor	Action
6.1	CTC	Redirects GWN to chosen hyperlink or button

Exceptions:		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC3	At step 3, password is wrong	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC4	At step 3, new password and confirm password are not match	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	B12, B15	
Other Information:	N/A	

Table 3-43: Change password

3.4.4.13.3 Add company

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to add company information to their profile.		
Preconditions:	"Thêm mới" button appear below "THÔNG TIN CÔNG TY" label		
Trigger:	"Thêm mới" button on view user detail page is cliecked		
Post conditions:	Add company information to user		

Normal Flow		
Step	**Actor**	**Action**
1	GWN	Click "Thêm thông tin công ty" button on view user detail page
2	CTC	Display add company information for user pop-up includes: - "Tên công ty" input text - "Email" input text - "Số điện thoại" input text - "Fax" input text - "Địa chỉ" input text - "Mã số thuế" input text - "Hủy bỏ" button
3	GWN	- Enter data on fields - Click "Xác nhận" button
4	CTC	- Add company information for user
Alternative Flows: N/A		
AT1	At step 3 in the main flows, GWN click "Hủy bỏ" button	
Step	**Actor**	**Action**
4.1	CTC	Close "Thêm thông tin công ty" pop-up
Exceptions: N/A		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
Priority		Medium
Frequency of Use:		Medium
Business Rules:		N/A
Other Information:		N/A

Table 3-44: Add company

3.4.4.13.4   Forget password

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner forget password. They want to reset password		
Preconditions:	"Quên mật khẩu" label appear on login page		
Trigger:	"Quên mật khẩu" label on login page is clicked		
Post conditions:	System send new password to goods owner's email		
Normal Flow			

Step	Actor	Action	
1	GWN	GWN click "Quên mật khẩu" on login page	
2	CTC	Display forget password page includes: - "Email đăng ký" input text - "Gửi" button	
3	GWN	Enter email address they use for register goods owner account	
4	CTC	Send new password to goods owner's email address	

Alternative Flows: N/A			
Exceptions: N/A			
Priority	Medium		
Frequency of Use:	High		
Business Rules:	B22		
Other Information:	N/A		

Table 3-45: Forget password

3.4.4.13.5   View profile

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to view admin's profile		
Preconditions:	"Thông Tin Cá Nhân" item appear on top navigator		
Trigger:	"Thông Tin Cá Nhân" item is clicked		
Post conditions:	Display GWN profile		
Normal Flow			

Step	Actor	Action
1	GWN	Hover mouse to user name label and click "Thông Tin Cá Nhân" item
2	CTC	Display user detail on user detail page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-46: View profile

3.4.4.14 Transaction history group function
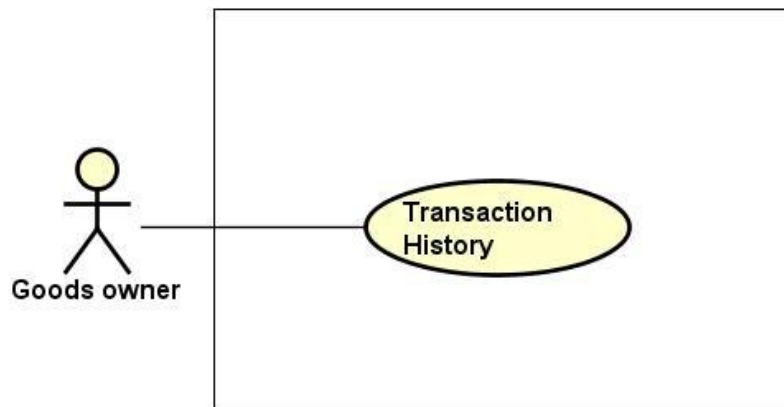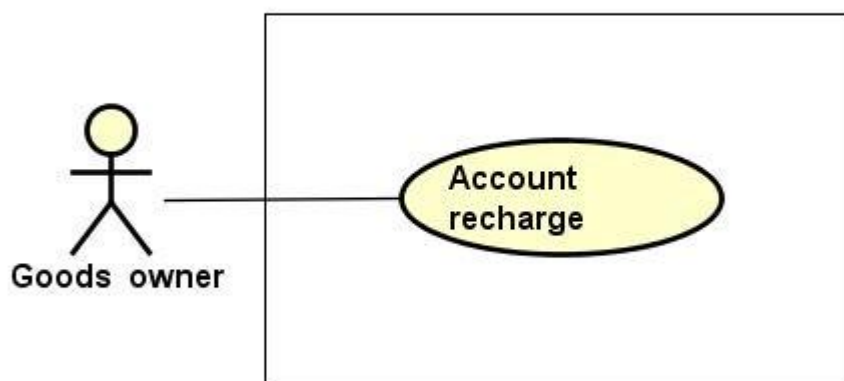

Figure 3-17: Transaction group function

3.4.4.14.1   Transaction history

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to check money in account and what did they do with money		
Preconditions:	"Thông tin giao dịch" item appear on top navigator		

Trigger:	"Thông tin giao dịch" item is clicked
Post conditions:	Display money in account and transaction history

Normal Flow		
Step	**Actor**	**Action**
1	GWN	Hover mouse to user name and Click "Thông tin giao dịch" item
2	CTC	Display money in account and transaction history

Alternative Flows: N/A
Exceptions: N/A

Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-47: Transaction history

3.4.4.15 Account recharge group function

Figure 3-18: Account recharge group function

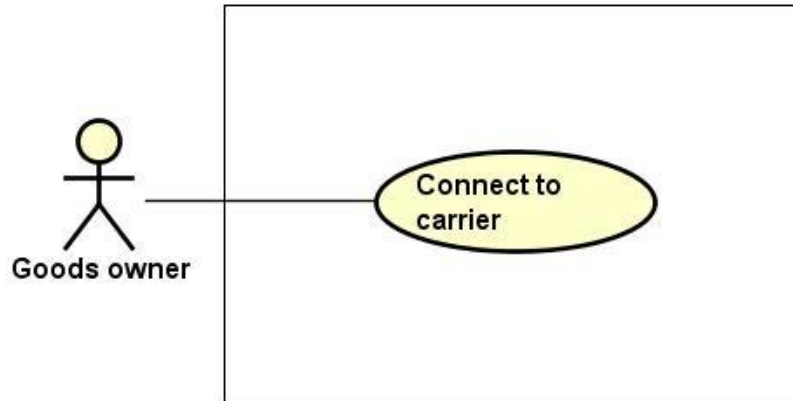3.4.4.15.1   Account recharge

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	
Description:	Goods owner want to account recharge to account for post bill of lading		

Preconditions:	"Nạp tiền vào tài khoản" item appear on top navigator
Trigger:	"Nạp tiền vào tài khoản" item is clicked
Post conditions:	Recharge the user account

