



Capstone Project Document

Carrier Trading Center

Report #1 – Software Test Documentation

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	

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SIGNATURE PAGE

AUTHOR:	Trịnh Đình Quyết	10/01/2017
	Team member	
REVIEWERS:	Lê Văn Dương	11/01/2017
	Project manager	
APPROVAL:	Nguyễn Văn Sang	--/--/2017
	Supervisor	

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1 INTRODUCTION

1.1 Purpose

The purpose of this document is to plan all the activities needed to perform testing for the system including test strategy and test control. This document also defines scope, requirements, and constraints, risks of testing stages.

1.2 System overview

CTC is an online system that can run on web application. It is flexible and convenient to use every time and everywhere that can connect to the internet. The system is divided into multiple modules for each specific kind of user. The combination of these modules makes the workflow of the whole system become unified, so that it can work fluently. On CTC, that system provides these main functions

1.2.1 Client features

1.2.1.1 Guest features

- **Register:**
 - Register a new account: guest can register a new account to become a new user to use CTC service.
- **List bill of lading:**
 - Search bill of lading: guest can search bill of lading on CTC with key words
 - View bill of lading list: guest can view bill of lading are auctioning on CTC.
- **Price list:**
 - View price: guest can view price list on CTC.
 - Reference price: guest can reference price actual price system updated.

1.2.1.2 Goods owner features

- **List bill of lading:**
 - View bill of lading list: goods owner can view bill of lading are auctioning on CTC.
 - View bill of lading detail: goods owner can view bill of lading detail on CTC.
 - Search bill of lading: goods owner can search bill of lading on CTC with key words.
 - View carrier auction success: When bill of lading of goods owner is successful, they can view who got their bill of lading.
 - Confirm complete transaction: when receiver received goods, goods owner had to confirm with system to get the arrange payment.
 - Register a new bill of lading: when goods owner has goods for transport they can create a bill of lading to post on CTC to find carrier.
 - Cancel bill of lading: when goods owner doesn't want to send their goods, they can be using cancel function to remove their bill of lading.
- **Manage profile:**
 - Edit profile: goods owner can edit their profile on system.
 - View profile: goods owner can view their profile on system.
 - Change password: goods owner can change their password for raise security.

- Forget password: when goods owner does not remember their password, they can send request to system to reset password.
- Add company: goods owner can add company's information to their detail.
- **Manage report:**
 - Send report: goods owner can send report to admin.
 - Search report: goods owner can search report in their report list with title of report, time sent.
 - View report list: goods owner can view their report on their report list.
 - Cancel report: goods owner can cancel their report.
- **Price list:**
 - Reference price: goods owner can view price list on CTC.
 - View price list: goods owner can reference price actual price system updated.
 - Account recharge: goods owner can recharge to their account for use CTC's services.
- **Transaction history:**
 - Transaction history: goods owner can check money in their account and check what did they do with their money.
- **Login:**
 - Login: goods owner can login to CTC to use CTC's service.
- **Logout:**
 - Logout: goods owner can logout CTC.
- **Connect to carrier:**
 - Connect to carrier: when goods owner is success on auction bill of lading, they can contact to carrier who got the auction and will carry their goods.

1.2.1.3 Carrier feature

- **List bill of lading**
 - View bill of lading list: carrier can view bill of lading are auctioning on CTC.
 - Confirm complete transaction: when receiver got goods, carrier have to confirm with system to get down payment.
 - View bill of lading detail: carrier can view bill of lading detail on CTC
 - Auction bill of lading: when carrier want to transport goods, they can find a bill of lading and then auction it.
 - Search bill of lading: carrier can search bill of lading on CTC with key words.
 - Cancel bill of lading: because some reason carrier cannot transport continue, they can be cancel bill of lading.
- **Manage profile:**
 - Edit profile: carrier can edit their profile on system.
 - View profile: carrier can view their profile on system.
 - Change password: carrier can change their password for raise security.
 - Forget password: carrier do not remember their password, they can send request to system to reset password.
 - Add company: carrier can add company's information to their detail.
- **Manage report:**
 - Send report: carrier can send report to admin.

