



Capstone Project Document

SUPER SHIPPER SYSTEM Software Requirement Specification

Super Shipper System		
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ACRONYMS & ABBREVIATIONS

1. INTRODUCTION

1.1. Purpose

This document provides developers, tester, QAs a complete and comprehensive description of both the functional requirement and non-functional requirements of the 3S system. Developers base on this document to develop the system, and testers base on this to assure the quality of the output system. Project manager base on this document to create schedule and assign task to team members.

1.2. Scope

This document defines all functional and non-functional requirements for 3S system. Beside, creating the diagrams to helps developers be easy to understand in Software Architecture Design stage.

1.3. Overview

Section 2 of this document provides overall information of the project, while excluding the specific requirements. Instead, it provides the background for those requirements, which are defined in Section 3.

Section 3 describes all the requirements in detail, including functional requirements and non-functional requirements. Each function is described based on the following format:

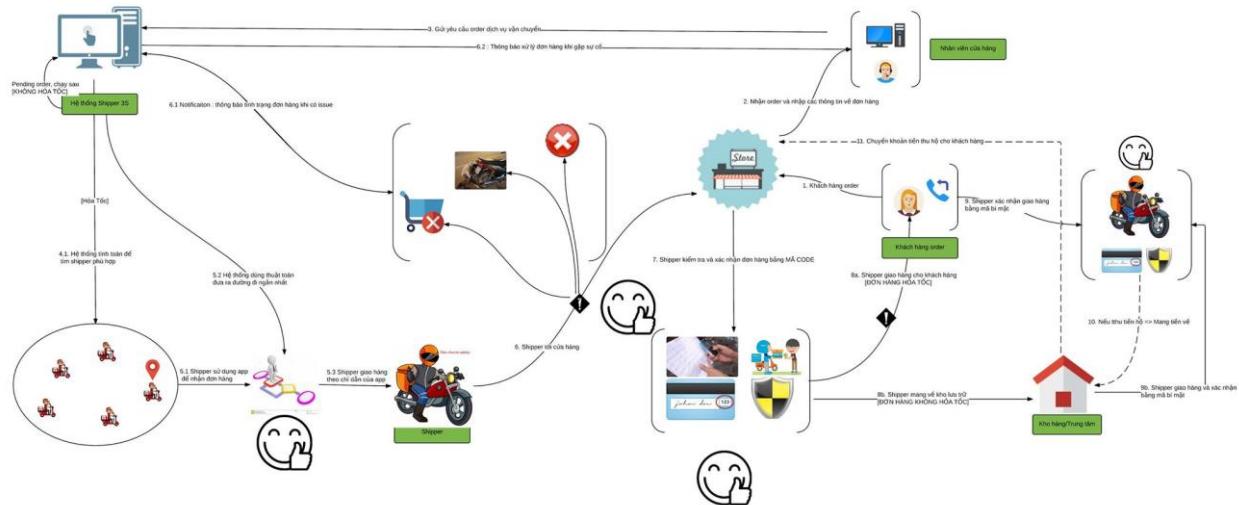
Use Case: the detailed description of all use cases

Screen: The mockup/prototype of the screen which describes the workflow of the Use Case

2. OVERVIEW DESCRIPTION

2.1. Product perspective

The below rich picture describes all perspectives of product:



The product includes 3 types:

- Web Service: This is linking between Web App with Mobile App. Beside, executing logic to response data (JSON) for clients through API.
- Web App: This is an app that supports for 2 types of user
 - o Admin: Manage (Shipper, Store), Resolve Issue, Control & Tracking Orders, ...
 - o Store: Create Order, Find Shipper, Confirm Code, Rate, Send Feedback. ...
- Mobile App: This is an app that supports for shipper's business
 - o Shipper: Receive/Reject order, find short path, Send issues message ...

2.2. Product functions

Refer to Section 3

2.3. User characteristics

There are three main actors that system support:

- Store: This system towards the stores which have demand to transport goods to clients but don't have a team of professional shipper.
- Shipper: They are transformers that enjoy system to get income.
- Administrator: They use all functions that supported by system to manage activities of system.

2.4. Constraint

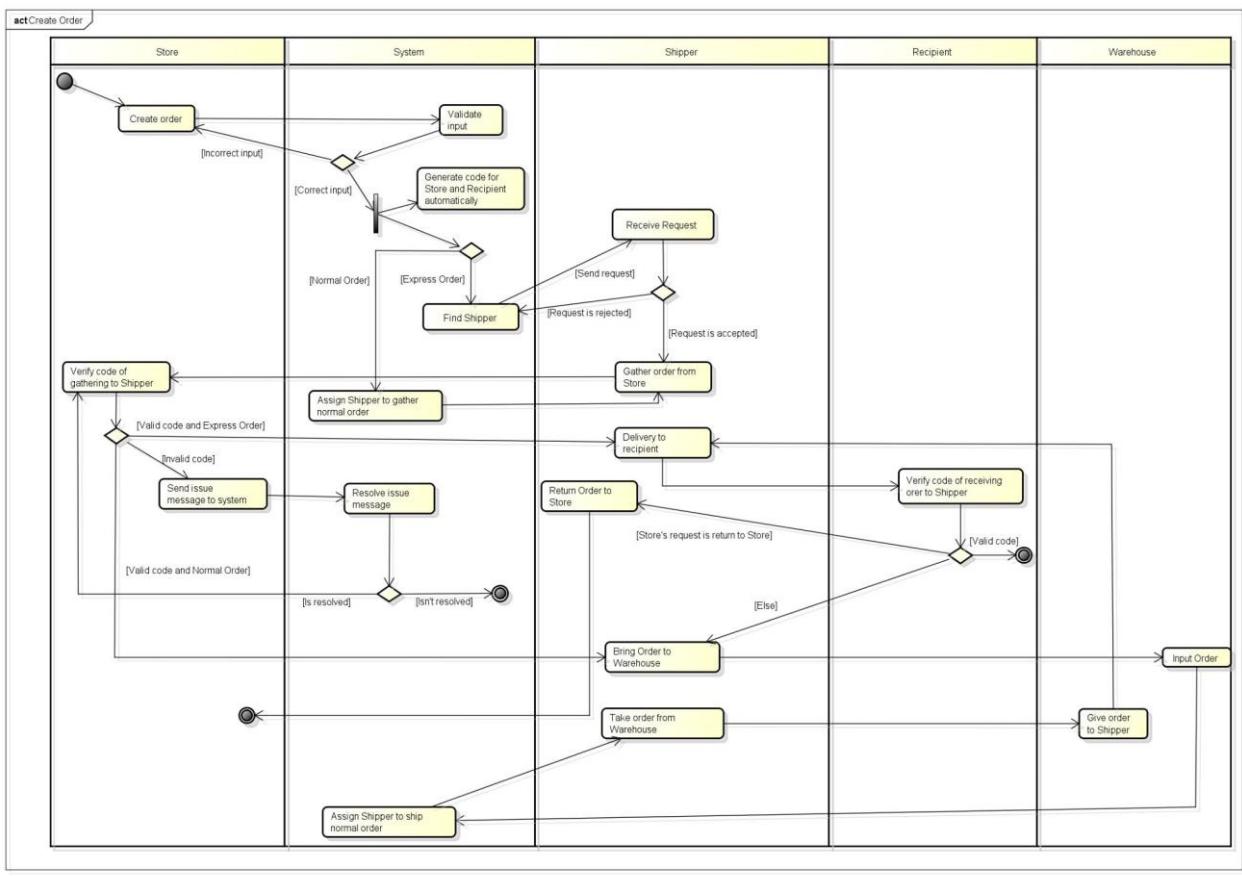
- All products of system have to meets the deadline
- All processes and related documents have to observe procedure of FPT

2.5. Assumption and dependencies

- Receive the guidance and good support of teacher
- No one of member got sick in the software development process
- In the development process, no device got fail
- All reports meet the deadline
- Team members don't conflict and get high responsibility in the working process

2.6. Activity Diagram

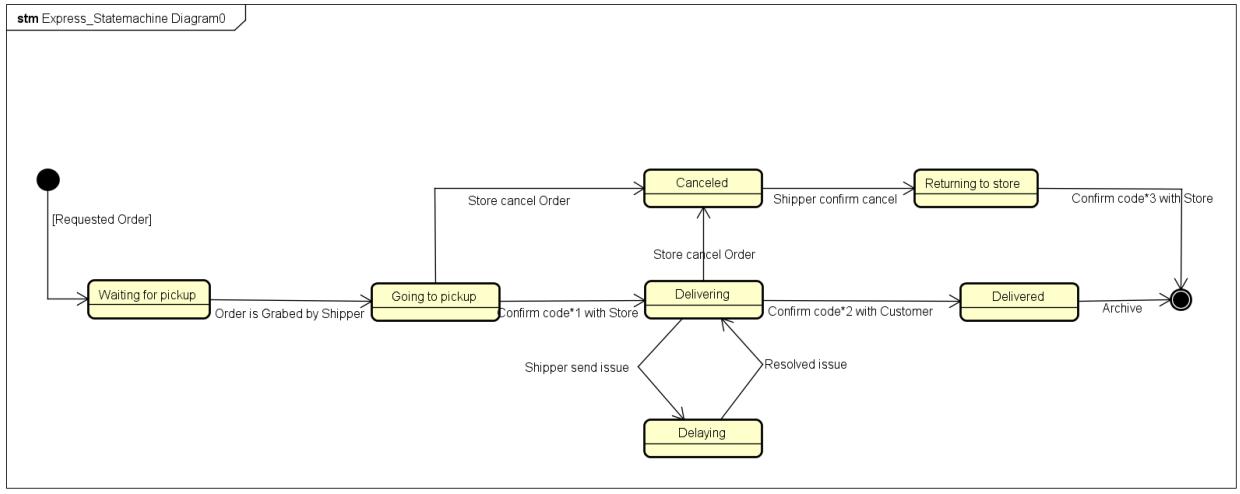
This diagram describes the procedure of order



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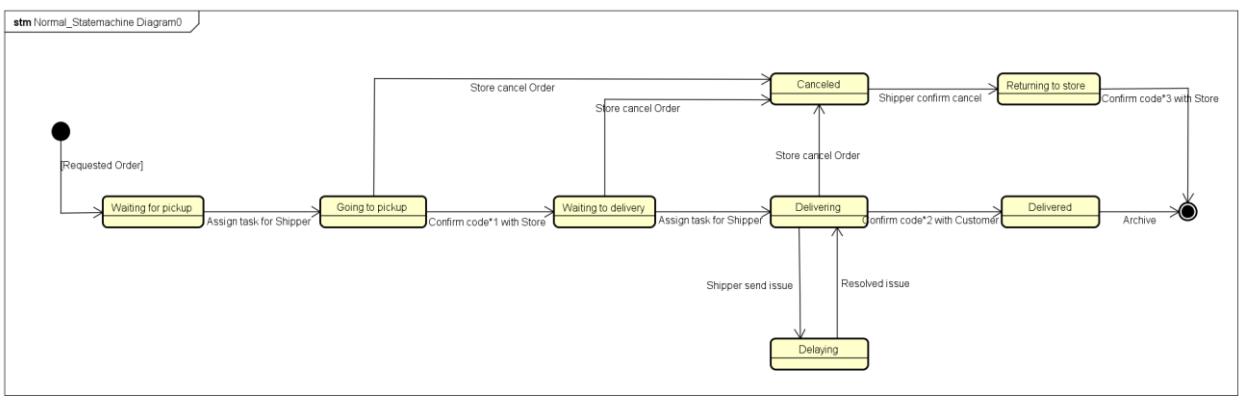
2.7. State Machine Diagram

This diagram describes the status of order:
In case express delivery:



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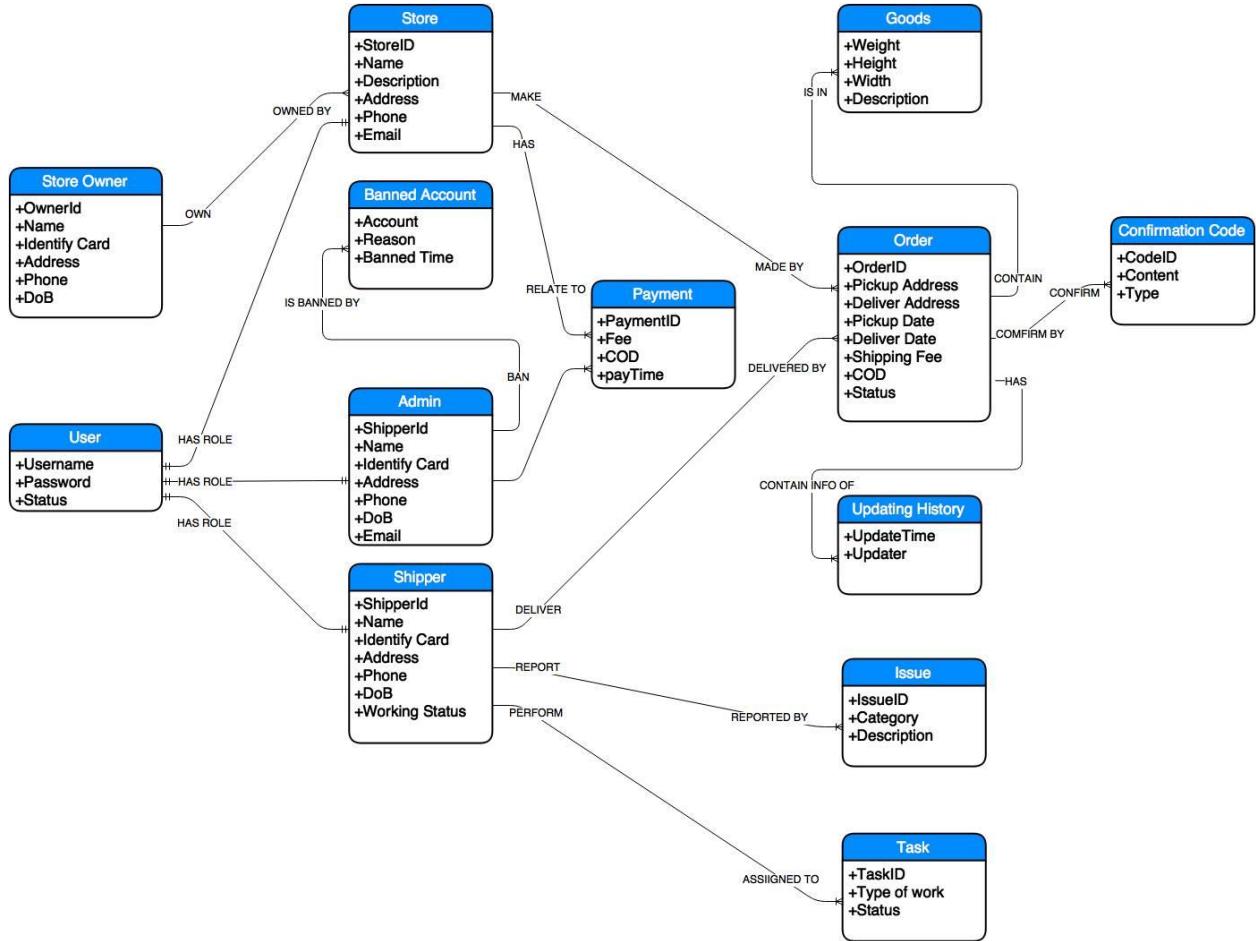
In case normal delivery:



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2.8. Entity Relationship Diagram

This diagram describes the relationship among entities of system



3. FUNCTIONAL REQUIREMENTS

3.1. Web application for Admin

3.1.1. User Case Diagram

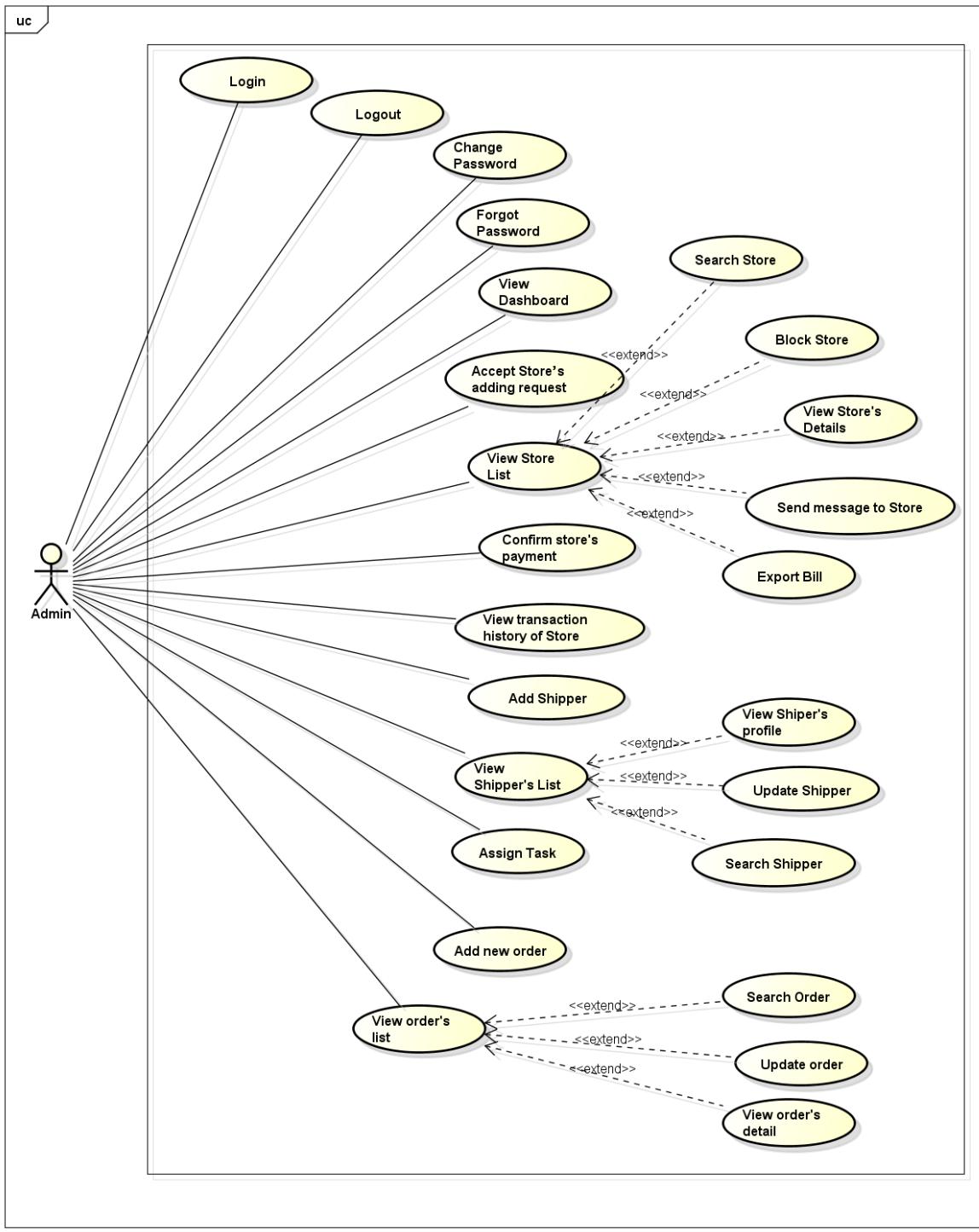
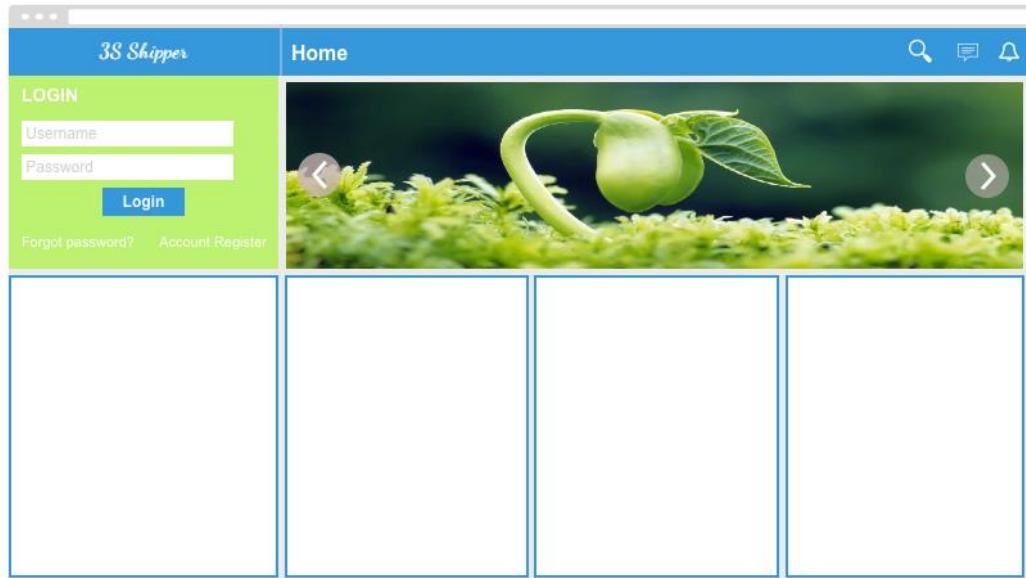


Figure 11: User case diagram of Web Application for Admin

3.1.2. Functions

UC-101: Login



Use Case ID:	UC-101		
Use Case Name:	Login		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last Updated:	20/09/2015
Actor:	Admin		
Description:	Users who are not logged in to system can only view the “Homepage”. Admin needs to logins to system to use functions of system.		
Triggering event:	Admin wants to login to system		
Preconditions:	Admin is on the “Homepage” of 3S website Admin account must be exists		
Post conditions:	Logs Admin into system Redirects to “Homepage” screen (Refer to UC-218: View Homepage) and displays as Admin		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Enters User name and Password	
2.	Admin	Clicks “Login”	
3.	System	Check “Username” and “Password” in database.	
4.	System	Logs Admin into system	
5.	System	Redirects to “Homepage” screen and displays as Admin	

Alternative:**Exceptions:**

EC1 At step 3 in main flow, if Admin entered wrong User name or Password

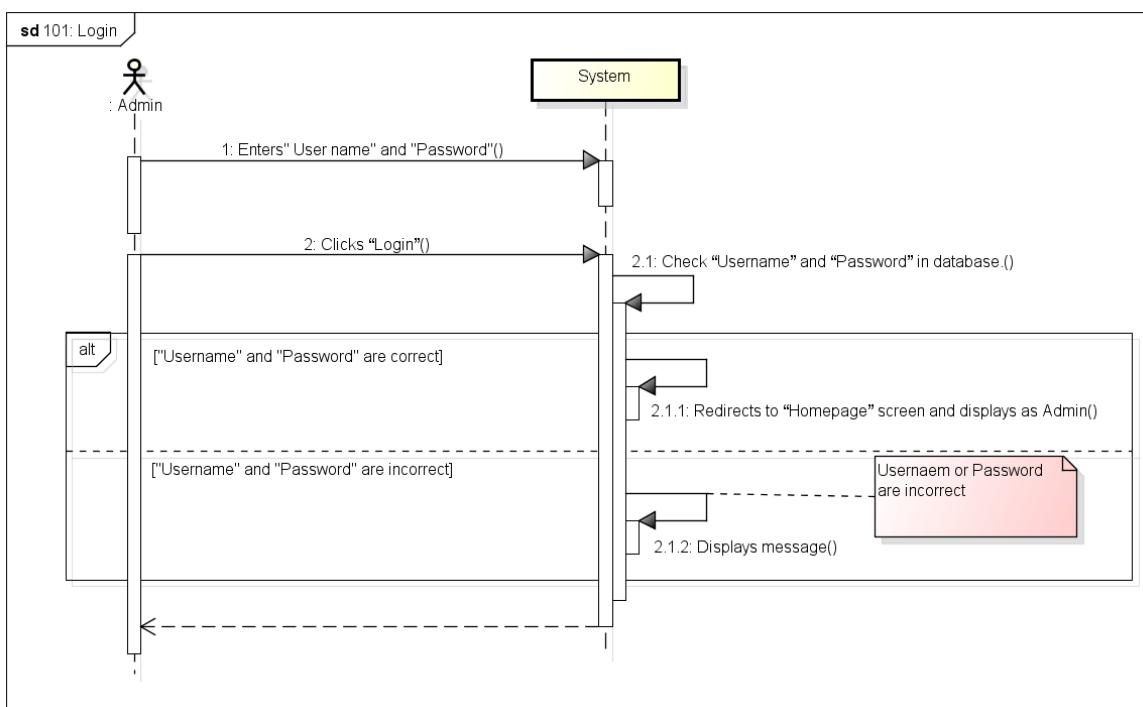
Step	Actor	Action
------	-------	--------

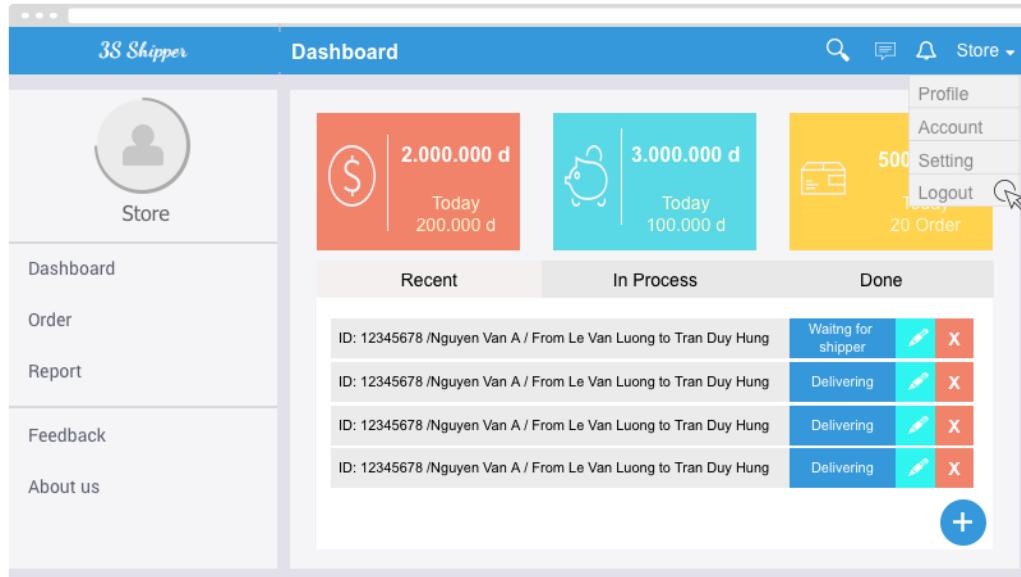
3.1	System	Displays message "Username or Password is wrong"
-----	--------	--

Includes:		N/A
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Special		N/A
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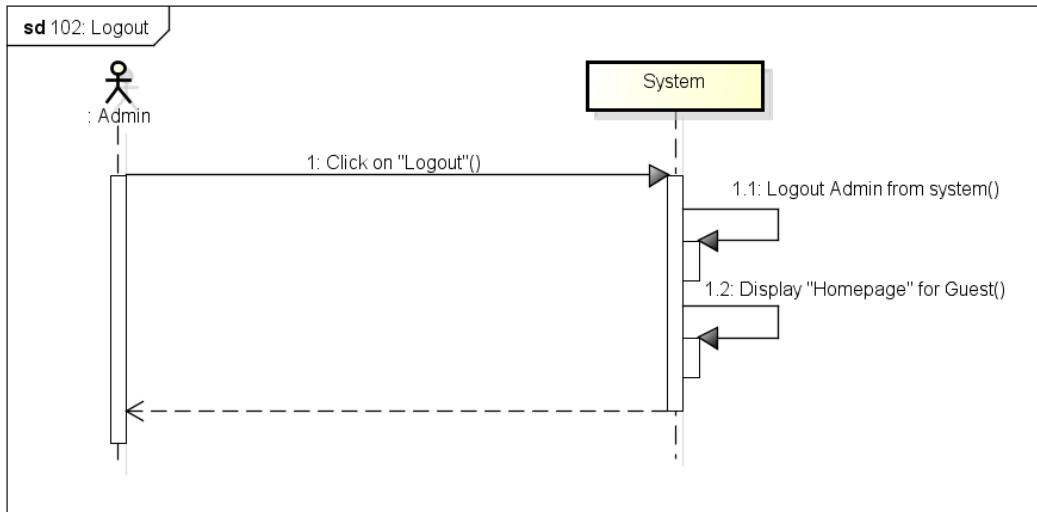
Notes and Issues:		N/A
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Sequence Diagram

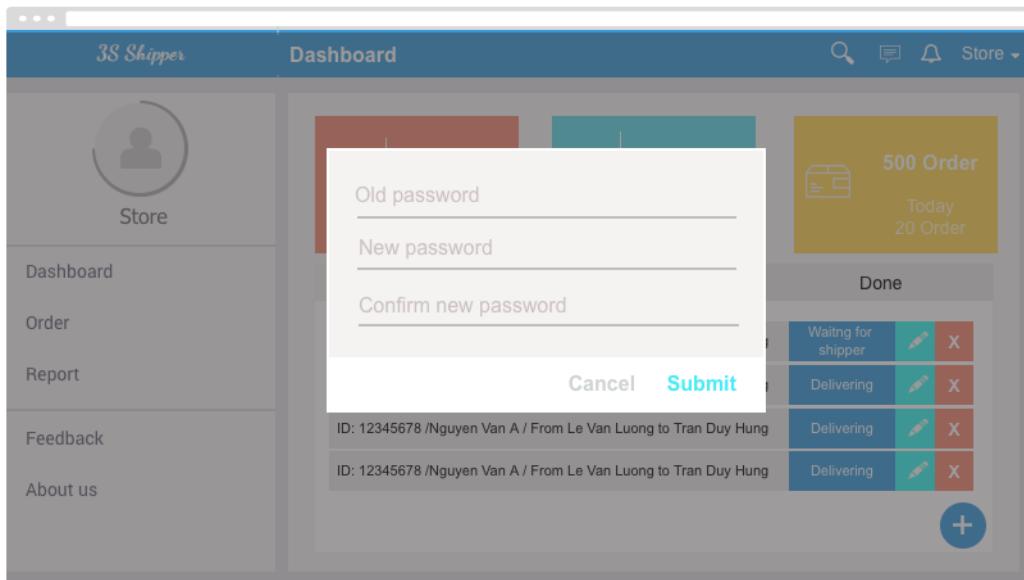
UC-102: Logout

Use Case ID:	UC-203	
Use Case Name:	Logout	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Admin	
Description:	When Admin logouts from system, Admin will cannot continue using functions of system. Admin needs to login again to be able to use the function of system.	
Triggering event:	Admin wants to logout from system.	
Preconditions:	Admin logged in to system	
Post conditions:	Logs Admin out from system. Redirects to “Homepage” screen (Refer to UC218: View Homepage)	
Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
1.	Admin	Clicks Logout
2.	System	Logouts Admin from system
3.	System	Displays Homepage for Guest
Alternative Flows:		
Exceptions:	N/A	
Includes:	N/A	
Special Requirements:	N/A	
Notes and Issues:	N/A	

Sequence Diagram



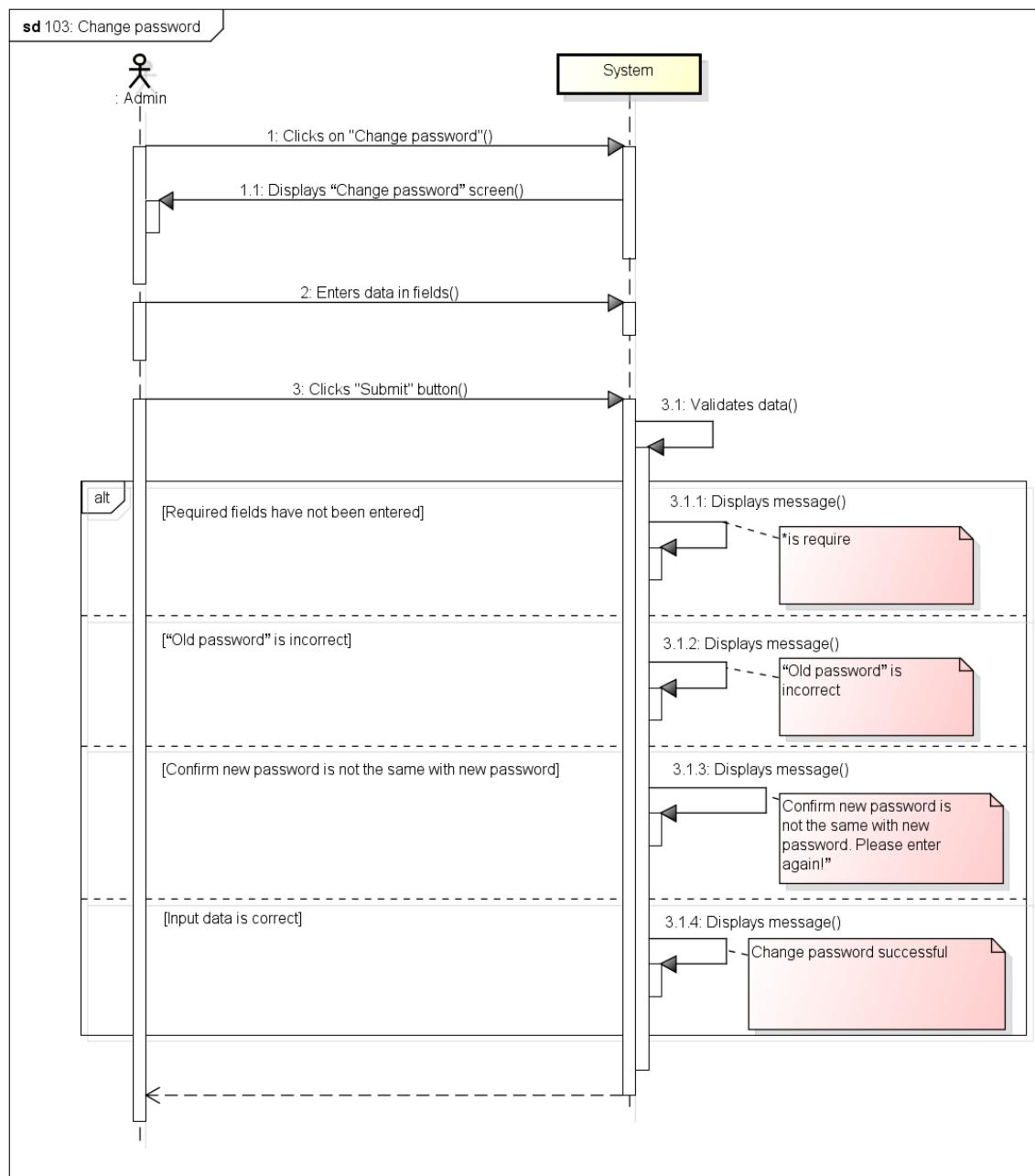
UC-103: Change password

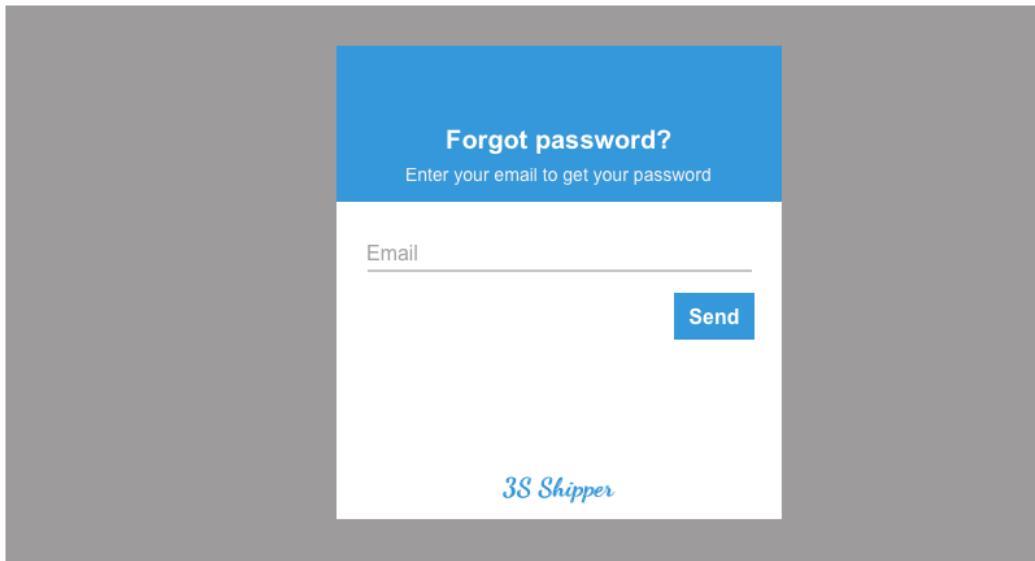


Use Case ID:	UC-204		
Use Case Name:	Change password		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Admin		
Description:	Admin can change login password but Admin need to remember old password.		
Triggering event:	Admin wants to change password.		
Preconditions:	Admin logged in to system		
Post conditions:	New password has been saved in database.		