Normal Flow		
Step	**Actor**	**Action**
1	GWN	Hover mouse to user name and Click "Nạp tiền vào tài khoản" button
2	CTC	Display "nganluong.vn" website includes 3 item for 3 way to recharge to account: - "Ví điện thứ Ngân Lượng" button - "Thẻ cào điện thoại" button - "Online bằng thẻ ATM\Internet banking" button - "Chuyển khoản ngân hàng" button
3	GWN	Click one of three button for choose how to recharge to account
4	CTC	Display the way user chose to recharge account
5	GWN	GWN do something follow "Ngân Lượng" guide
6	CTC	Add money to user account

Alternative Flows:		
AT1	At step 4 in the main flows, if GWN click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button

Exceptions: N/A	
Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-48: Account recharge

3.4.4.16 Connect to carrier group function

Figure 3-19: Connect to carrier group function

3.4.4.16.1   Connect to carrier

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	Secondary Actor	
Description:	Goods owner want to connect to carrier		
Preconditions:	Bill of lading is successful		
Trigger:	"Reply" item on bill of lading detail page is clicked		
Post conditions:	Send comment to carrier		
Normal Flow			

Step	Actor	Action	
1	GWN	Click "Chi Tiết" on a bill of lading	
2	CTC	Display bill of lading detail comment includes: - "Hỏi Đáp" input text	
3	GWN	Enter data in fields	
4	GWN	Press enter key word on keyboard	
5	CTC	Send comment to carrier	

Alternative Flows:		
AT1	At step 4 in the main flows, if GWN click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	B14	
Other Information:	N/A	

Table 3-49: Connect to carrier

3.4.4.17 Login group function
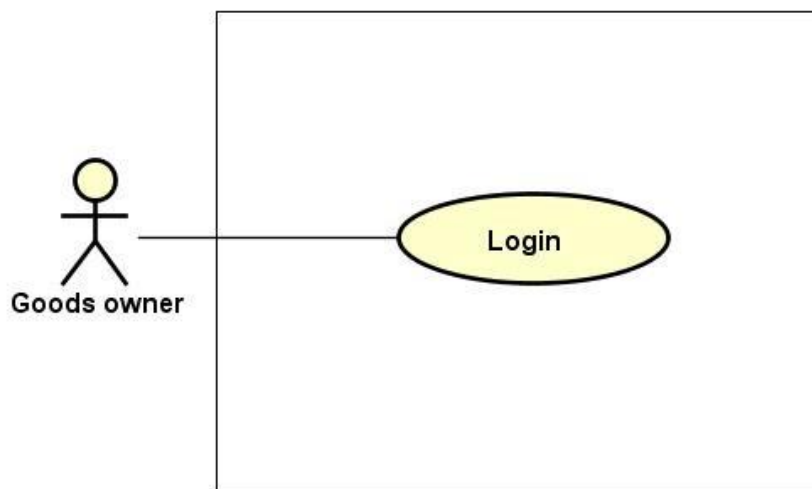
Figure 3-20: Login group function

3.4.4.17.1   Login

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to login to CTC system for work		

Preconditions:		"Đăng nhập" button appear on login page
Trigger:		"Đăng nhập" button on login page is clicked
Post conditions:		GWN login to CTC system
Normal Flow		
Step	**Actor**	**Action**
1	GWN	Click "Đăng nhập" on homepage
2	CTC	Display login page includes: - "Email" input text - "Mật khẩu" input text - "Đăng nhập" button
3	GWN	Enter data in fields
4	CTC	Login account to CTC
Alternative Flows: N/A		
Exceptions:		
EC1	At step 4, required fields are not entered	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
EC2	At step 4, fields are entered with wrong type of data	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
Priority		High
Frequency of Use:		High
Business Rules:		B2, B11
Other Information:		N/A

Table 3-50: Login

3.4.4.18 Logout group function
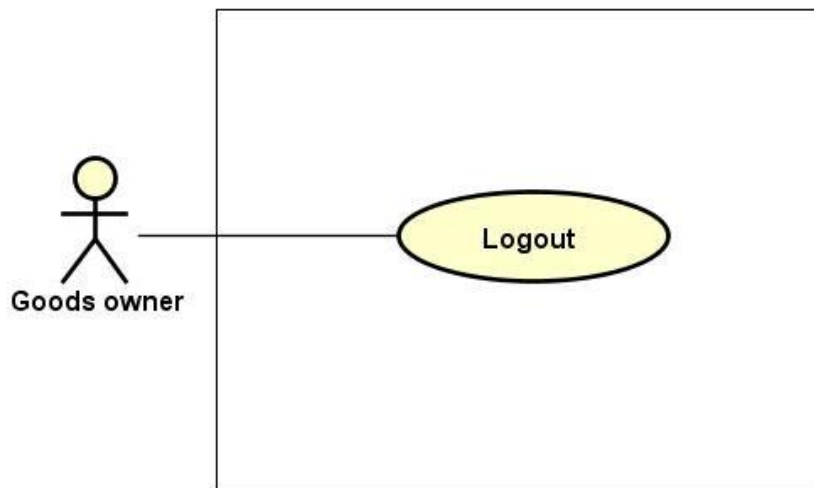
Figure 3-21: Logout group function

3.4.4.18.1   Logout

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Goods owner	**Secondary Actor**	
Description:	Goods owner want to logout CTC system		
Preconditions:	"Đăng xuất" button appear on top navigator		
Trigger:	"Đăng xuất" button is clicked		
Post conditions:	Logout Goods owner account		
Normal Flow			
Step	**Actor**	**Action**	
1	GWN	Click "Đăng xuất" in website	
2	CTC	Logout Goods owner account	
3	CTC	Return homepage	
Alternative Flows: N/A			
Exceptions: N/A			

Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-51: Logout

3.4.5 Admin Group Function

3.4.5.10 Bill of lading list group function
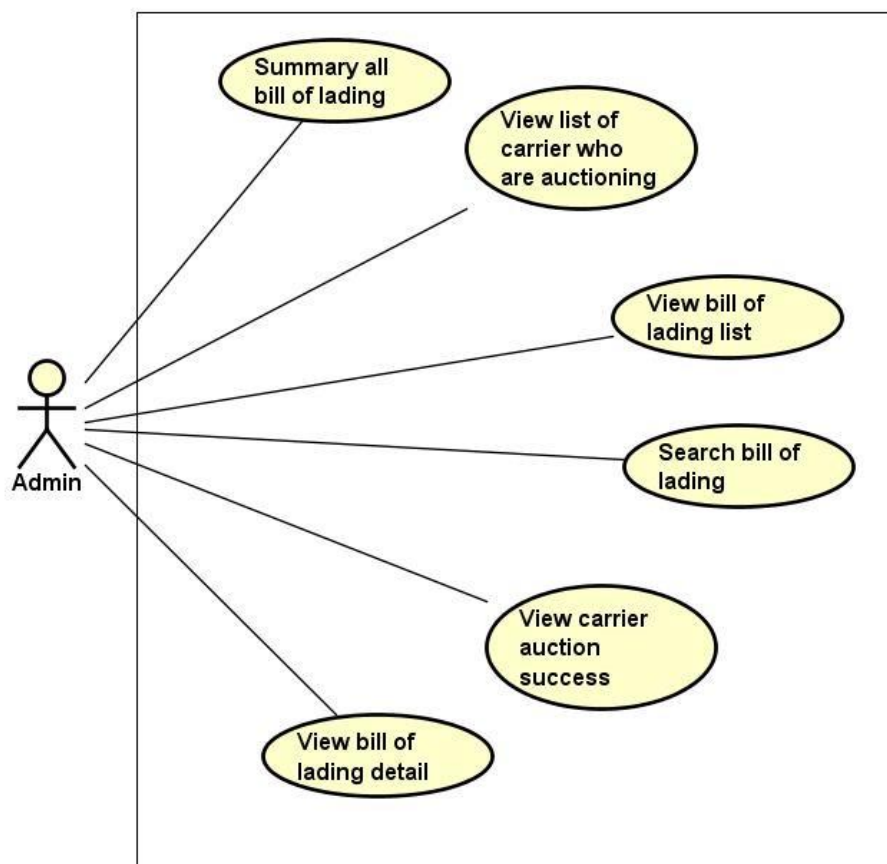
Figure 3-22: Bill of lading list group function

3.4.5.10.1 Summary all bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	Secondary Actor	
Description:	Admin want to summary all bill of lading by bill of lading detail		

Preconditions:	"THỐNG KÊ VẬN ĐƠN" navigator appear on header of website
Trigger:	"THỐNG KÊ VẬN ĐƠN" navigator on header is clicked
Post conditions:	Summary all bill of lading and display result on summary bill of lading page

Normal Flow		
Step	**Actor**	**Action**
1	Admin	Click "Thống Kê Vận Đơn" navigator
2	CTC	Display summary bill of lading page includes: - "Loại hàng select box - "Hình thức đóng gói" select box - "Khối lượng" input text - "Thể tích" input text - "Địa điểm đi" select box - "Địa điểm đến" select box - "Thời gian đi" input text - "Thời gian đến" input text - "Tìm Kiếm" buttons
3	Admin	Enter data in this fields
4	Admin	Click "Tìm Kiếm" button
5	CTC	Summary all bill of lading
6	CTC	Display result on this page

Alternative Flows:		
AT1	At step 4 in the main flows, if admin click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects user to chosen hyperlink or button

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-52: Summary bill of lading

3.4.5.10.2 View bill of lading list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view all bill of lading		
Preconditions:	"Tìm Hàng Chuyển" navigator appear on header of website		
Trigger:	"Tìm Hàng Chuyển" navigator is clicked		
Post conditions:	Display bill of lading list on common page		
Normal Flow			

Step	Actor	Action	
1	Admin	Click "Tìm Hàng Chuyển" navigator	
2	CTC	Display bill of lading list on common page	

Alternative Flows: N/A			
Exceptions: N/A			
Priority	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		

Table 3-53: View bill of lading list

3.4.5.10.3 Search bill of lading

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	User want to find a bill of lading		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on header of website 2. Search box appear on common page		
Trigger:	"Tìm Hàng Chuyển" navigator is clicked		
Post conditions:	Display bill of lading system found		
Normal Flow			

Step	Actor	Action	
1	Admin	Click "Tìm Hàng Chuyển" navigator one website	
2	CTC	Display summary bill of lading page includes:	

		- "Loại hàng select box
		- "Hình thức đóng gói" select box
		- "Khối lượng" input text
		- "Thể tích" input text
		- "Địa điểm đi" select box
		- "Địa điểm đến" input text
		- "Thời gian đi" Date picker
		- "Thời gian đến" Date text
		- "Trạng thái" select box
		- "Tìm Kiếm" buttons
3	Admin	Enter data in this fields
4	Admin	Click "Tìm Kiếm" button search page
5	CTC	Display result on common page
Alternative Flows:		
AT1	At step 4 in the main flows, if user click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority	High	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-54: Seach bill of lading

3.4.5.10.4   View bill of lading detail

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view bill of lading detail, they send request to system and then get result		
Preconditions:	1. "Tìm Hàng Chuyển" navigator appear on homepage 2. Detail icon appear on bill of lading detail page		
Trigger:	Detail icon of bill of lading is clicked		
Post conditions:	Display bill of lading detail on this page		
Normal Flow			

Step	Actor	Action
1	Admin	Click "Tìm Hàng Vận Chuyển" navigator
2	CTC	Display bill of lading list page
3	Admin	Click "Chi Tiết" on bill of lading
4	CTC	Display bill of lading detail on this page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	High	
Frequency of Use:	High	
Business Rules:	B33	
Other Information:	N/A	

Table 3-55: View bill of lading detail

3.4.5.10.5   View carrier auction success

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	Secondary Actor	
Description:	Admin want to view who auction bill of lading successful		
Preconditions:	1. Bill of lading is successful 2. Detail icon of bill of lading appear bill of lading detail page		
Trigger:	Detail icon of bill of lading appear bill of lading detail page is clicked		
Post conditions:	Display who are auction success on bill of lading detail page		
Normal Flow			

Step	Actor	Action
1	Admin	Click "Tìm Hàng Vận Chuyển" navigator
2	CTC	Display bill of lading list page
3	Admin	Click "Chi Tiết" on "Tìm Hàng Chuyển" page
4	CTC	Display who are auction success on detail page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	

Frequency of Use:	Medium
Business Rules:	B33
Other Information:	N/A

Table 3-56: View carrier auction success

3.4.5.10.6   View list carrier who are auctioning

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to know who are auctioning. Admin send request to system and get result		
Preconditions:	1. Bill of lading is auctioning 2. Detail icon of bill of lading appear bill of lading detail page		
Trigger:	Detail icon of bill of lading appear bill of lading detail page is clicked		
Post conditions:	Display who are auctioning on bill of lading detail page		
Normal Flow			

Step	**Actor**	**Action**
1	Admin	Click "Tim Hàng Vận Chuyển" navigator
2	CTC	Display bill of lading list page
3	Admin	Click detail icon on bill of lading
4	CTC	Display who are auctioning on bill of lading detail page