- Search report: carrier can search report in their report list with title of report, time sent.
- View report list: carrier can view their report on their report list.
- Cancel report: carrier can cancel their report.
- **Price list:**
 - Reference price: carrier can view price list on CTC.
 - View price list: carrier can reference price actual price system updated.
- **Account recharge:**
 - Account recharge: carrier can recharge to their account for use CTC's services.
 - Transaction history: carrier can check money in their account and keep track what did they do with their money.
- **Login:**
 - Login: carrier can login to CTC to use CTC's service.
- **Logout:**
 - Logout: carrier can logout CTC.
- **Connect to goods owner:**
 - Connect to goods owner: when goods owner is success on auction bill of lading, they can connect to goods owner who have goods they carry.

1.2.2 Admin features

- **List bill of lading:**
 - View bill of lading list: admin can view bill of lading are auctioning on CTC.
 - View bill of lading detail: admin can view bill of lading detail on CTC.
 - Search bill of lading: admin can search bill of lading on CTC with key words.
 - View carrier auction success: When bill of lading of goods owner is successful, admin can view how are get their bill of lading.
 - Summary all bill of lading: admin can summary all bill of lading.
 - View carrier list who are auctioning: admin can view how many carrier are auctioning a bill of lading and who are auctioning bill of lading.
- **Manage user:**
 - Search user: admin can search user with name of user, email address, province, role of user keyword.
 - View user profile: admin can view user profile.
 - Edit user profile: admin can edit user profile.
 - Active user: admin can active user to allow this user can use CTC's service.
 - Deactivate user: admin can deactivate user to disallow user use CTC's service.
 - Add company: admin can add company's information to user detail.
 - Account recharge for user: admin can recharge directly to account of user.
 - Edit company information: admin can edit user's company's information.
- **Price list:**
 - Reference price: admin can view price list on CTC.
 - View price list: admin can reference price actual price system updated.
 - Add a new price: admin can add a new price to price list on CTC.
 - Edit price list: admin can edit price on price list on CTC.
 - View price table history: admin can view history of price table.

- Edit reference price: admin can edit reference price.
- **Manage report:**
 - Send report: admin can response report to goods owner and carrier.
 - Search report: admin can search report in their report list with title of report, time sent.
 - View report list: admin can view their report on their report list.
- **Transaction history:**
 - Transaction history: admin can check money in their account and keep track what did they do with their money.
- **Login:**
 - Login: admin can login to CTC to use CTC's service.
- **Logout:**
 - Logout: admin can logout CTC.
- **Manage profile:**
 - Edit profile: admin can edit their profile on system.
 - View profile: admin can view their profile on system.
 - Change password: admin can change their password for raise security.
 - Forget password: admin do not remember their password, they can send request to system to reset password.

2 TEST PLAN

2.1 Scope of testing

The scope of testing in the project include:

- **Stages of testing:** the team has responsibility to conduct Unite testing, Integration testing and System testing
- **Types of testing:** The test team have to test functional and user interface testing
- **Range of testing:** Team performs testing all functions defined in the SRS based on the approved version. Test cases of each function are defined in the Test cases document that will be tested to determine if they meet the requirements and intermediate result will also be checked according to the SRS

2.2 Requirement for testing

2.2.1 Test items

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		View report list	
UC052	Price list	Reference price	
UC053		View price list	
UC054	Account recharge	Account recharge	

UC055	Transaction history	Transaction history	
UC056	Login	Login	
UC057	Logout	Logout	
UC058	Connect to carrier	Connect to carrier	
Carrier			
UC059	Bill of lading list	View bill of lading list	
UC060		Confirm complete transaction	
UC061		View bill of lading detail	
UC062		Auction bill of lading	
UC063		Search bill of lading	
UC064		Cancel bill of lading	
UC065	Manage profile	Edit profile	
UC066		View profile	
UC067		Change password	
UC068		Forget password	
UC069		Add company	
UC070	Manage report	View report list	
UC071		Search report	
UC072		Send report	
UC073	Price list	Reference price	
UC074		View pricing list	
UC075	Transaction history	Transaction history	
UC076	Login	Login	
UC077	Logout	Logout	
UC078	Connect to goods owner	Connect to goods owner	
UC079	Account recharge	Account recharge	

2.2.2 Acceptance Test Criteria

- System does not have customers to perform acceptance test.