Priority:	High	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Admin	Clicks “Change password”
2.	System	Displays “Change password” screen includes: - Old password text box - New password text box - Confirm new password text box - Submit button
3.	Admin	Enters data in fields
4.	Admin	Clicks “Submit” button
5.	System	Validates data
6.	System	Displays “Change password” screen with message “Changes password successful”
Alternative Flows:	N/A	
Exceptions:		
EC1	At step 4, required fields are not entered	
Step	Actor	Action
4.1	System	Displays “Change password” screen with error message “*is require”
EC2	At step 4, “Old password” is incorrect	
Step	Actor	Action
4.1	System	Displays “Change password” screen with error message: “Old password is incorrect”
EC3	At step 4, confirm new password is not the same with new password	
Step	Actor	Action
4.1	System	Displays “Change password” screen with error message.” Confirm new password is not the same with new password. Please enter again!”
Includes:	N/A	
Special Requirements:	Length of “New password” must between 6 and 10.	
Notes and Issues:	N/A	

Sequence Diagram

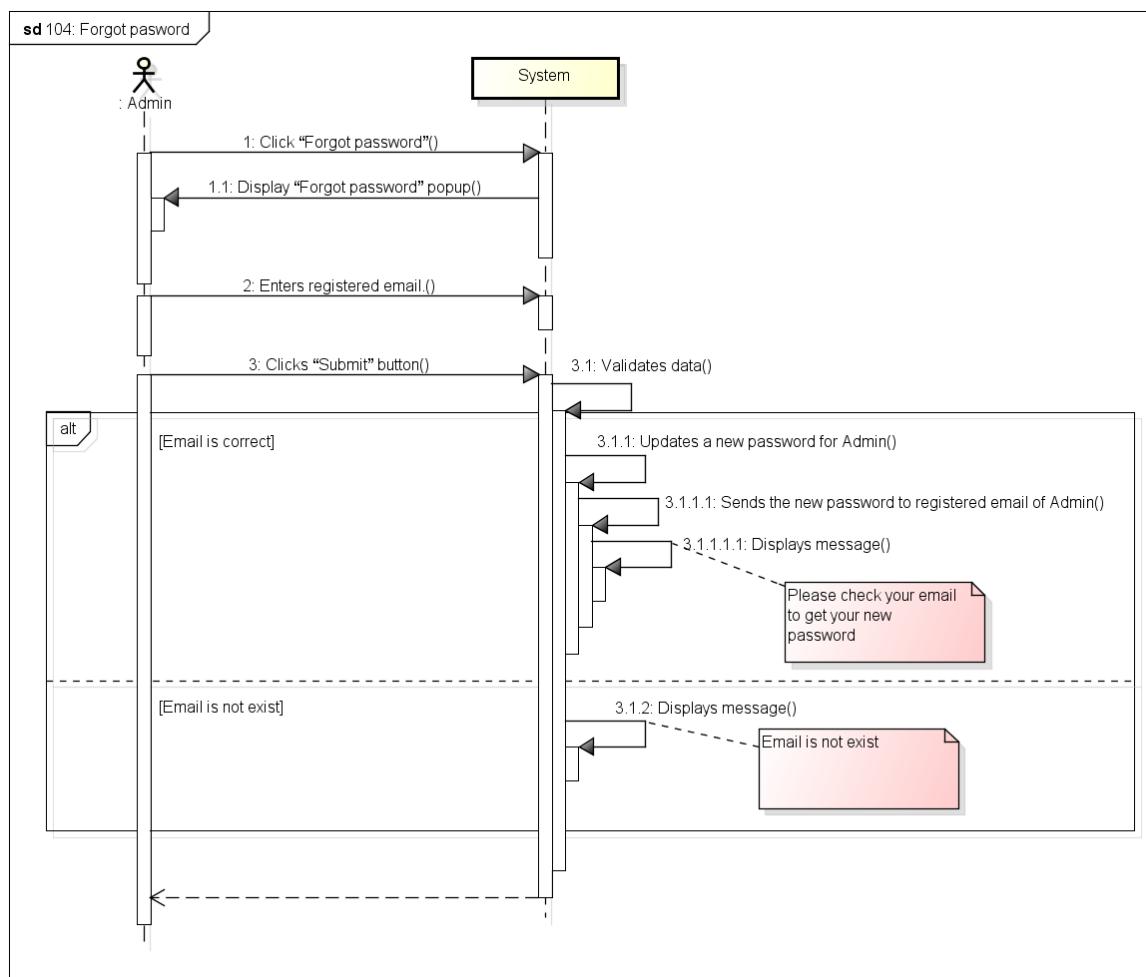


UC-104: Forgot password

Use Case ID:	UC-205		
Use Case Name:	Forgot password		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Admin		
Description:	This function help Admin receive their login password when Admin forgot.		
Triggering event:	Admin requests system to receive new password.		
Preconditions:	Admin is on the “Homepage” (Refer to UC-218: View Homepage)		
Post conditions:	<ul style="list-style-type: none"> - A new password has been updated for Admin - An email has been send to registered email of Admin include new password. 		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks “Forgot password” hyperlink on “Login” box	
2.	System	Displays “Forgot password” popup includes: - Email text box - Submit button	
3.	Guest	Enters registered email.	
4.	Guest	Clicks “Submit” button	
5.	System	Validates data	

6.	System	Updates a new password for Admin
7.	System	Sends the new password to registered email of Admin
8.	System	Displays message : "Please check your email to get your new password"
Alternative Flows:		N/A
Exceptions:		
EC1	At step 3, email are not a registered email	
Step	Actor	Actor
4.1	System	Displays error message: "Email is not exist"
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram



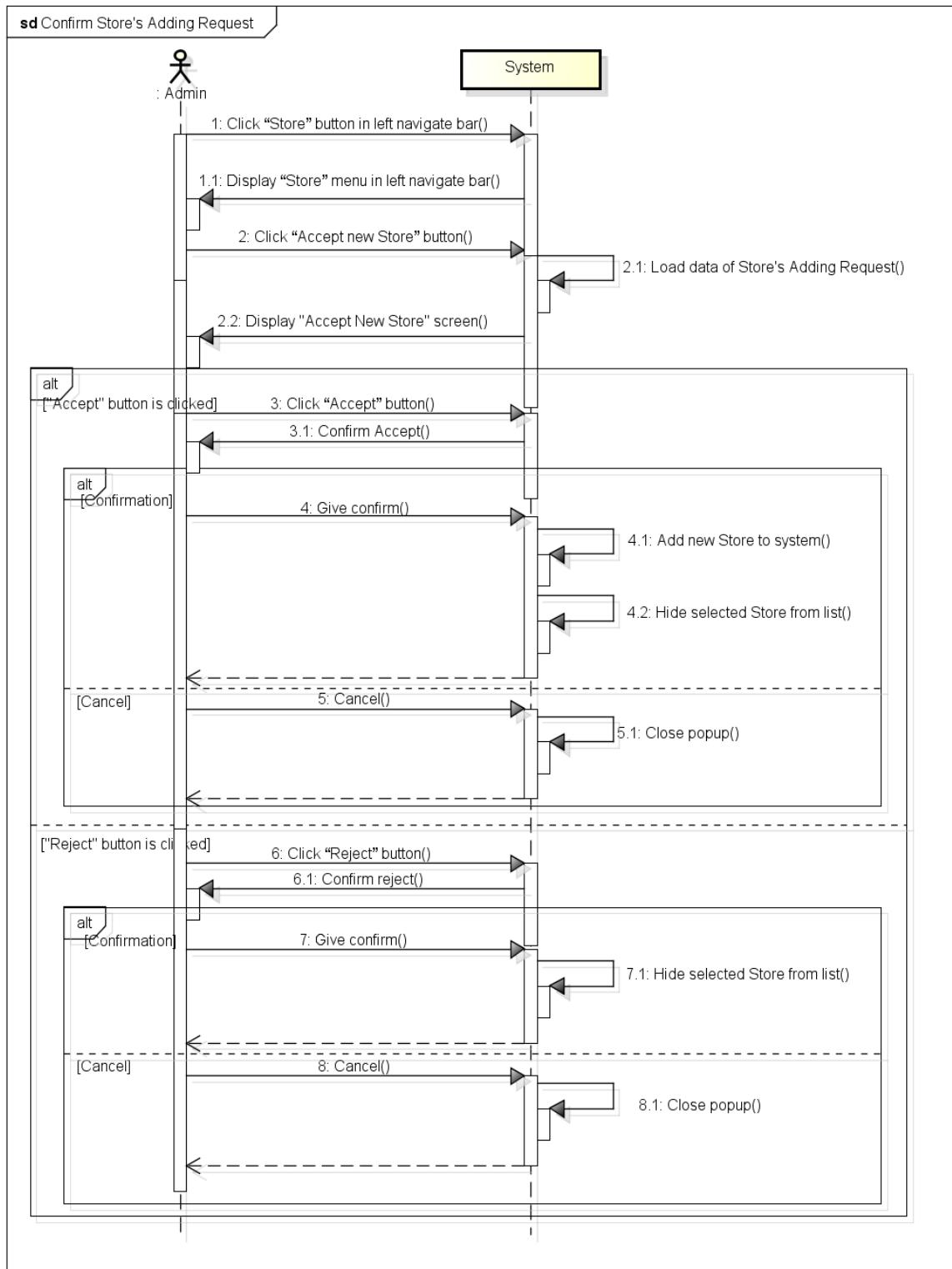
UC- 105: Accept Store

#	Store's name	Address	Registered Date	Action
1	3S Fashion	Hoang Mai - Ha Noi	12-11-2015	<button>Accept</button> <button>Reject</button>
2	H2T Food	Cau Giay - Ha Noi	12-11-2015	<button>Accept</button> <button>Reject</button>
3				
4				
5				
6				
7				

Figure 11: Screen of Confirm Store's Adding Request Use case

Use Case ID:	UC-105		
Use Case Name:	Accept Store's adding request		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	24/09/2015
Actor:	Admin		
Description:	If the Store registers to system, an adding request is sent to Admin, after that Admin views list of adding request of the Store then accept or reject to add the Store		
Triggering Event:	Admin wants to accept or reject adding request of Store		
Preconditions:	Admin logged in to system		
Post conditions:	New Store is added to database		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks "Store" button in left navigate bar	
2.	System	Display "Store" menu includes: Accept Store, Store's List, Confirm Payment and Transaction History	
3.	Admin	Clicks "Accept Store" button	
4.	System	Load data of Store's Adding Request and display in "Accept Store" screen includes: - Search textbox and button	

		<ul style="list-style-type: none"> - Filter drop-downlist - Registered Store's basic information with 2 buttons "Accept" and "Reject" in each row in a table
5.	Admin	Clicks "Accept" button to accept to add new Store
6.	System	Display confirm popup includes "Yes" and "No" button
7.	Admin	Confirm by clicking "Yes" button
8.	System	Close popup and hide this store from list
9.	System	Add new Store to database of System
Alternative Flows:		N/A
Exceptions:		
EC1	At step 5, Admin reject by clicking "Reject" button	
Step	Actor	Action
5.1	System	Delete this store from list and this Store isn't added to System
EC2	At step 7, Admin clicks on "No" button	
Step	Actor	Action
7.1	System	Close popup and proceed to step 4
EC3	At step 4, system can't get data from database because the internet or the database disconnect	
Step	Actor	Action
4.1	System	Show error message: "Failed to load data"
Includes:		
Special Requirements:		
Notes and Issues:		



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Sequence Diagram

Figure 11: Sequence Diagram for Confirm Store's Adding Request Use case

UC- 106: Search Store

#	Store's name	Adress	Payment	
1	3S Fashion	Hoang Mai - Ha Noi	10000VND	<input checked="" type="checkbox"/>
2	H2T Food	Cau Giay - Ha Noi	150000VND	<input checked="" type="checkbox"/>
3	KKC Book Store	Ha Dong - Ha Noi	30000VND	<input checked="" type="checkbox"/>
4				
5				
6				
7				

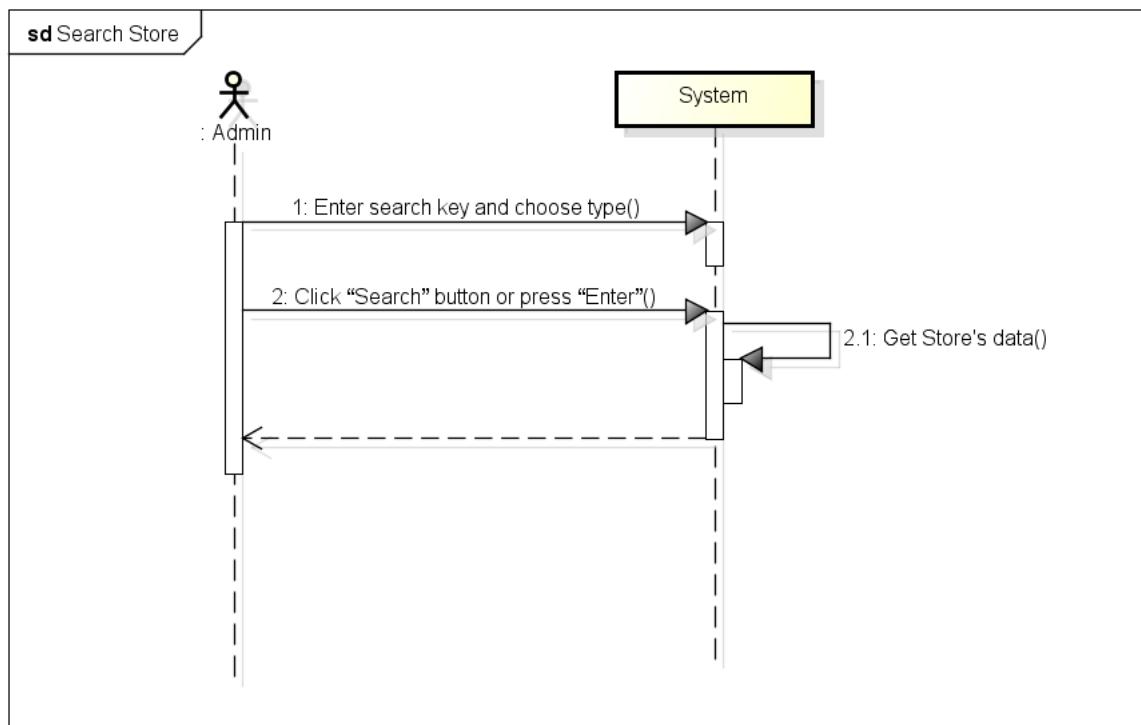
Name

« 1 2 3 4 5 »

Figure 11: Screen of Search Store Use case

Use Case ID:	UC-106		
Use Case Name:	Search Store		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	24/09/2015
Actor:	Admin		
Description:	Admin wants the system to list all Stores related to a specific keyword and type, after that, Admin can choose a Store to view details, update information and block or unblock this Store.		
Triggering Event:	Admin wants to search store		
Preconditions:	Admin is in view store's list page (refer case UC-107)		
Post conditions:	Display Store as result of search		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Admin	Choose type of searching: Name, Address or Type	
2.	Admin	Enter text to "Search" text box	
3.	Admin	Clicks "Search" button or press "Enter"	
4.	System	Get Store's data from database and display result on screen includes: - Search textbox and button	

		<ul style="list-style-type: none"> - Filter drop-downlist - Related Store's basic information with 3 buttons Update, Send Message and Block or Unblock in a table
	Alternative Flows:	N/A
	Exceptions:	
EC1		At step 4, system can't get data from database because the internet or the database disconnect
Step	Actor	Action
4.1	System	Show error message: "Failed to load data"
	Includes:	N/A
	Special Requirements:	<ul style="list-style-type: none"> - Result of search is case insensitive - If Admin doesn't choose any type, Name will be default type
	Notes and Issues:	N/A



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Figure 11: Sequence Diagram for Search Store Use case

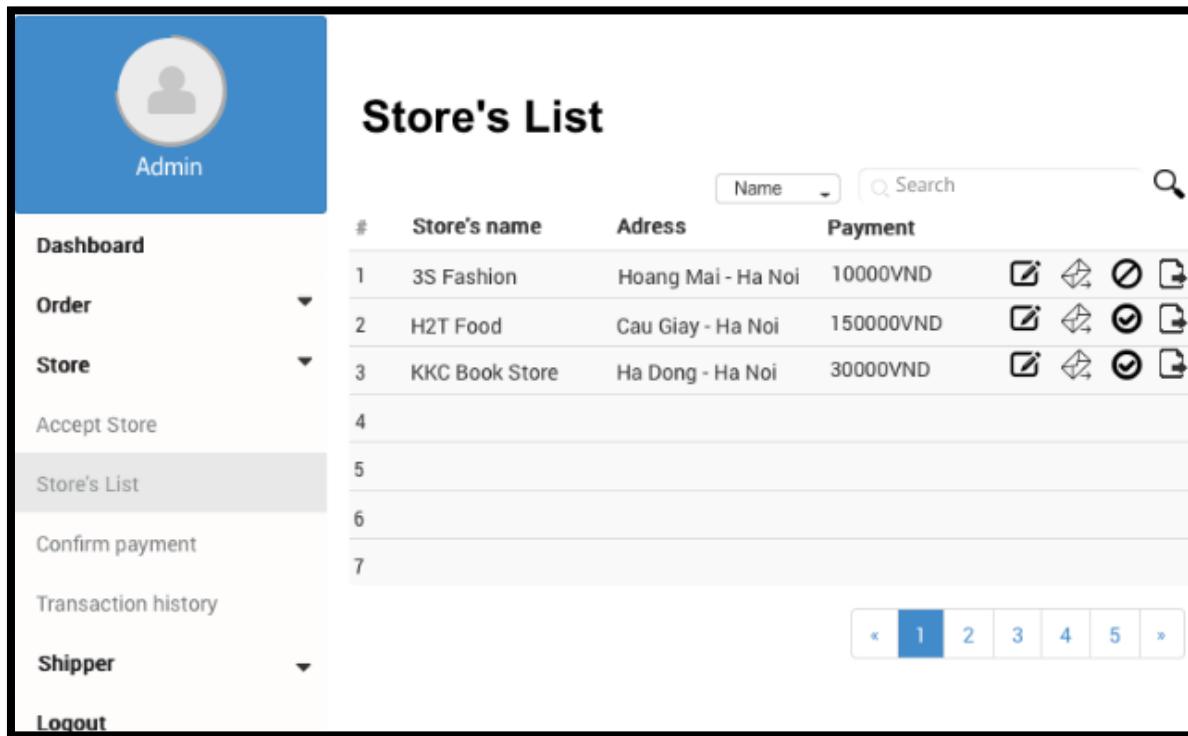
UC- 107: View Store's list

Figure 11: Screen of View Store's List Use case

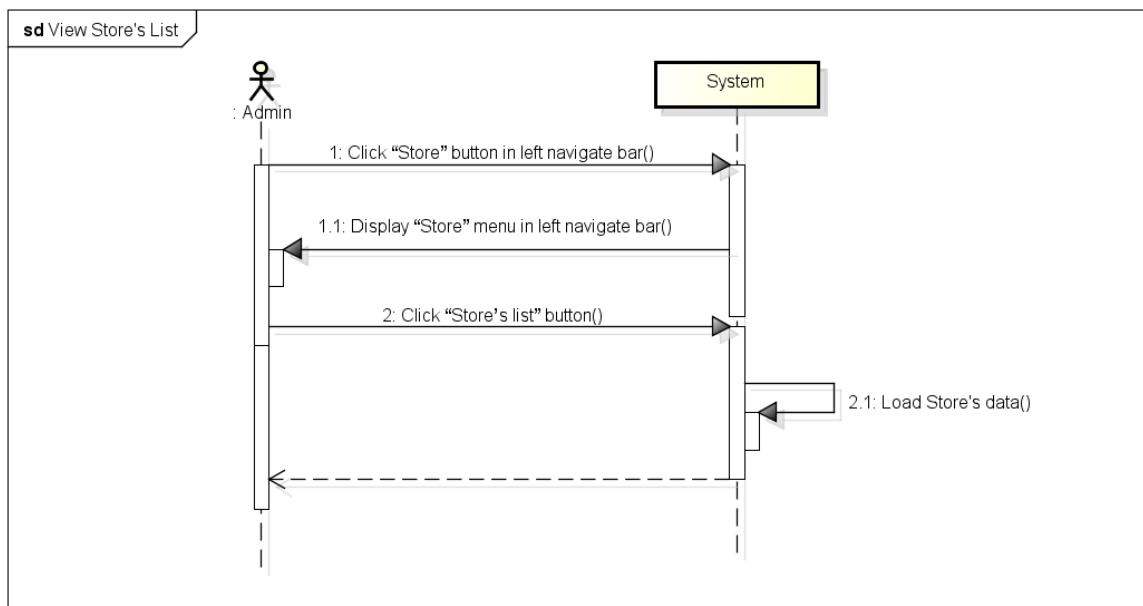
Use Case ID:	UC-107		
Use Case Name:	View Store's list		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin views all Store in a table with basic information (address, name, payment,...), so after that, Admin can choose a Store to send message, edit and block or unblock		
Triggering Event:	Admin wants to view all of Store		
Preconditions:	Admin logged in to system		
Post conditions:	List of store is displayed to screen		
Priority:	High		
Frequency of Use:	Always		

Main flow

Step	Actor	Action
1.	Admin	Clicks "Store" button in left navigate bar
2.	System	Display "Store" menu in left navigate bar includes: Accept Store, Store's List, Confirm Payment and Transaction History
3.	Admin	Clicks "Store's list" button
4.	System	Get Store's data then display "Store's List" screen includes:

		<ul style="list-style-type: none"> - Search textbox and button - Filter drop-downlist - All Store's basic information with 3 icon buttons: Update, Send Message and Block or Unblock
Alternative Flows:	N/A	
Exceptions:		
EC1	At step 4, system can't get data from database because the internet or the database disconnect	
Step	Actor	Action
4.1	System	Show error message: "Failed to load data"
	Includes:	N/A
	Special Requirements:	N/A
	Notes and Issues:	N/A

Sequence Diagram



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Figure 11: Sequence Diagram for View Store's List Use case

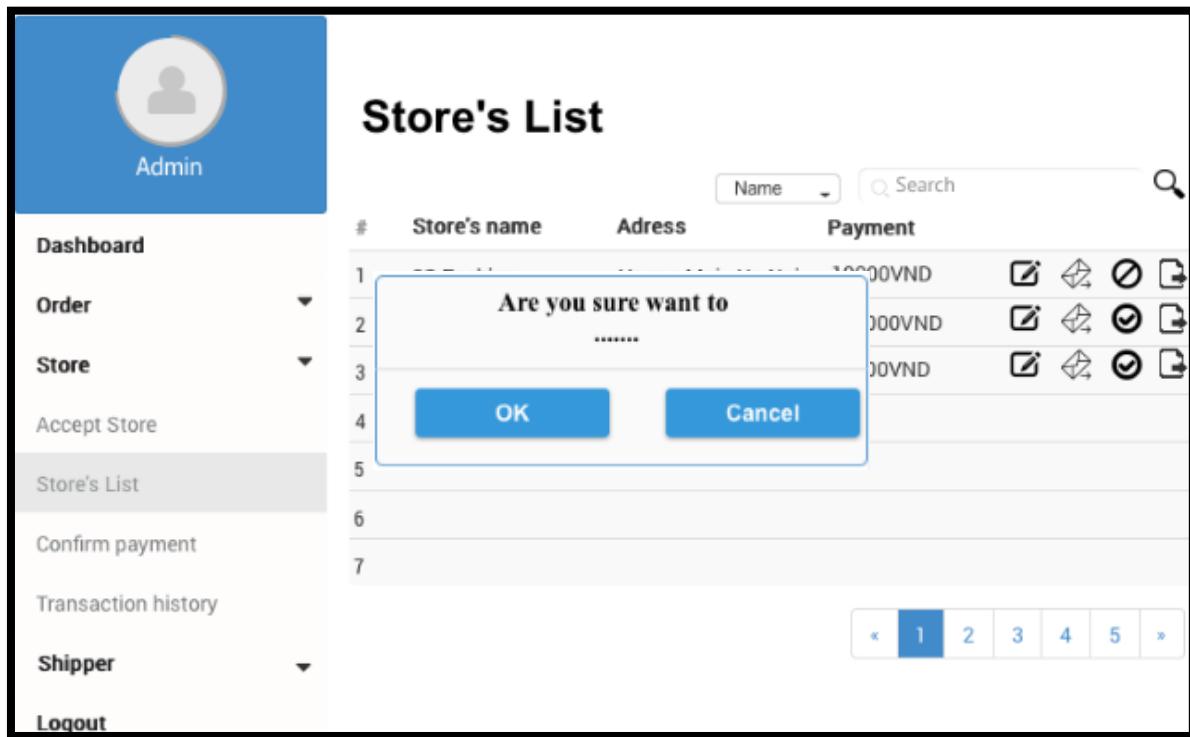
UC- 108: Block and Unblock store

Figure 11: Screen of Block and Unblock Store Use case

Use Case ID:	UC-108		
Use Case Name:	Block and Unblock store		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	24/09/2015
Actor:	Admin		
Description:	Admin bans the store from system if the store has serious breach of contract, so they can't do any function of system if they were banned. Besides, Admin can unban the Store which is banned to give this Store permission of using Store's functions		
Triggering Event:	Admin wants to blocks or unblocks store		
Preconditions:	Admin is in view store's list page (refer case UC-107)		
Post conditions:	Store is blocked or unblocked		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks "Block"("Unblock") button	
2.	System	Display confirm popup includes "Yes" and "No" button	
3.	Admin	Clicks "Yes" button	

4.	System	Hide popup and change store's status of blocking
5.	System	Store is blocked or unblocked
Alternative Flows:		
AT1	At step 1, if admin clicks “View store’s details”	
Step	Actor	Action
1	Admin	Clicks Store’s name in row (hyperlink)
2	System	Display “View Store’s details” screen
3	Admin	Clicks “Block” (“Unblock”) button below avatar
4	System	Go to step 2 of main flow and continue
Exceptions:		
EC1	At step 2, Admin clicks on “No” button	
Step	Actor	Action
2.1	System	Close popup
Includes: N/A		
Special Requirements: N/A		
Notes and Issues: N/A		

Sequence Diagram

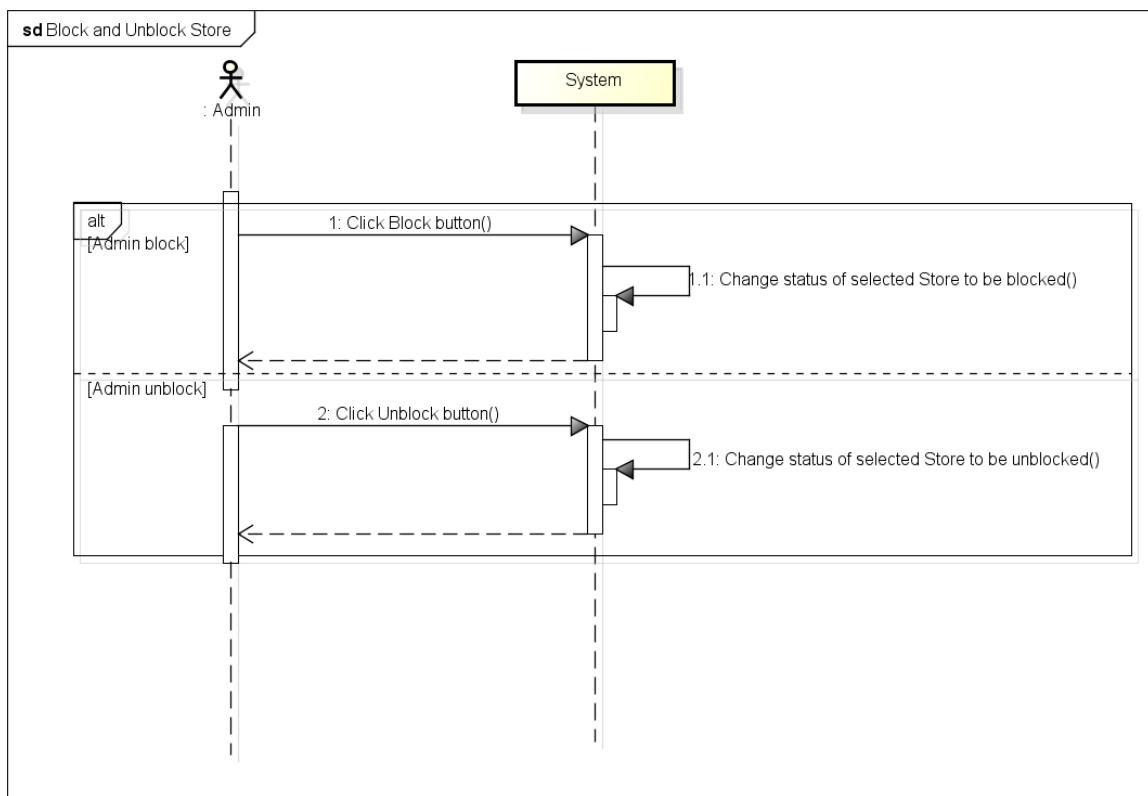


Figure 11: Sequence Diagram for Block and Unblock Store Use case

UC- 109: View Store's details

Nguyen Van A
12-11-1993
FPT University - D413

Name	Nguyen Van A	ShipperID	SP1234
Date of birth	12-11-1993	Identity card	013040324
Email	@ 3sfashion@gmail.com	Phone number	0987654321

Add New Shipper

Address

D413 - FPT University - Thach That - Ha Noi

History

#	Date	Store's name	OrderID	Type
1	20-09-2013	3SFashion	09473	Clothes
2	19-09-2013	KKC Food	04281	Food
3				
4				
5				
6				
7				

« 1 2 3 4 5 »

Figure 11: Screen of View Store's Details Use case

Use Case ID:	UC-109		
Use Case Name:	View Store's details		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	24/09/2015
Actor:	Admin		
Description:	Admin views all Store's details (address, name, registered date, phone number, store's manager, payment, identity card, bank's account information,...), so after that, Admin can send message, edit and block or unblock this Store		
Triggering Event:	Admin wants to view all information of a Store		
Preconditions:	Admin is in view store's list page (refer case UC-107)		
Post conditions:	Details of Store are displayed		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	

1.	Admin	Clicks Store's name in row (hyperlink)
2.	System	Load data of selected Store and display "View Store's details" screen includes store's details includes: address, name, registered date, phone number, store's manager, payment, identity card, bank's account information,...
Alternative Flows:		N/A
Exceptions:		N/A
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram

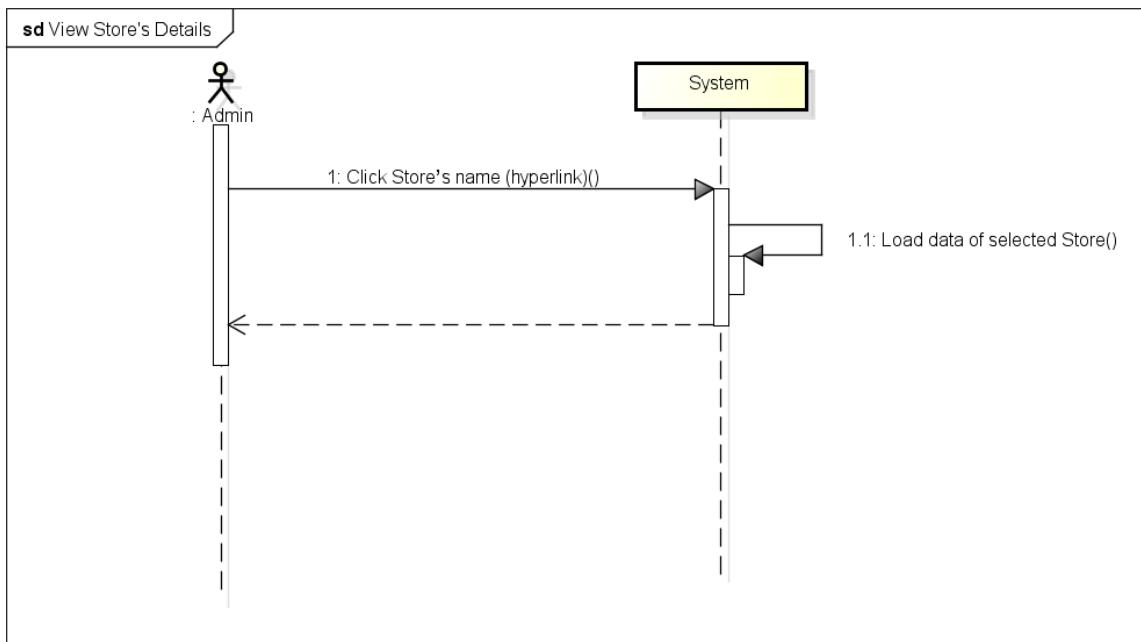


Figure 11: Sequence Diagram for View Store's Details Use case

UC- 110: Send message to Store

The screenshot shows the 'Send Message' screen. On the left is a sidebar with a user icon and the name 'Admin'. Below it are several navigation links: 'Dashboard', 'Order', 'Store', 'Accept Store', 'Store's List' (which is highlighted in grey), 'Confirm payment', 'Transaction history', 'Shipper', and 'Logout'. The main area is titled 'Send Message'. It has fields for 'To*' (with the value '3sfashion@gmail.com'), 'Cc' (empty), 'Subject*' (with the value 'SALE OFF FROM 22-10'), and a large 'Message' area which is currently empty. At the bottom right is a blue 'Send' button.