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-57: View list carrier who are auctioning
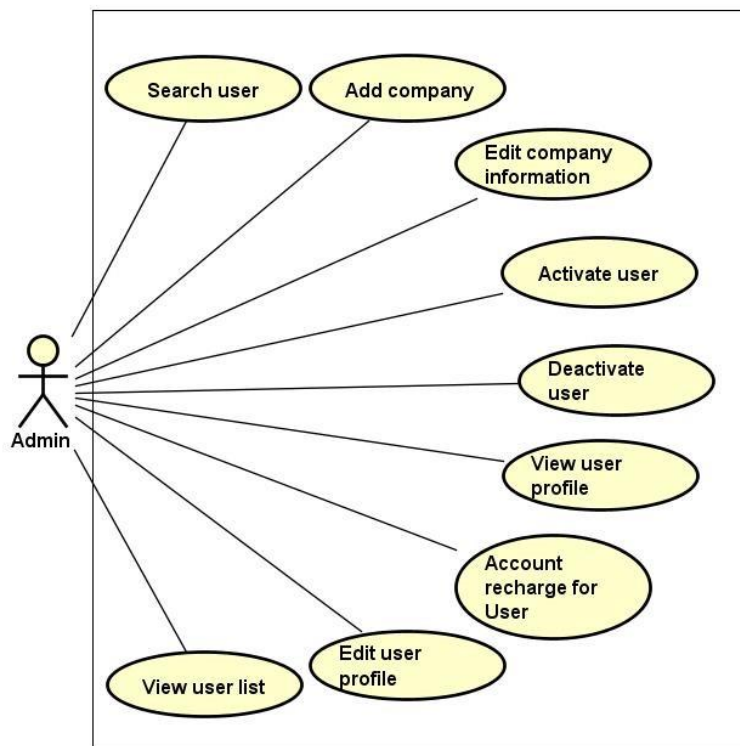
3.4.5.11 Manage user group function

Figure 3-23: Manage user group function

3.4.5.11.1   Search user

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	Secondary Actor	
Description:	Admin want to find a user in user list. Admin send request to system and then get result		
Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Search box appear on list user page		
Trigger:	"QUẢN LÝ NGƯỜI DÙNG" navigator is clicked		
Post conditions:	Display user list by require of admin on list user page		
Normal Flow			
Step	Actor	Action	

1	Admin	Click "Quản Lý User" navigator
2	CTC	Display search user page includes: - "Tên người dùng" input text - "email" input text - "Tỉnh" input text - "Quyền truy cập"select box - "Tìm kiếm" button
3	Admin	Enter data in all or more than one fields
4	Admin	Click "Tìm Kiếm" button on manage user page
5	CTC	Display user list by require of admin on list user page
Alternative Flows:		
AT1	At step 4 in the main flows, if user click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects admin to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-58: Search user

3.4.5.11.2 View user profile

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view user profile		
Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Detail icon of bill of lading appear on list user page		
Trigger:	Detail icon of bill of lading is clicked		
Post conditions:	Display user detail on user detail page		
Normal Flow			
Step	**Actor**	**Action**	

1	Admin	Click "Chi Tiết" on user detail page
2	CTC	Display user detail on user detail page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	B27	
Other Information:	N/A	

Table 3-59: View user profile

3.4.5.11.3 Edit company information

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to add company information to user.		
Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Detail icon of user detail appear on user detail page 3. "Thay Đổi" button appear on "Thông Tin Công Ty" box		
Trigger:	"Thay Đổi" button is clicked		
Post conditions:	Edit company information to user		
Normal Flow			

Step	Actor	Action
1	Admin	Click "Thay đổi" button on view user company detail
2	CTC	Display add company information for user pop-up includes: - "Tên công ty" input text - "Email" input text - "Số điện thoại" input text - "Fax" input text - "Địa chỉ" input text - "Mã số thuế" input text - "Hủy bỏ" button
3	Admin	- Enter data on fields - Click "Xác nhận" button
4	CTC	- Edit company information for user

Alternative Flows: N/A		
AT1	At step 3 in the main flows, admin click "Hủy bỏ" button	
Step	**Actor**	**Action**
4.1	CTC	Close "Chỉnh sửa thông tin công ty" pop-up
Exceptions: N/A		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-60: Add company information

3.4.5.11.4 Edit user profile

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to change user profile		
Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Detail icon of user detail appear on user detail page 3. "Thay Đổi" button appear on "Thông Tin Cá Nhân" box		
Trigger:	"Thay Đổi" button appear on "Thông Tin Cá Nhân" box is clicked		
Post conditions:	Save user profile in database and display user profile one detail user view page		
Normal Flow			
Step	**Actor**	**Action**	

1	Admin	Admin click "Thay Đổi" button
2	CTC	Display pop-up includes: - "Chọn ảnh" file chooser - "Họ tên" input text - "Bạn là" (phân quyền quản trị) check box - "Email" input text - "Địa chỉ" input text - "Chứng minh thư" input text - "Ngày cấp thẻ" date picker - "Ngày tham gia" date picker - "Thay Đổi" button
3	Admin	Change data in this fields
4	Admin	Click "Lưu Thay Đổi" button
5	CTC	Save changed in database
6	CTC	Display changed on detail user view page
Alternative Flows:		
AT1	At step 4, admin click "x" in pop-up	
Step	**Actor**	**Action**
6.1	CTC	Display user detail page
AT2	At step 4 in the main flows, if user click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	B27	
Other Information:	N/A	

Table 3-61: Edit user profile

3.4.5.11.5   Account recharge for user

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to recharge account for user		

Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Detail icon of user detail appear on user detail page 3. "Nạp tiền" button appear on "Thông Tin Cá Nhân" box
Trigger:	"Nạp Tiền" button on view user detail page is clicked
Post conditions:	Recharge account for user

Normal Flow		
Step	**Actor**	**Action**
1	Admin	Click "Nạp Tiền" button on view user detail page
2	CTC	Display Recharge account for user pop-up includes: - "Số tiền" input text - "Xác nhận" button - "Hủy bỏ" button
3	Admin	- Enter data on "Số tiền" input text - Click "Xác nhận" button
4	Admin	- Recharge account for user - Updated view user detail page

Alternative Flows: N/A		
AT1	At step 3 in the main flows, admin click "Hủy bỏ" button	
Step	**Actor**	**Action**
4.1	CTC	Close "Nạp Tiền" pop-up

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-62: Account recharge for company

3.4.5.11.6   Activate user

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to active user account. This user can do something on website		

Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Activate icon of user appear on user detail page 3. User is deactivated	
Trigger:	Activate icon of user appear on user detail page is clicked	
Post conditions:	User become active status	
Normal Flow		
Step	**Actor**	**Action**
1	Admin	Click "Active" button one user list page
2	CTC	Active account to active status
Alternative Flows: N/A		
Exceptions: N/A		
Priority	High	
Frequency of Use:	Medium	
Business Rules:	B27	
Other Information:	N/A	

Table 3-63: Activate user

3.4.5.11.7   Deactivate user

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to make an account to deactivate. This account can't work on website		
Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Activate icon of user appear on user detail page 3. User is active		
Trigger:	Deactivate icon on user list page is clicked		
Post conditions:	Admin is deactivation status and this user can't work on website		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Click "Deactivate" button on user list page	
2	CTC	Set user to deactivation status	