2.2.3 Constraints

- Testing team only has 2 members
- The program has many functions so the number of line code is also, lead to have more number of test cases.

2.2.4 Risk list

The project could face with some risks:

- Tester has not familiar with CTC so that the progress testing is slower than plan, team may not keep the deadline as plan
- Test devices may go off
- Lack of time and resources for testing
- Members may get sick during project implementation

2.1 Test strategy

2.1.1 Test policy

- Test without good faith.
- Find bugs as soon as possible and always make sure they have been fixed.
- No outstanding high severity faults.

- Ensuring the product covers key features and attributes requirements.

2.1.2 Test model

Using V-Model to implement testing process

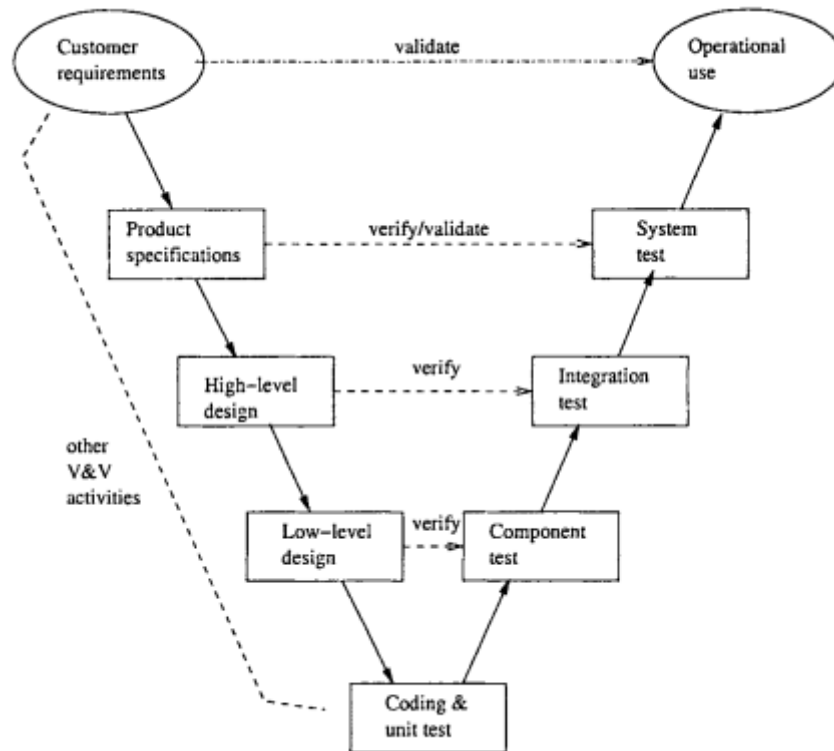


Figure 5-1: V-Model to implement testing process

Due to scope of CTC project and project must always fulfill user requirements. With V-Model, software development is separated into two appropriate phases' groups: development and testing. Testing phase is carried out simultaneously from the early of project, the requirement specification phase. Therefore, tester could study and understand the entire requirement as well as business of project.

Moreover, there are many variations among planning, design and implementation during the whole project. To catch up with all changes and ensure logic as well as business, V-model is choose as a solution to help testers control and follow the actual workflows.

This testing is executed to ensure that all requirements mentioned in SRS, included both functional requirements and non-functional requirements which are implemented correctly.

- Technique:

- **Integration test:** Base on requirement in SRS and validation in database, test team will test as black box testing method to check if the input and output display as expected and does that flow work fluently
- **System testing:** Based on requirements in SRS, test team will create scenarios for system testing (ST) to ensure project's business. In ST, tester will create test cases based on these scenarios and run to verify functional and non-functional requirements.

- **Completion criteria:**

- All planned test cases have been executed compared with expected result in test cases.
- System test cases must be green (passed) at least 97%
- All defects must be logged into test documents and re-tested after it is fixed.
- All defects, which are accepted by customer or project technical leader and project manager, will be marked as accepted and not be retested.
- All defects must be resolved or accepted.
- These criteria will be applied for all test types.

- **Special considerations:**

- Test databases will be required
- Testing may be stopped when

Time runs out

- A certain number of defects found
- Test coverage > 97%
- Stop when testing becomes unproductive.