Figure 11: Screen of Send Message to Store Use case

Use Case ID:	UC-110		
Use Case Name:	Send message to Store		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin create a message with Store's name, subject and content to send to a Store or a lot of Stores (by entering store's name to Cc textbox) in order to notify the Store's about news, changes,....		
Triggering Event:	Admin wants to send message to the Store		
Preconditions:	Admin is in view store's list page (refer case UC-107)		
Post conditions:	A message is sent to the Store		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks "Send message" button	
2.	System	Display "Send message" screen with send message form includes: store's name and cc, subject and content	

3.	Admin	Fill information in textbox
4.	Admin	Clicks “Send” button
5.	System	Validate input
6.	System	Send this message to store and show the result of sending to Admin by message: “The message has been sent”
Alternative Flows:		
AT1	At step 1, if admin clicks “View store’s details”	
Step	Actor	Action
1	Admin	Clicks Store’s name in row (hyperlink)
2	System	Display “View Store’s details” screen
3	Admin	Clicks “Send message” button below avatar
4	System	Go to step 2 of main flow and continue
Exceptions:		
EC1	At step 5, if admin doesn’t type anything in Subject textbox or Content textbox	
Step	Actor	Action
5.1	System	Notify by error message in screen “*is require”
EC2	At step 6, if message can’t send to Store	
Step	Actor	Action
5.1	System	Notify by error message in screen “Can’t send to Store, please try again!!”
Includes:		N/A
Special Requirements:		<ul style="list-style-type: none"> - Message content must be longer than 20 characters - The field with ‘*’ can’t be blank
Notes and Issues:		N/A

Sequence Diagram

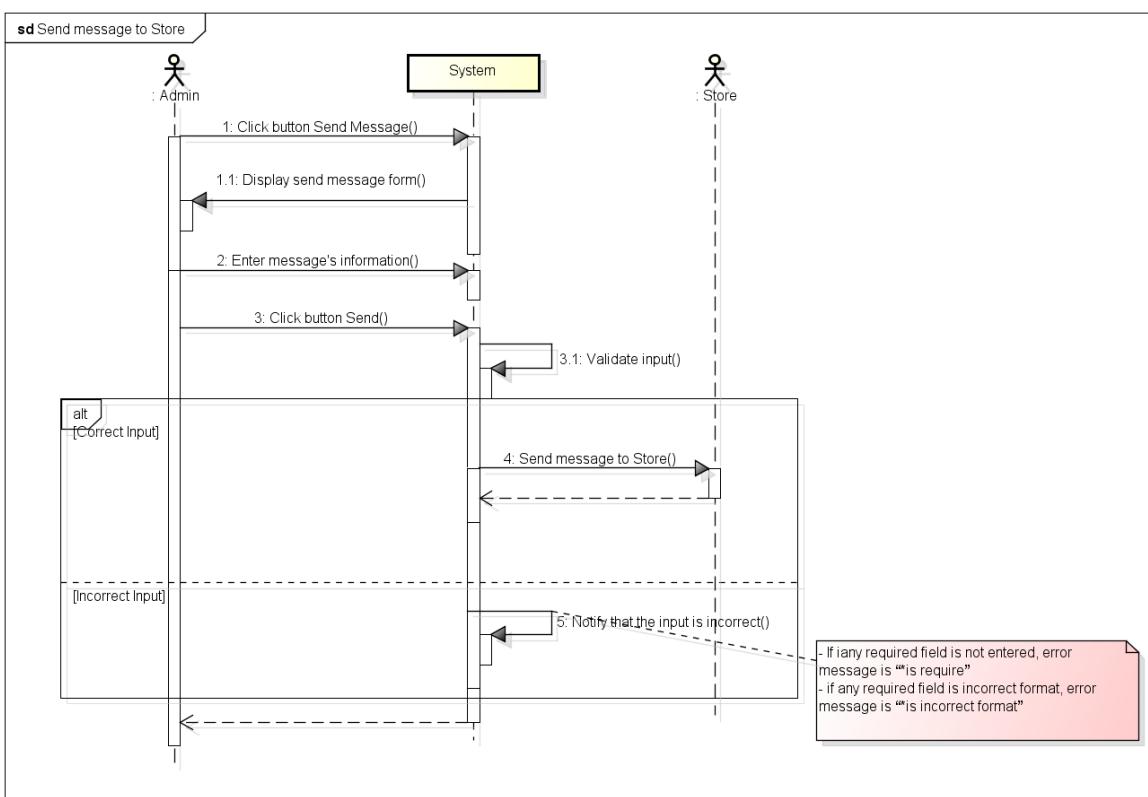


Figure 11: Sequence Diagram for Send Message to Store Use case

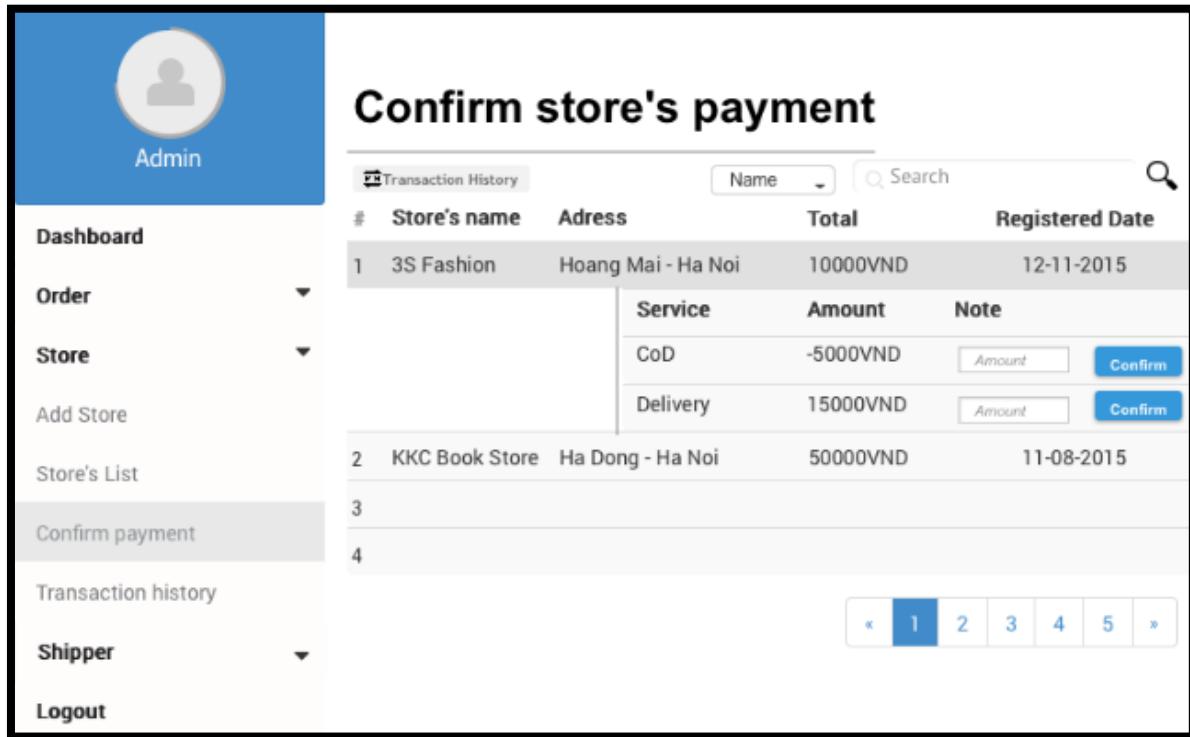
UC- 111: Confirm Store's payment

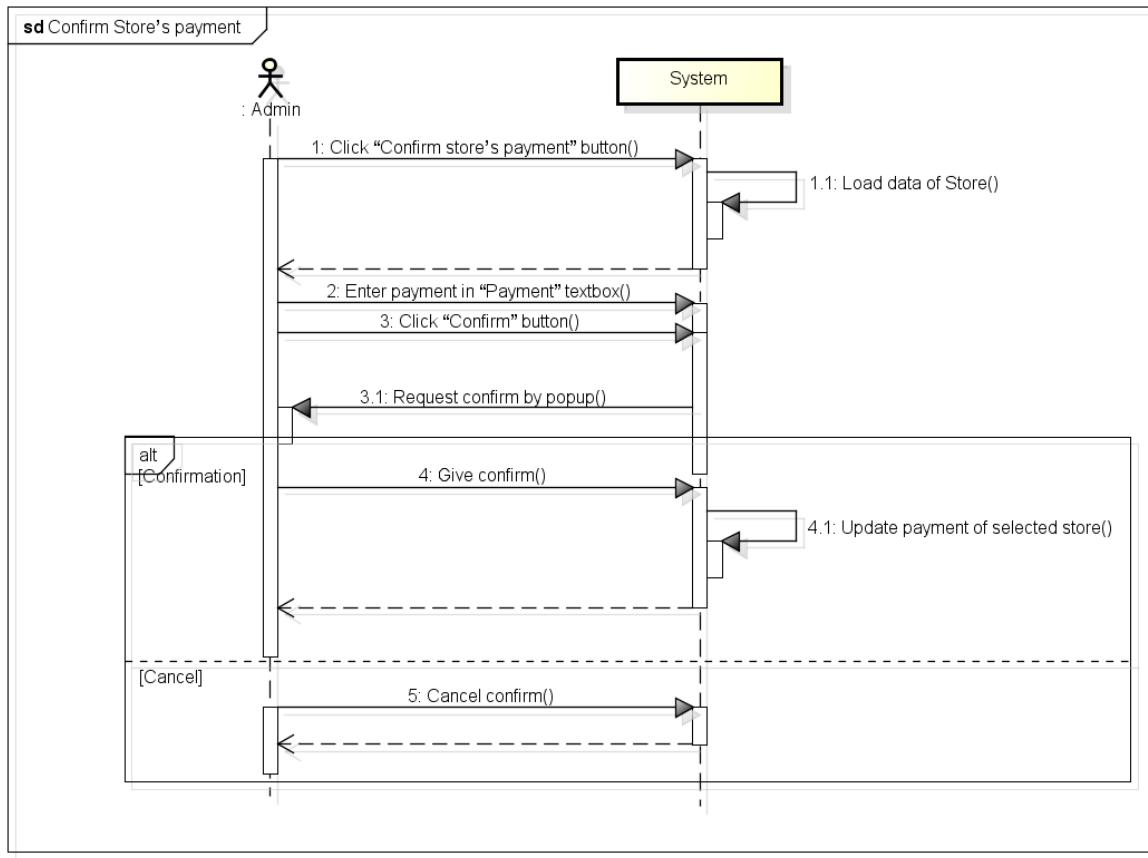
Figure 11: Screen of Confirm Store's Payment Use case

2

Use Case ID:	UC-111		
Use Case Name:	Confirm Store's payment		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	24/09/2015
Actor:	Admin		
Description:	After receiving and sending money to the Store, admin updates Store's payment by confirming amount of money of transactions		
Triggering Event:	Admin wants to confirms the store's payment		
Preconditions:	Admin logged in to system		
Post conditions:	Payment of this store is updated in database		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks "Store" button in left navigate bar	
2.	System	Display "Store" menu in left navigate bar includes: Accept Store, Store's List, Confirm Payment and Transaction History	

3.	Admin	Clicks “Confirm store’s payment” button
4.	System	<p>Display “Confirm store’s payment” screen includes:</p> <ul style="list-style-type: none"> - Search textbox and button - Filter drop-downlist - Store’s basic information, total payment in each row of a table - List of total payment of delivery service and cash on delivery service, an amount textbox and Confirm button when Admin clicks Store’s name(hyperlink)
5.	Admin	Enter payment in “Payment” textbox
6.	Admin	Clicks “Confirm” button
7.	System	Give confirm by displaying confirm popup includes “Yes” and “No” button
8.	Admin	Clicks “Yes” button
9.	System	Update payment of this store to database
Alternative Flows:		
AT1	At step 3, if admin clicks “Store’s list” button	
Step	Actor	Action
3	Admin	Clicks “Store’s list” button
4	System	Display “View Store’s details” screen
5	System	Display “Store’s List” screen
6	Admin	Clicks Store’s name in row (hyperlink)
7	System	Display “View Store’s details” screen includes store’s details
8	Admin	Clicks “Confirm store’s payment” button
9	System	Go to step 4 of main flow
Exceptions:		
Includes:		
Special Requirements:		
<ul style="list-style-type: none"> - When Admin clicks Store’s name (hyperlink), some rows will be displayed below with incomplete transaction - If the payment is negative, this is payment that the system needs to pay for the Store - If the payment is positive, this is payment that the Store needs to pay for the system - Default value of amount textbox is 0 - The value of amount textbox is only number and absolute value must be less than amount of payment 		
Notes and Issues:		

Sequence Diagram



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Figure 11: Sequence Diagram for Confirm Store's Payment Use case

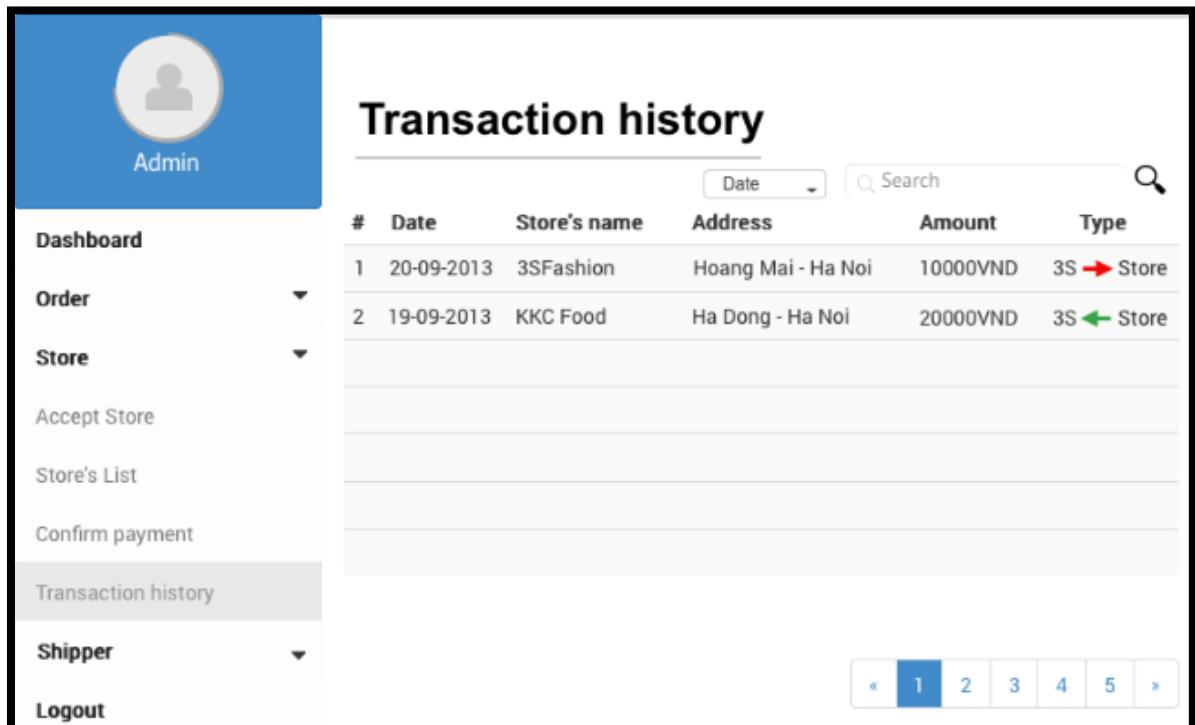
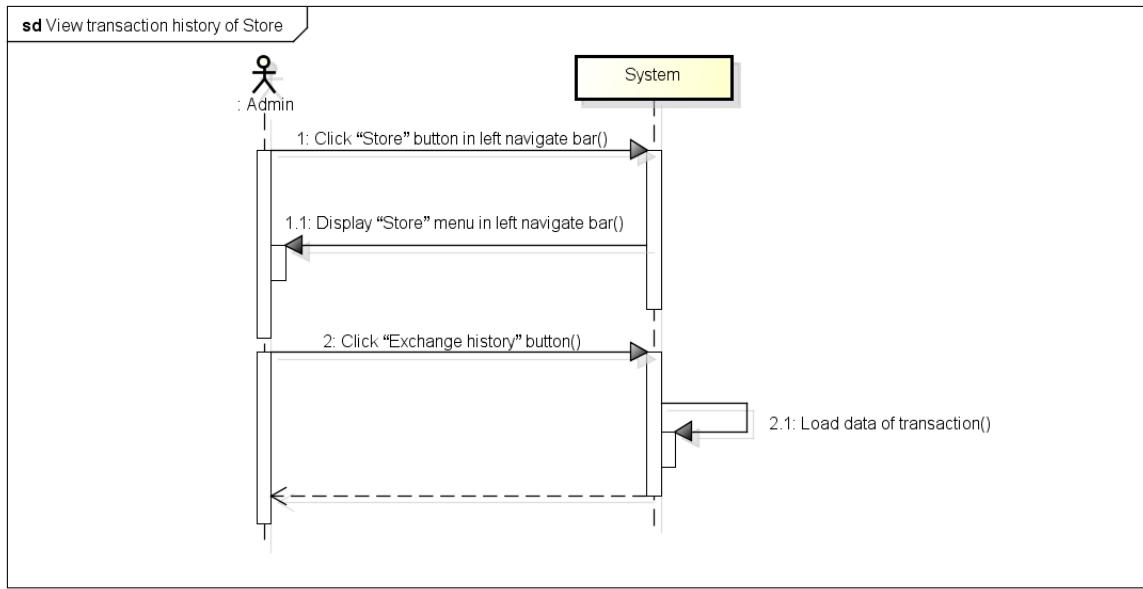
UC- 112: View transaction history of Store

Figure 11: Screen of View Transaction History of Store Use case

Use Case ID:	UC-112				
Use Case Name:	View transaction history of Store				
Created By:	HoangNK	Last Updated By:	HoangNK		
Date Created:	19/09/2015	Date Last updated:	19/09/2015		
Actor:	Admin				
Description:	Admin wants the system to list all Store's transaction with basic information (store's name, address, amount of money, type,...)				
Triggering Event:	Admin wants to view transaction history of Stores				
Preconditions:	Admin logged in to system				
Post conditions:	List of transaction history of Store is displayed				
Priority:	Normal				
Frequency of Use:	Sometime				
Main flow					
Step	Actor	Action			
1.	Admin	Clicks "Store" button in left navigate bar			
2.	System	Display "Store" menu in left navigate bar includes: Accept Store, Store's List, Confirm Payment and Transaction History			
3.	Admin	Clicks "Transaction history" button			
4.	System	Load data of transaction and display "Transaction history" screen includes - Search textbox and button - Filter drop-downlist - Basic information of transaction in a table			
Alternative Flows:					
AT1	At step 3, if admin clicks "Store's list" button				
Step	Actor	Action			
3	Admin	Clicks "Store's list" button			
4	System	Display "View Store's details" screen			
5	System	Display "Store's List" screen			
6	Admin	Clicks Store's name in row (hyperlink)			
7	System	Display "View Store's details" screen includes store's details			
8	Admin	Clicks "Transaction history" button			
9	System	Go to step 4 of main flow			
Exceptions:	N/A				
Includes:	N/A				
Special Requirements:	N/A				
Notes and Issues:	N/A				

Sequence Diagram



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Figure 11: Sequence Diagram for View Transaction history of Store Use case

UC- 113: Add Shipper

The screenshot shows the "Add new Shipper" interface. On the left, there's a sidebar with a user icon and the title "Admin". Below it are navigation links: "Dashboard", "Order", "Store", "Shipper" (which is currently selected), and "Logout". Under "Shipper", there are two options: "Add New Shipper" (highlighted in grey) and "Shipper's List". The main content area has the heading "Add new Shipper". It contains several input fields: "Name" (Nguyen Van A), "ShipperID" (SP1234), "Date of birth" (15-04-1993), "Identity card" (013040324), "Email" (3sfashion@gmail.com), "Phone number" (0987654321), and an "Address" field containing "D413 - FPT University - Thach That - Ha Noi". A blue "Add" button is located at the bottom right.

Figure 11: Screen of Add Shipper Use case

Use Case ID:	UC-113		
Use Case Name:	Add New Shipper		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin create new account to new Shipper with basic information of Shipper: name, date of birth, email, phone		

	number, identity card, address,...	
Triggering Event:	Admin wants to adds a new Shipper to system	
Preconditions:	Admin logged in to system	
Post conditions:	New Shipper and new account for this Shipper are added to database	
Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
1.	Admin	Clicks “Shipper” button in left navigate bar
2.	System	Display “Shipper” menu in left navigate bar includes Add New Shipper, Shipper’s List and Assign Task
3.	Admin	Clicks “Add new Shipper” button
4.	System	Display “Add new Shipper” form includes textbox of : name, date of birth, email, phone number, identity card, address
5.	Admin	Enter new Shipper’s information into fields
6.	Admin	Clicks “Add” button
7.	System	Validate input
8.	System	Add new Shipper and new account of this Shipper to database then redirects to “Shipper’s List” page
Alternative Flows:	N/A	
Exceptions:		
EC1	At step 7, if any required field is not entered	
Step	Actor	Action
7.1	System	Notify in screen by error message “*is require”
EC2	At step 7, if any required field is incorrect format	
Step	Actor	Action
7.1	System	Notify in screen by error message “*is incorrect format”
EC3	At step 7, if identity card or email has been already existed	
Step	Actor	Action
7.1	System	Notify in screen by error message “* has been already existed”
Includes:	N/A	
Special Requirements:	<ul style="list-style-type: none"> - ShipperID will be generated automatically by system - Default account and password for new Shipper is shipperID, Shipper can change them by mobile app later - The field with ‘*’ can’t be blank 	
Notes and Issues:	N/A	

Sequence Diagram

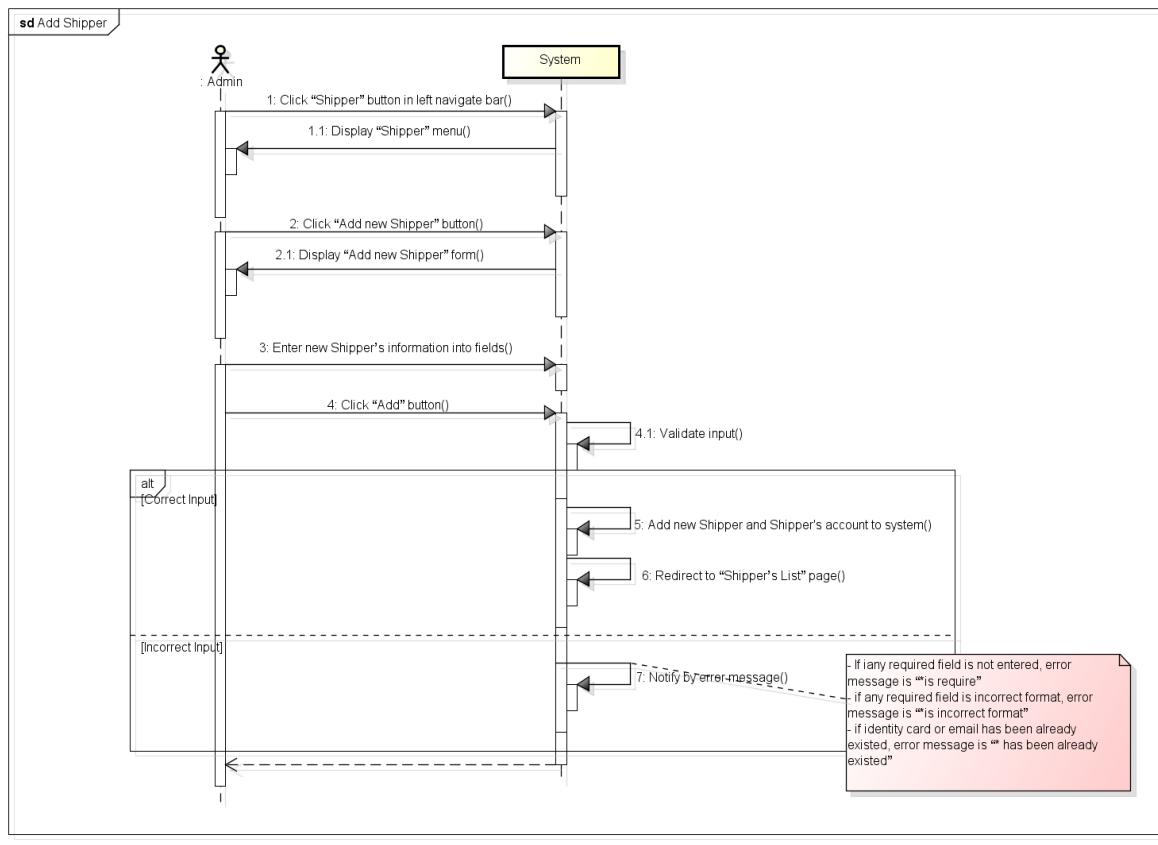


Figure 11: Sequence Diagram for Add Shipper Use case

UC- 114: View Shipper's list

The screenshot shows the "Shipper's List" page. The left sidebar includes a profile icon for "Admin" and navigation links for "Dashboard", "Order", "Store", "Shipper" (which is currently selected), "Add New Shipper", "Shipper's List" (which is highlighted in grey), "Assign Task", and "Logout". The main content area displays a table titled "Shipper's List" with columns: #, Full name, Address, and Date of Birth. The table contains the following data:

#	Full name	Address	Date of Birth
1	Nguyễn Văn A	Hoang Mai - Ha Noi	12-11-1992
2	Trần B	Cau Giay - Ha Noi	12-11-1993
3	Phạm C	Ha Dong - Ha Noi	11-08-1991
4			
5			
6			
7			

At the bottom right, there is a navigation bar with page numbers: < * 1 2 3 4 5 >.

