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| Capstone Project Document |

**Carrier Trading Center**

Report #3 – Software Requirements Specifications

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**- Hanoi, 02/2017-**

# SIGNATURE PAGE

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# introduction

## Purpose

This 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.

## Definitions and Acronyms

|  |  |
| --- | --- |
| **Actor** | **Description** |
| Guest | Everyone who does not have account and accessed into the websites. |
| Carrier | Everyone who has account and accessed into Carrier Trading Center Website to auction bill of lading. |
| Goods Owner | Everyone who has account and accessed 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 2.2: Actor description

|  |  |  |
| --- | --- | --- |
| **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 | CTC’s administrator |  |
| User | CTC’s user |  |

Table 1: Definition and Acronyms

# Functional Requirements

## 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 new password must be different with the current password |
| **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 |
| **B51** | The auction is successfully |

Table 2.1: Business rules

## Use case

### Guest

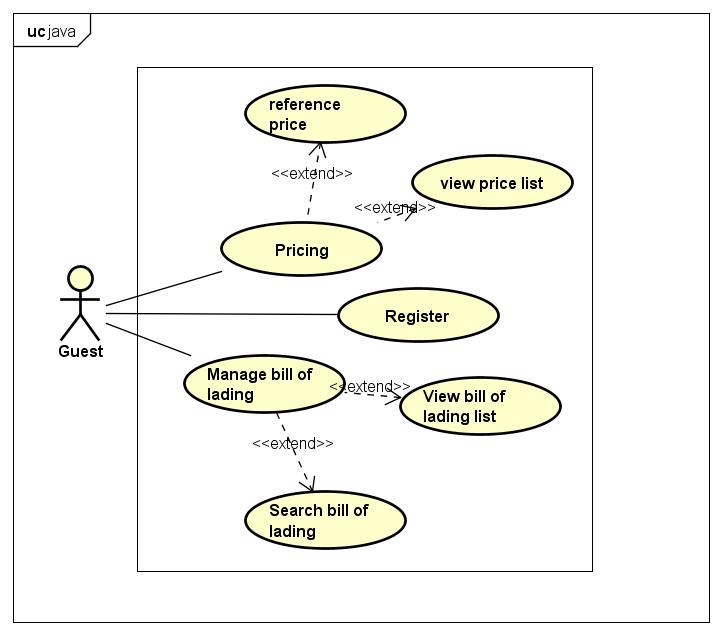


Figure 1: Use diagram of Guest actor

#### Register

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Guest | | **Secondary Actor** |  |
| **Description:** | | Visitor can create new account to use more function as a register user | | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Guest browsed CTC website | | | |
| **Trigger:** | | Click on register link on the website | | | |
| **Post conditions:** | | 1. Add account information to database 2. Send confirm email 3. Logs user into system 4. Redirect user to Homepage and display as Member | | | |
| **Normal Flow** | | | | | |
| **Step** | **Actor** | | **Action** | | |
| 1 | Guest | | Click Register in header | | |
| 2 | CTC | | Display Register page includes:   * User name text box * Password text box * Email text box * Address text box * Identity card text box * Identity card place text box * Identity card date text box * Province select box * District select box * Reenter password text box * Date of Birth date picker * Phone number text box * Register button * Kind of user check box | | |
| 3 | Guest | | User enters data in fields | | |
| 4 | Guest | | Click register | | |
| 5 | CTC | | Logs user in the system | | |
| 6 | CTC | | Send confirm email | | |
| 7 | CTC | | Display homepage member | | |
| **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 | | | |

#### Reference price list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Guest | **Secondary Actor** |  |
| **Description:** | | Guest want to reference price from other website | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Guest browsed CTC website 3. Click “Báo giá” navigator | | |
| **Trigger:** | | Click “Tham chiếu” button in bill of lading detail page | | |
| **Post conditions:** | | Display price list from other website | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Guest | 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 | | |

#### View price list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Guest | **Secondary Actor** |  |
| **Description:** | | Guest want to view price list | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Guest browsed CTC website | | |
| **Trigger:** | | Click on homepage link on the website | | |
| **Post conditions:** | | Display price list on page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | User | Click “Bảng Giá” on homepage | | |
| 2 | CTC | Display price list on page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### View bill of lading list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Guest | **Secondary Actor** |  |
| **Description:** | | Guest want to view bill of lading list | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Guest browsed CTC website | | |
| **Trigger:** | | Click on homepage link on the website | | |
| **Post conditions:** | | Display bill of lading list | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Guest | Click on homepage link on the website | | |
| 2 | CTC | Display bill of lading list on homepage | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### Search bill of lading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Guest | **Secondary Actor** |  |
| **Description:** | | Guest want to find a bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Guest browsed CTC website | | |
| **Trigger:** | | Guest enter keyword on text box and click “Tìm Kiếm” button | | |
| **Post conditions:** | | Display bill of lading system found on search page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Guest | Click “Tìm Hàng Vận Chuyển” navigator | | |
| 2 | CTC | Display search page includes:   * “Loại hàng” select box * “Hình thức đóng gói” select box * “Khối lượng” text box * “Thể tích” text box * “Địa điểm đi” select box * “Địa điểm đến” select box * “Thời gian đi” text box * “Thời gian đến” text box * “Tìm Kiếm” buttons | | |
| 3 | Guest | Enter data in this fields | | |
| 4 | Guest | Click “Tìm Kiếm” button | | |
| 5 | CTC | Display result on search page | | |
| **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 | | |