2.1.3 Type of testing

2.1.3.1 Functional Testing

Function testing of the target-of-test should focus on any requirements for test that can be traced directly to use cases or business functions and business rules. The goals of these tests are to verify proper data acceptance, processing, and retrieval, and the appropriate implementation of the business rules. This type of testing is based upon black box a lapplication via the Graphical User Interface (GUI) and analyzing the output or results. Identified below is an outline of the testing recommended for each application

Test Objective:	The type of this test is to ensure proper target-of-test functionality, including user interaction, all function defined in specification document implemented correctly.
Technique:	<p>The test team will execute each use case, use-case flow, or function, using valid and invalid data, to verify the following:</p> <ul style="list-style-type: none"> • The expected results occur when valid data is used. • The appropriate error or warning messages are displayed when invalid data is used. • Each business rule is properly applied.
Completion Criteria:	<p>All planned tests have been executed.</p> <p>All identified defects have been addressed and closed</p>
Special Considerations:	<p>Testing may be stopped when</p> <ul style="list-style-type: none"> • Time runs out • A certain number of defects found • Test coverage > 97% • Stop when testing becomes unproductive

Table 5-1: Functional testing

2.1.3.2 User Interface Testing

User Interface (UI) testing verifies a user's interaction with the software. The goal of UI testing is to ensure that the User Interface provides the user with the appropriate access and navigation through the functions of the target-of-test. In addition, UI testing ensures that the objects within the UI function as expected and conform to corporate or industry standards.

Test Objective:	Verify the following: Navigation through the target-of-test properly reflects business functions and requirements, including window-to-window, field-to-field, and use of access methods (tab keys, mouse movements, accelerator keys)
Technique:	Create or modify tests for each page to verify proper navigation and object states for each page
Completion Criteria:	Each window successfully verified to remain consistent with benchmark version or within acceptable standard

Table 5-2: User Interface testing

2.1.4 Test stage

Clearly state the stage in which the test will be executed. Identified below are the stages in which common test are executed

Type of Tests	Stage of Test		
	Unit	Integration	System
Function Test	x	x	x
User Interface test	x		x

Table 5-3: Test stages

2.1.5 Tools

Purpose	Tool	Vendor/In-house	Version
Access to website	Chrome		
	Firefox		
Keep tracking defects	Hostedredmine.com		
Test Plan	MS Word		Office 2016
Test Case, Test Report	MS Excel		Office 2016

Table 5-4: Tools

2.1.6 Resources

This table shows the staffing assumptions for the project.

Worker/Doer	Specific Responsibilities/Comments
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Trịnh Đình Quyết Đặng Lê Tuấn	<ul style="list-style-type: none"> - Manage Test resource and assign test tasks - Create Test Plan - Review Test Cases - Create Test Report - Execute Test
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Table 5-5: Human resource

3 TEST CASE

ID	Test case description	Test case procedure	Expect output	Result	
[Admin-1]	Sign in with empty username & password	1. Click button "Đăng nhập" in navigation bar 2. Sign up with empty username & password. 3. Click "Đăng nhập".	1. Show 2 messages "Bạn chưa nhập Email!" and "Bạn chưa nhập Mật khẩu!"	Pass	
[Admin-2]	Sign in with wrong username & empty password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with wrong username & empty password 3. Click "Đăng nhập".	1. Show Error Message "Bạn chưa nhập Mật khẩu!"	Pass	
[Admin-3]	Sign in with correct username & empty password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with empty username & password 3. Click "Đăng nhập".	1. Show Error Message "Bạn chưa nhập Mật khẩu!"	Pass	
[Admin-4]	Sign in with empty username & wrong password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with correct username & empty password 3. Click "Đăng nhập".	1. Show Error Message "Bạn chưa nhập Email!"	Pass	
[Admin-5]	Sign in with wrong username & password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with wrong username & password 3. Click "Đăng nhập".	1. Show pop-up error message "Email và mật khẩu chưa đúng!"	Pass	
[Admin-6]	Sign in with correct username &	1. Click button "Đăng nhập" in navigation bar 2. Sign in with correct	1. Show pop-up error message "Email và mật khẩu chưa đúng!"	Pass	