Figure 11: Screen of View Shipper's List Use case

Use Case ID:	UC-114		
Use Case Name:	View Shipper's list		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin views all Shipper in a table with basic information (address, name, date of birth,...), so after that, Admin can choose a Shipper to update information		
Triggering Event:	Admin wants to view all Shipper		
Preconditions:	Admin logged in to system		
Post conditions:	List of shipper is displayed		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
5.	Admin	Clicks "Shipper" button in left navigate bar	
6.	System	Display "Shipper" menu in left navigate bar includes Add New Shipper, Shipper's List and Assign Task	
7.	Admin	Clicks "Shipper's list" button	
8.	System	Load Shipper's data and display "Shipper's List" screen includes: - Search textbox and button - Filter drop-downlist - All Shipper's basic information with Update icon buttons	
Alternative Flows:		N/A	
Exceptions:		N/A	
Includes:		N/A	
Special Requirements:		- The default Shipper's list is ordered by Name	
Notes and Issues:		N/A	

Sequence Diagram



Figure 11: Sequence Diagram for View Shipper List Use case

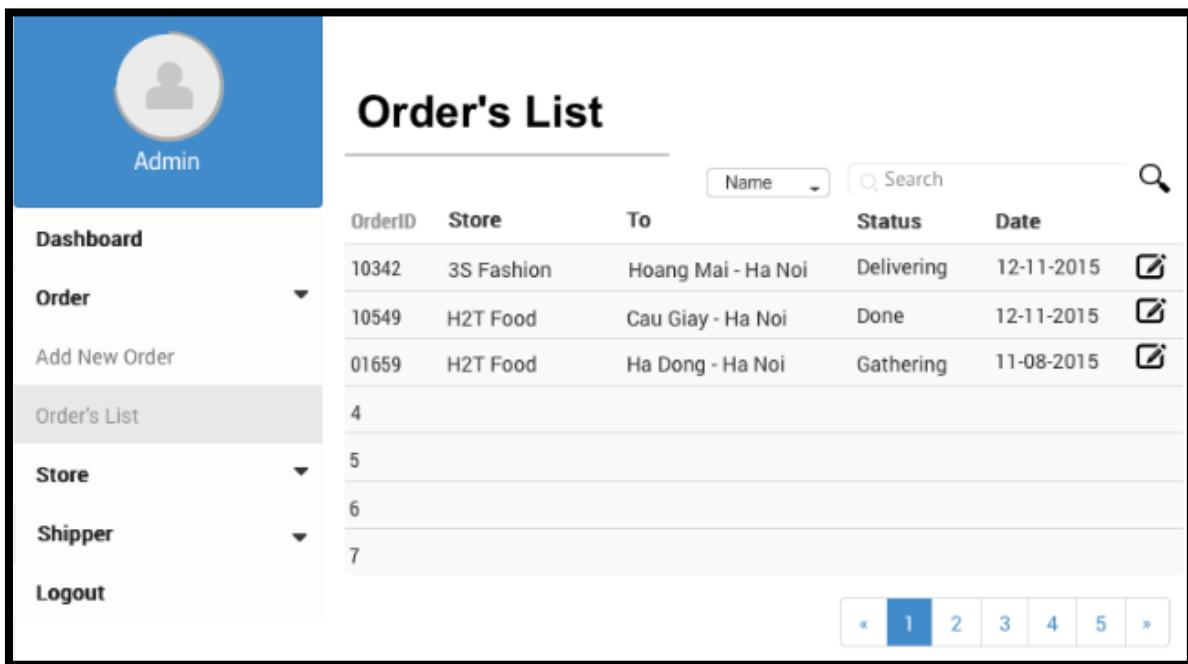
UC- 115: View Order's list

Figure 11: Screen of View Order's List Use case

Use Case ID:	UC-115		
Use Case Name:	View Order's list		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin views all Order in a table with basic information (orderID, store's name, recipient's address, status, date,...), so after that, Admin can choose an Order to update information		
Triggering Event:	Admin wants to view all Orders		
Preconditions:	Admin logged in to system		
Post conditions:	List of order is displayed		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks "Order" button in left navigate bar	
2.	System	Display "Order" menu in left navigate bar includes Add Add New Order, Order's List	
3.	Admin	Clicks "Order's list" button	
4.	System	Load Order's data and display "Order's List" screen includes <ul style="list-style-type: none"> - Search textbox and button - Filter drop-downlist 	

		- All Order's basic information with Update icon buttons
Alternative Flows:	N/A	
Exceptions:	N/A	
Includes:	N/A	
Special Requirements:	- The default Order's list is ordered by Date	
Notes and Issues:	N/A	

Sequence Diagram

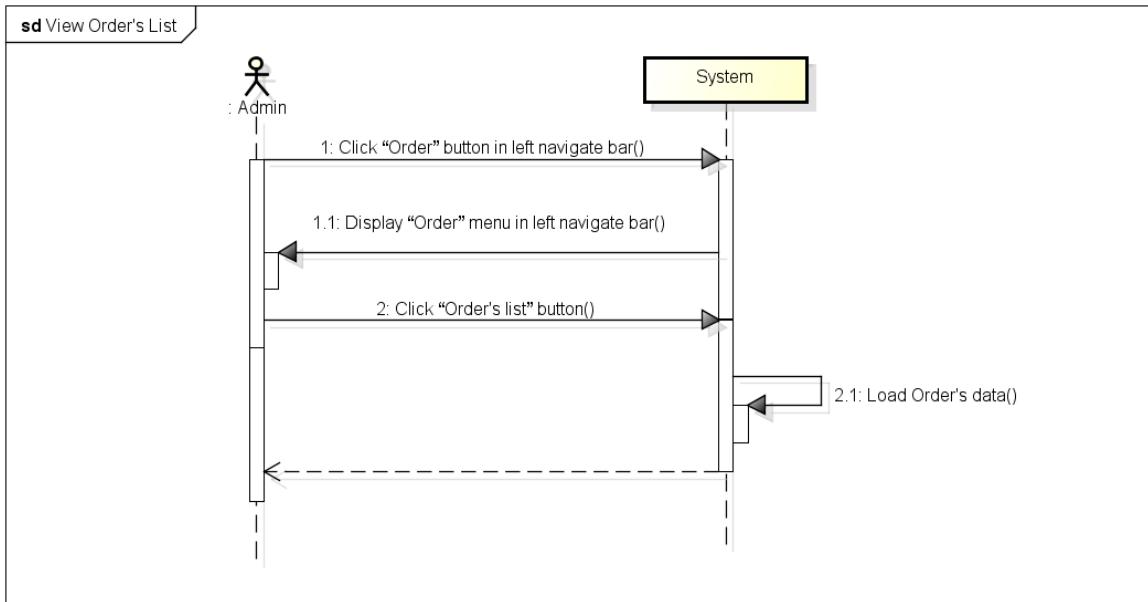


Figure 11: Sequence Diagram for View Order's List Use case

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UC- 117: Search Shipper

#	Full name	Address	Date of Birth
1	Nguyễn Văn A	Hoang Mai - Ha Noi	12-11-1992
2	Trần B	Cau Giay - Ha Noi	12-11-1993
3	Phạm C	Ha Dong - Ha Noi	11-08-1991
4			
5			
6			
7			

Figure 11: Screen of Search Shipper Use case

Use Case ID:	UC-116		
Use Case Name:	Search Shipper		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin wants the system to list all Shipper related to a specific keyword and type, after that, Admin can choose a Shipper to update information		
Triggering Event:	Admin wants to search Shipper		
Preconditions:	Admin is in view shipper's list page (refer case UC-114)		
Post conditions:	Display Shipper as result of search		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Admin	Choose type of Shipper: Name, Address or ID	
2.	Admin	Enter text to "Search" text box	
3.	Admin	Clicks "Search" button or press "Enter"	
4.	System	Get Shipper's data and display result on screen includes: - Search textbox and button - Filter drop-downlist - Related Shipper's basic information with Update icon button	

Alternative Flows:		N/A
Exceptions:		N/A
EC1	At step 3, Admin doesn't choose any type	
Step	Actor	Action
3.1	System	Set Name is default type
Includes:		N/A
Special Requirements:		<ul style="list-style-type: none"> - Result of search is case insensitive - Types of search are Name, Address and ID
Notes and Issues:		N/A

Sequence Diagram

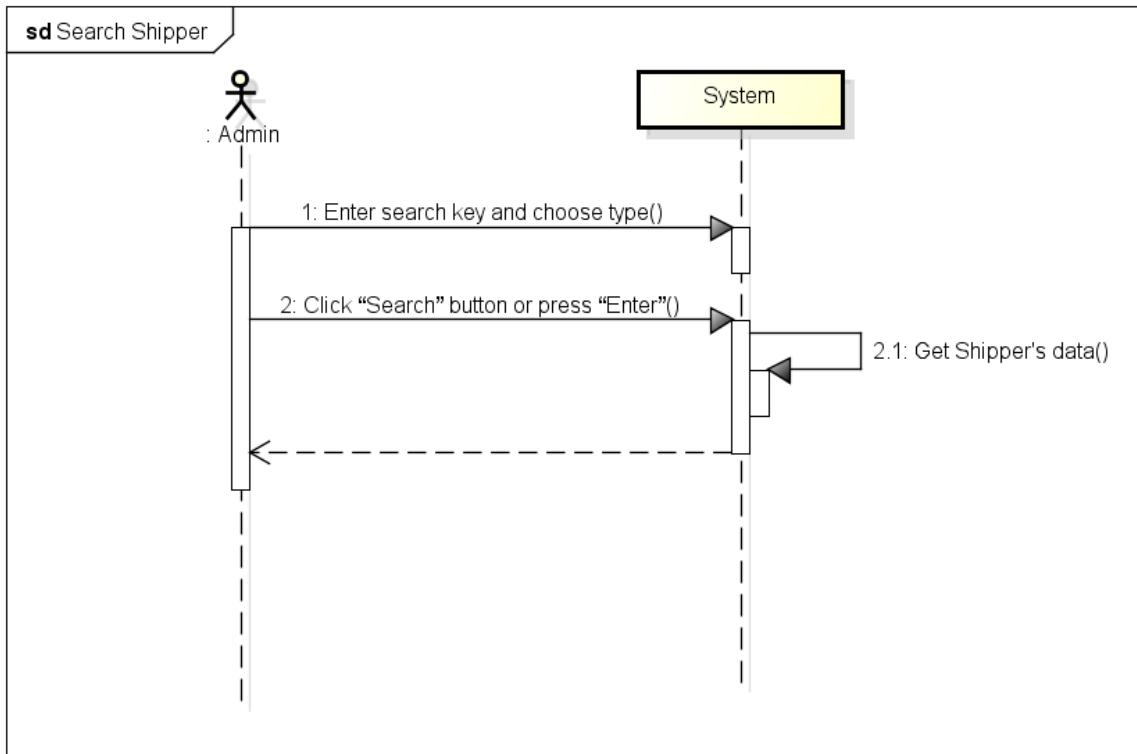


Figure 11: Sequence Diagram for Search Shipper Use case

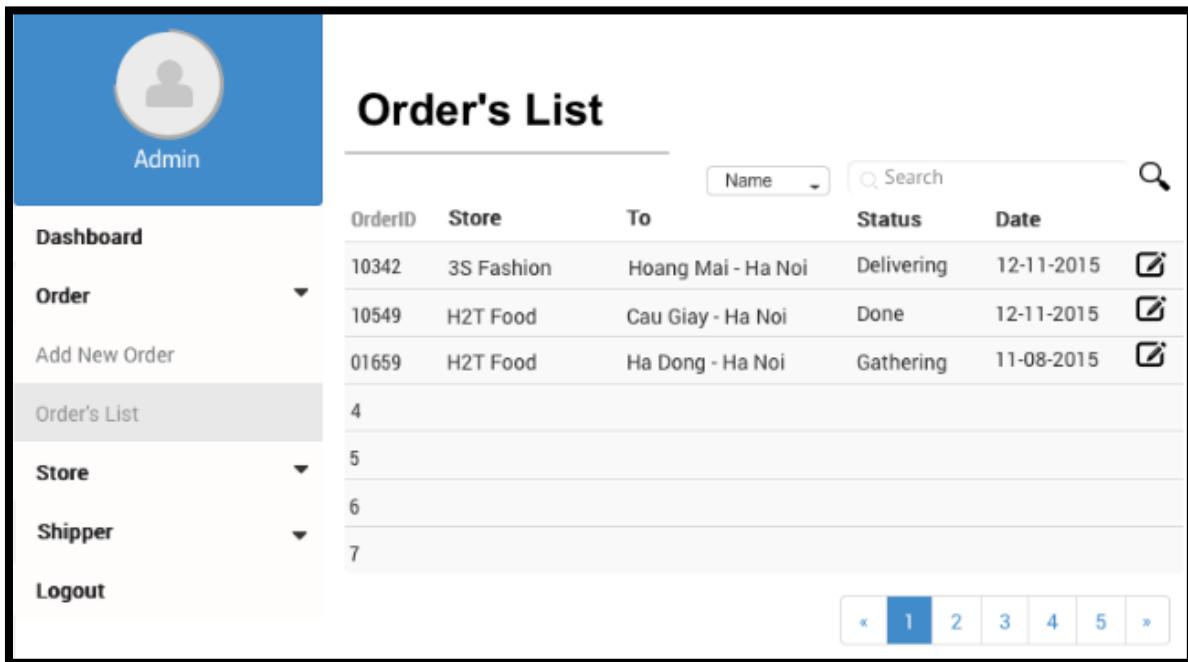
UC- 117: Search Order

Figure 11: Screen of Search Order Use case

Use Case ID:	UC-117		
Use Case Name:	Search Order		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin wants the system to list all Order related to a specific keyword and type, after that, Admin can choose an Order to update information		
Triggering Event:	Admin wants to search Order		
Preconditions:	Admin is in view order's list page (refer case UC-115)		
Post conditions:	Display Order as result of search		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Admin	Choose type of Order: Type, Address, Date, Store's name or Shipper's name	
2.	Admin	Enter text to "Order" text box	
3.	Admin	Clicks "Order" button or press "Enter"	
4.	System	Get Shipper's data and display result on screen includes <ul style="list-style-type: none"> - Search textbox and button - Filter drop-downlist - Related Order's basic information with Update icon button 	

Alternative Flows:		N/A
Exceptions:		N/A
EC1	At step 3, Admin doesn't choose any type	
Step	Actor	Action
3.1	System	Set All is default type
Includes:		N/A
Special Requirements:		<ul style="list-style-type: none"> - Result of search is case insensitive - Types of search are Name, Address and ID
Notes and Issues:		N/A

Sequence Diagram

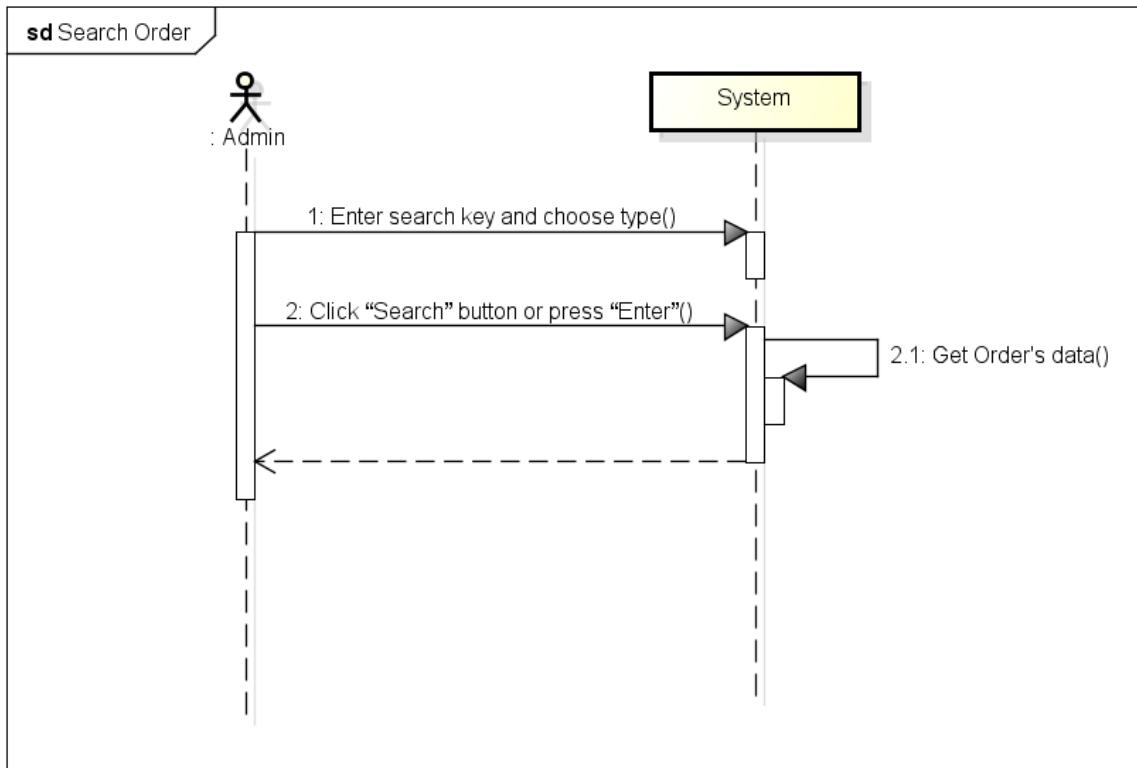


Figure 11: Sequence Diagram for Search Order Use case

UC- 118: View Shipper's profile

Profile Details:

- Name: Nguyen Van A
- Date of birth: 12-11-1993
- Email: 3sfashion@gmail.com
- Address: D413 - FPT University - Thach That - Ha Noi
- ShipperID: SP1234
- Identity card: 013040324
- Phone number: 0987654321

Shipping History:

#	Date	Store's name	OrderID	Type
1	20-09-2013	3SFashion	09473	Clothes
2	19-09-2013	KKC Food	04281	Food
3				
4				
5				
6				
7				

Main Navigation:

- Dashboard
- Order
- Store
- Shipper
- Add Shipper
- Shipper's List
- Assign Task
- Logout

Use Case ID:	UC-118	
Use Case Name:	View Shipper's profile	
Created By:	HoangNK	Last Updated By: HoangNK
Date Created:	19/09/2015	Date Last updated: 24/09/2015
Actor:	Admin	
Description:	Admin views all Shipper's details (address, name, date of birth, phone number, email, address, shipping history...), so after that, Admin can update Shipper information	
Triggering Event:	Admin wants to view profile of a Shipper	
Preconditions:	Admin is in view shipper's list page (refer case UC-114)	
Post conditions:	Profile of Shipper is displayed	
Priority:	Normal	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Admin	Clicks Shipper's name in row (hyperlink)

2.	System	Load data of selected Shipper and display “View Shipper’s profile” screen includes information of address, name, date of birth, phone number, email, address, shipping history... and Update button
Alternative Flows:		N/A
Exceptions:		N/A
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram

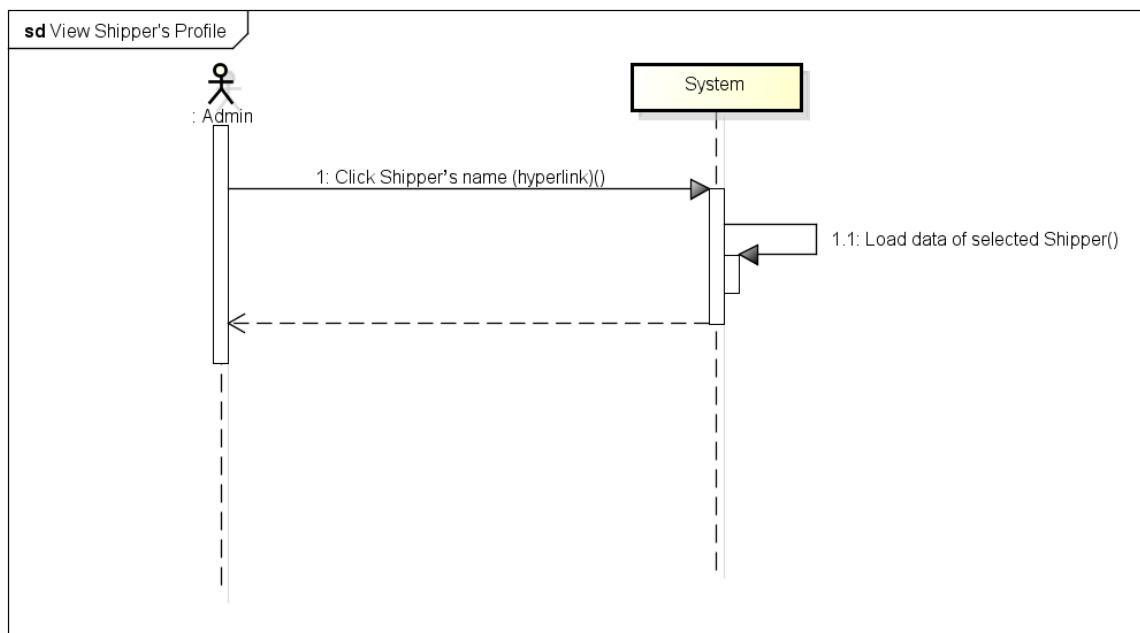
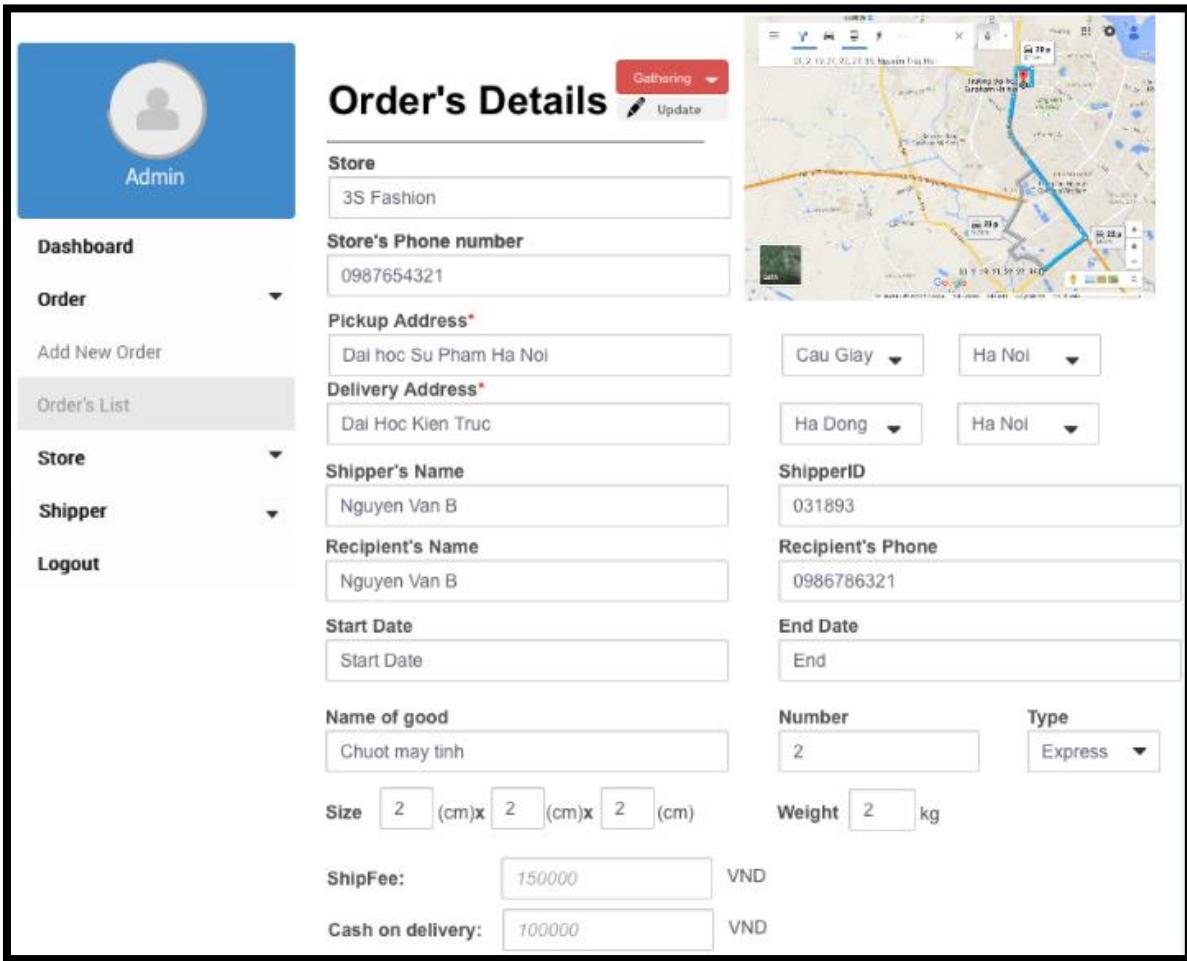


Figure 11: Sequence Diagram of View Shipper’s Profile Use case

UC- 119: View Order's details


The screenshot shows the 'Order's Details' page. On the left, there is a sidebar with a user icon labeled 'Admin' and navigation links for 'Dashboard', 'Order' (selected), 'Add New Order', 'Order's List' (highlighted in grey), 'Store', 'Shipper', and 'Logout'. The main area has several input fields: 'Store' (3S Fashion), 'Store's Phone number' (0987654321), 'Pickup Address*' (Dai hoc Su Pham Ha Noi), 'Delivery Address*' (Dai Hoc Kien Truc), 'Shipper's Name' (Nguyen Van B), 'Recipient's Name' (Nguyen Van B), 'Start Date' (Start Date), 'Name of good' (Chuot may tinh), 'Number' (2), 'Type' (Express), 'Size' (2 (cm)x 2 (cm)x 2 (cm)), 'Weight' (2 kg), 'ShipFee:' (150000 VND), and 'Cash on delivery:' (100000 VND). A map is visible in the top right corner.

Use Case ID:	UC-119		
Use Case Name:	View Order's details		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin views all Order's details (status of the order , store's name, pickup and delivery address and date, shipper's name, recipient's name, recipient's phone, goods, type of delivery, size, fee, cash on delivery, ...), so after that, Admin can update Shipper information		
Triggering Event:	Admin wants to view all information of the Order		
Preconditions:	Admin is in view shipper's list page (refer case UC-115)		
Post conditions:	Details of Order is displayed		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks Order's name in row (hyperlink)	

2.	System	Load data of selected Order and display to “View Order’s details” screen includes information of status of the order , store’s name, pickup and delivery address and date, shipper’s name, recipient’s name, recipient’s phone, goods, type of delivery, size, fee, cash on delivery, ...
Alternative Flows:		N/A
Exceptions:		N/A
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram

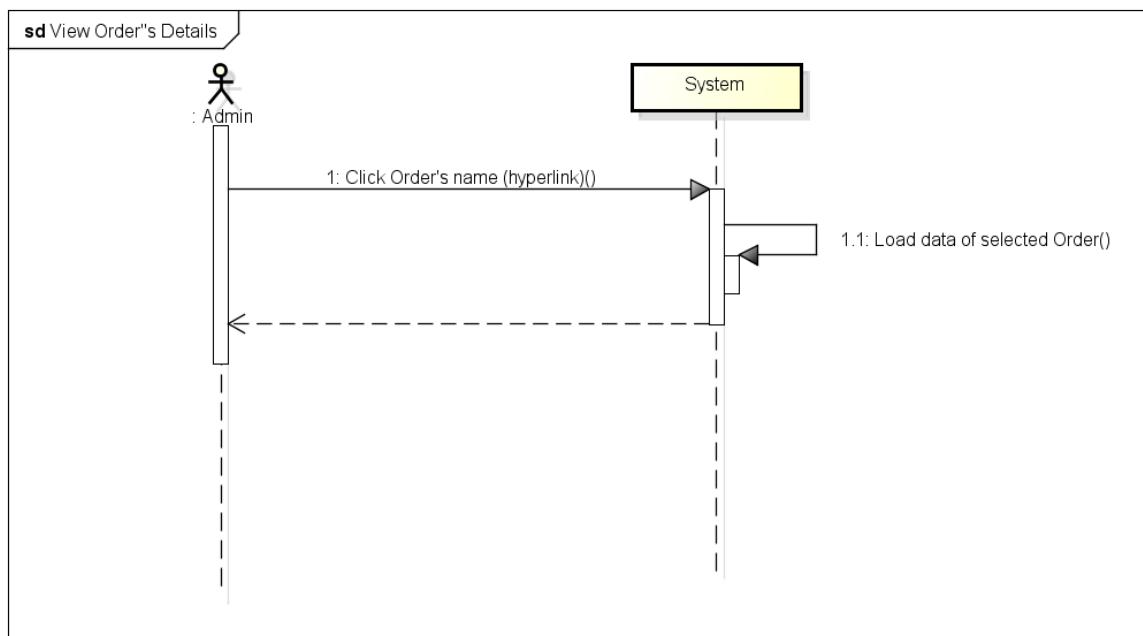


Figure 11: Sequence Diagram for View Order Details Use case

UC- 120: Update Shipper

Admin

Nguyen Van A
12-11-1993
FPT University - D413

Dashboard

Order

Store

Shipper

Add New Shipper

Shipper's List

Assign Task

Logout

Name: Nguyen Van A

Date of birth: 12-11-1993

Identity card: 013040324

Email: @ 3sfashion@gmail.com

Phone number: 0987654321

Address: D413 - FPT University - Thach That - Ha Noi

Update

Use Case ID:	UC-120	
Use Case Name:	Update Shipper	
Created By:	HoangNK	Last Updated By: HoangNK
Date Created:	19/09/2015	Date Last updated: 19/09/2015
Actor:	Admin	
Description:	Admin modifies an existed Shipper with related information about name, date of birth, identity card, email, phone number, address,..	
Triggering Event:	Admin wants to update Shipper's information	
Preconditions:	Admin is in view shipper's list page (refer case UC-114)	
Post conditions:	Information of Shipper is updated in database	
Priority:	Normal	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Admin	Clicks icon “Update” button
2.	System	Get data of selected Shipper and display “Update Shipper” screen includes textbox of information about name, date of birth, identity card, email, phone number, address,..
3.	Admin	Enter new information to fields then clicks “Update” button
4.	System	Validate input
5.	System	Update Shipper's new information to database then redirects to Shipper's profile page
Alternative Flows:		
AT1	At step 1, if admin clicks “View Shipper's profile”	

Step	Actor	Action
1	Admin	Clicks Shipper's name in row (hyperlink)
2	System	Display "View Shipper's profile" screen
3	Admin	Clicks "Update" button below avatar
4	System	Go to step 6 of main flow and continue
Exceptions:		
EC1	At step 4, if any required field is not entered	
Step	Actor	Action
4.1	System	Notify by error message in screen "* is required"
EC2	At step 4, if any entered field is incorrect format	
Step	Actor	Action
4.1	System	Notify by error message in screen "* is incorrect format"
Includes: N/A		
Special Requirements: - The field with '*' can't be blank		
Notes and Issues: N/A		

Sequence Diagram

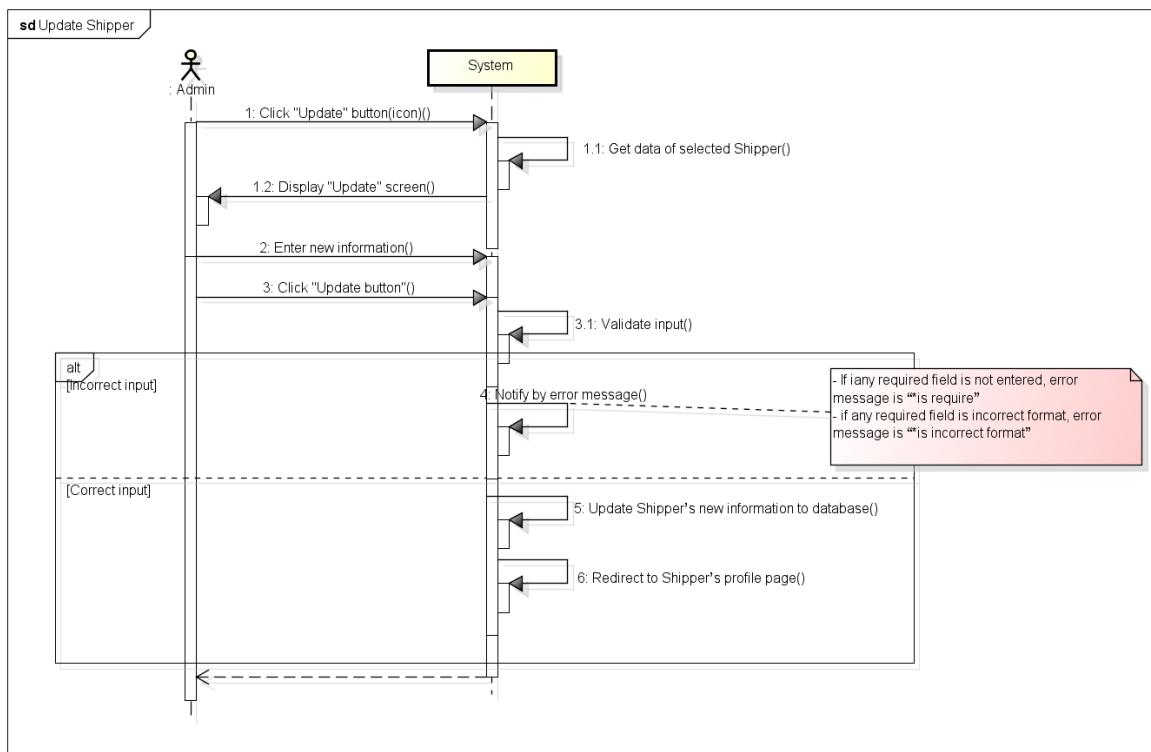


Figure 11: Sequence Diagram for Update Shipper Use case

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UC- 121: Update Order

Update Order

Store: 3S Fashion

Store's Phone number: 0987654321

Pickup Address*: Dai hoc Su Pham Ha Noi

Delivery Address*: Dai Hoc Kien Truc

Shipper's Name: Nguyen Van B

Recipient's Name: Nguyen Van B

Start Date: Start Date

Name of good: Chuot may tinh

Number: 2

Type: Express

Size: 2 (cm) x 2 (cm) x 2 (cm)

Weight: 2 kg

ShipFee: 150000 VND

Cash on delivery: 100000 VND

Update

Use Case ID:	UC-121		
Use Case Name:	Update Order		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin modifies an existed Order with related information about status of the order, store's name, pickup and delivery address and date, shipper's name, recipient's name, recipient's phone, goods, type of delivery, size, fee, cash on delivery, ...		
Triggering Event:	Admin wants to update Order's information		
Preconditions:	Admin is in view shipper's list page (refer case UC-115)		
Post conditions:	Information of Order is updated		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks "Update" button	
2.	System	Get data of selected Order and display "Update Order"	

		screen includes textbox of status of the order, store's name, pickup and delivery address and date, shipper's name, recipient's name, recipient's phone, goods, type of delivery, size, fee, cash on delivery, ... and Update button
3.	Admin	Enter new information to fields then clicks "Update" button
4.	System	Validate input
5.	System	Update Order's new information to database then redirects to Order's details page
Alternative Flows:		
AT1	At step 1, if admin clicks "View Order's details"	
Step	Actor	Action
1	Admin	Clicks Order's name in row (hyperlink)
2	System	Display "View Order's details" screen
3	Admin	Clicks "Update" button below avatar
4	System	Go to step 6 of main flow and continue
Exceptions:		
EC1	At step 4, if any required field is not entered	
Step	Actor	Action
4.1	System	Notify by error message "* is required" in screen
EC2	At step 4, if any entered field is incorrect format	
Step	Actor	Action
4.1	System	Notify by error message "* is incorrect format" in screen
Includes:		N/A
Special Requirements:		- The field with '*' can't be blank
Notes and Issues:		N/A