Alternative Flows: N/A	
Exceptions: N/A	
Priority	High
Frequency of Use:	Medium
Business Rules:	B27
Other Information:	N/A

Table 3-64: Deactivate user

3.4.5.11.8   Add company

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	Secondary Actor	
Description:	Admin want to add company information to user.		
Preconditions:	1. "QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website 2. Detail icon of user appear on user detail page 3. "Thêm mới" button appear on "Thông tin công ty" box		
Trigger:	"Thêm mới" button on view user detail page is clicked		
Post conditions:	Add company information to user		

Normal Flow		
Step	**Actor**	**Action**
1	Admin	Click "Thêm mới" button on view user detail page
2	CTC	Display add company information for user pop-up includes: - "Tên công ty" input text - "Email" input text - "Số điện thoại" input text - "Fax" input text - "Địa chỉ" input text - "Mã số thuế" input text - "Hủy bỏ" button
3	Admin	- Enter data on fields - Click "Xác nhận" button
4	CTC	- Add company information for user

Alternative Flows: N/A	
AT1	At step 3 in the main flows, admin click "Hủy bỏ" button

Step	Actor	Action
4.1	CTC	Close "Thêm thông tin công ty" pop-up
Exceptions: N/A		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
Priority		Medium
Frequency of Use:		Medium
Business Rules:		N/A
Other Information:		N/A

Table 3-65: Add company

3.4.5.11.9   View user list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view user list of CTC		
Preconditions:	"QUẢN LÝ NGƯỜI DÙNG" navigator appear on header of website		
Trigger:	"QUẢN LÝ NGƯỜI DÙNG" navigator is clicked		
Post conditions:	Display user list on list user page		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Click "Quản lý người dùng" navigator	
2	CTC	Display user list on list user page	
Alternative Flows: N/A			

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-66: View user list

3.4.5.12 Price list group function
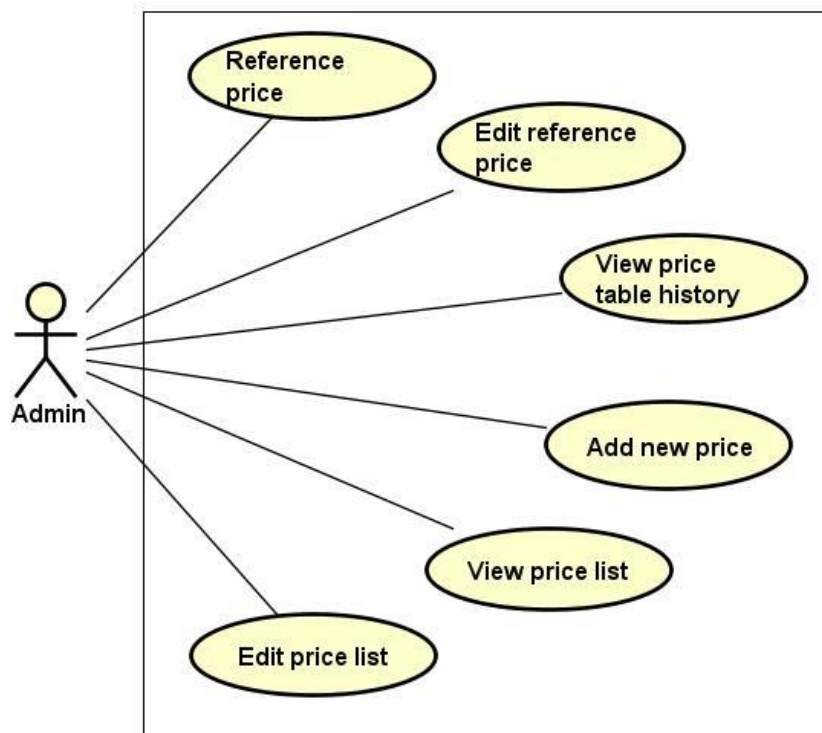
Figure 3-24: Price list group function

3.4.5.12.1   View price list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view list of price		
Preconditions:	1. "Hệ Thống" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		

Trigger:	"Hệ Thống" item is clicked	
Post conditions:	Display price list on price list page	
Normal Flow		
Step	**Actor**	**Action**
1	Admin	Hover mouse to "Báo Giá" navigator and then click "Hệ Thống" item
2	CTC	Display price list on price list page
Alternative Flows: N/A		
Exceptions: N/A		
Priority	High	
Frequency of Use:	High	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-67: View price list

3.4.5.12.2   Edit price list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to edit price for match with real price		
Preconditions:	1. "Hệ Thống" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website 3. Detail icon of price appear on list operation free page		
Trigger:	Detail icon of price is clicked		
Post conditions:	Save changed in database and display "chỉnh sửa thành công" message on pop-up.		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Enter some fields on edit price page	
2	Admin	Click "Xác Nhận" on edit price page	
3	CTC	Save changed in database and display "chỉnh sửa thành công" message on pop-up	
Alternative Flows:			

AT1	At step 2, admin click "Hủy Bỏ" button on edit page	
Step	**Actor**	**Action**
3.1	CTC	System return to price list page
AT2	At step 4 in the main flows, if admin click other hyperlinks or buttons	
Step	**Actor**	**Action**
3.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority	High	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-68: Edit price list

3.4.5.12.3   View price table history

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view history of price table		
Preconditions:	1. "Hệ Thống" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website 3. Search box appear on list operation free page		
Trigger:	"Hệ Thống" item is clicked		
Post conditions:	Display price history list		
Normal Flow			

Step	Actor	Action
1	Admin	Hover mouse to "Báo Giá" navigator and click "Tham chiếu" item
2	CTC	Display price list from other website includes: - Cost types status Select box - "Tìm kiếm" button
3	Admin	- Select "Lịch sử" item or "đang áp dụng" item - Click "Tìm kiếm" button
4	Admin	- Display price table history

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-69: View price table history

3.4.5.12.4   Add a new price

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	Secondary Actor	
Description:	Admin want to add a new price to system		
Preconditions:	1. "HỆ THỐNG" item appear on header of website 2. "THÊM MỚI" item appear on header of website		
Trigger:	"THÊM MỚI" item appear on header of website is clicked		
Post conditions:	Add new price to database and display "thêm mới thành công" message on pop-up		
Normal Flow			

Step	Actor	Action
1	Admin	Hover mouse to "Báo Giá" navigator and click "Thêm Mới" item
2	CTC	Display add new price includes: - "Tên chi phí" input text - "Mã chi phí" input text - "Loại" check box - "Chi phí" input text - "Tỷ lệ chi phí" input text - "Mô tả" input text - "Thêm mới" button - "Hủy bỏ" button
3	Admin	Enter some fields on add new price page
4	Admin	Click "Thêm Mới" on add new price page
5	CTC	Add a new price to database