	wrong password	username & wrong password 3. Click "Đăng nhập".			
[Admin-7]	Sign in with empty username & correct password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with empty username & correct password 3. Click "Đăng nhập".	1. Show error message "Bạn chưa nhập Email!"	Pass	
[Admin-8]	Sign in with wrong username & correct password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with wrong username & correct password 3. Click "Đăng nhập".	1. Show pop-up error message "Email và mật khẩu chưa đúng!"	Pass	
[Admin-9]	Sign in with correct username & correct password	1. Click button "Đăng nhập" in navigation bar 2. Sign in with correct username & correct password 3. Click "Đăng nhập".	1. Redirect to homepage	Pass	
[Admin-10]	Go to Change password page	1. Hover on the username in navigation link 2. Click on "Thay đổi mật khẩu"	1. Redirect link to change password page	Pass	
[Admin-11]	Empty value on all field in change password page	1. Goods owner not input anything on the change password page 2. Click on "Đổi mật khẩu"	1. Return message for all field required "Mật khẩu cũ không được để trống!" and "Mật khẩu mới không được để trống!" and "Xác nhận mật khẩu không được để trống!" 2. Decline goods owner request to change password	Pass	
[Admin-12]	Input wrong old password	1. Goods owner input all correct-form password in the new password and confirm new password 2. Input wrong old password 3. Click on "Đổi mật"	1. Redirect to home page	Pass	

		khẩu"			
[Admin-13]	Input correct old password and not input in other field	1. Goods owner not input all correct-form password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return message "Mật khẩu mới không được để trống!" and "Xác nhận mật khẩu không được để trống!" 2. Decline goods owner request to change password	Pass	
[Admin-14]	Input correct old password and not input in confirm new password	1. Goods owner not input all correct-form password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return message "Mật khẩu mới không trùng nhau!" 2. Decline goods owner request to change password	Pass	
[Admin-15]	Input correct old password and input new password without uppercase	1. Goods owner input correct-form without uppercase password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return message "Mật khẩu phải có từ 6 đến 20 ký tự, có ít nhất 1 chữ số, 1 chữ cái viết hoa và một trong các ký tự (?, !, #, @, *, %)." 2. Decline goods owner request to change password	Pass	
[Admin-16]	Input correct old password and input new password without number	1. Goods owner input correct-form without number password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return message "Mật khẩu phải có từ 6 đến 20 ký tự, có ít nhất 1 chữ số, 1 chữ cái viết hoa và một trong các ký tự (?, !, #, @, *, %)." 2. Decline goods owner request to change password	Pass	
[Admin-17]	Input correct old password and input	1. Goods owner input correct-form without special symbol	1. Return message "Mật khẩu phải có từ 6 đến 20 ký tự, có ít nhất	Pass	

	new password without special symbol	password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1 chữ số, 1 chữ cái viết hoa và một trong các ký tự (?, !, #, @, *, %)." 2. Decline goods owner request to change password		
[Admin-18]	Input correct old password and input new password least than 6 characters	1. Goods owner input correct-form with least than 6 characters password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return message "Mật khẩu phải có từ 6 đến 20 ký tự, có ít nhất 1 chữ số, 1 chữ cái viết hoa và một trong các ký tự (?, !, #, @, *, %)." 2. Decline goods owner request to change password	Pass	
[Admin-19]	Input correct old password and input new password more than 21 characters	1. Goods owner input correct-form with more than 20 characters password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return message "Mật khẩu phải có từ 6 đến 20 ký tự, có ít nhất 1 chữ số, 1 chữ cái viết hoa và một trong các ký tự (?, !, #, @, *, %)." 2. Decline goods owner request to change password	Pass	
[Admin-20]	Input correct old password and mismatch correct-form of new password and confirm new password	1. Goods owner input all correct-form password in the new password and confirm new password but mismatch 2. Input correct old password 3. Click on "Đổi mật khẩu"	1. Return pop-up message "Mật khẩu mới không trùng nhau!" 2. Decline goods owner request to change password	Pass	
[Admin-21]	Input all correct value in all field	1. Goods owner input all correct-form password in the new password and confirm new password 2. Input correct old password 3. Click on "Đổi mật"	1. Return pop-up message "Thay đổi mật khẩu thành công!" 2. Accept goods owner request to change password 3. Redirect to homepage	Pass	