Sequence Diagram

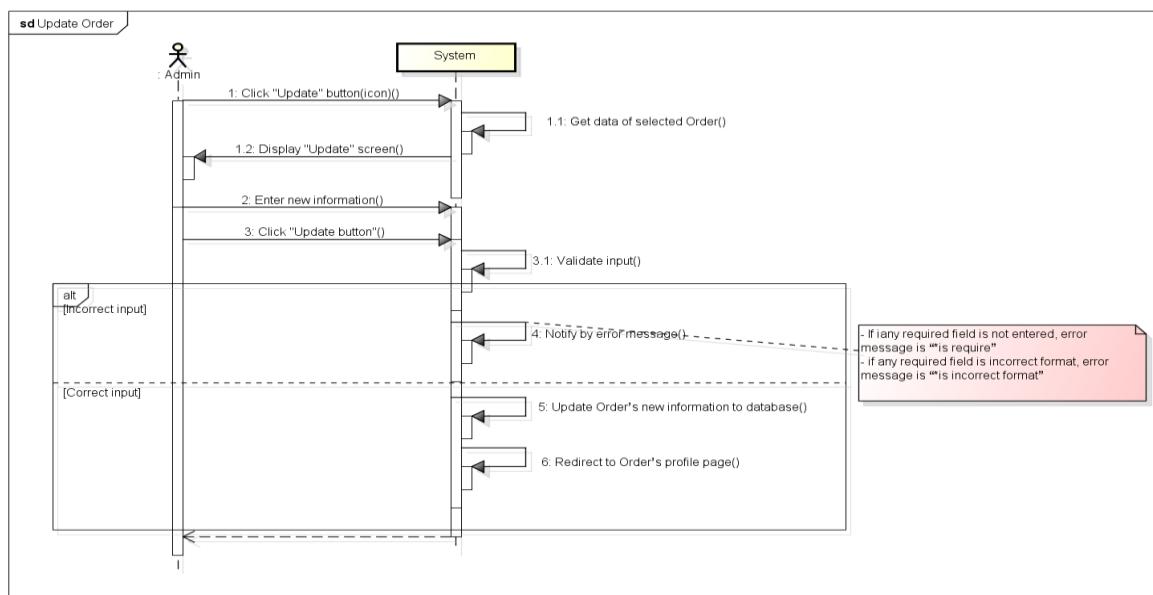


Figure 11: Sequence Diagram for Update Order Use case

UC- 122: Add new Order

Add new Order

Store*
Store's name
Store's Phone number

Pickup Address*
Address
District ▾ City ▾

Delivery Address*
Address
District ▾ City ▾

Recipient's Name
Recipient's phone

Start Date
End Date

Name of good*
Things
Number
Type Express

Size* L (cm) x W (cm) x H (cm)
Weight kg

ShipFee: Shipping Cost VND
Cash on delivery: Receive money VND

Add

Use Case ID:	UC-122	
Use Case Name:	Add Order	
Created By:	HoangNK	Last Updated By: HoangNK
Date Created:	19/09/2015	Date Last updated: 19/09/2015
Actor:	Admin	
Description:	Admin creates a new Order for Store with related information	
Triggering Event:	Admin wants to add a new Order to system	
Preconditions:	Admin logged in to system	
Post conditions:	New Order is added to database	
Priority:	Low	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Admin	Clicks "Order" button in left navigate bar
2.	System	Display "Order" menu includes Add New Order, Order's List
3.	Admin	Clicks "Add new Order" button
4.	System	Display "Add new Order" form includes textbox of store's name, pickup and delivery address and date, shipper's

		name, recipient's name, recipient's phone, goods, type of delivery, size, fee, cash on delivery, ... and Add button
5.	Admin	Enter new Order's information into fields
6.	Admin	Clicks "Add" button to add new Order
7.	System	Validate input
8.	System	Add new Shipper to database then redirects to "Shipper's List" page
Alternative Flows:		N/A
Exceptions:		
EC1	At step 7, if any required field is not entered	
Step	Actor	Action
7.1	System	Notify in screen by error message "*is require"
EC2	At step 8, if any entered field is incorrect format	
Step	Actor	Action
7.2	System	Notify in screen by error message "* is incorrect format"
Includes:		N/A
Special Requirements:		<ul style="list-style-type: none"> - When Admin enters existed Store's name, store's address and phone will be generated automatically - The field with '*' can't be blank
Notes and Issues:		N/A

Sequence Diagram

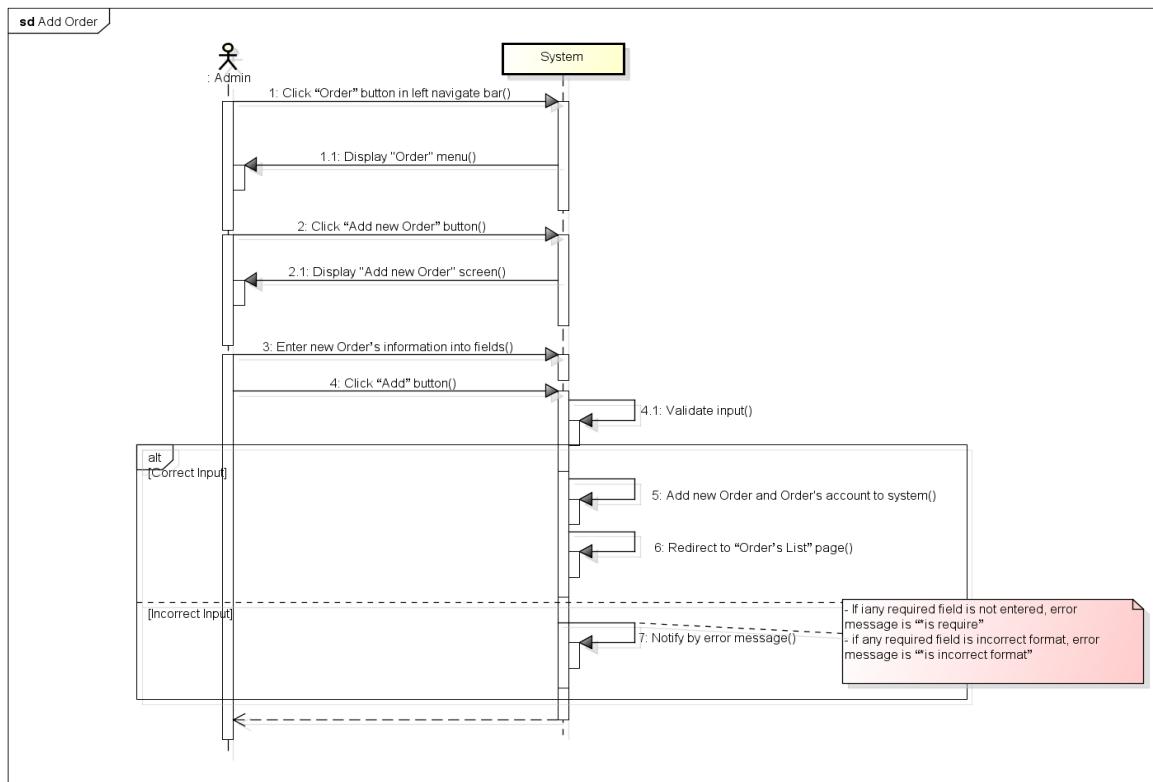


Figure 11: Sequence Diagram for Add Order Use case

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UC- 123: Export Bill

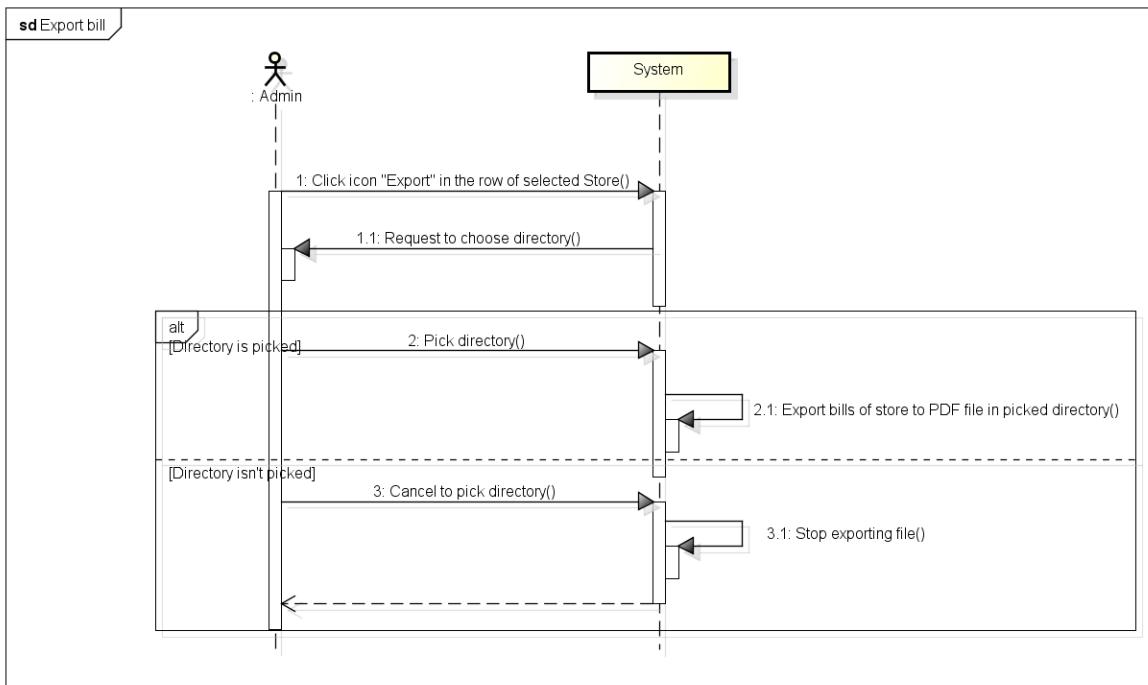
#	Store's name	Adress	Payment				
1	3S Fashion	Hoang Mai - Ha Noi	10000VND	<input checked="" type="checkbox"/>			
2	H2T Food	Cau Giay - Ha Noi	150000VND	<input checked="" type="checkbox"/>			
3	KKC Book Store	Ha Dong - Ha Noi	30000VND	<input checked="" type="checkbox"/>			
4							
5							
6							
7							

Name

Use Case ID:	UC-123		
Use Case Name:	Export Bill		
Created By:	HoangNK	Last Updated By:	HoangNK
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Admin		
Description:	Admin chooses store to export to pdf file to print or send to Store, the content of pdf file contains transaction history of this Store so it can show to store how much money that store needs to pay		
Triggering Event:	Admin wants to export bills to pdf file		
Preconditions:	Admin is in view store's list page (refer case UC-107)		
Post conditions:	An PDF file is exported		
Priority:	Medium		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Admin	Clicks icon “Export” button	
2.	System	Show File Chooser dialog for Admin	
3.	Admin	Choose location (directory) for exported file	
4.	System	Export these orders to PDF file to location	
Alternative Flows:	N/A		
Exceptions:			
EC1	At step 3, if Admin doesn't choose any folder		

Step	Actor	Action
3.1	System	Stop exporting file
	Includes:	N/A
	Special Requirements:	<ul style="list-style-type: none"> - Exported file must be in pdf format - System must display only directory for saving exported file
	Notes and Issues:	N/A

Sequence Diagram



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Figure 11: Sequence Diagram for Export bill Use case

UC- 124: Assign Task

Use Case ID:	UC-124	
Use Case Name:	Assign Task	
Created By:	HoangNK	Last Updated By: HoangNK
Date Created:	19/09/2015	Date Last updated: 19/09/2015
Actor:	Admin	
Description:	Admin assigns orders which hasn't been assign for any Shipper to available Shipper	
Triggering Event:	Admin wants to assign task for Shipper	
Preconditions:	Admin logged in to system	
Post conditions:	Task is assigned for Shipper	
Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
1.	Admin	Clicks "Shipper" button in left navigate bar
2.	System	Display "Shipper" menu in left navigate bar includes Add Shipper, Assign Task, Shipper's List
3.	Admin	Clicks "Assign Task" button
4.	System	Get data of Order and Shipper then display "Assign Task" screen includes: - 2 table of available Shipper and Order with basic information and a checkbox

		- Search textbox and Filter on each table
5.	Admin	Pick a Shipper in Shipper's list then pick Order for this Shipper in Order's list then clicks "Assign" button
6.	System	Hide picked orders from Order's list and update Shipper's information in database
Alternative Flows:		N/A
Exceptions:		
EC1	At step 5, if Admin doesn't pick any order	
Step	Actor	Action
5.1	System	Order isn't active to pick and "Assign" button isn't active to clicks
EC2	At step 5, if Admin checks a picked order	
Step	Actor	Action
5.2	System	Order is showed in order's list
Includes:		N/A
Special Requirements:		<ul style="list-style-type: none"> - Available Shippers are displayed in Shipper's list - Available Orders are displayed in Order's list
Notes and Issues:		N/A

Sequence Diagram

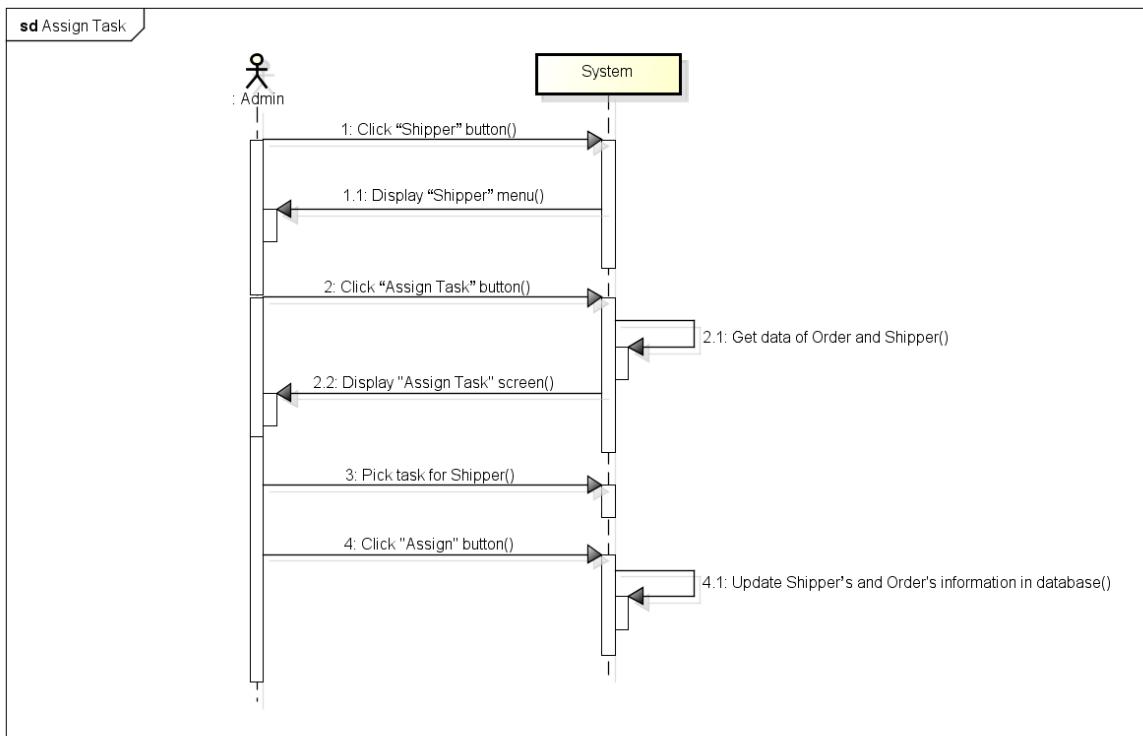
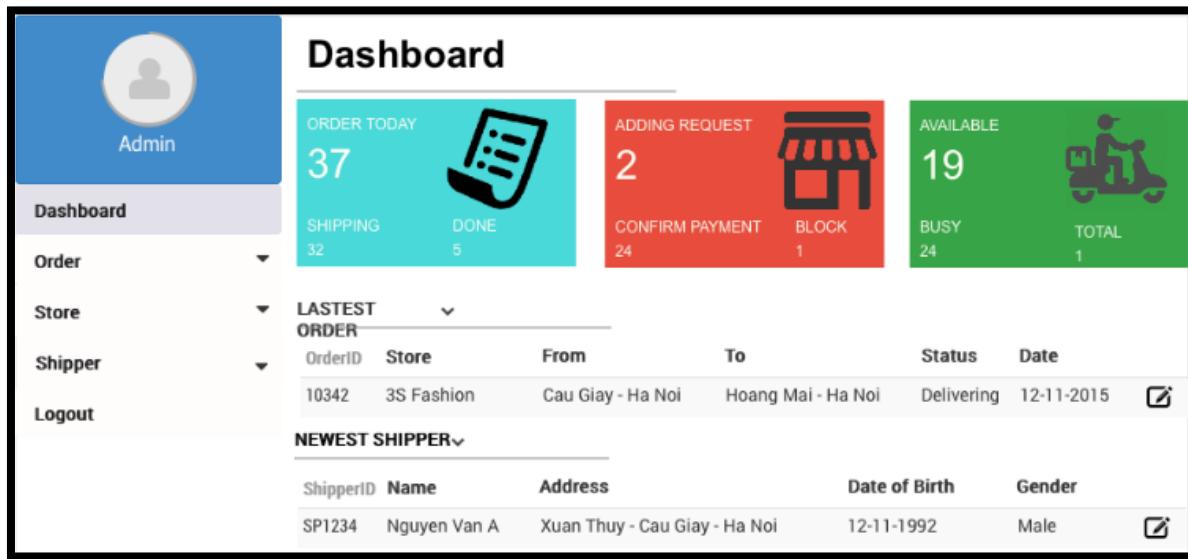


Figure 11: Sequence Diagram for Assign Task Use case

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UC- 125: View Dashboard

Use Case ID:	UC-125	
Use Case Name:	View dashboard	
Created By:	HoangNK	Last Updated By: HoangNK
Date Created:	19/09/2015	Date Last updated: 19/09/2015
Actor:	Admin	
Description:	A view of some statistics about order, shipper, store and other information (latest order, newest shipper,...) is displayed to Admin so Admin has a general view about order, store and shipper	
Triggering Event:	Admin wants to dashboard with the statistics	
Preconditions:	Admin logged in to system	
Post conditions:	Dashboard screen with statistics is displayed	
Priority:	Normal	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Admin	Clicks "Dashboard" button in left navigate bar
2.	System	Display "Dashboard" screen includes: - Statistics of order, shipper and store in box - Latest information about order, shipper in table
Alternative Flows:		N/A
Exceptions:		N/A
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

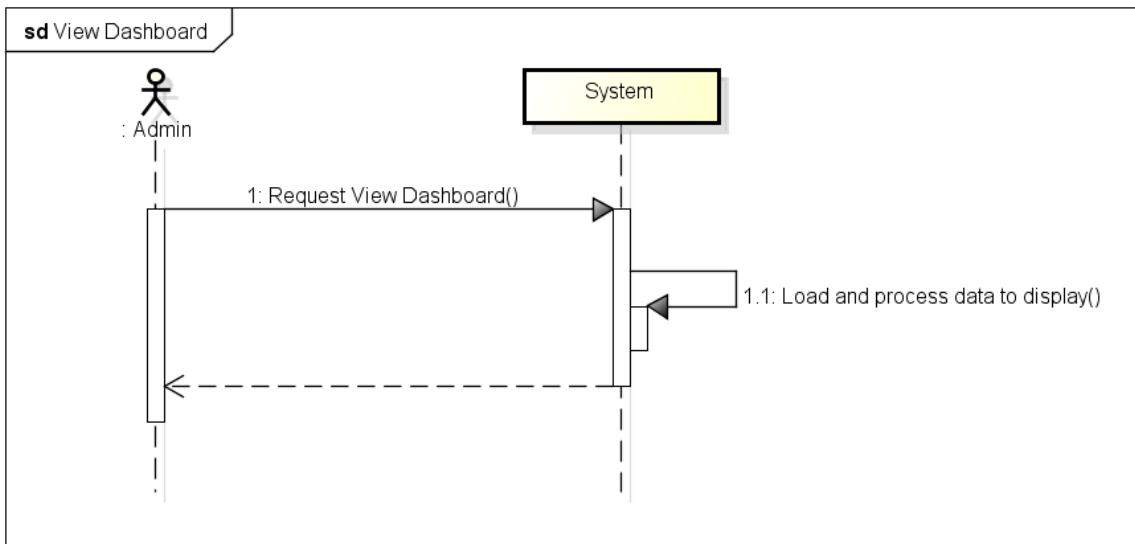
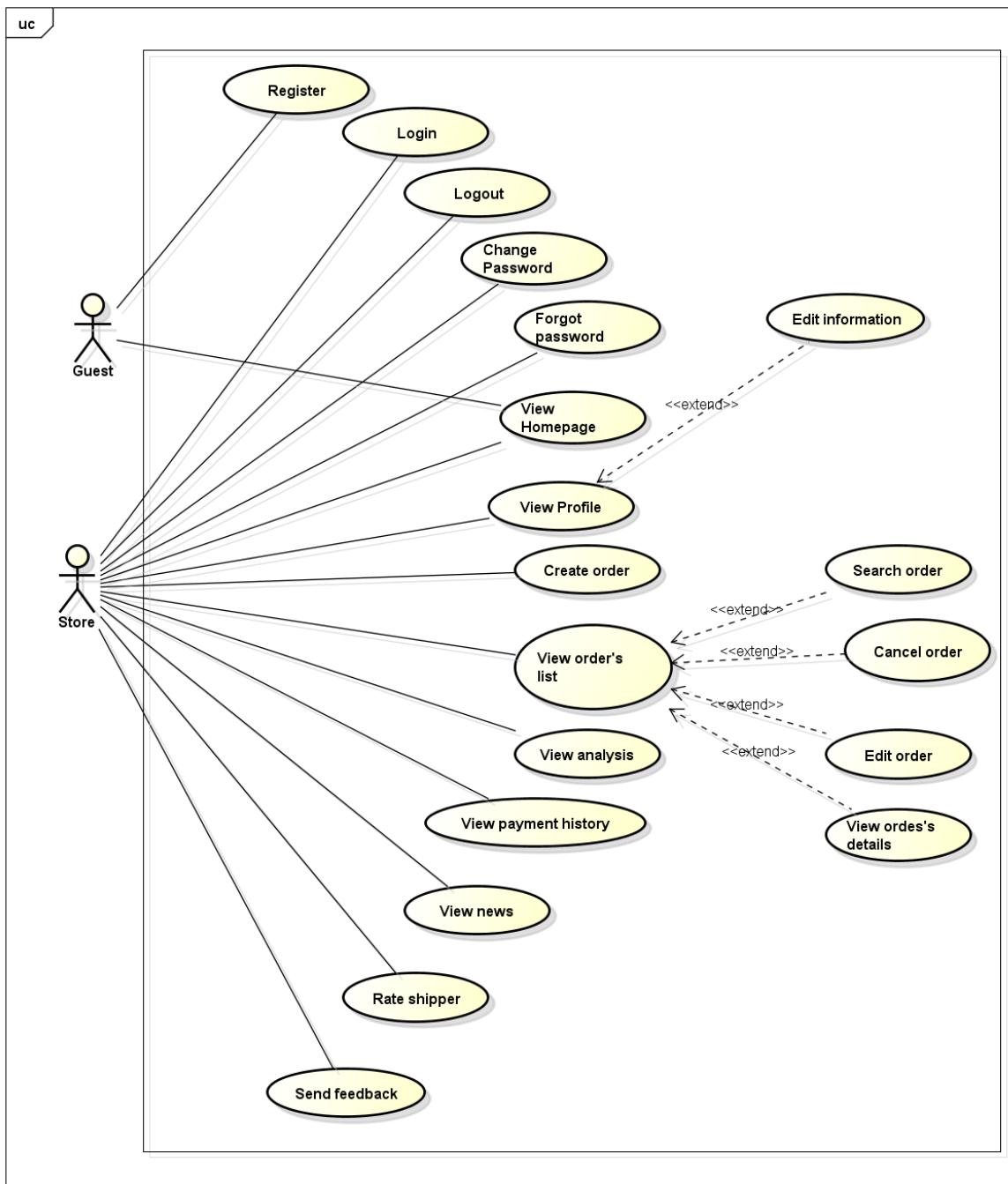
Sequence Diagram

Figure 11: Sequence Diagram for View Dashboard Use case

3.2. Web application for Store

3.2.1. User Case Diagram



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3.2.2. Function

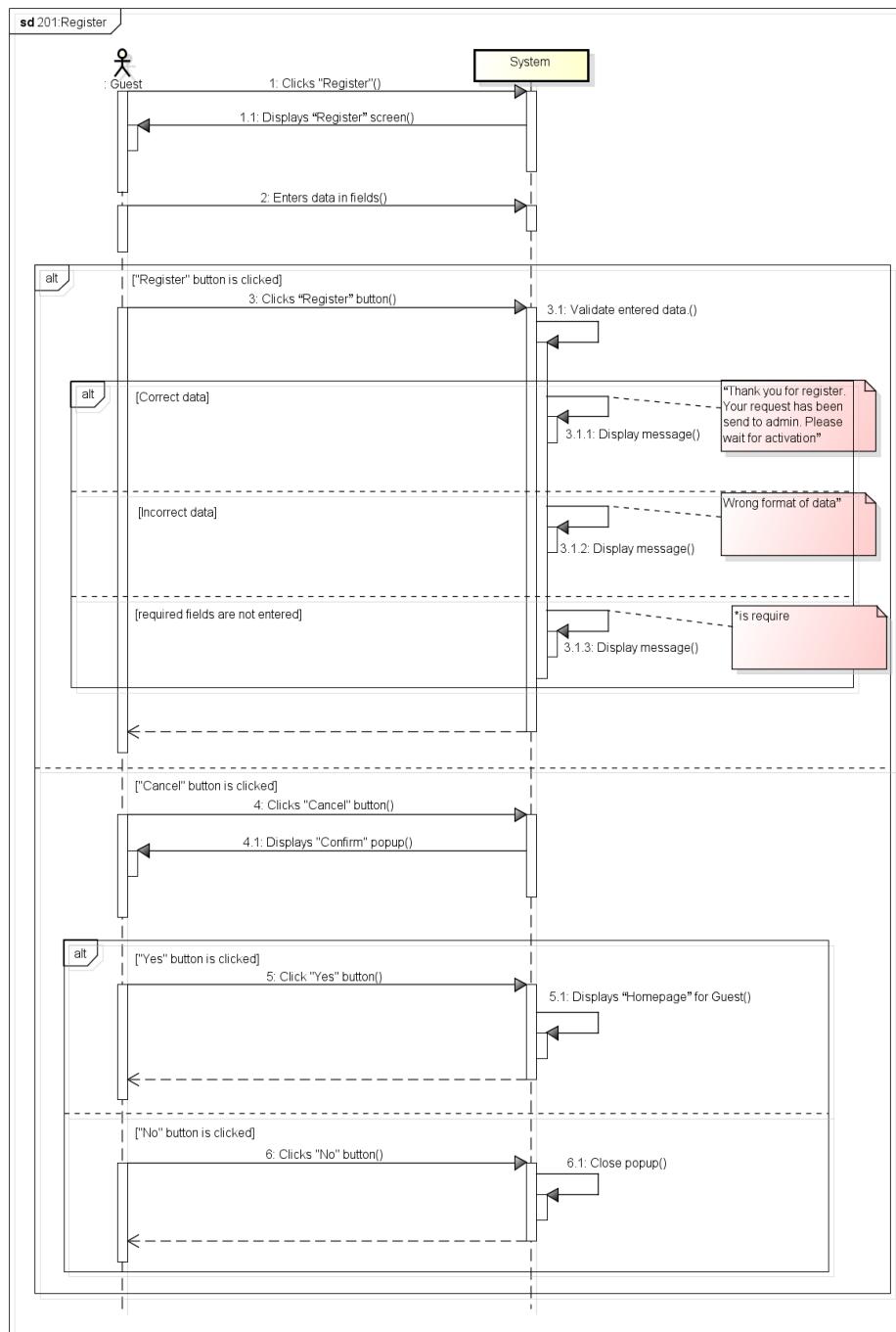
UC-201: Register

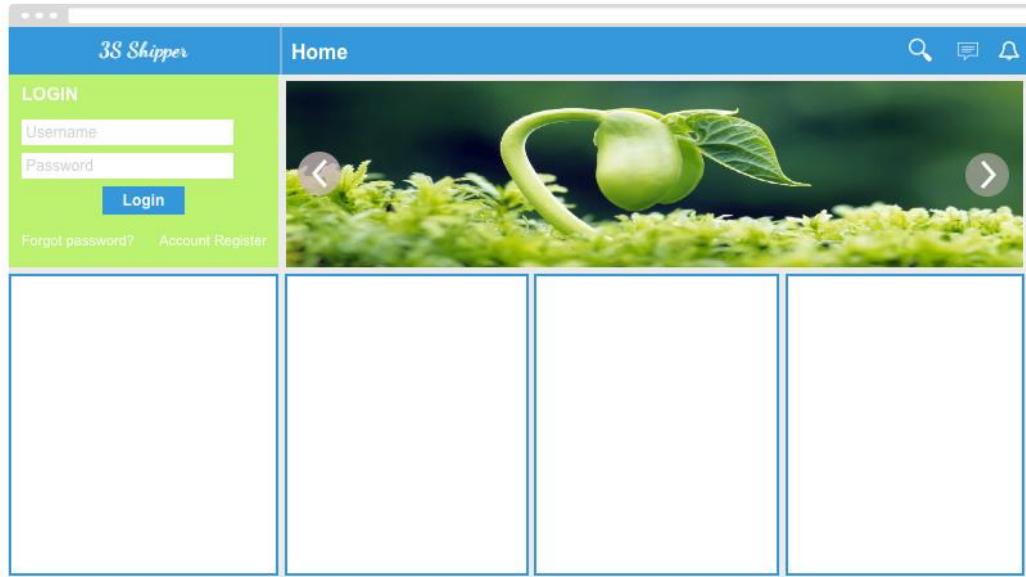
The screenshot shows a registration form titled "REGISTER NOW". It contains three input fields: "Fullname", "Email", and "Phone". Below these is a checkbox labeled "I agree with terms of 3S Shipper". At the bottom are two buttons: "Cancel" and "Next". The background of the page is light blue with the text "3S Shipper" at the bottom.