### Administration

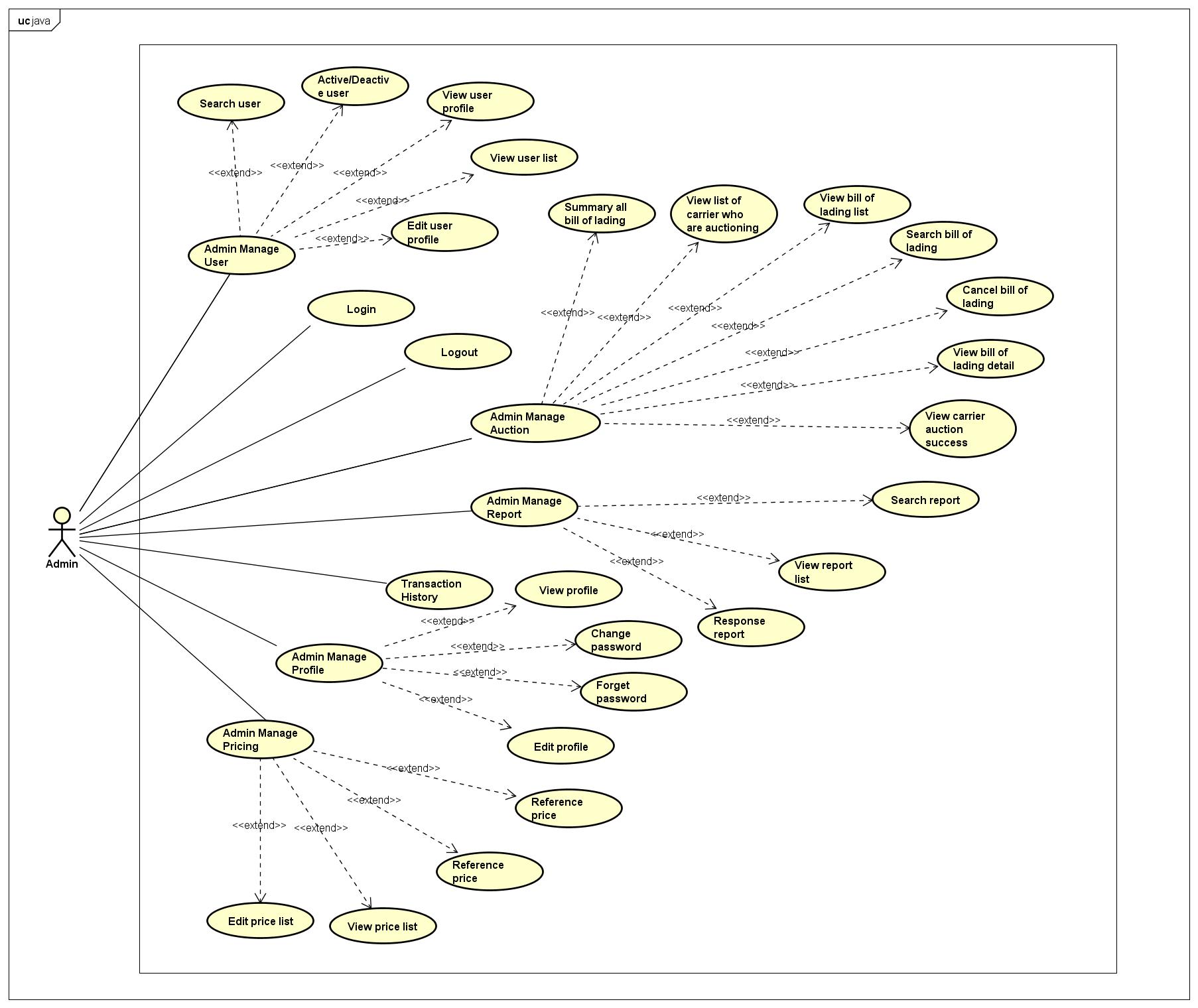


Figure 2.2: Use case of Administration actor

#### Summary all bill of lading

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Administration | | **Secondary Actor** |  |
| **Description:** | | | Admin want to summary all bill of lading by bill of lading detail | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. User browsed CTC website | | | |
| **Trigger:** | | | Admin click on “Thống Kê Vận Đơn“ navigator on website | | | |
| **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” text box * “Thể tích” text box * “Địa điểm đi” select box * “Địa điểm đến” select box * “Thời gian đi” text box * “Thời gian đến” text box * “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 summary bill of lading 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 | | | |

#### View bill of lading list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to view all bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Admin click “Tìm hàng vận chuyển” navigator | | |
| **Post conditions:** | | Display bill of lading list on bill of lading list page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Tìm hàng vận 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 | | |

#### Search bill of lading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | User want to find a bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin click “Tìm Hàng Vận Chuyển” navigator one website | | |
| **Trigger:** | | Admin enter keyword on text box and click “Tìm Kiếm” button | | |
| **Post conditions:** | | Display bill of lading system found on search page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Tìm Hàng Vận 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” text box * “Thể tích” text box * “Địa điểm đi” select box * “Địa điểm đến” select box * “Thời gian đi” text box * “Thời gian đến” text box * “Tìm Kiếm” buttons | | |
| 3 | Admin | Enter data in this fields | | |
| 4 | Admin | Click “Tìm Kiếm” button search page | | |
| 5 | CTC | Display result on search bill of lading 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 | | |

#### View bill of lading detail

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **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. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin click “Tim Hàng Vận Chuyển” navigator | | |
| **Trigger:** | | User click “Chi Tiết” on bill of lading | | |
| **Post conditions:** | | Display bill of lading detail on this 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 “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 | | |

#### View list of carrier who are auctioning

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to know who are auctioning. Admin send request to system and get result | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Admin click “Chi Tiết” on bill of lading | | |
| **Post conditions:** | | Display who are auctioning on result 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 “Chi Tiết” on bill of lading | | |
| 4 | CTC | Display who are auctioning to detail page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | Medium | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### View carrier auction success