		khẩu"			
[Admin-22]	Sign out	1. Carrier clicks his/her full name on top right of navigation bar. 2. Carrier clicks "Đăng xuất".	1. Redirect to Homepage	Pass	
[Admin-23]	View list of users under table page	1. Log in with admin's account 2. Click on "Quản lý người dùng" on navigation page 3. View all information of each user under list	1. Show all information of all users registered in page 2. All key information list in table form 3. There's 2 buttons to using with each user in 2 columns "Kích hoạt" and "Chi tiết"	Pass	
[Admin-24]	Not input anything in search form	1. Log in with admin's account 2. Click on "Quản lý người dùng" on navigation page 3. Left all input box in search form empty and click "Tìm kiếm"	1. Show all information of all users registered in page 2. All key information list in table form 3. There's 2 buttons to using with each user in 2 columns "Kích hoạt" and "Chi tiết"	Pass	
[Admin-25]	Input value in input box "Email" and left others empty in search form	1. Log in with admin's account 2. Click on "Quản lý người dùng" on navigation page 3. Left all input box in search form empty and click "Tìm kiếm" except input box "Email"	1. Show all information of all users registered in page 2. All key information list in table form match the value input in search form 3. There's 2 buttons to using with each user in 2 columns "Kích hoạt" and "Chi tiết"	Pass	
[Admin-26]	Input value in input box "Tỉnh" and left others empty in search form	1. Log in with admin's account 2. Click on "Quản lý người dùng" on navigation page 3. Left all input box in search form empty and	1. Show all information of all users registered in page 2. All key information list in table form match the value input	Pass	

		click "Tìm kiếm" except input box "Tỉnh"	in search form 3. There's 2 buttons to using with each user in 2 columns "Kích hoạt" and "Chi tiết"		
[Admin-27]	Select value from drop down list "Quyền truy cập" and left others empty in search form	1. Log in with admin's account 2. Click on "Quản lý người dùng" on navigation page 3. Left all input box in search form empty and click "Tìm kiếm" except combo box "Quyền truy cập"	1. Show all information of all users registered in page 2. All key information list in table form match the value input in search form 3. There's 2 buttons to using with each user in 2 columns "Kích hoạt" and "Chi tiết"	Pass	

Table 5-6: Test Item

For more details about all test suites, please look at file “CTC_TestCase_Final.xlsx”

4 CHECK LIST

4.1 Checklists about general

4.1.1 Screen design

No	Question	Yes	No	N/A
1	Screen elements are consistent, and important information is above the fold?			
2	Text is over plain background, and there is high contrast between the two?			

Table 5-7: Screen design checklist

4.1.2 Fonts and graphics

No	Question	Yes	No	N/A
1	Graphics are properly optimized			
2	Text in graphics is generally avoided.			
3	Fonts, when enlarged, do not destroy layout.			
4	Fonts are large enough and scalable.			

Table 5-8: Fonts and graphics checklist

4.1.3 Content design

No	Question	Yes	No	N/A
1	Uses lists, very short paragraphs, etc. to make content scan able			
2	No moving text; most is left justified; no upper case sentences/paragraphs; italics and bold are used sparingly.			

Table 5-9: Content design checklist

3.1.4 Writing

No	Question	Yes	No	N/A
1	Writing is brief, concise, and well edited			
2	Uses simple sentence structures and words.			

Table 5-10: Writing checklist

4.2 Checklists for user interface testing

4.2.1 Contents

No	Question	Yes	No	N/A
1	All fonts to be the same?			
2	Are all the screen prompts specified in the correct screen font?			
3	Is all text properly aligned?			
4	Is the text in all fields specified in the correct screen font?			
5	Is all the headings left aligned?			

Table 5-11: Content checklist

4.2.2 Color

No	Question	Yes	No	N/A
1	Are hyperlink colors standard?			
2	Are the field backgrounds the correct color?			
3	Are all the buttons are in standard format and size?			
4	Is the general screen background the correct color?			
5	Are the screen and field colors adjusted correctly for non-editable mode?			

Table 5-12: Color checklist

4.2.3 Usability

No	Question	Yes	No	N/A
1	Are checkboxes, radio button, dropdown list... showing data correctly and updated?			
2	Are all the field prompts spelt correctly?			
3	Are fonts too large or too small to read?			
4	Are names in command button & option box names are not abbreviations			
5	Assure that option boxes, option buttons, and command buttons are logically grouped together in clearly demarcated areas "Group Box"			
6	Can users run the system without frustration?			