Use Case ID:	UC-201	
Use Case Name:	Register	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Guest	
Description:	Visitor can creates new account to use more function as a registered Store	
Triggering event:	Guest wants to register a new account.	
Preconditions:	Guest on 3S website	
Post conditions:	<ul style="list-style-type: none"> - Account's information have been saved to database - Confirm email have been send to Guest - 	
Priority:	Normal	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Guest	Clicks "Register"
2.	System	Displays "Register" screen includes: <ul style="list-style-type: none"> - Full name - Email text box - Phone number text box - Register button - Cancel button - "I agree with term of 3S Shipper" check box

		- Terms hyperlink.
3.	Guest	Enters data in fields
4.	Guest	Clicks “Register”
5.	System	Validate entered data.
6.	System	Sends confirm email to Guest
7.	System	Displays “Confirm Registered” message. “Thank you for register. Your request has been send to admin. Please wait for activation”
Alternative Flows:		N/A
Exceptions:		
EC1	Store Clicks “Cancel” button	
Step	Actor	Action
1.1	Store	Clicks “Cancel” button.
1.1	System	Displays “Confirm” popup
1.2	Store	Clicks “Yes” button
1.3	System	Displays “Homepage” for Guest
EC2	At step 1.2, Store Clicks on “No” button.	
Step	Actor	Action
1.2.1	Store	Clicks “No” button.
1.2.2	System	Closes popup.
EC3	At step 4, required fields are not entered	
Step	Actor	Action
4.1	Store	Clicks “Register” button
4.2	System	Displays error message on “Register” screen “*is require”
EC4	At step 5, entered data are wrong type of data	
Step	Actor	Action
4.1	Store	Clicks “Register” button
4.2	System	Displays error message at wrong fields: “Wrong format of data”
Includes:		N/A
Special Requirements:		<ul style="list-style-type: none"> - Username must not yet exist in database. - Length of Phone must between 8 and 11. - Email must be under the standard format.
Notes and Issues:		N/A

Sequence Diagram

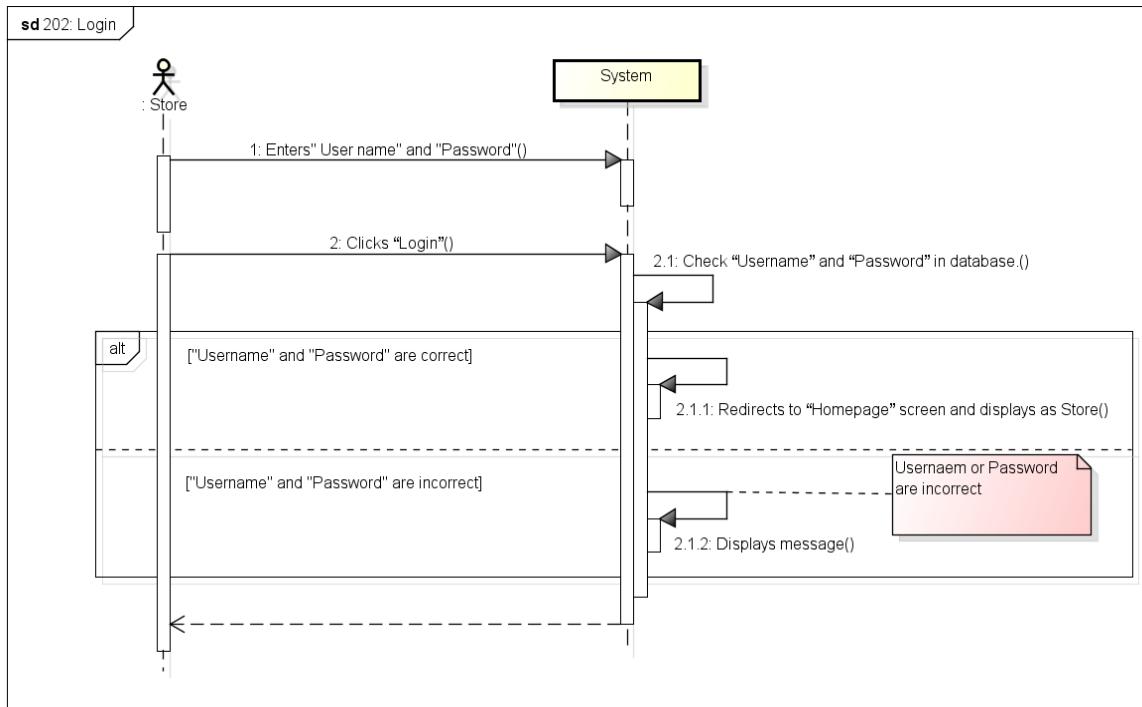


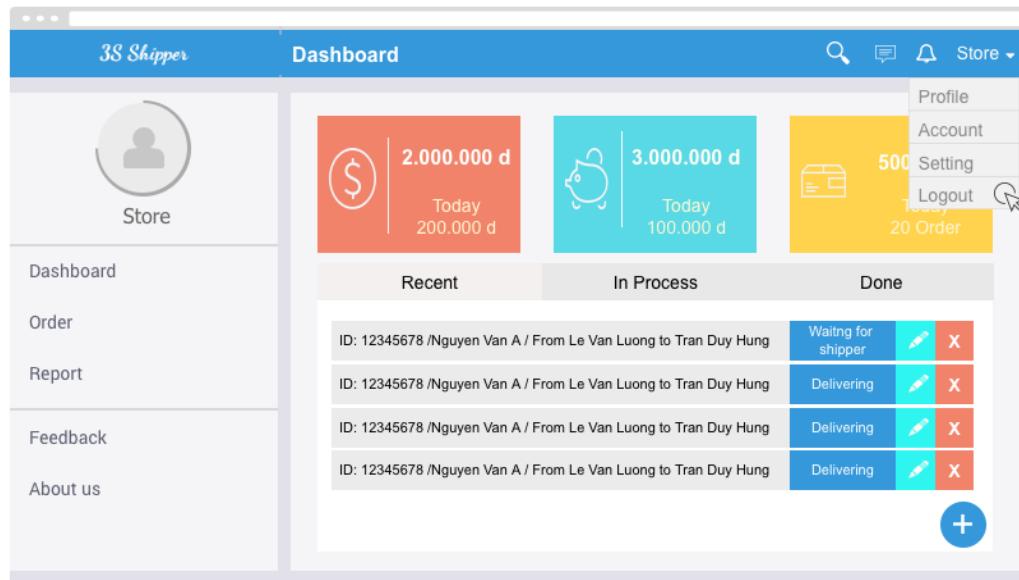
UC-202: Login

Use Case ID:	UC-202		
Use Case Name:	Login		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last Updated:	20/09/2015
Actor:	Store		
Description:	Users who are not logged in to system can only view the “Homepage”. Store needs to logins to system to use functions of system.		
Triggering event:	Store wants to login to system		
Preconditions:	Store is on the “Homepage” of 3S website Store account must be exists		
Post conditions:	Logs Store into system Redirects Store to “Homepage” screen (Refer to UC-218: View Homepage) and displays as Store		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
6.	Store	Enters User name and Password	
7.	Store	Clicks “Login”	
8.	System	Check “Username” and “Password” in database.	
9.	System	Logs Store into system	
10.	System	Redirects to “Homepage” screen and displays as Store	
Alternative:			

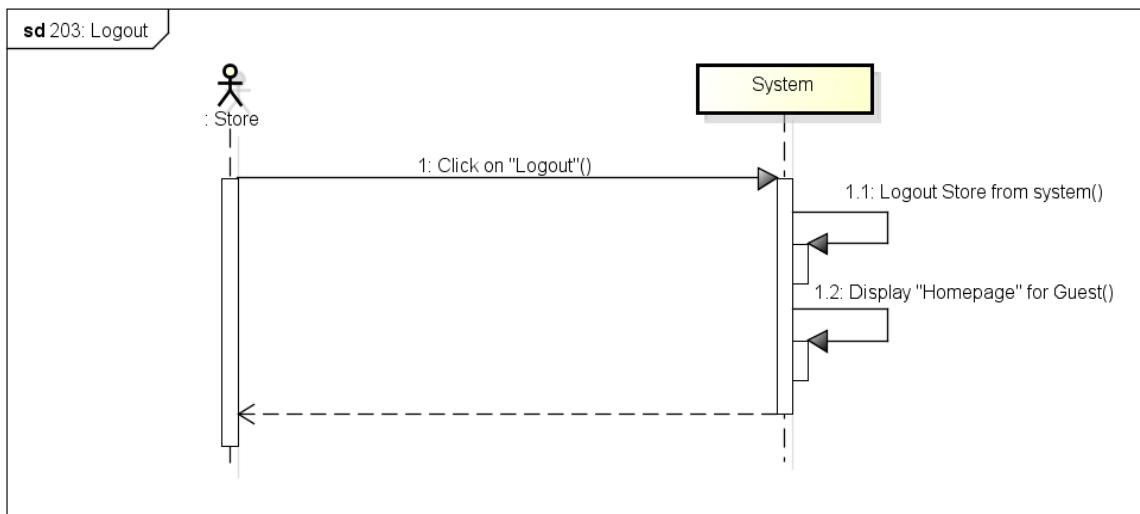
Exceptions:		
EC1	At step 3 in main flow, if Store entered wrong User name or Password	
Step	Actor	Action
3.1	System	Displays message "Username or Password is wrong"
Includes:		N/A
Special		N/A
Notes and Issues:		N/A

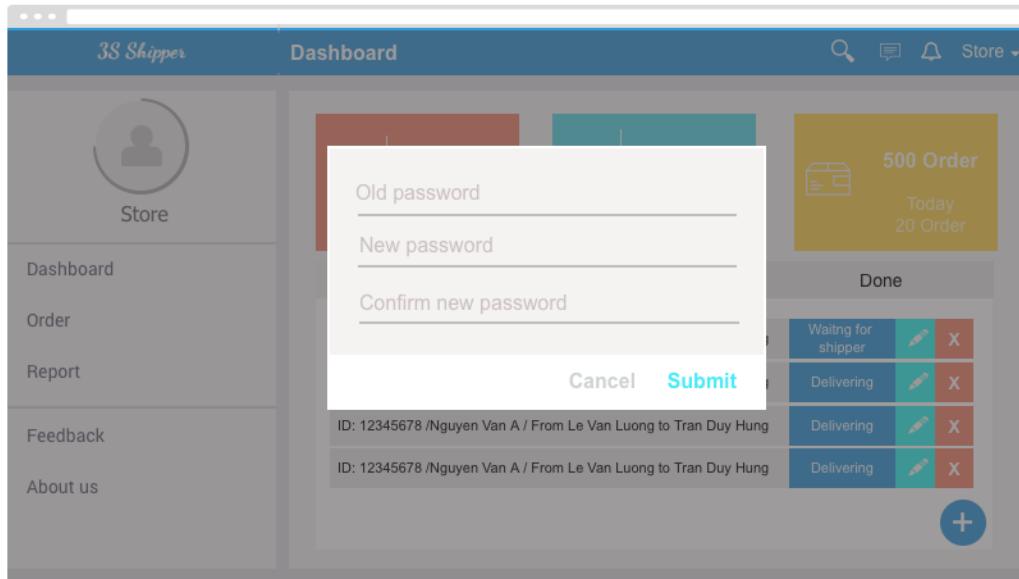
Sequence Diagram



UC-203: Logout

Use Case ID:	UC-203	
Use Case Name:	Logout	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Store	
Description:	When Store logsouts from system, Store will cannot continue using functions of system. Store needs to login again to be able to use the function of system.	
Triggering event:	Store wants to logout from system.	
Preconditions:	Store logged in to system	
Post conditions:	Logs Store out from system. Redirects Store to “Login” screen	
Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
4.	Store	Clicks Logout
5.	System	Logouts Store from system
6.	System	Displays Homepage for Guest
Alternative Flows:		
Exceptions:	N/A	
Includes:	N/A	
Special Requirements:	N/A	
Notes and Issues:	N/A	

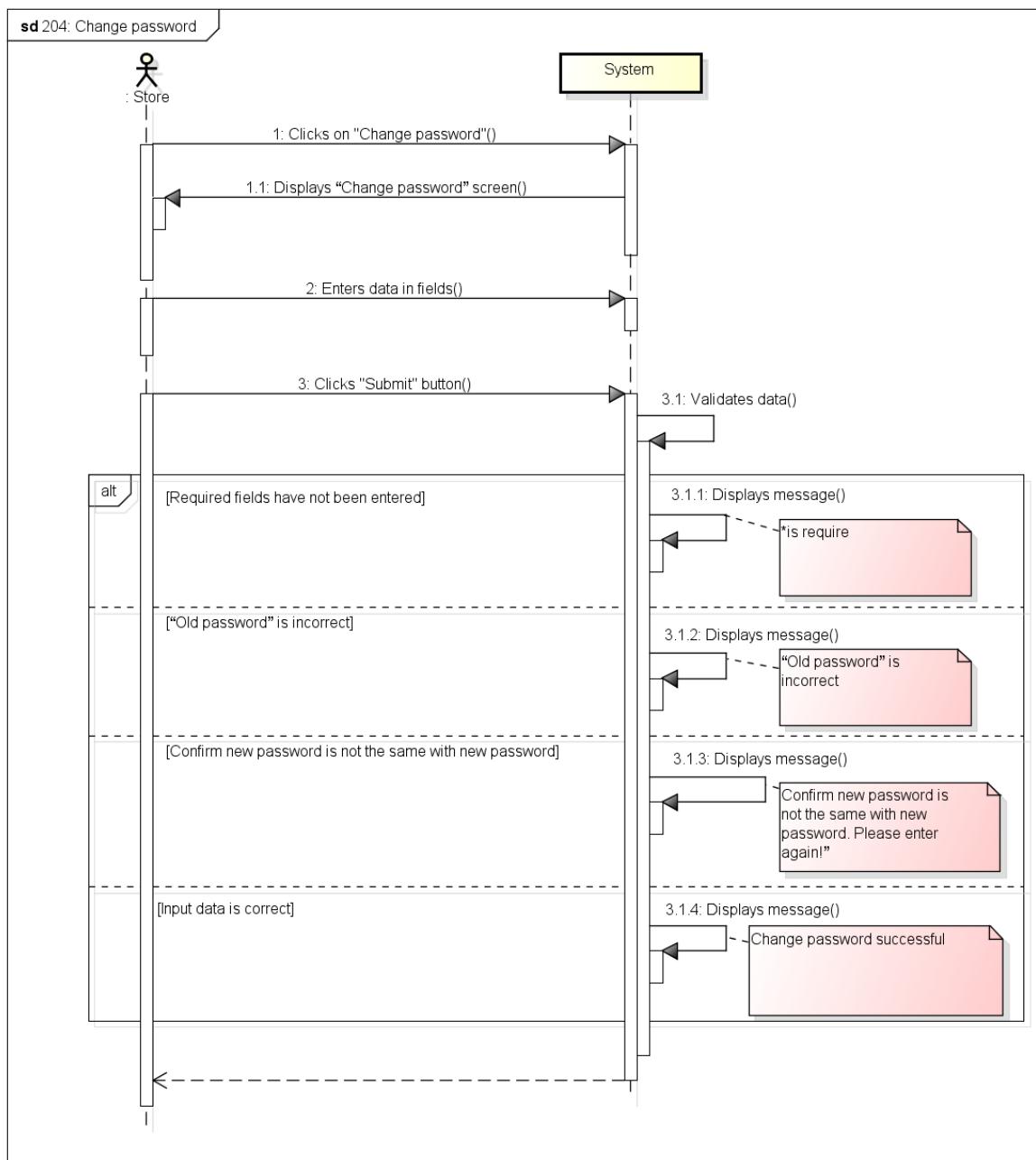
Sequence Diagram

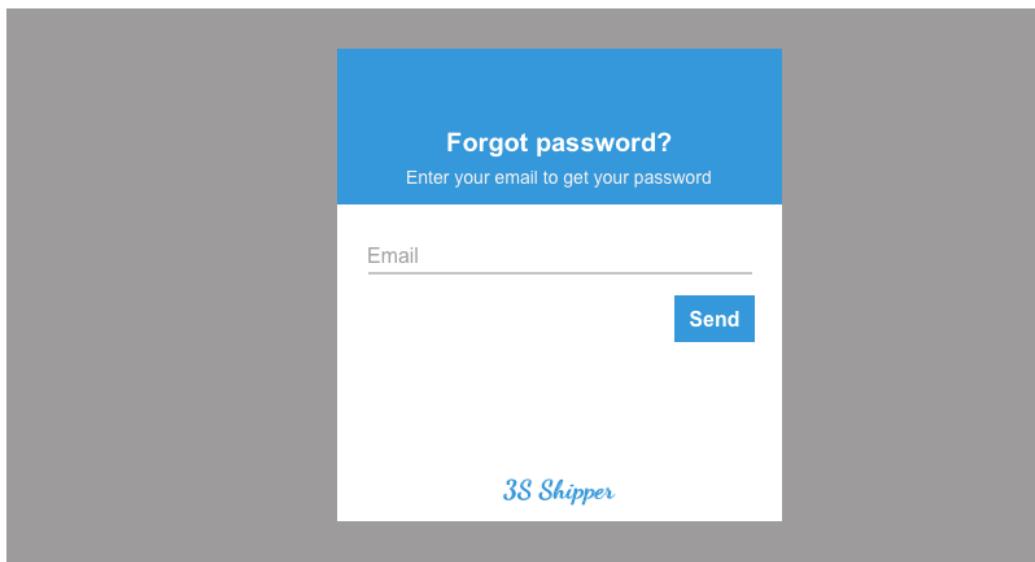
UC-204: Change password

Use Case ID:	UC-204		
Use Case Name:	Change password		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Store can change login password but Store need to remember old password.		
Triggering event:	Store wants to change password.		
Preconditions:	Store logged in to system		
Post conditions:	New password has been saved in database.		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
7.	Store	Clicks "Change password"	
8.	System	Displays "Change password" screen includes: - Old password text box - New password text box - Confirm new password text box - Submit button	
9.	Store	Enters data in fields	
10.	Store	Clicks "Submit" button	
11.	System	Validates data	
12.	System	Displays "Change password" screen with message "	

		Changes password successful”
Alternative Flows:		N/A
Exceptions:		
EC1		At step 4, required fields are not entered
Step	Actor	Action
4.1	System	Displays “Change password” screen with error message “*is require”
EC2		At step 4, “Old password” is incorrect
Step	Actor	Action
4.1	System	Displays “Change password” screen with error message: “Old password is incorrect”
EC3		At step 4, confirm new password is not the same with new password
Step	Actor	Action
4.1	System	Displays “Change password” screen with error message.” Confirm new password is not the same with new password. Please enter again!”
Includes:		
Special Requirements:		
Notes and Issues:		

Sequence Diagram

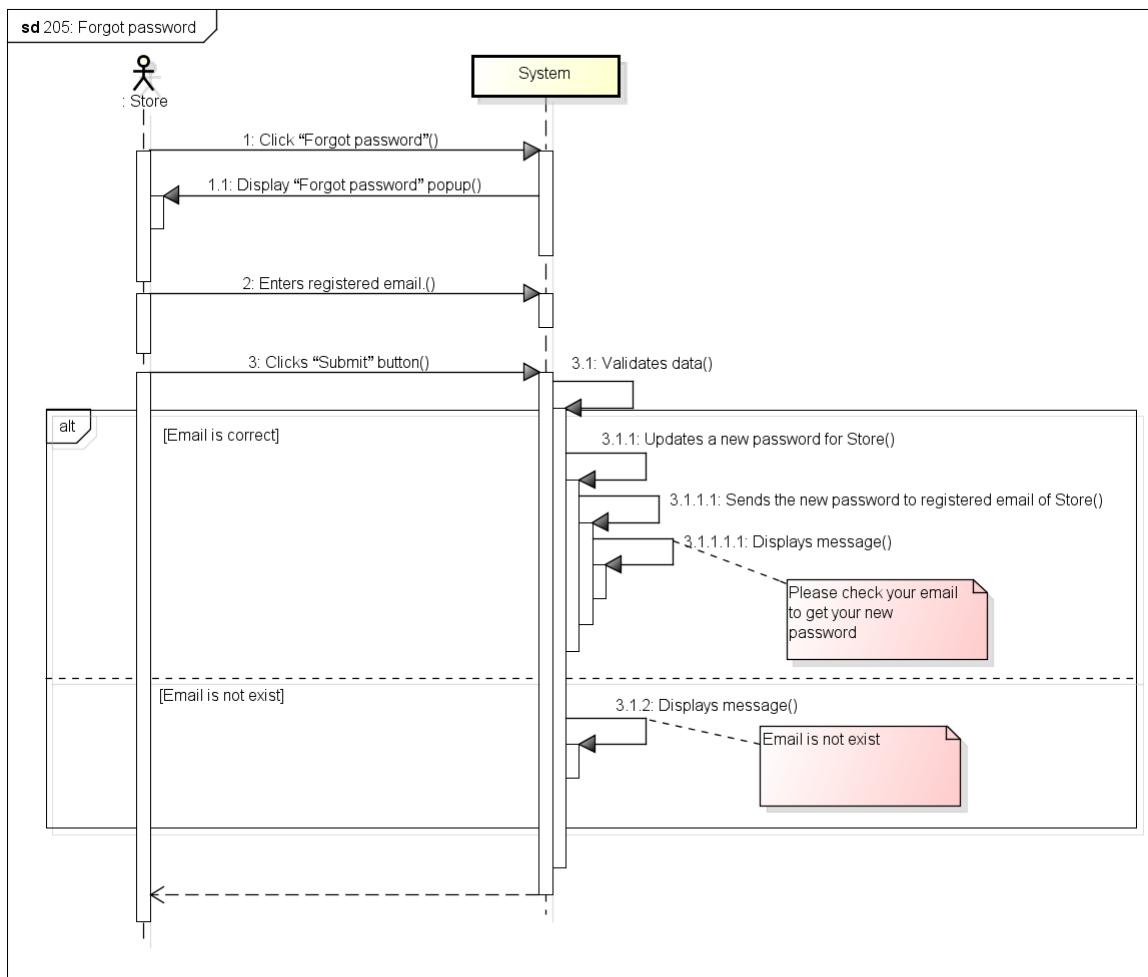


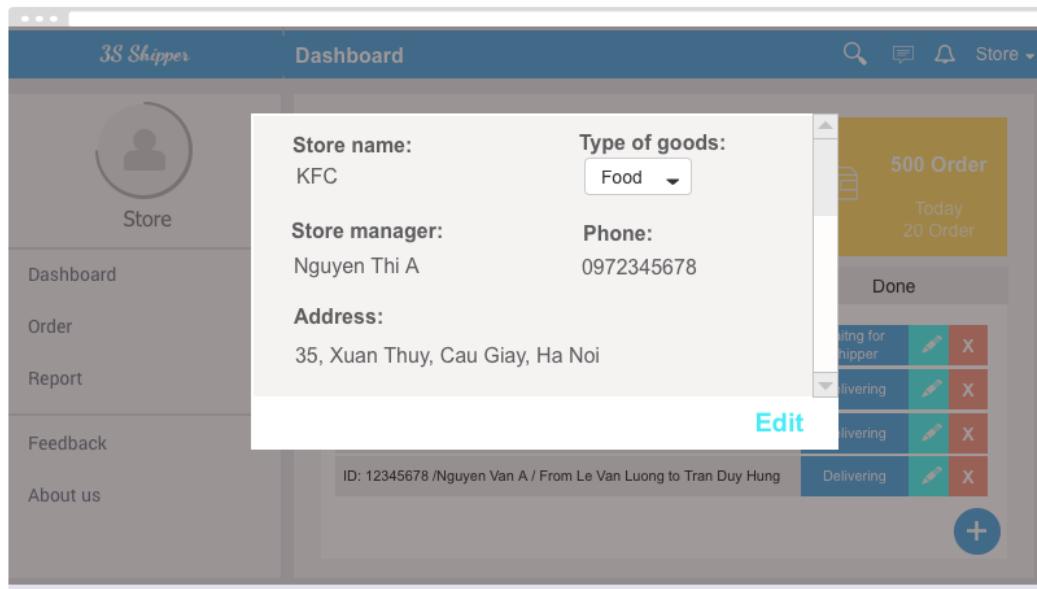
UC-205: Forgot password

Use Case ID:	UC-205	
Use Case Name:	Forgot password	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Store	
Description:	This function help Store receive their login password when Store forgot.	
Triggering event:	Store requests system to receive new password.	
Preconditions:	Store is on the “Login” popup (Refer to UC-202: Login)	
Post conditions:	<ul style="list-style-type: none"> - A new password has been updated for Store - An email has been send to registered email of Store include new password. 	
Priority:	High	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
9.	Store	Clicks “Forgot password” hyperlink on “Login” popup
10.	System	Displays “Forgot password” popup includes: - Email text box - Submit button
11.	Guest	Enters registered email.
12.	Guest	Clicks “Submit” button
13.	System	Validates data
14.	System	Updates a new password for Store

15.	System	Sends the new password to registered email of Store
16.	System	Displays message : "Please check your email to get your new password"
Alternative Flows:		N/A
Exceptions:		
EC1		At step 3, email are not a registered email
Step	Actor	Actor
4.1	System	Displays error message: "Email is not exist"
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

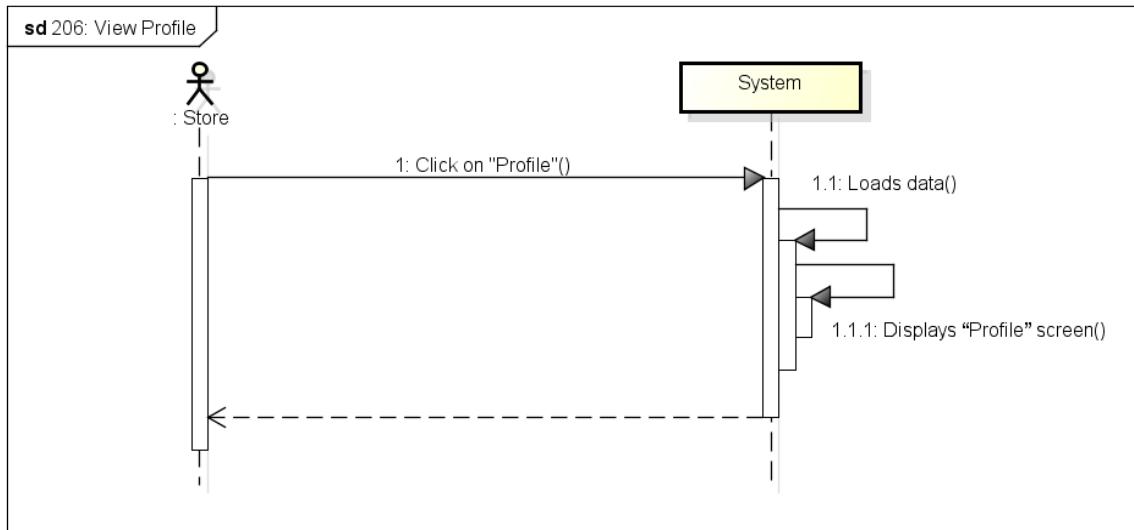
Sequence Diagram



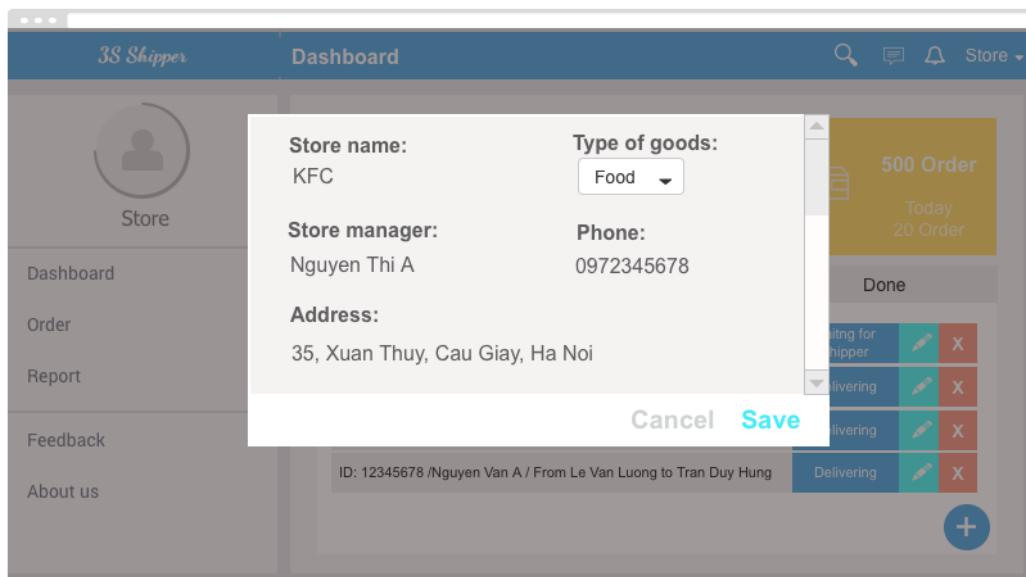
UC-206: View profile

Use Case ID:	UC-206		
Use Case Name:	View profile		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	“View profile” screen Displays detail information of Store such as Store name; type of goods, Store address...and a “Edit” button that help Store edits those information.		
Triggering event:	Store wants to view profile.		
Preconditions:	Store logged into system.		
Post conditions:	“Profile” screen are displayed		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Store	Clicks on “Profile” hyperlink.	
2.	System	Loads data	
3.	System	Displays “Profile” screen includes details information of Store	
Alternative Flows:		N/A	
Exceptions:		N/A	
Includes:		N/A	
Special Requirements:		N/A	
Notes and Issues:		N/A	

Sequence Diagram



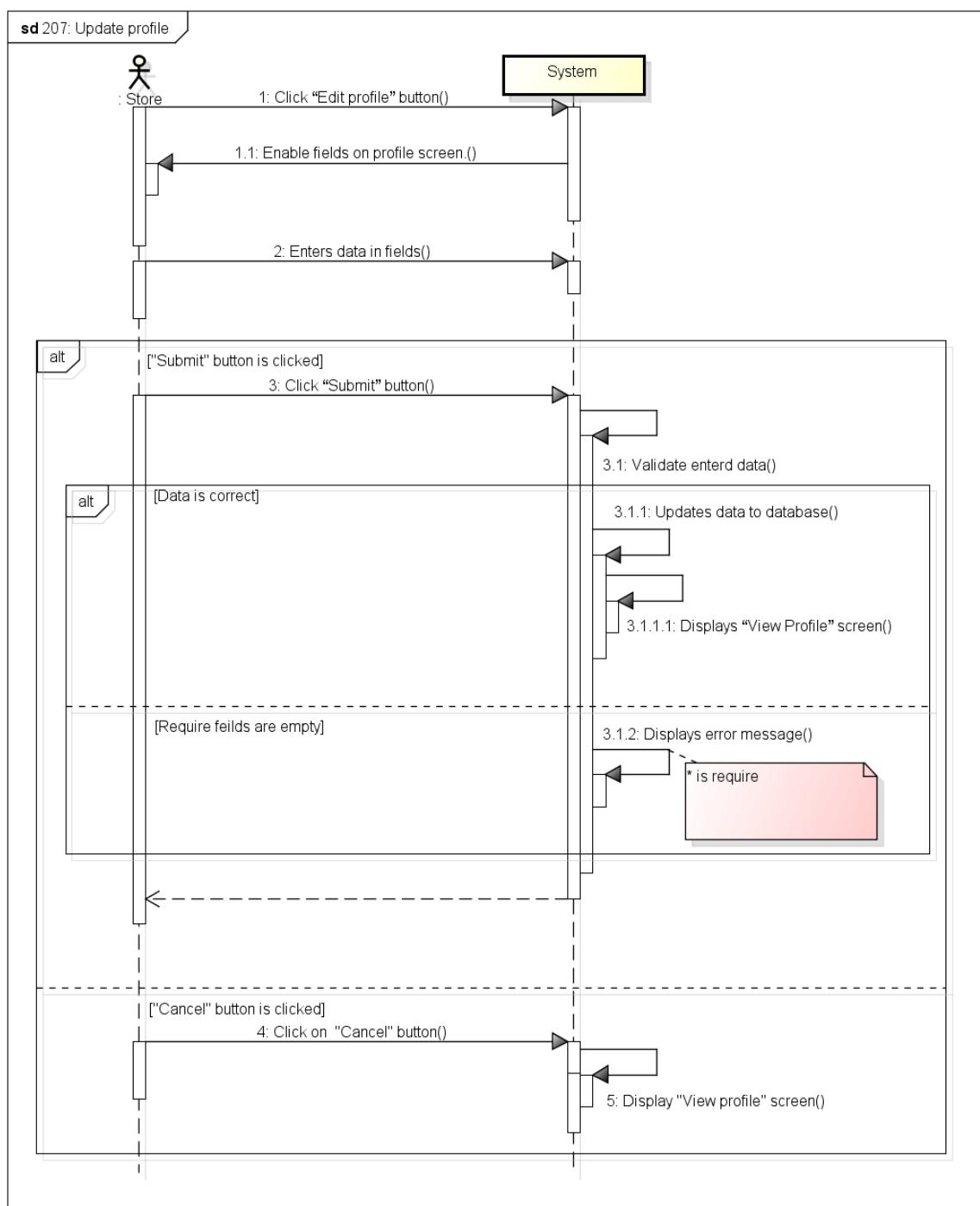
UC-207: Update profile



Use Case ID:	UC-207		
Use Case Name:	Update profile		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Store can edit detail information such as: Store name; type of goods; Store address... This information will be updated to database.		
Triggering event:	Store wants to update profile.		
Preconditions:	Store are on "Profile" screen		
Post conditions:	New profile have been displays on "Profile screen" and updated in database.		