6	CTC	Add new price to database and display "thêm mới thành công" message on pop-up
Alternative Flows:		
AT1	At step 4, admin click "Hủy Bỏ" button	
Step	**Actor**	**Action**
6	CTC	System return to price list page
AT2	At step 4 in the main flows, if user click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button
Exceptions:		
EC1	At step 2, required fields are not entered	
Step	**Actor**	**Action**
2.1	CTC	Display Register page with message error
2.2	CTC	Mark error fields
EC2	At step 4, fields are entered with wrong type of data	
Step	**Actor**	**Action**
2.1	CTC	Display Register page with message error
2.1	CTC	Mark error fields
Priority	High	
Frequency of Use:	High	
Business Rules:	B28, B29, B30, B31, B32	
Other Information:	N/A	

Table 3-70: Add new price

3.4.5.12.5   Reference price

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to reference real price		
Preconditions:	1. "Tham Chiếu" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website		
Trigger:	"Tham chiếu" item is clicked		

Post conditions:	Display price list
Normal Flow	

Step	Actor	Action
1	Admin	Hover mouse to "BÁO GIÁ" navigator and Click "Tham chiếu" item
2	CTC	Display price list from other website

Alternative Flows: N/A	
Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-71: Reference price

3.4.5.12.6   Edit reference price

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to edit reference price list		
Preconditions:	1. "THAM CHIẾU" item appear on header of website 2. "BÁO GIÁ" navigator appear on header of website 3. Detail icon of price appear on list operation free		
Trigger:	Detail icon of price appear on list operation free is clicked		
Post conditions:	Update new reference price		
Normal Flow			

Step	Actor	Action
1	Admin	Hover mouse to "Báo Giá" navigator and click "Tham chiếu" item and click detail icon of price
2	CTC	Display reference price list
3	Admin	Click detail icon
4	CTC	Display "Nhập giá tham chiếu" popup includes: "Giá tham chiếu" input text "Xác nhận" button

		"Hủy bỏ" button
5	Admin	Enter data in field
6	Admin	Click "Xác Nhận" button
7	CTC	Display "Chỉnh sửa thành công" message in popup
Alternative Flows: N/A		
AT1	At step 6, admin click "Hủy Bở" button	
Step	**Actor**	**Action**
6.1	CTC	System return to price list page
AT2	At step 6 in the main flows, if user click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority		Medium
Frequency of Use:		Medium
Business Rules:		N/A
Other Information:		N/A

Table 3-72: Edit reference price

3.4.5.13 Manage report group list
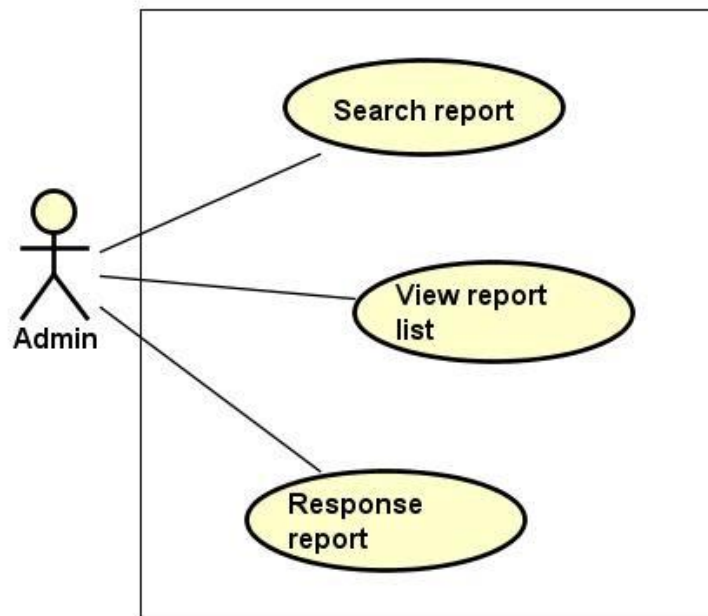
Figure 3-25: Manage report group list

3.4.5.13.1   Search report

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to find a report in report list		
Preconditions:	1. "BÁO CÁO TỪ NGƯỜI DÙNG" navigator appear header of website 2. Search box appear on list report user page		
Trigger:	"BÁO CÁO CỦA TÔI" navigator appear header of website		
Post conditions:	Display report on report list page		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Admin click "Quản Lý Report" navigator	
2	CTC	Display search page includes: - "Tên tài khoản" input text	

		- "Tên người dung" input text
		- "Tiêu đề báo cáo" input text
		- "ngày bắt đầu" input text
		- "ngày kết thúc" input text
		- "Tìm kiếm" button
3	Admin	Enter data in fields
4	Admin	Click "Tìm kiếm" button
5	CTC	Display result on report list page

Alternative Flows:		
AT1	At step 4 in the main flows, if admin click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-73: Search report

3.4.5.13.2   View report list

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to view report list		
Preconditions:	"BÁO CÁO TỪ NGƯỜI DÙNG" navigator appear header of website		
Trigger:	"BÁO CÁO CỦA TÔI" navigator appear header of website		
Post conditions:	Display report list on report list page		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Click "Báo Cáo Của Tôi" navigator	
2	CTC	Display report list on report list page	
Alternative Flows: N/A			

Exceptions: N/A	
Priority	Medium
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-74: View report list

3.4.5.13.3   Response report

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to response report to goods owner or carrier		
Preconditions:	1. "BÁO CÁO TỪ NGƯỜI DÙNG" navigator appear header of website		
Trigger:	"Tiêu Đề Báo Cáo" is clicked		
Post conditions:	Response report to goods owner or carrier		
Normal Flow			

Step	Actor	Action
1	Admin	Click "Tiêu Đề Báo Cáo" link
2	CTC	Display response report page includes: - Report of user detail (sender, receiver, account of sender, send date, question from sender, hoping) - "Nội dung" input text - "Phản hồi" button - "Quay lại" button
3	Admin	Enter data in fields
4	Admin	Click "Xác nhận" button
5	CTC	Response report to sender

Alternative Flows:		
AT1	At step 4, admin click "Quay lại" button	

Step	Actor	Action
5.1	CTC	Display report list page

AT2	At step 4 in the main flows, if admin click other hyperlinks or buttons

Step	Actor	Action
5.1	CTC	Redirects user to chosen hyperlink or button
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-75: Response report