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to view who auction bill of lading successful | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Bill of lading is successfully | | |
| **Trigger:** | | Admin click “Chi Tiết” on bill of lading | | |
| **Post conditions:** | | Display who are auction success 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 “Chi Tiết” on “Tìm Hàng Vận 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 | | |

#### Search user

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **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. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin click “Quản Lý User” navigator 4. Enter some fields on manage user page | | |
| **Trigger:** | | Click “Tìm Kiếm” button on manage user page | | |
| **Post conditions:** | | Display user list by require of admin on manage user page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Quản Lý User” navigator | | |
| 2 | CTC | Display search user page includes:   * “Tên người dùng” text box * “email” text box * “Tỉnh” text box * “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 manage 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 | | |

#### View user profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to view user profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin click “Quản Lý User” navigator | | |
| **Trigger:** | | Click “Chi Tiết” on manage user page | | |
| **Post conditions:** | | Display user detail on detail page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Chi Tiết” on manage user page | | |
| 2 | CTC | Display user detail on detail page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | Medium | | |
| **Frequency of Use:** | | Medium | | |
| **Business Rules:** | | B27 | | |
| **Other Information:** | | N/A | | |

#### Edit user profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to change user profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. User browsed CTC website 3. Admin click “Chi Tiết” on manage user page 4. Admin click “Thay Đổi” on user detail page | | |
| **Trigger:** | | Admin click “Lưu Thay Đổi” button on “Chỉnh Sửa Thông Tin” popup | | |
| **Post conditions:** | | Save user profile in database | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Admin click “Thay Đổi” button | | |
| 2 | CTC | Display popup includes:   * “Chọn ảnh” * “Họ tên” * “Bạn là” (phân quyền quản trị) * “Email” * “Địa chỉ” * “Chứng minh thư” * “Ngày cấp thẻ” * “Ngày tham gia” * “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 user detail page | | |
| **Alternative Flows:** | | | | |
| **AT1** | At step 4, admin click “x” in popup | | | |
| **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 | | |

#### Active user

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to active user account. This user can do something on website | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin have deactivated | | |
| **Trigger:** | | Admin click “Active” button on list user page | | |
| **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 | | |

#### Deactivate user

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to make an account to deactivate. This account can’t work on website | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Click “Deactivate” button on user list page | | |
| **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 | | |

#### View price list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to view list of price | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Click “Báo Giá” navigator and then choose “Hệ Thống” | | |
| **Post conditions:** | | Display price list on price list page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Báo Giá” navigator and then choose “Hệ Thống” | | |
| 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 | | |

#### Edit price list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to edit price for match with real price | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Click “Báo Giá” navigator and then choose “Hệ Thống”. after that click “edit” | | |
| **Trigger:** | | Click “Xác Nhận” on edit price page | | |
| **Post conditions:** | | Save changed in database | | |
| **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 | | |
| **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 | | |

#### Add a new price

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to add a new price to system | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Click “Báo Giá” navigator and then choose “Thêm Mới” | | |
| **Trigger:** | | Click “Thêm Mới” button on add new price page | | |
| **Post conditions:** | | Add new price to database | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Thêm Mới” button | | |
| 2 | CTC | Display add new price includes:   * “Tên chi phí” text box * “Mã chi phí” text box * “Loại” check box * “Chi phí” text box * “Tỷ lệ chi phí” text box * “Mô tả” text box * “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 | Display price list on price list page | | |
| **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 | | |

#### Search report

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Administration | | **Secondary Actor** |  |
| **Description:** | | | Admin want to find a report in report list | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin click “Quản Lý Report” navigator | | | |
| **Trigger:** | | | Click “Tìm Kiếm” button on report list page | | | |
| **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” * “Tên người dung” * “Tiêu đề báo cáo” * “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 | | | |

#### View report list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to view report list | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Click “Báo Cáo Của Tôi” navigator | | |
| **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 | | |

#### Response report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to response report to goods owner or carrier | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Click “Báo Cáo Của Tôi” navigator 4. Click “Tiêu Đề Báo Cáo” link 5. There is at least one report to admin | | |
| **Trigger:** | | Click “Phản Hồi” button on report detail page | | |
| **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” text box * “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 | | |

#### View profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to view admin’s profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Click “Thông Tin Cá Nhân” link | | |
| **Post conditions:** | | Display admin profile | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Thông Tin Cá Nhân” link | | |
| 2 | CTC | Display admin detail on detail page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | Medium | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### Edit profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to edit admin profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Click account name of admin 4. Click “Thay đổi” button | | |
| **Trigger:** | | Admin click “Lưu Thay Đổi” button on “Chỉnh Sửa Thông Tin” popup | | |
| **Post conditions:** | | Save admin profile in database | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Admin click “Thay Đổi” button | | |
| 2 | CTC | Display popup includes:   * “Chọn ảnh” * “Họ tên” * “Bạn là” (phân quyền quản trị) * “Email” * “Địa chỉ” * “Chứng minh thư” * “Ngày cấp thẻ” * “Ngày tham gia” * “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 user detail page | | |
| **Alternative Flows:** | | | | |
| **AT1** | At step 4, admin click “x” in popup | | | |
| **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 | | |

#### Change password

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Administration | **Secondary Actor** |  |
| **Description:** | | | Admin want to change password for security | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. User browsed CTC website 3. Click account name 4. Choose “Thay đổi mật khẩu” label | | |
| **Trigger:** | | | Click “Đổi mật khẩu” button | | |
| **Post conditions:** | | | Change admin’s password | | |
| **Normal Flow** | | | | | |
| **Step** | **Actor** | | **Action** | | |
| 1 | Admin | | Click Choose “Thay đổi mật khẩu” label | | |
| 2 | CTC | | Display change password page includes:   * “Mật khẩu cũ” * “Mật khẩu mới” * “Xác nhận mật khẩu” * “Đổi mật khẩu” button | | |
| 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, B14, B15 | | |
| **Other Information:** | | | N/A | | |