Table 5-13: Usability checklist

5 TEST LOGS

5.1 Defect log

- CTC project used <http://www.hostedredmine.com/> to manager tasks, bugs and defects.
- Every member of CTC project created an account in HostedRedmine to take part in activities: control bugs, fix bugs, re-test bugs and close bug. Bug will be log by tester or developer in developmessnt progress.

5.2 Test report

Project Name	Carrier Trading Center	Creator	QuyetTD
Project Code	CTC	Reviewer/Approver	SangNV
Document Code	CTC_TestReport	Issue Date	06/04/2017

No.	Function	Test case				Checklist			Total
		Yes	No	Un- tested	N/A	Yes	No	N/A	
Guest									
01	Register a new account	50				24		2	76
02	Search bill of lading	17				22		4	43
03	View bill of lading list	6				22		4	32
04	View price	1				22		4	27
05	Reference price	1				22		4	27
Admin									
06	View bill of lading detail	7				22		4	33
07	Search bill of lading	23				22		4	59
08	View bill of lading list	1				24		2	27
09	View carrier auction success	1				24		2	27
10	Summary all bill of lading	17				24		2	43
11	View carrier list who are auctioning	1				24		2	27
12	Search user	12				22		4	38
13	View user profile	1				22		4	27
14	Edit user profile	38				24		2	64
15	Add company	26				24		2	52
16	Account recharge for user	4				24		2	30
17	Active user	1				24		2	27
18	Deactivate user	1				24		2	27
19	Edit company information	27				24		2	53
20	View user list	4				24		2	30
21	View price list	5				24		2	31
22	Add a new price	22				24		2	48
23	View price table history	1				22		4	27

24	Edit price list	19				22		4	45
25	Reference price	1				24		2	27
26	Edit reference price	5				24		2	31
27	Transaction History	3				24		2	29
28	Login	9				24		2	35
29	Logout	1				24		2	27
30	Search report	10				24		2	36
31	Response report	1				24		2	27
32	View report list	13				24		2	39
33	View profile	1				24		2	27
34	Edit profile	51				24		2	77
35	Forget password	3				24		2	29
36	Change password	11				24		2	37
Goods Owner									
37	View bill of lading list	6				22		4	32
38	View bill of lading detail	1				22		4	27
39	Search bill of lading	52				24		2	78
40	View carrier auction success	1				24		2	27
41	Confirm complete transaction	1				24		2	27
42	Post a new bill of lading	66				24		2	92
43	Cancel bill of lading	2				22		4	28
44	Edit profile	9				22		4	35
45	View profile	1				24		2	27
46	Change password	12				24		2	38
47	Forget password	3				24		2	29
48	Add company	27				24		2	53
49	Send report	13				24		2	39
50	Search report	4				24		2	30
51	View report list	14				24		2	40
52	Reference price	1				24		2	27
53	View price list	1				24		2	27
54	Account recharge for user	2				22		4	28
55	Transaction history	10				22		4	36
56	Login	9				24		2	35
57	Logout	1				24		2	27
58	Connect to carrier	2				24		2	28
59	Cancel report	2				22		4	28
Carrier									
60	View bill of lading list	6				22		4	32
61	Confirm complete transaction	1				22		4	27
62	View bill of lading detail	1				24		2	27
63	Auction bill of lading	5				24		2	31
64	Search bill of lading	52				24		2	78
65	Cancel bill of lading	2				24		2	28
66	Edit profile	9				22		4	35
67	View profile	1				22		4	27
68	Change password	12				24		2	38
69	Forget password	3				24		2	29
70	Add company	27				24		2	53

71	View report list	14				24		2	40
72	Search report	4				24		2	30
73	Send report	13				24		2	39
74	Reference price	1				24		2	27
75	View pricing list	1				24		2	27
76	Transaction history	10				24		2	36
77	Login	9				22		4	35
78	Logout	1				22		4	27
79	Connect to goods owner	1				24		2	27
80	Account recharge	2				22		4	28
81	Cancel reports	2				22		4	28
Total		813				1894		212	2919
Test coverage		100%							
Test successful coverage		100%							