3.4.5.14 Manage profile group function
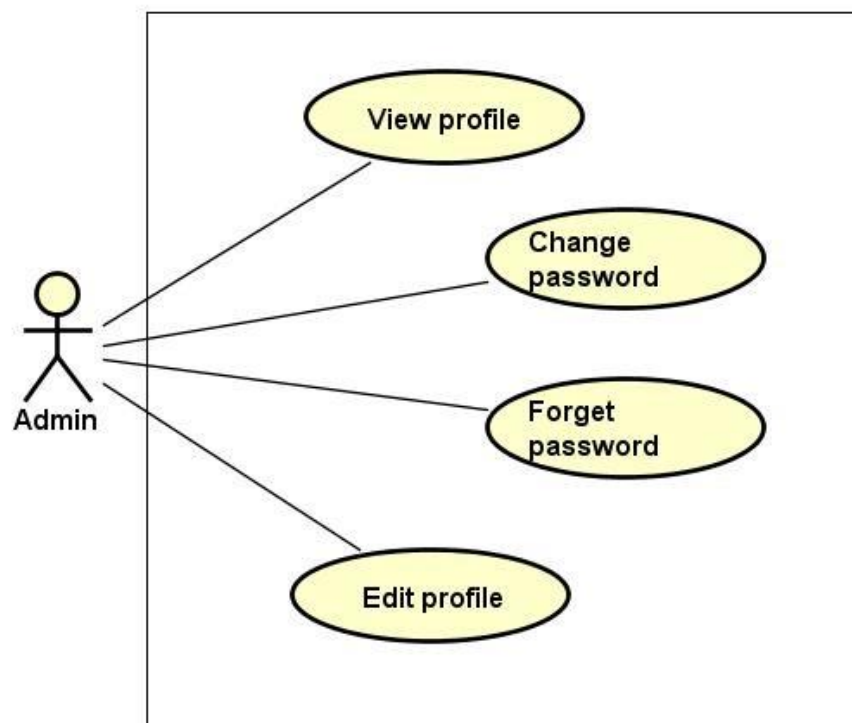
Figure 3-26: Manage profile group function

3.4.5.14.1 View profile

Created by:	QuyetTD	Date Created:	08/03/2017

Primary Actor	Administration	Secondary Actor	
Description:	Admin want to view admin's profile		
Preconditions:	"Thông Tin Cá Nhân" item appear on top navigator		
Trigger:	"Thông Tin Cá Nhân" item is clicked		
Post conditions:	Display admin profile on detail user view page		
Normal Flow			

Step	Actor	Action	
1	Admin	Hover mouse to user name label and click "Thông Tin Cá Nhân" item	
2	CTC	Display admin profile on detail user view page	

Alternative Flows: N/A			
Exceptions: N/A			
Priority	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		

Table 3-76: View profile

3.4.5.14.2   Edit profile

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to edit admin profile		
Preconditions:	"Thay Đổi" button appear on detail user view page		
Trigger:	"Thay Đổi" button on detail user view page is clicked		
Post conditions:	Save admin profile in database and display successful message		
Normal Flow			

Step	Actor	Action	
1	Admin	Hover mouser to user name label and clicj "Chỉnh Sửa Thông Tin" item	
2	CTC	Display pop-up includes: - "Chọn ảnh" file chooser	

		- "Họ tên" input text - "Bạn là" (phân quyền quản trị) check box - "Email" input text - "Địa chỉ" input text - "Chứng minh thư" input text - "Ngày cấp thẻ" date picker - "Ngày tham gia" date picker - "Thay Đổi" button
3	Admin	Change data in this fields
4	Admin	Click "Lưu Thay Đổi" button
5	CTC	Save changed in database
6	CTC	Display successful message

Alternative Flows:		
AT1	At step 4, admin click "x" in pop-up	
Step	**Actor**	**Action**
6.1	CTC	Display user detail page
AT2	At step 4 in the main flows, if admin click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects admin to chosen hyperlink or button

Exceptions: N/A	
Priority	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A

Table 3-77: Edit profile

3.4.5.14.3 Change password

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to change password for security		
Preconditions:	"Thay đổi mật khẩu" item appear on top navigator		
Trigger:	"Thay đổi mật khẩu" item is clicked		

Post conditions:	Change admin's password	
Normal Flow		
Step	**Actor**	**Action**
1	Admin	Hover mouse to user name label and click "Đổi mật khẩu" item
2	CTC	Display change password page includes: - "Mật khẩu cũ" input text - "Mật khẩu mới" input text - "Xác nhận mật khẩu" input text - "Đổi mật khẩu" button input text
3	Admin	Enter data in this fields
4	Admin	Click "Đổi mật khẩu" button
5	CTC	Save new password in database
6	CTC	Return to homepage
Alternative Flows:		
AT1	At step 4 in the main flows, if admin click other hyperlinks or buttons	
Step	**Actor**	**Action**
6.1	CTC	Redirects admin to chosen hyperlink or button
Exceptions:		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
EC3	At step 3, password is wrong	
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields

EC4		At step 3, new password and confirm password are not match
Step	**Actor**	**Action**
6.1	CTC	Display Register page with message error
6.2	CTC	Mark error fields
Priority		Medium
Frequency of Use:		Medium
Business Rules:		B12, B15
Other Information:		N/A

Table 3-78: Change password

3.4.5.14.4 Forget password

Created by:		QuyetTD	**Date Created:**	08/03/2017
Primary Actor		Administration	**Secondary Actor**	
Description:		Admin forget password. They want to reset password		
Preconditions:		"Quên mật khẩu" label appear on login page		
Trigger:		"Quên mật khẩu" label on login page is clicked		
Post conditions:		System send new password to admin's email		
Normal Flow				
Step	**Actor**	**Action**		
1	Admin	Admin click "Quên mật khẩu" label on login page		
2	CTC	Display forget password page includes: - "Email đăng ký" input text - "Gửi" button		
3	Admin	Enter email address they use for register admin account		
4	CTC	Send new password to admin's email address		
Alternative Flows:				
AT1		At step 4 in the main flows, if admin click other hyperlinks or buttons		
Step	**Actor**	**Action**		
6.1	CTC	Redirects admin to chosen hyperlink or button		
Exceptions: N/A				

Priority	Medium
Frequency of Use:	High
Business Rules:	B22
Other Information:	N/A