#### Forget password

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin forget password. They want to reset password | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin in login page | | |
| **Trigger:** | | Click “Quên mật khẩu” label on login page | | |
| **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” label * “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 | | |

#### Login

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Administration | | **Secondary Actor** |  |
| **Description:** | | | Admin want to login to CTC system for work | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Click “Đăng nhập” on homepage | | | |
| **Trigger:** | | | Click “Đăng nhập” button on login page | | | |
| **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” text box * “Mật khẩu” text box * “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 | | | |

#### Logout

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to logout CTC system | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Admin is in CTC system | | |
| **Trigger:** | | Click “Đăng xuất” label in website | | |
| **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 | | |

#### Transaction history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to check money in account and what did they do with money | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | Click “Thông tin giao dịch” button | | |
| **Post conditions:** | | Display money in account and transaction history | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | Click “Thông tin giao dịch” button | | |
| 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 | | |

#### Reference price

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Administration | **Secondary Actor** |  |
| **Description:** | | Admin want to reference price from other website | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website 3. Click “Báo giá” navigator | | |
| **Trigger:** | | Click “Tham chiếu” button in bill of lading detail page | | |
| **Post conditions:** | | Display price list from other website | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Admin | 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 | | |

### Goods Owner

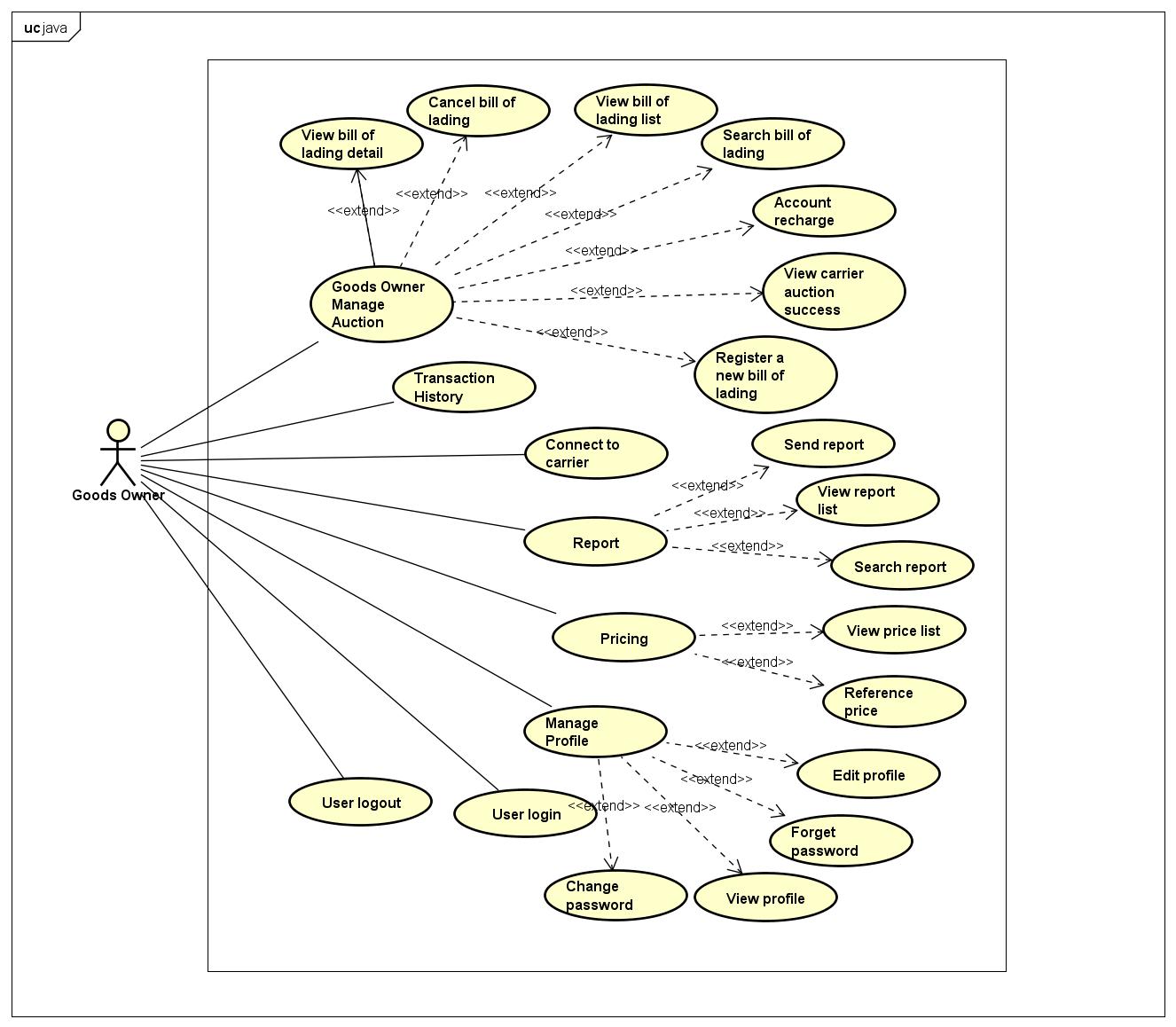


Figure 3: Use Case of Goods Owner

#### View bill of lading list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | User want to view all bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website | | |
| **Trigger:** | | GWN click “Tìm hàng vận chuyển” navigator | | |
| **Post conditions:** | | Display bill of lading list on bill of lading list page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | Click “Tìm hàng vận 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 | | |