Priority:	Normal	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Store	Clicks “Update profile” button on “Profile” screen
2.	System	Enable fields on profile screen.
3.	Store	Enters data in fields
4.	Store	Clicks “Submit” button
5.	System	Validates entered data.
6.	System	Updates data to database
7.	System	Displays “View Profile” screen. (Refer to UC-206: View Profile”)
Alternative Flows:		N/A
Exceptions:		
EC1	At step 3, require fields are empty	
Step	Actor	Action
4.1	System	Displays error message at empty fields: “* is required”
EC2	At step 4, Store Clicks “Cancel” button	
Step	Actor	Action
4.1	System	Displays “View profile” screen (Refer to UC-206: View Profile”)
Includes:		
Special Requirements:		
Notes and Issues:		

Sequence Diagram



UC-208: Create order

Use Case ID:	UC-208		
Use Case Name:	Create order		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Store creates an order to requests delivery service from system		
Triggering event:	Store wants to create a new order.		
Preconditions:	Store are logged into system.		
Post conditions:	Order information have been send to system and saved to database.		
Priority:	High		
Frequency of Use:	Always		

Main flow

Step	Actor	Action
1.	Store	Clicks "Create order" button
2.	System	Displays "Create order" screen includes: - "From" text box - "Pick up locations" text box - "To" text box - "Delivery address" text box - "Phone" text box - "Weight" text box - "Size" text box - "Vehicle" drop down list - "Express" checkbox - "Delivery Time" time picker

		<ul style="list-style-type: none"> - “Pick up Time” time picker - “Cash on delivery” check box - “Amount of money” text box - “Submit” button - “Cancel” button
3.	Store	Enters data in fields
4.	Store	Clicks “Submit” button
5.	System	Validate data
6.	System	Updates data to database
7.	System	Displays “Order details” screen (Refer to UC-213: Order’s details)

Alternative Flows:

AT1	At step 3, Store checks on “Express” check box.	
-----	---	--

Step	Actor	Action
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3.1	System	Disables “Time delivery” text box
-----	--------	-----------------------------------

Exceptions:

EC1	At step 4, required fields are empty	
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Step	Actor	Action
------	-------	--------

4.1	System	Displays Register screen with error message “*is require”
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EC3	At step 4, Store Clicks “Cancel” button	
-----	---	--

Step	Actor	Action
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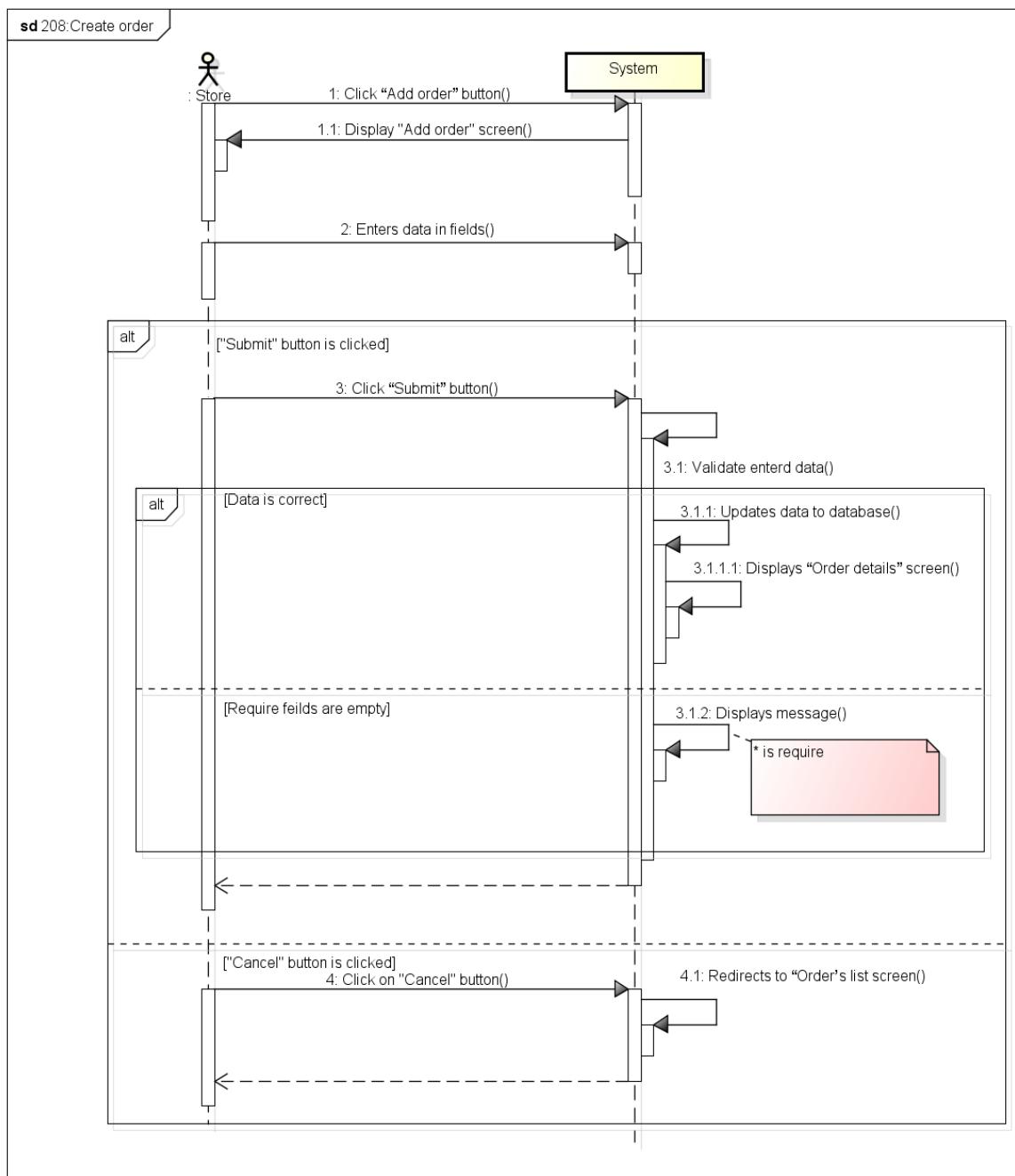
4.1	System	Redirects Store to “Order’s list screen
-----	--------	---

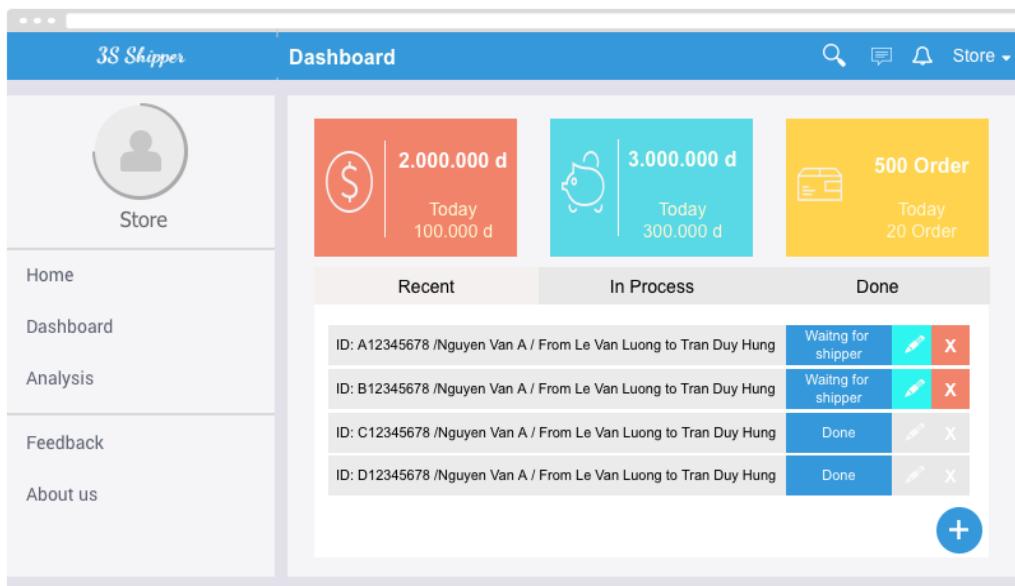
	Includes:	N/A
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	Special Requirements:	N/A
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	Notes and Issues:	N/A
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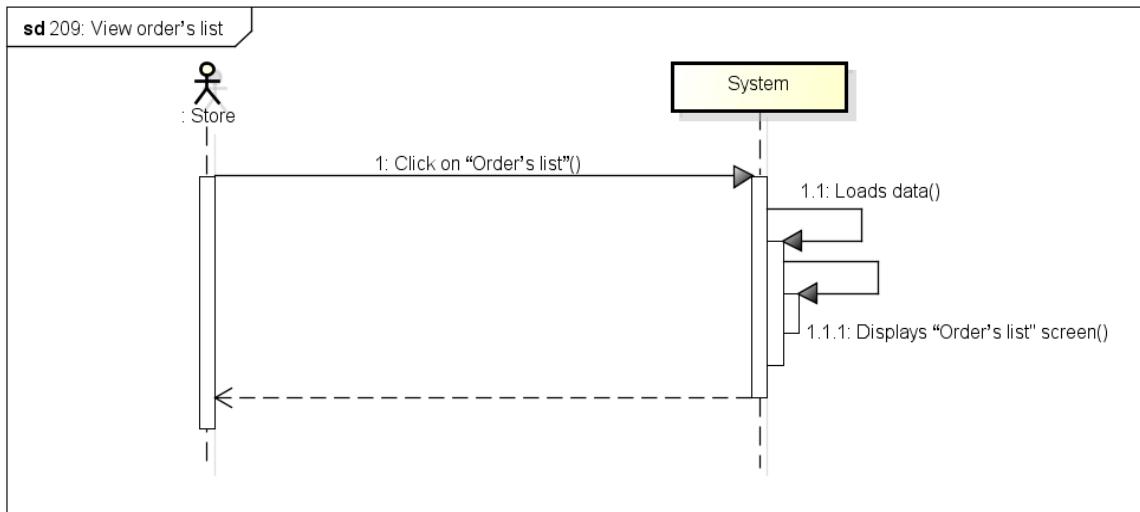
Sequence Diagram



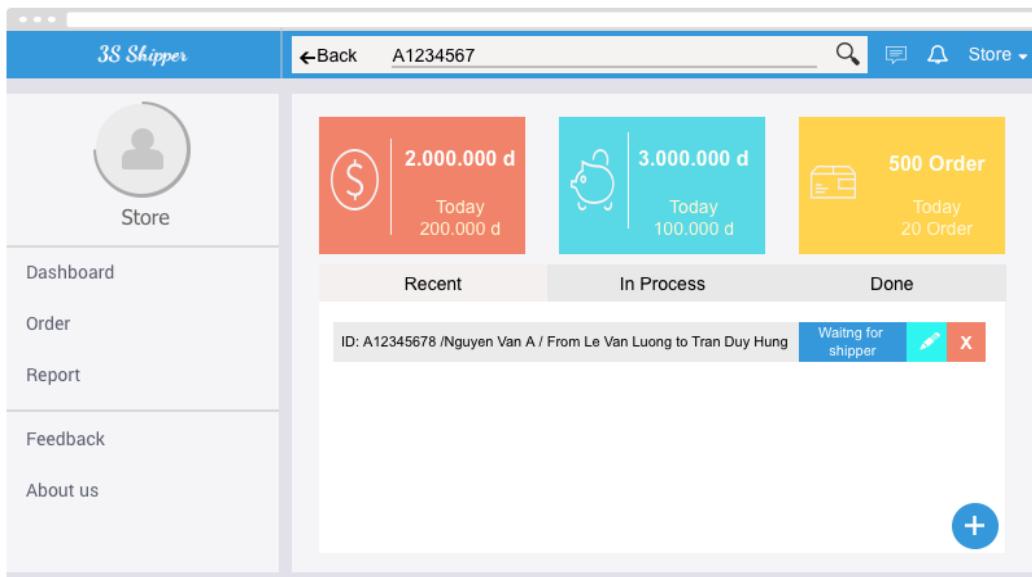
UC-209: View order's list

Use Case ID:	UC-209	
Use Case Name:	View order's list	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Store	
Description:	“View order's list” screen Displays list of all order created by Store with brief information of orders and function buttons that help Store cancels and edits information of orders.	
Triggering event:	Store wants to view list of order.	
Preconditions:	Store logged into system.	
Post conditions:	“Order's list” screen are displayed	
Priority:	High	
Frequency of Use:	Always	
Main flow		
Step	Actor	Action
1.	Store	Clicks on “Order's list” menu
2.	System	Loads data
3.	System	Displays “Order's list” screen
Alternative Flows:	N/A	
Exceptions:	N/A	
Includes:	N/A	
Special Requirements:	N/A	
Notes and Issues:	N/A	

Sequence Diagram



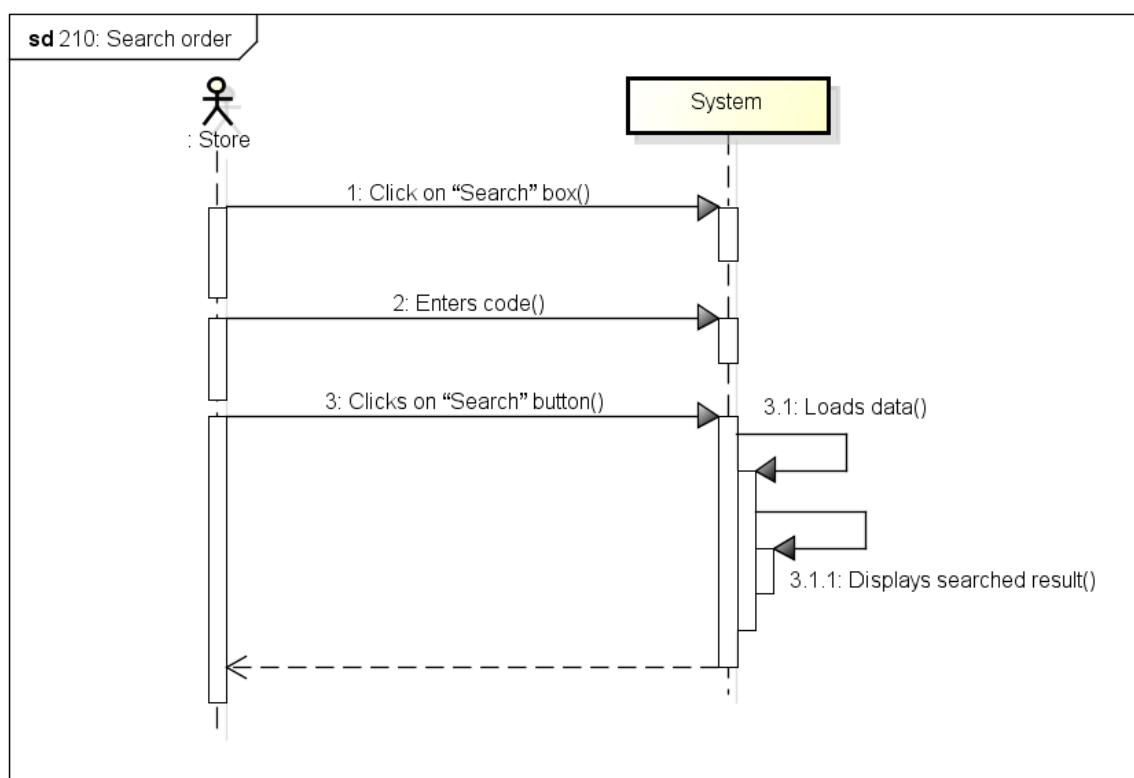
UC-210: Search orders

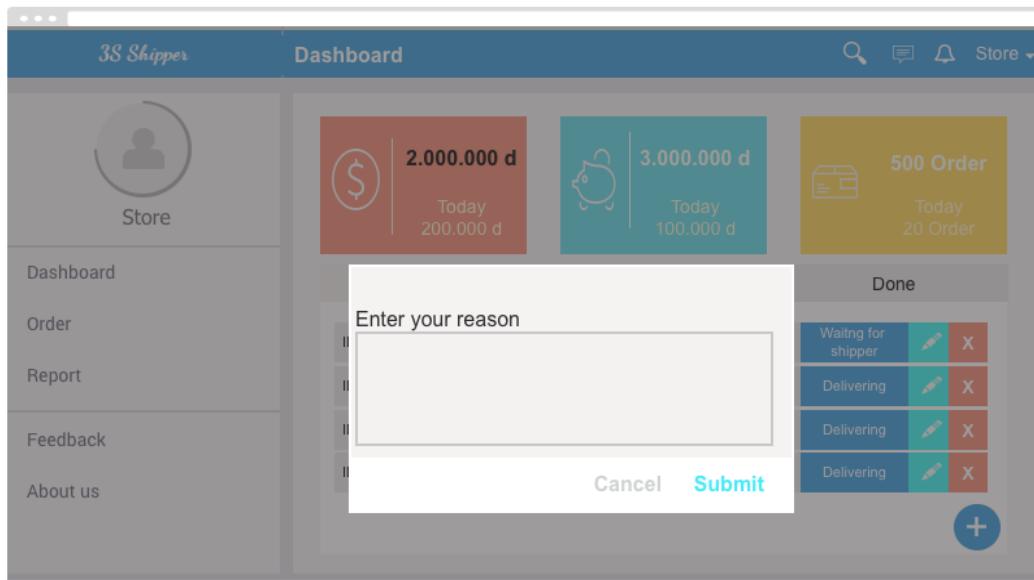


Use Case ID:	UC-210		
Use Case Name:	Search orders		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Store can use order's code to search orders in list of orders that were created by Store		
Triggering event:	Store wants to search order		
Preconditions:	Store is on "Order's list" screen. (Refer to UC-209: View order's list)		
Post conditions:	Searched result are displayed on screen.		

Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
1.	Store	Clicks on “Search” button
2.	Store	Enters code
3.	Store	Clicks on “Search” button
4.	System	Loads data
5.	System	Displays searched result on screen.
Alternative Flows: N/A		
Exceptions: N/A		
Includes: N/A		
Special Requirements: N/A		
Notes and Issues: N/A		

Sequence Diagram

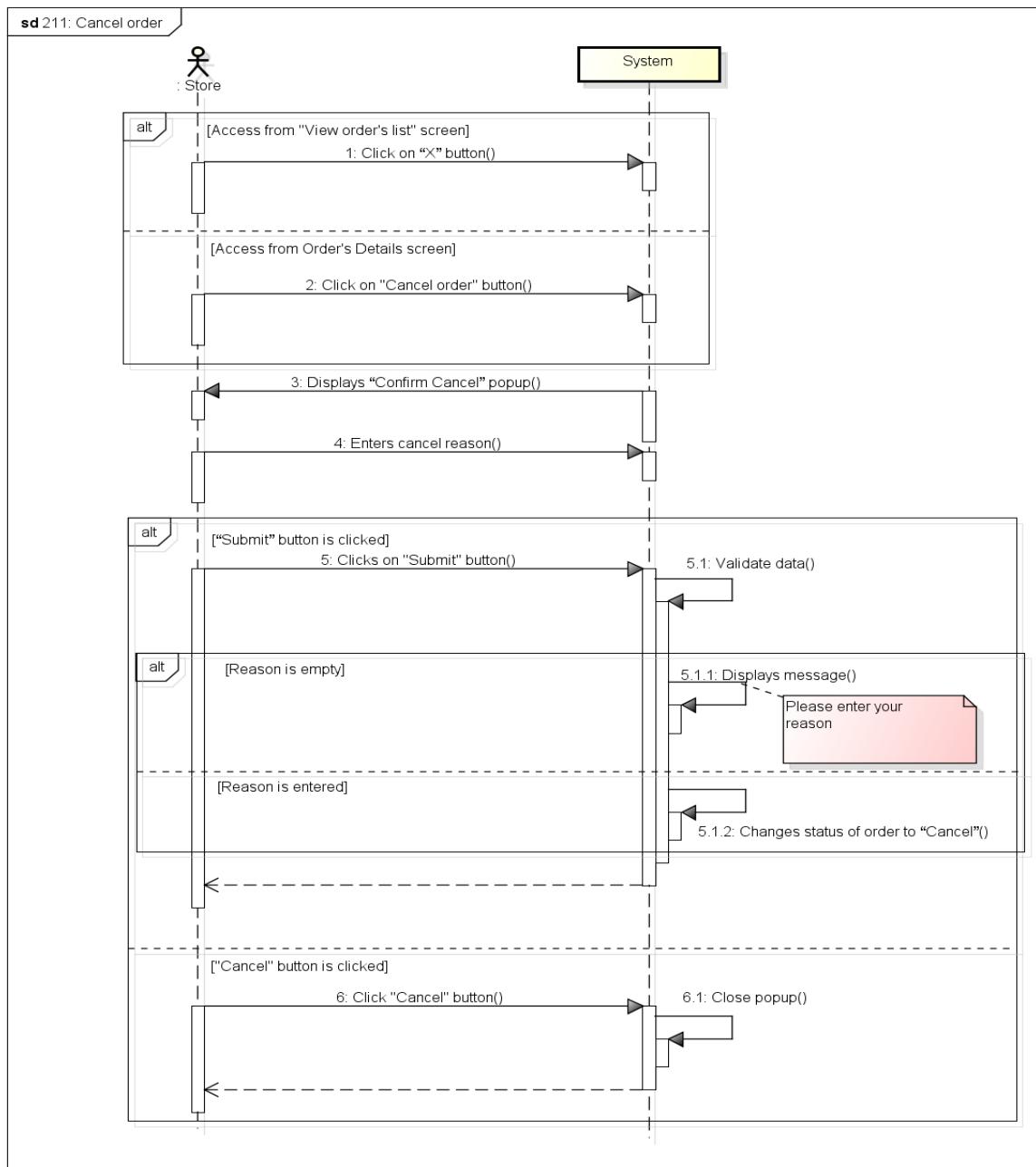


UC-211: Cancel order

Use Case ID:	UC-211		
Use Case Name:	Cancel order		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Stores can cancel uncompleted orders. But Store has to enter cancel reason		
Triggering event:	Store wants to cancel orders.		
Preconditions:	Store are on “Order’s list” screen (Refer to UC-209: View order’s list)		
Post conditions:	<ul style="list-style-type: none"> - Order status has been changed to “Cancel” - Order information has been updated to database. 		
Priority:	Normal		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1.	Store	Clicks “X” button on the row contain order brief information.	
2.	System	Displays “Confirm Cancel” popup	
3.	Store	Enters cancel reason	
4.	Store	Clicks “Submit” button	
5.	System	Changes status of order to “Cancel”	
Alternative Flows:		N/A	
Exceptions:			

EC1	At step 4, Store Clicks “Cancel” button	
Step	Actor	Action
3.1	System	Closes popup
EC1	At step 3, Store enters nothing.	
Step	Actor	Action
3.1	System	Displays error message on “Confirm Cancel” popup: “Please enter your reason”
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram



UC-212: Edit Order

The screenshot shows the 'Edit order' interface. On the left is a sidebar with a user icon and the text 'Store'. Below it are links: Home, Dashboard, Analysis, Feedback, and About us. The main area has two columns: 'Pickup information' and 'Order information'. Under 'Pickup information', there are fields for 'KFC' and '23, Tran Duy Hung'. Under 'Delivery information', there are fields for 'Nguyễn Văn B', '012843783', and '34, Nguyen Ngoc Vu'. The 'Order information' column contains 'Áo Khoác' in the first field, and below it are fields for dimensions ('1 x 10 x 3 cm') and weight ('1000 gram'). There are checkboxes for 'Express' (checked) and 'Cash on delivery'. Below these are buttons for 'Time delivery' and 'Amount'. At the bottom are buttons for 'Save' and 'Cancel'.

Use Case ID:	UC-212	
Use Case Name:	Edit Order	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Store	
Description:	Store can edits some information that Store entered when create orders. And these orders must be uncompleted.	
Triggering event:	Store wants to edits order	
Preconditions:	Store are on “Order’s list” screen or Store are on “Order details” screen. (Refer to UC-209: View order’s list)	
Post conditions:	New Order information have been displays on details screen and updated in database.	
Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
1.	Store	Clicks “Edit” button on the row contain order information.
2.	System	Displays “Order details” screen: - “Start address” text box - “Finish address” text box - “Weight” text box - “Size” text box - “Vehicle” drop down list - “Express” checkbox - “Time delivery” text box - “Submit” button

3.	Store	Enters data in fields
4.	Store	Clicks “Submit” button
5.	System	Displays “Order details” screen with updated information.

Alternative Flows:

AT1	At step 1, Store Clicks on “Edit” button on “Order details” screen.	
-----	---	--

Step	Actor	Action
1.1	System	Changes fields on “Order details” to editable.
1.2	Go to “Step 2”	

Exceptions:

EC1	At step 3, requires fields are empty	
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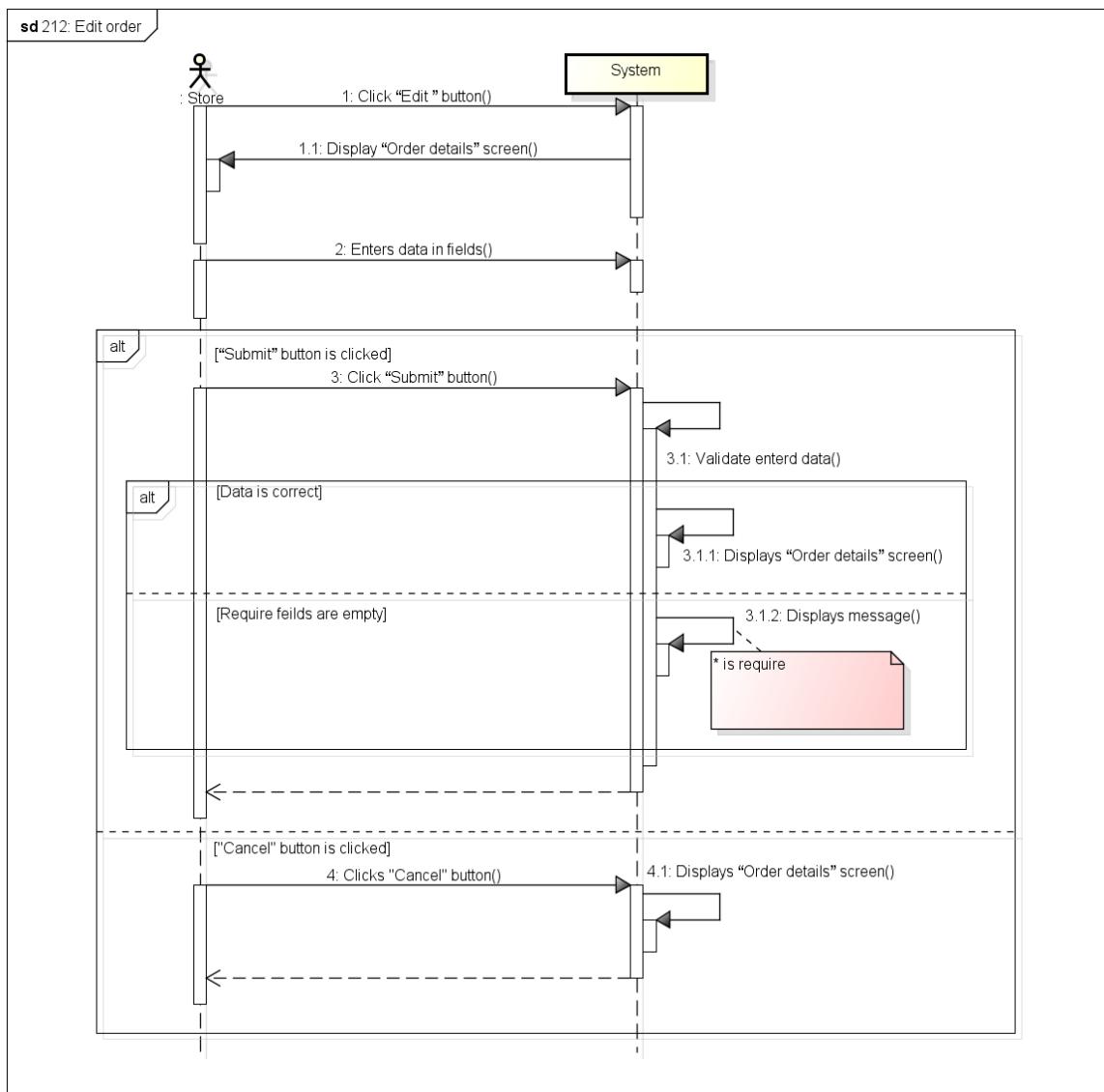
Step	Actor	Action
4.1	System	Displays message: “* is required”

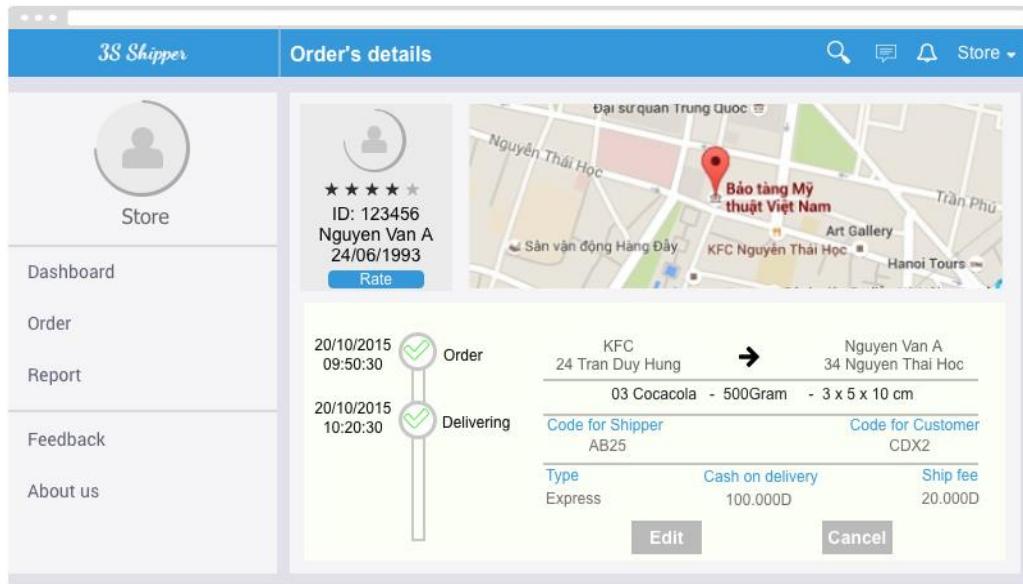
EC2	At step 4, Store Clicks “Cancel” button	
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Step	Actor	Action
4.1	System	Displays “Order details” screen (Refer to UC-213: Order details)

Includes: N/A**Special Requirements:** N/A**Notes and Issues:** N/A

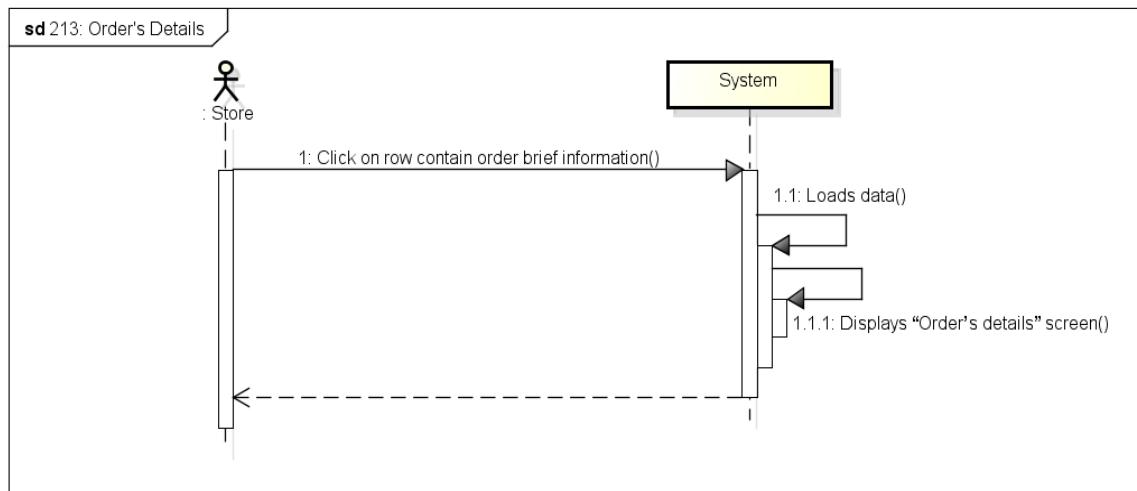
Sequence Diagram



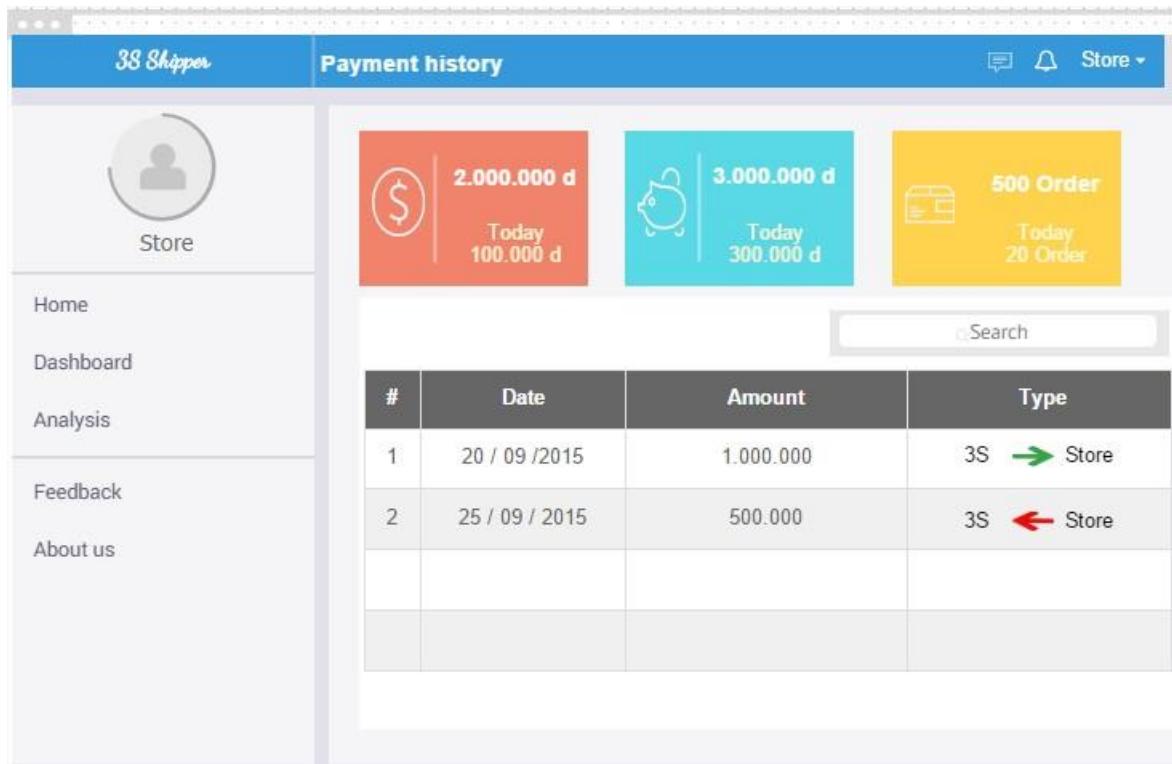
UC- 213: Order's details

Use Case ID:	UC-213	
Use Case Name:	Order' Details	
Created By:	KhanhKC	Last Updated By: KhanhKC
Date Created:	19/09/2015	Date Last updated: 20/09/2015
Actor:	Store	
Description:	Displays details information of orders with a maps that help Store checking location of Shippers and a timeline that help Store checking status of Order.	
Triggering event:	Store wants to view order details	
Preconditions:	Store is on “Order’s list” screen.	
Post conditions:	“Order’s details” screen are displayed	
Priority:	High	
Frequency of Use:	Always	
Main flow		
Step	Actor	Action
1.	Store	Clicks on row contain order brief information
2.	System	Loads data
3.	System	Displays “Order’s details” screen
Alternative Flows:	N/A	
Exceptions:	N/A	
Includes:	N/A	
Special Requirements:	N/A	
Notes and Issues:	N/A	