Table 3-79: Forget password

3.4.5.15 Transaction history group function
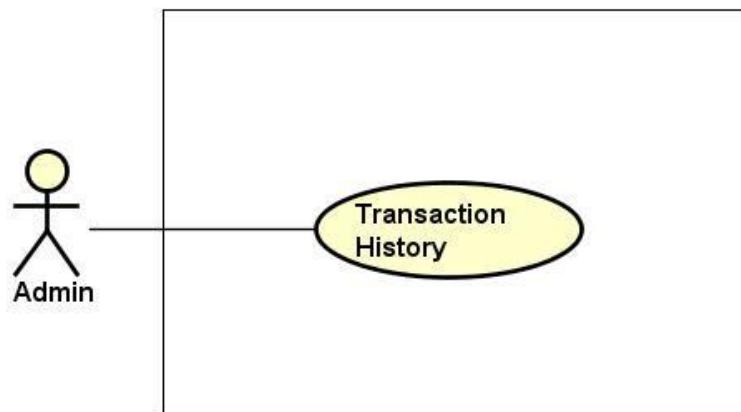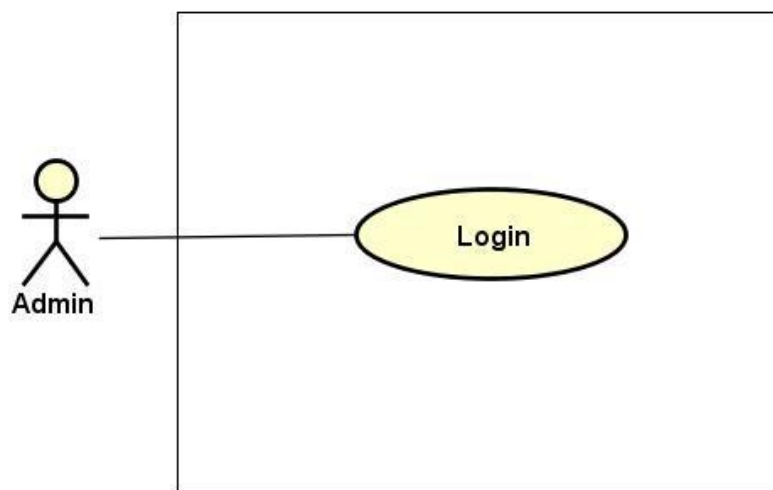

Figure 3-27: Transaction history group function

3.4.5.15.1   Transaction history

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to check money in account and what did they do with money		
Preconditions:	"Thông tin giao dịch" item appear on top navigator		
Trigger:	"Thông tin giao dịch" item is clicked		
Post conditions:	Display money in account and transaction history		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Hover mouse to user name and Click "Thông tin giao dịch" item	

2	CTC	Display money in account and transaction history
Alternative Flows: N/A		
Exceptions: N/A		
Priority	Medium	
Frequency of Use:	Medium	
Business Rules:	N/A	
Other Information:	N/A	

Table 3-80: Transaction history

3.4.5.16 Login group function

Figure 3-28: Login group function

3.4.5.16.1   Login

Created by:	QuyetTD	**Date Created:**	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to login to CTC system for work		
Preconditions:	"Đăng nhập" button appear on login page		
Trigger:	"Đăng nhập" button on login page is clicked		

Post conditions:	Admin login to CTC system	
Normal Flow		
Step	**Actor**	**Action**
1	Admin	Click "Đăng nhập" label on homepage
2	CTC	Display login page includes: - "Email" input text - "Mật khẩu" input text - "Đăng nhập" button
3	Admin	Enter data in fields
4	Admin	Click "Đăng nhập" button
5	CTC	Login account to CTC
Alternative Flows:		
AT1	At step 4 in the main flows, if admin click other hyperlinks or buttons	
Step	**Actor**	**Action**
5.1	CTC	Redirects admin to chosen hyperlink or button
Exceptions: N/A		
EC1	At step 3, required fields are not entered	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
EC2	At step 3, fields are entered with wrong type of data	
Step	**Actor**	**Action**
4.1	CTC	Display Register page with message error
4.2	CTC	Mark error fields
Priority		High
Frequency of Use:		High
Business Rules:		B2, B11
Other Information:		N/A

Table 3-81: Login

3.4.5.17 Logout group function
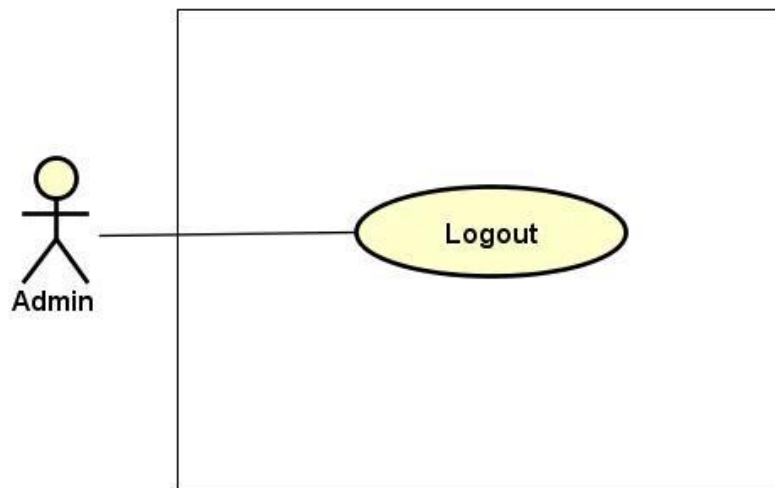
Figure 3-29: Logout group function

3.4.5.17.1   Logout

Created by:	QuyetTD	Date Created:	08/03/2017
Primary Actor	Administration	**Secondary Actor**	
Description:	Admin want to logout CTC system		
Preconditions:	"Đăng xuất" button appear on top navigator		
Trigger:	"Đăng xuất" button is clicked		
Post conditions:	Logout admin account		
Normal Flow			
Step	**Actor**	**Action**	
1	Admin	Click "Đăng xuất" label in website	
2	CTC	Logout admin account	
3	CTC	Return homepage	
Alternative Flows: N/A			
Exceptions: N/A			

Priority	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A

Table 3-82: Logout

4   NON-FUNCTIONAL SPECIFICATION

4.3 Reliability

- Mean time between failures: The mean time between each failure is expected to be about 500 hours of using.
- Database data is not deleted, for data restoration or recall history when we needed
- The maximum bugs per function are 1 bugs/a function when user uses software within 2 months.
- System errors must be repaired no more than 3 days after detected.

4.4 Performance Requirements

4.4.2 Availability

The application must be available 99% of time. Users can access to it everywhere from their Web browser with internet connection.

4.4.3 Response time

In term of response time, waiting time of processing will be 2 to 5 seconds; time to process any functions no more than 3 seconds

4.4.4 Maintainability

- Strictly follow the coding convention to help improve readability of source code and make the website more maintainable.
- Develop website based on Object Oriented Programming paradigm in order to increase maintainability and extendibility.

4.4.5 Usability

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

- Efficiency of use: user can complete each function in less than 40 actions
- Intuitiveness: User can understand approximately 95% help/ error messages
- All of screen should be elegant and simple.
- All attributes are provided for non-text elements, such as images and maps.
- Search box is wide enough, so that users can see what they have typed.
- Links are easily recognizable. They look clickable. Items that are not links do not look clickable, for example underlining text is avoided.
- Colors must be uniform
- The buttons must be large enough and not too large

4.4.6 Security Requirements

- When registering, user must use the correct email address. So they can access to confirm link in email.
- Sensitive information is stored in md5 format in database.
- Using access control.
- Sensitive information is encrypted before transmission.
- Use SSL certificate number.

4.4.7 Hardware/Software Requirements

- **Hardware requirement:**
  - **Server:** Web service 2013, IIS8
  - **Client:** PC/Laptop (window 7, window 8, window 10)
- **Software requirements:** Web browser (Chrome 40.0, Firefox 30.0) with internet connection