#### View bill of lading detail

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **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. CTC must be connected to the Internet 2. User browsed CTC website 3. User click “Tim Hàng Vận Chuyển” navigator | | |
| **Trigger:** | | GWN click “Chi Tiết” on bill of lading | | |
| **Post conditions:** | | Display bill of lading detail on this 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 this page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | B33 | | |
| **Other Information:** | | N/A | | |

#### Search bill of lading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | GWN want to find a bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. User browsed CTC website 3. User click “Tìm Hàng Vận Chuyển” navigator one website | | |
| **Trigger:** | | GWN enter keyword on text box and click “Tìm Kiếm” button | | |
| **Post conditions:** | | Display bill of lading system found on search page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | Click “Tìm Hàng Vận 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” text box * “Thể tích” text box * “Địa điểm đi” select box * “Địa điểm đến” select box * “Thời gian đi” text box * “Thời gian đến” text box * “Tìm Kiếm” buttons | | |
| 3 | GWN | Enter data in this fields | | |
| 4 | GWN | Click “Tìm Kiếm” button search page | | |
| 5 | CTC | Display result on search bill of lading 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 | | |

#### View carrier auction success

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | GWN want to view who auction bill of lading successful | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Admin browsed CTC website | | |
| **Trigger:** | | GWN click “Chi Tiết” on bill of lading | | |
| **Post conditions:** | | Display who are auction success 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 “Tìm Hàng Vận 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 | | |

#### Transaction history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to check money in account and what did they do with money | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website | | |
| **Trigger:** | | Click “Thông tin giao dịch” button | | |
| **Post conditions:** | | Display money in account and transaction history | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | Click “Thông tin giao dịch” button | | |
| 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 | | |

#### Register a new bill of lading

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **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:** | | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website | | | |
| **Trigger:** | | | Click “Đăng ký” button in post bill of lading page | | | |
| **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” text box * “loại hàng” select box * “Hình thức đóng gói” select box * “Họ tên người gửi” text box * “Số điện thoại” text box * “Họ tên người nhận” text box * “Địa điểm gửi” select box * “Địa điểm nhận” select box * “Từ quận/huyện” select box * “Đến quận/huyện” select box * “Địa điểm nơi gửi” text box * “Địa điểm nơi nhận” text box * “Đặc điểm nơi gửi” text box * “Đặc điểm nơi nhận” text box * “Ngày gửi” date time picker * “Ngày nhận” date time picker * “Quảng đường” text box * “Khối lượng” text box * “Số lượng” text box * “Dài” text box * “Rộng” text box * “Cao” text box * “Hàng đông lạnh” check box * “Hàng dễ vỡ” check box * “Hình ảnh” button upload * “Mô tả” ricd texbox * “Giá đề xuất” text box * “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 | | | |

#### Cancel bill of lading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner do not want to transport their goods. So they cancel bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Bill of lading is auction successfully or auctioning | | |
| **Trigger:** | | Click “Hủy Đấu Giá” button | | |
| **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 | | |

#### Edit profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to edit goods owner profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Click “Hủy Đấu Giá” button browsed CTC website 3. Click account name of goods owner 4. Click “Thay đổi” button | | |
| **Trigger:** | | Goods owner click “Lưu Thay Đổi” button on “Chỉnh Sửa Thông Tin” popup | | |
| **Post conditions:** | | Save goods owner profile in database | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | goods owner click “Thay Đổi” button | | |
| 2 | CTC | Display popup includes:   * “Chọn ảnh” * “Họ tên” * “Bạn là” (phân quyền quản trị) * “Email” * “Địa chỉ” * “Chứng minh thư” * “Ngày cấp thẻ” * “Ngày tham gia” * “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 popup | | | |
| **Step** | **Actor** | **Action** | | |
| 4.1 | GWN | click “x” in popup | | |
| 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 | | |

#### Change password

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Goods owner | | **Secondary Actor** |  |
| **Description:** | | | GWN want to change their password for recurity | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. User browsed CTC website 3. Click account name 4. Choose “Thay đổi mật khẩu” | | | |
| **Trigger:** | | | Click “Đổi mật khẩu” button | | | |
| **Post conditions:** | | | Change password of goods owner | | | |
| **Normal Flow** | | | | | | |
| **Step** | **Actor** | | **Action** | | | |
| 1 | GWN | | Click Choose “Thay đổi mật khẩu” label | | | |
| 2 | CTC | | Display change password page includes:   * “Mật khẩu cũ” * “Mật khẩu mới” * “Xác nhận mật khẩu” * “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 | | Return to homepage | | | |
| **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, B14, B15 | | | |
| **Other Information:** | | | N/A | | | |

#### Forget password

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner forget password. They want to reset password | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. GWN in login page | | |
| **Trigger:** | | Click “Quên mật khẩu” label on login page | | |
| **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” label * “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 | | |

#### Send report

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Goods owner | | **Secondary Actor** |  |
| **Description:** | | | Goods owner want to send report to admin | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Click “Báo Cáo Của Tôi” button 4. Click “Tạo mới báo cáo” button | | | |
| **Trigger:** | | | Click “Gửi phản hổi” button | | | |
| **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” text box * “Câu hỏi của bạn là gì” text box * “Bạn mong muốn xử lý như thế nào” text box * “Nội dung báo cáo của bạn” text box * “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 | | | |

#### View profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to view admin’s profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website | | |
| **Trigger:** | | Click “Thông Tin Cá Nhân” link | | |
| **Post conditions:** | | Display GWN profile | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | Click “Thông Tin Cá Nhân” link | | |
| 2 | CTC | Display user detail on detail page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | Medium | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### View report list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | GWN want to view report list | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website | | |
| **Trigger:** | | Click “Báo Cáo Của Tôi” navigator | | |
| **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 | | |

#### Search report

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Goods owner | | **Secondary Actor** |  |
| **Description:** | | | Goods owner want to find a report in report list | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Goods owner click “Quản Lý Report” navigator | | | |
| **Trigger:** | | | Click “Tìm Kiếm” button on report list page | | | |
| **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 | | | |
| 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 | | | |

#### View price list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to view list of price | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website | | |
| **Trigger:** | | Click “Báo Giá” navigator and then choose “Hệ Thống” | | |
| **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 | | |

#### User login

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Goods owner | **Secondary Actor** |  |
| **Description:** | | | Goods owner want to login to CTC system for work | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Click “Đăng nhập” on homepage | | |
| **Trigger:** | | | Click “Đăng nhập” button on login page | | |
| **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” text box * “Mật khẩu” text box * “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 | | |

#### User logout

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to logout CTC system | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Goods owner is in CTC system | | |
| **Trigger:** | | Click “Đăng xuất” label in website | | |
| **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 | | |

#### Connect to carrier

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to connect to carrier | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Auction is successfully | | |
| **Trigger:** | | Click “Reply” on bill of lading detail page | | |
| **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” text box | | |
| 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:** | | B51 | | |
| **Other Information:** | | N/A | | |

#### Account recharge

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to account recharge to account for post bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. User browsed CTC website | | |
| **Trigger:** | | Click “Nạp tiền vào tài khoản” button | | |
| **Post conditions:** | | Recharge the user account | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | 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 | | |

#### Reference price

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner want to reference price from other website | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. GWN browsed CTC website 3. Click “Báo giá” navigator | | |
| **Trigger:** | | Click “Tham chiếu” button in bill of lading detail page | | |
| **Post conditions:** | | Display price list from other website | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | GWN | 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 | | |

#### Confirm complete transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Goods owner | **Secondary Actor** |  |
| **Description:** | | Goods owner 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. 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:** | | B51 | | |
| **Other Information:** | | N/A | | |

### Carrier

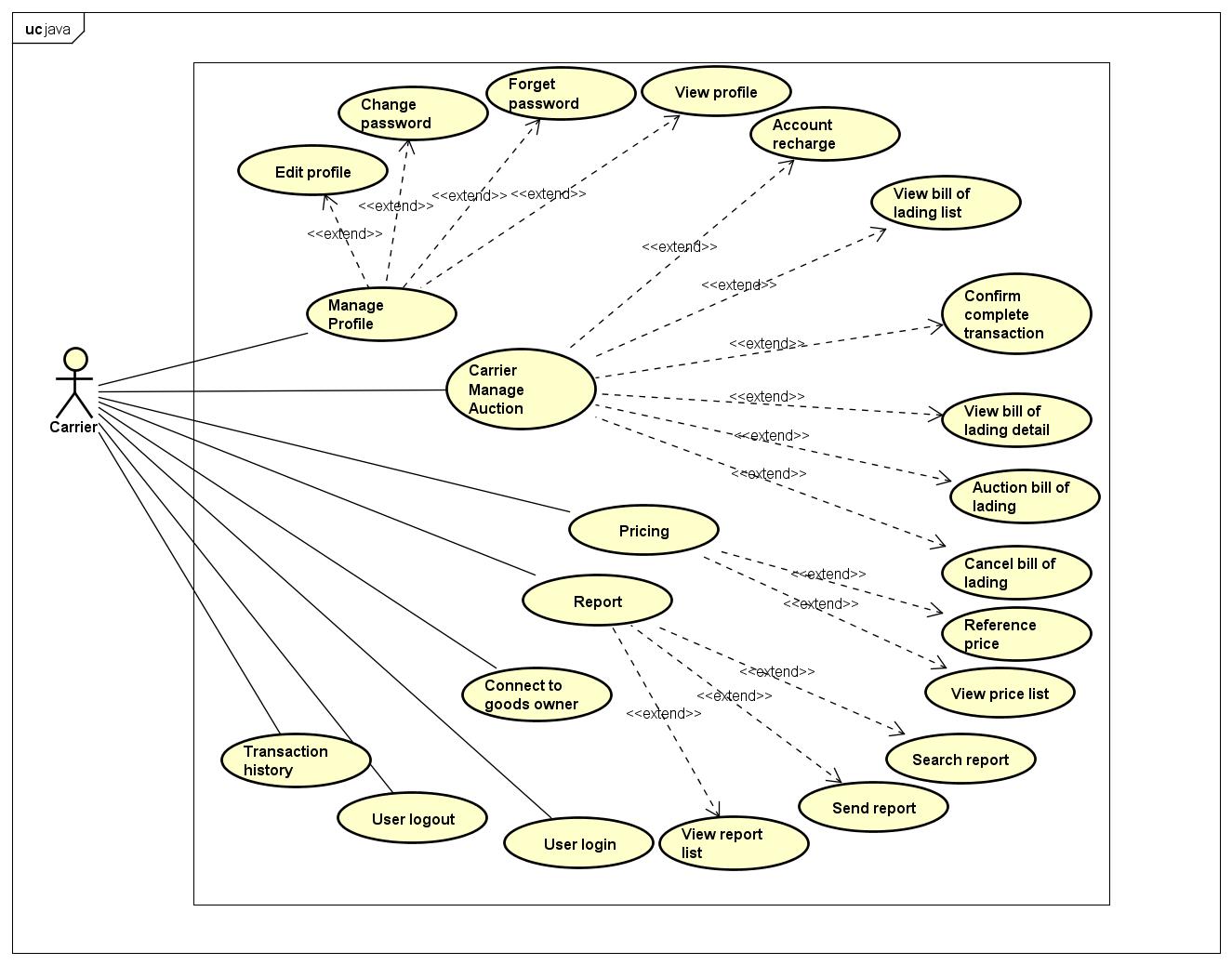


Figure 4: Use Case of Carrier actor

#### View bill of lading list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE want to view all bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website | | |
| **Trigger:** | | CRE click “Tìm hàng vận chuyển” navigator | | |
| **Post conditions:** | | Display bill of lading list on bill of lading list page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | CRE | Click “Tìm hàng vận 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:** | |  | | |
| **Other Information:** | | N/A | | |

#### View bill of lading detail

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **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. CTC must be connected to the Internet 2. CRE browsed CTC website 3. CRE click “Tim Hàng Vận Chuyển” navigator | | |
| **Trigger:** | | CRE click “Chi Tiết” on bill of lading | | |
| **Post conditions:** | | Display bill of lading detail on this page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | CRE | Click “Tim 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 this page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | B33 | | |
| **Other Information:** | | N/A | | |

#### Auction bill of lading

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | | **Secondary Actor** |  |
| **Description:** | | Carrier want to transport goods and then they auction bill of lading on CTC | | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website | | | |
| **Trigger:** | | Click “Đấu Thầu” button on bill of lading detail page | | | |
| **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” popup includes:   * Account balance * Ceiling price * Service charge * “Giá Đấu Thầu” text box * “Xác Nhận” button * “Hủy Bỏ” button | | | |
| 3 | CRE | Enter data in “Giá Đấu Thầu” text box | | | |
| 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 | | | |

#### Account recharge

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | Carrier want to account recharge to account for auction bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. User browsed CTC website | | |
| **Trigger:** | | Click “Nạp tiền vào tài khoản” button | | |
| **Post conditions:** | | Recharge the user account | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | CRE | 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 | 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 | | |

#### Search bill of lading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE want to find a bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. click “Tìm Hàng Vận Chuyển” navigator one website | | |
| **Trigger:** | | CRE enter keyword on text box and click “Tìm Kiếm” button | | |
| **Post conditions:** | | Display bill of lading system found on search page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | CRE | Click “Tìm Hàng Vận 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” text box * “Thể tích” text box * “Địa điểm đi” select box * “Địa điểm đến” select box * “Thời gian đi” text box * “Thời gian đến” text box * “Tìm Kiếm” buttons | | |
| 1 | CRE | Enter data in this fields | | |
| 2 | CRE | Click “Tìm Kiếm” button search page | | |
| 3 | CTC | Display result on search bill of lading page | | |
| **Alternative Flows: N/A** | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | High | | |
| **Frequency of Use:** | | high | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### Cancel bill of lading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE do not want to transport their goods. So they cancel bill of lading | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. CRE is auctioning a bill of lading | | |
| **Trigger:** | | Click “Hủy Đấu Giá” button | | |
| **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 | | |

#### Edit profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE want to edit goods owner profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. Click account name of carrier 4. Click “Thay đổi” button | | |
| **Trigger:** | | Carrier click “Lưu Thay Đổi” button on “Chỉnh Sửa Thông Tin” popup | | |
| **Post conditions:** | | Save carrier profile in database | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | CRE | carrier click “Thay Đổi” button | | |
| 2 | CTC | Display popup includes:   * “Chọn ảnh” * “Họ tên” * “Bạn là” (phân quyền quản trị) * “Email” * “Địa chỉ” * “Chứng minh thư” * “Ngày cấp thẻ” * “Ngày tham gia” * “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 popup | | | |
| **Step** | **Actor** | **Action** | | |
| 4.1 | CRE | click “x” in popup | | |
| 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 | | |

#### View profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | Goods owner want to view admin’s profile | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. User browsed CTC website | | |
| **Trigger:** | | Click “Thông Tin Cá Nhân” link | | |
| **Post conditions:** | | Display admin profile | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | User | Click “Thông Tin Cá Nhân” link | | |
| 2 | CTC | Display user detail on detail page | | |
| **Alternative Flows:** N/A | | | | |
| **Exceptions: N/A** | | | | |
| **Priority** | | Medium | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |

#### Change password

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Carrier | | **Secondary Actor** |  |
| **Description:** | | | Carrier want to change password for security | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. Click account name 4. Choose “Thay đổi mật khẩu” | | | |
| **Trigger:** | | | Click “Đổi mật khẩu” button | | | |
| **Post conditions:** | | | Change password of goods owner | | | |
| **Normal Flow** | | | | | | |
| **Step** | **Actor** | | **Action** | | | |
| 1 | CRE | | Click Choose “Thay đổi mật khẩu” label | | | |
| 2 | CTC | | Display change password page includes:   * “Mật khẩu cũ” * “Mật khẩu mới” * “Xác nhận mật khẩu” * “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 | | Return to homepage | | | |
| **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, B14, B15 | | | |
| **Other Information:** | | | N/A | | | |

#### Forget password

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE forget password. They want to reset password | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. CRE in login page | | |
| **Trigger:** | | Click “Quên mật khẩu” label on login page | | |
| **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” label * “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 | | |

#### Send report

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Carrier | | **Secondary Actor** |  |
| **Description:** | | | Carrier want to send report to admin | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. Click “Báo Cáo Của Tôi” button 4. Click “Tạo mới báo cáo” button | | | |
| **Trigger:** | | | Click “Gửi phản hổi” button | | | |
| **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” text box * “Câu hỏi của bạn là gì” text box * “Bạn mong muốn xử lý như thế nào” text box * “Nội dung báo cáo của bạn” text box * “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 | | | |

#### View report list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE want to view report list | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website | | |
| **Trigger:** | | Click “Báo Cáo Của Tôi” navigator | | |
| **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 | | |

#### Search report

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Carrier | | **Secondary Actor** |  |
| **Description:** | | | Carrier want to find a report in report list | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. CRE click “Quản Lý Report” navigator | | | |
| **Trigger:** | | | Click “Tìm Kiếm” button on report list page | | | |
| **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 dung” * “Tiêu đề báo cáo” * “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 | | | |

#### View price list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE want to view list of price | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website | | |
| **Trigger:** | | Click “Báo Giá” navigator and then choose “Hệ Thống” | | |
| **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” | | |
| 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 | | |

#### Transaction history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | Carrier want to check money in account and what did they do with money | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. Carrier browsed CTC website | | |
| **Trigger:** | | Click “Thông tin giao dịch” button | | |
| **Post conditions:** | | Display money in account and transaction history | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
| 1 | Carrier | Click “Thông tin giao dịch” button | | |
| 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 | | |

#### User login

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Created by:** | | | QuyetTD | | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | | Carrier | | **Secondary Actor** |  |
| **Description:** | | | CRE want to login to CTC system for work | | | |
| **Preconditions:** | | | 1. CTC must be connected to the Internet 2. User browsed CTC website 3. Click “Đăng nhập” on homepage | | | |
| **Trigger:** | | | Click “Đăng nhập” button on login page | | | |
| **Post conditions:** | | | Goods owner login to CTC system | | | |
| **Normal Flow** | | | | | | |
| **Step** | **Actor** | | **Action** | | | |
| 1 | CRE | | Click “Đăng nhập” on homepage | | | |
| 2 | CTC | | Display login page includes:   * “Email” text box * “Mật khẩu” text box * “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 | | | |

#### User logout

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | CRE want to logout CTC system | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. CRE is in CTC system | | |
| **Trigger:** | | Click “Đăng xuất” label in website | | |
| **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 | | |

s

#### Connect to goods owner

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | Carrier want to connect to Goods owner | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. Bill of lading is auction is successfully or auctioning | | |
| **Trigger:** | | Click “Reply” on bill of lading detail page | | |
| **Post conditions:** | | Send comment to carrier | | |
| **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” text box | | |
| 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:** | | B51 | | |
| **Other Information:** | | N/A | | |

#### Reference price

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **Primary Actor** | | Carrier | **Secondary Actor** |  |
| **Description:** | | Carrier want to reference price from other website | | |
| **Preconditions:** | | 1. CTC must be connected to the Internet 2. CRE browsed CTC website 3. Click “Báo giá” navigator | | |
| **Trigger:** | | Click “Tham chiếu” button in bill of lading detail page | | |
| **Post conditions:** | | Display price list from other website | | |
| **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 | | |

#### Confirm complete transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Created by:** | | QuyetTD | **Date Created:** | 08/03/2016 |
| **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. CTC must be connected to the Internet 2. CRE 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 | CRE | 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:** | | B51 | | |
| **Other Information:** | | N/A | | |

# Non-functional Requirement

## Security

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Guest** | **Carrier** | **Goods Owner** | **Administrator** |
| View bill of lading list | ✓ | ✓ | ✓ | ✓ |
| View bill of lading detail |  | ✓ | ✓ | ✓ |
| Search bill of lading | ✓ | ✓ | ✓ | ✓ |
| View carrier auction success |  |  | ✓ | ✓ |
| Register a new bill of lading |  |  | ✓ |  |
| Cancel bill of lading |  | ✓ | ✓ |  |
| Edit profile |  | ✓ | ✓ | ✓ |
| View profile |  | ✓ | ✓ | ✓ |
| Change password |  | ✓ | ✓ | ✓ |
| Forget password |  | ✓ | ✓ | ✓ |
| Send report |  | ✓ | ✓ |  |
| View report list |  | ✓ | ✓ | ✓ |
| Add new price |  |  |  | ✓ |
| View price list | ✓ | ✓ | ✓ | ✓ |
| Transaction History |  | ✓ | ✓ | ✓ |
| Login |  | ✓ | ✓ | ✓ |
| Logout |  | ✓ | ✓ | ✓ |
| Summary all bill of lading |  |  |  | ✓ |
| View list of carrier who are auctioning |  |  |  | ✓ |
| Search user |  |  |  | ✓ |
| View user profile |  |  |  | ✓ |
| Edit user profile |  |  |  | ✓ |
| Active user |  |  |  | ✓ |
| Inactive user |  |  |  | ✓ |
| Edit price list |  |  |  | ✓ |
| Search report |  |  |  | ✓ |
| Connect to carrier |  | ✓ |  |  |
| Connect to goods owner |  |  | ✓ |  |
| response report |  |  |  | ✓ |
| Register a new account | ✓ |  |  |  |
| Auction bill of lading |  | ✓ |  |  |
| Account recharge |  | ✓ | ✓ |  |

## Maintainability & Extensibility

* We wrote automation test including Unit Tests and Integration Tests by using NUnit.
* 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.

## Availability and Scalability

* The available time is approximately 99% and must be available 24 hours a day, 7 days a week, besides user must have the ability to access website by any web browser in his or her computers.
* 10.000 user can connect to system on same time.

## Performance

In term of response time, the maximum time for accessing any page will be 2 to 5 seconds when the processing of search function will not exceed 5 seconds. However, it also depends on the internet bandwidth the network condition coverage.

## usability

* All of screen should be elegant and simple.
* **Alt attributes are provided for non-text elements**, such as images and maps.
* **Links, buttons and checkboxes are easily clickable,** for example a user can select a checkbox by clicking the text, not just the checkbox.
* **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.

# entity diagram