Sequence Diagram



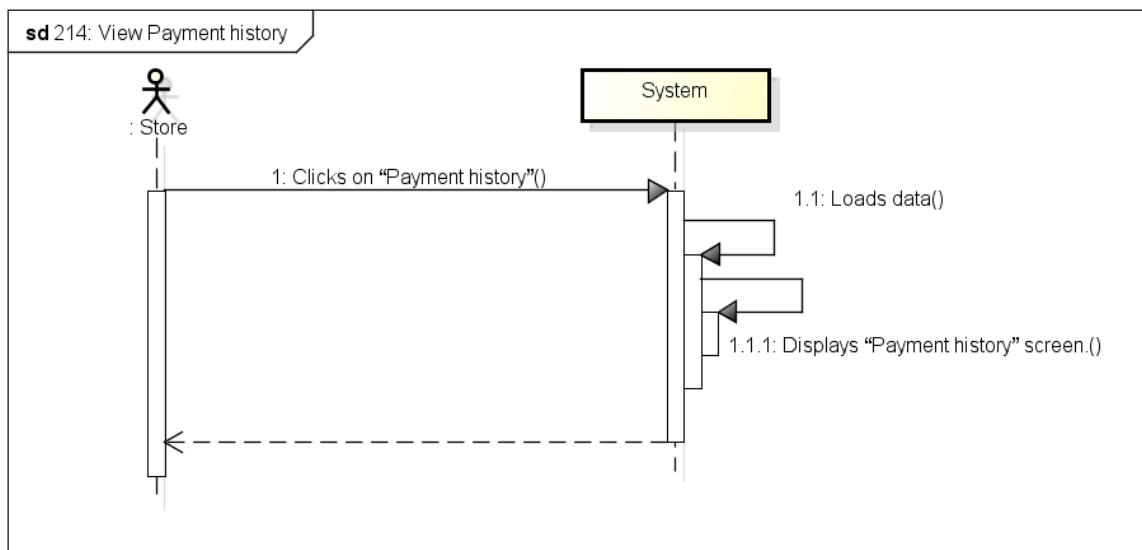
UC-214: View payment history

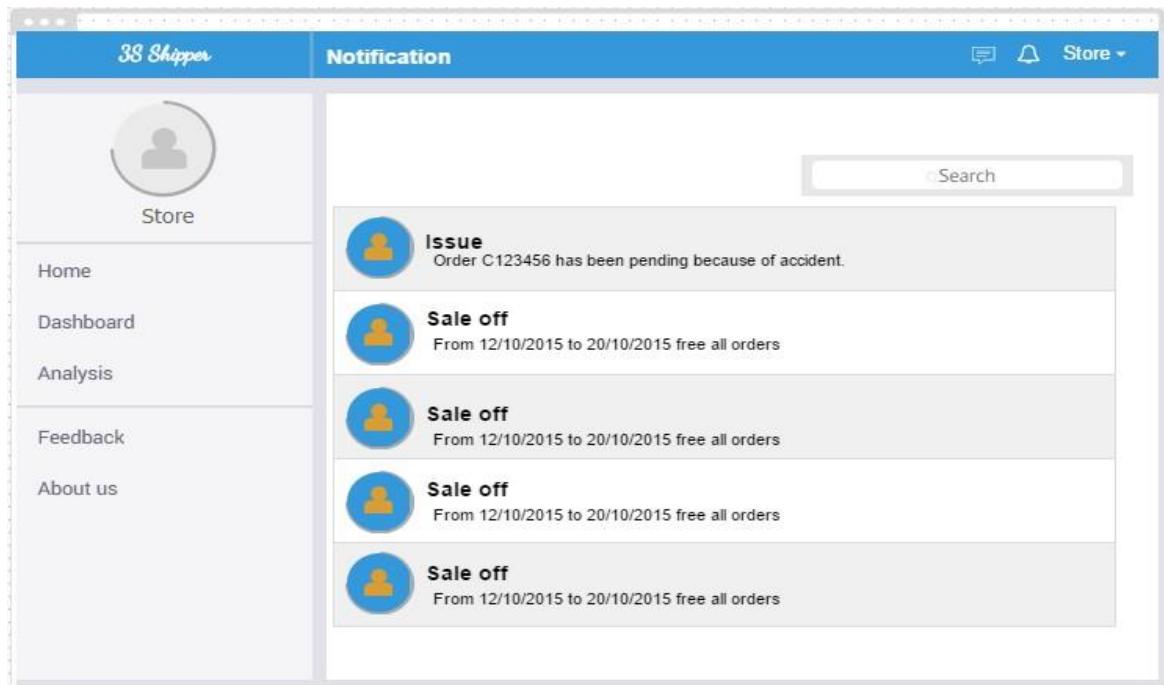


Use Case ID:	UC-214		
Use Case Name:	View payment history		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Displays payment history between Store and 3S Shipper		
Triggering event:	Store wants to view payment history		
Preconditions:	Store is on "Store" screen.		
Post conditions:	"Payment history" screen are displayed		

Priority:	Normal	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Store	Clicks on “Payment history” menu item on “Navigation bar”
2.	System	Loads data
3.	System	Displays “Payment history” screen.
Alternative Flows: N/A		
Exceptions: N/A		
Includes: N/A		
Special Requirements: N/A		
Notes and Issues: N/A		

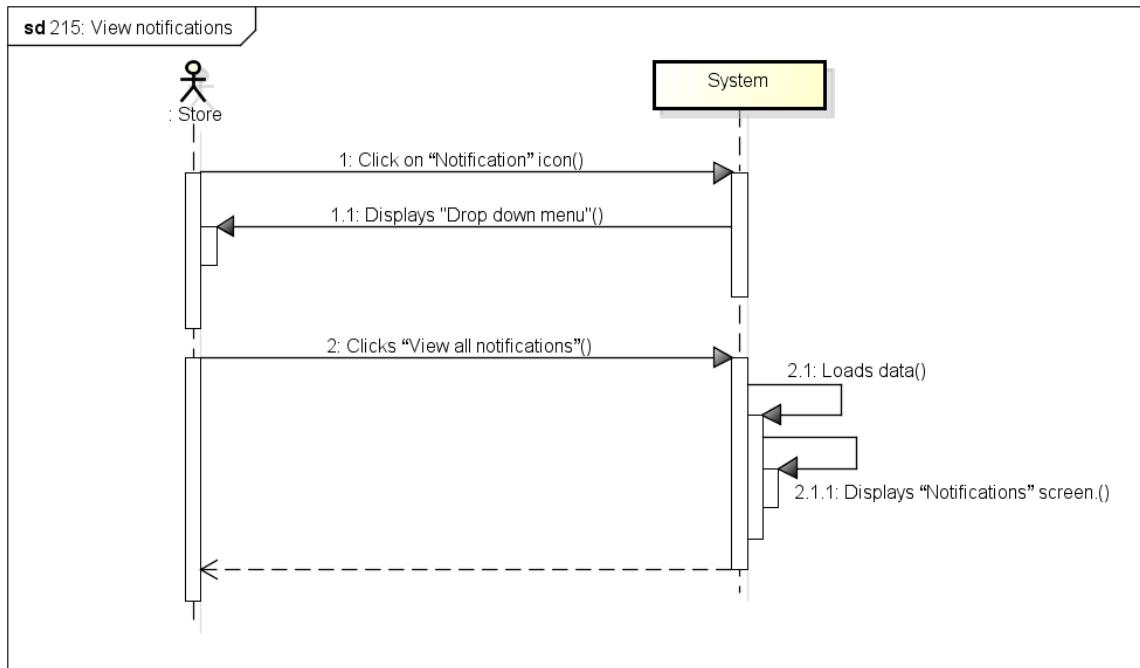
Sequence Diagram



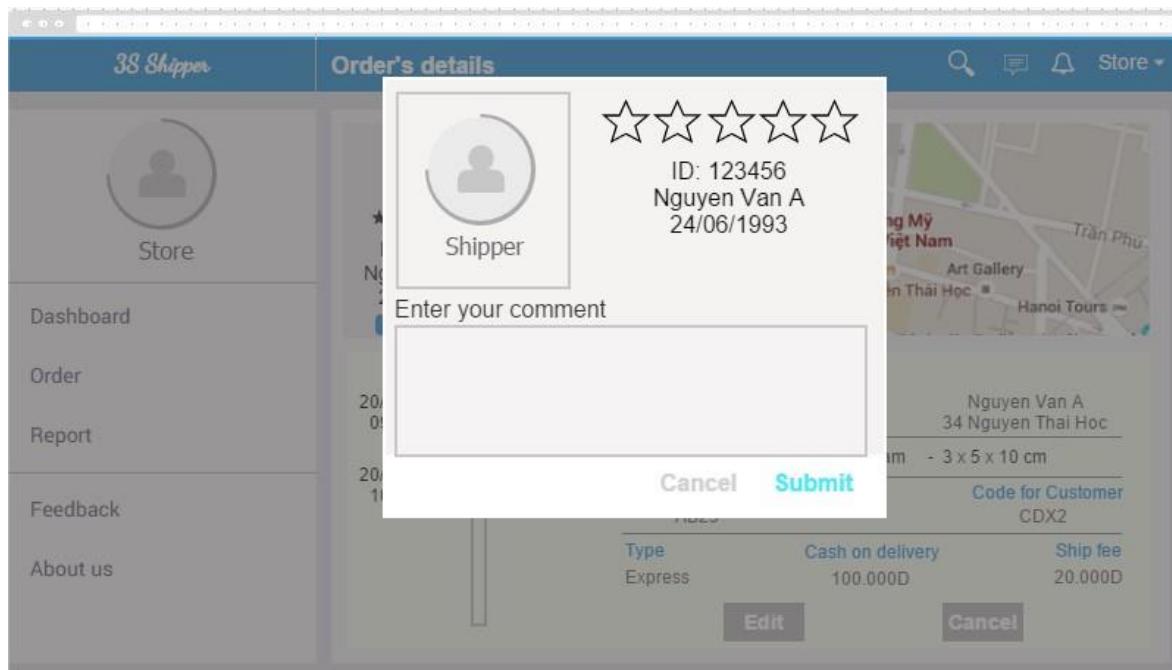
UC-215: View notifications

Use Case ID:	UC-215		
Use Case Name:	View notifications		
Created By:	HuyTDH	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Store views notifications from system (promotion news, payment warning, etc...)		
Triggering event:	Store wants to view notification.		
Preconditions:	Store logged in, internet connection is on		
Post conditions:	All notifications will be listed out		
Priority:	Normal		
Frequency of Use:	Sometimes		
Main flow			
Step	Actor	Action	
11	Store	Clicks on “Notification” icon	
12	System	Display “Drop down menu”	
13	Store	Clicks “View all notifications”	
14		Loads data	
15	System	Displays “Notifications” screen.	
Alternative:		N/A	
Exceptions:		N/A	
Includes:		N/A	
Special Requirements:		N/A	
Notes and Issues:		N/A	

Sequence Diagram

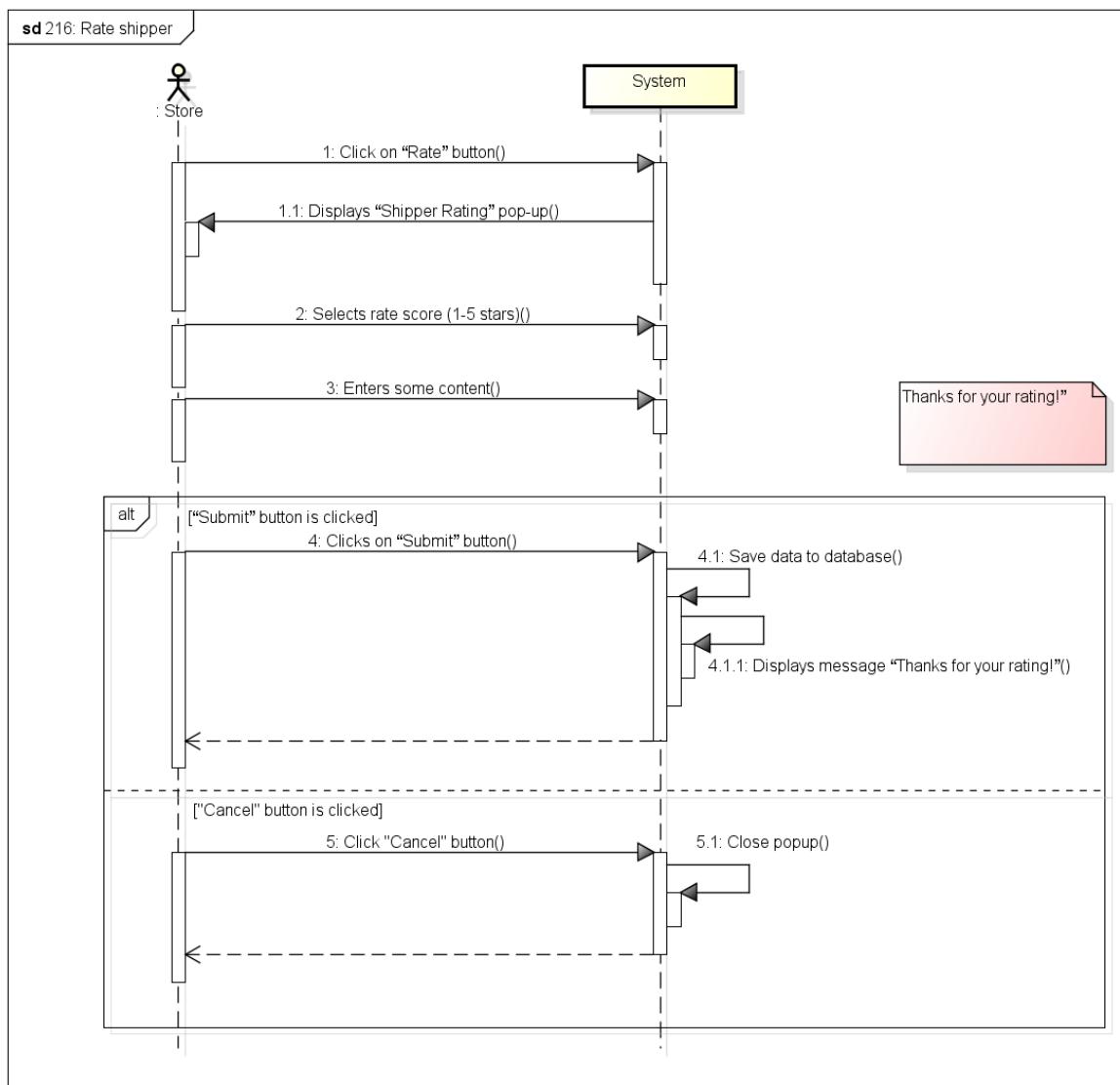


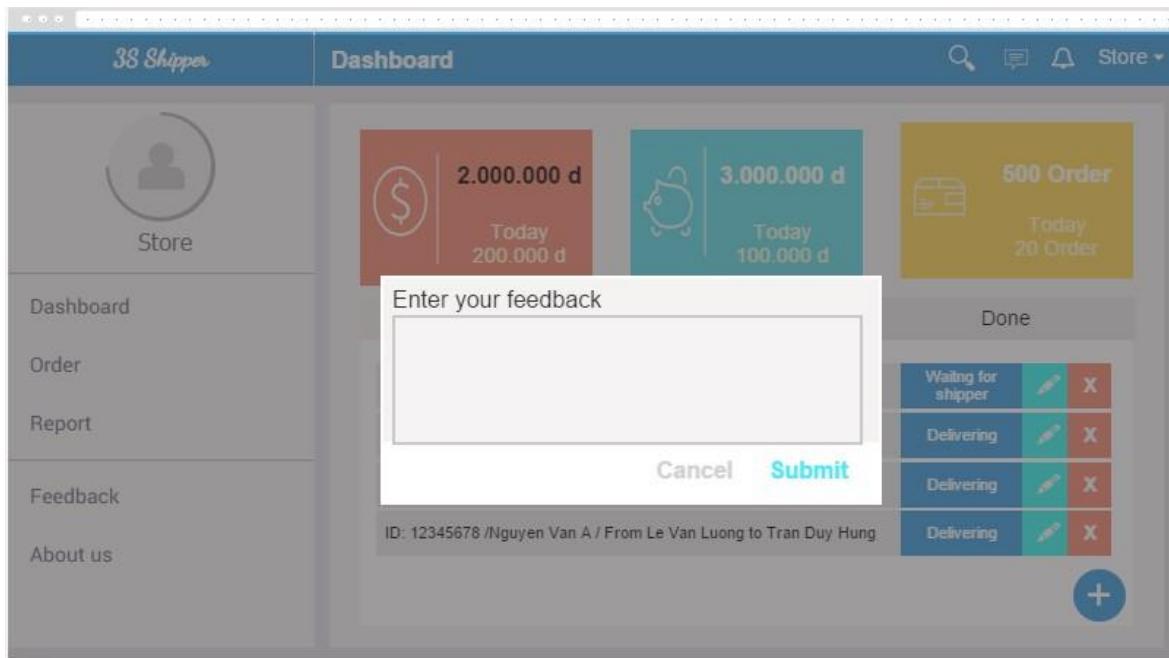
UC-216: Rate shipper



Use Case ID:	UC-216		
Use Case Name:	Rate shipper		
Created By:	HuyTDH	Last Updated By:	KhanHCK
Date Created:	19/09/2015	Date Last updated:	20/09/2015

Actor:	Store	
Description:	Store rates service quality of shipper for each order by chooses number of star and enters comment.	
Triggering event:	Store rates shipper.	
Preconditions:	Store logged in, there's a shipper bears responsibility for shipping store's order	
Post conditions:	Shipper rating send to system	
Priority:	Normal	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
7.	Store	Goes to "Order List"
8.	Store	Clicks on "Rate" button
9.	System	Displays "Shipper Rating" pop-up
10.	Store	Selects rate score (1-5 stars)
11.	Store	Enters some content
12.	Store	Clicks on "Send" button
13.	System	Save data to database
14.	System	Displays message "Thanks for your rating!"
Alternative Flows:		
Exceptions:		
EC1	At step 9, Store Clicks "Cancel" button	
Step	Actor	Action
4.1	Store	Store Clicks "Cancel" button
4.2	System	Close popup.
Includes:		
Special Requirements:		
Notes and Issues:		

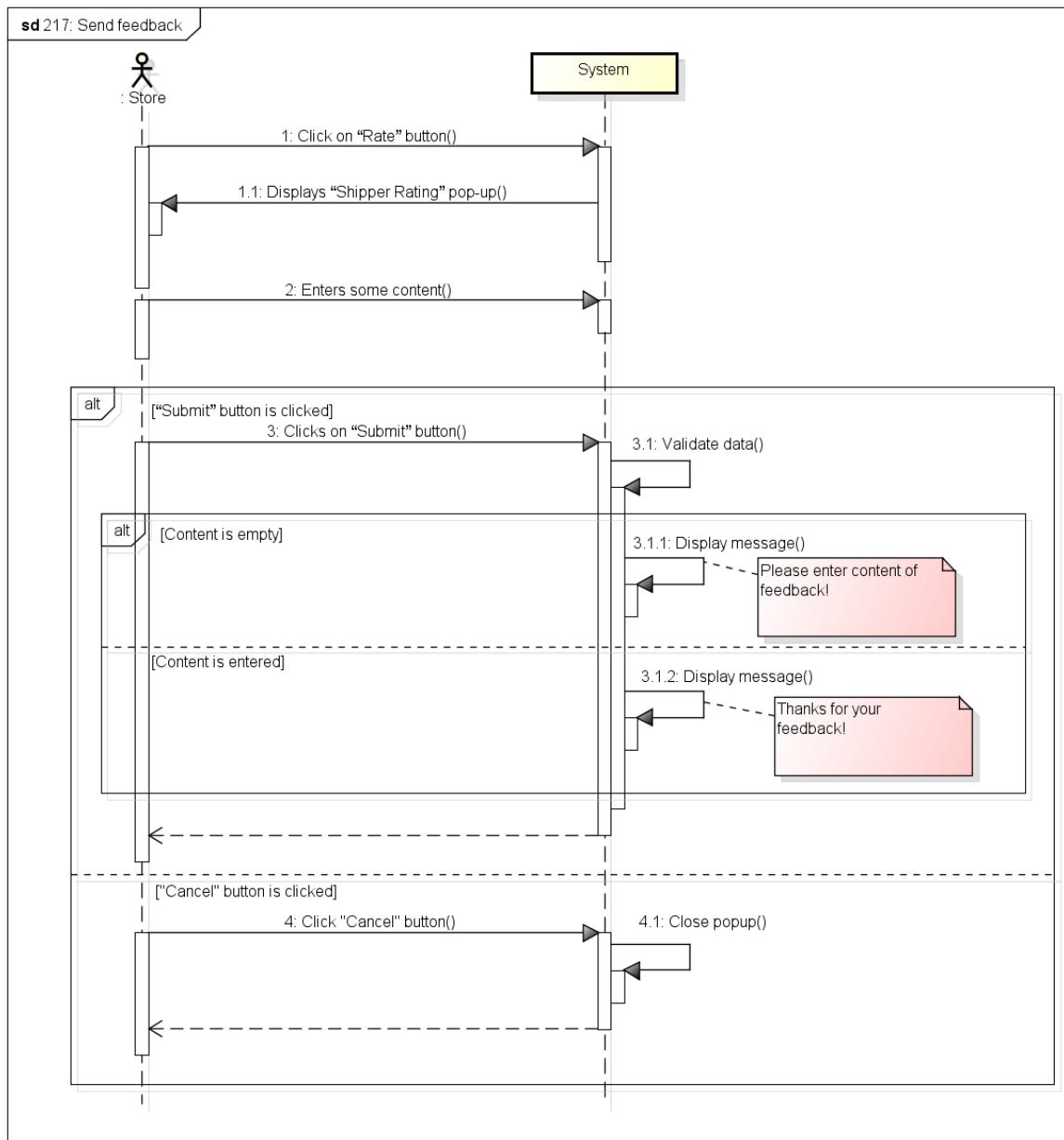
Sequence Diagram

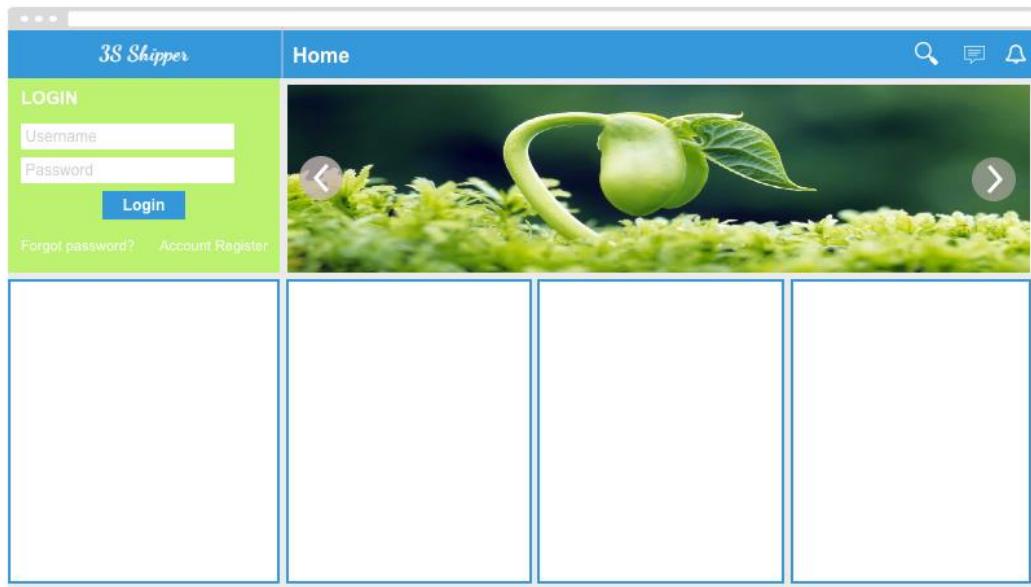
UC-217: Send feedback

Use Case ID:	UC-217		
Use Case Name:	Send feedback		
Created By:	HuyTDH	Last Updated By:	KhanhKC
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Store		
Description:	Store send feedback about any service of system by enters some content.		
Triggering event:	Store send feedback about service to system		
Preconditions:	Store logged in Internet connection is on		
Post conditions:	Feedback will be sent to system		
Priority:	Normal		
Frequency of Use:	Sometimes		
Main flow			
Step	Actor	Action	
8.	Store	Clicks on “Send feedback” on navigation bar	
9.	System	Displays “Send feedback” pop-up	
10.	Store	Enters some content	
11.	Store	Clicks on “Submit”	
12.	System	Validate content	
13.	System	Shows message “Thanks for your feedback!”	
Alternative Flows:		N/A	
Exceptions:			

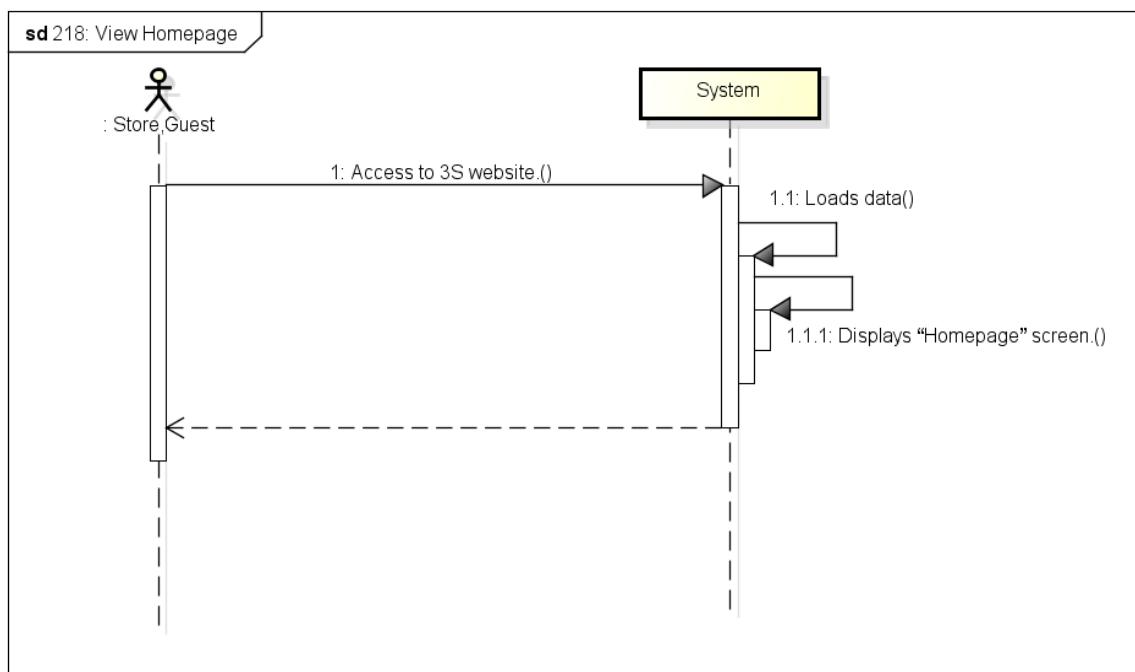
EC1	At step Store doesn't enter content	
Step	Actor	Action
4.1	Store	Store Clicks "Submit"
4.2	System	System shows message "Please enter content of feedback!"
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram



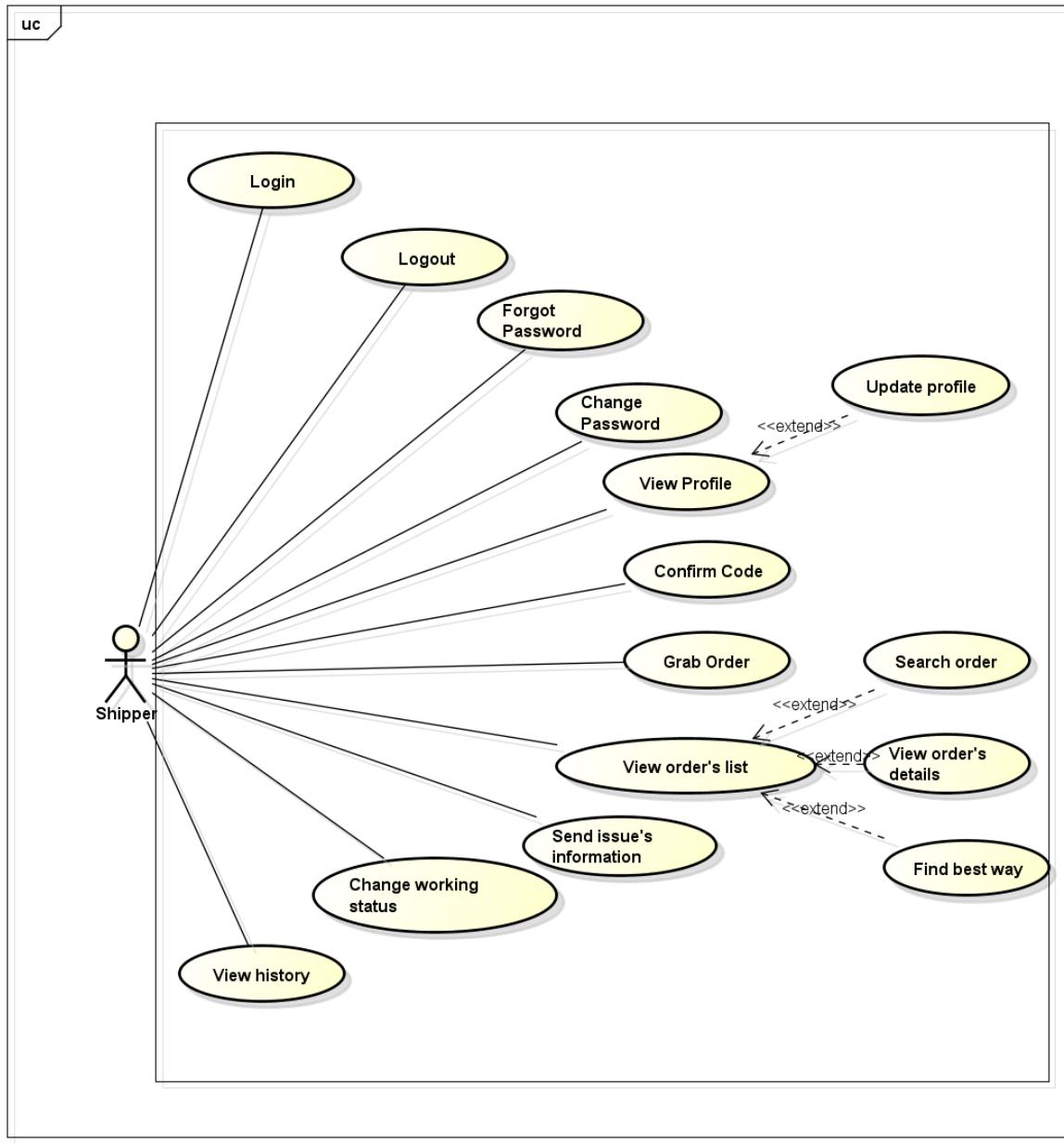
UC-218: View Homepage

Use Case ID:	UC-218		
Use Case Name:	View Homepage		
Created By:	KhanhKC	Last Updated By:	KhanhKC
Date Created:	20/09/2015	Date Last updated:	20/09/2015
Actor:	Store, Guest		
Description:	“Homepage” show information about 3S service, a “Login” box that help Store login system. Beside, “Homepage” also shows advertisement of system.		
Triggering event:	Store or Guest access to 3S website.		
Preconditions:	Store or Guest access to 3S website.		
Post conditions:	“Homepage” screen has been displayed.		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Store, Guest	Access to 3S website.	
2.	System	Loads data	
3.	System	Displays “Homepage” screen.	
Alternative Flows:		N/A	
Exceptions:		N/A	
Includes:		N/A	
Special Requirements:		N/A	
Notes and Issues:		N/A	

Sequence Diagram

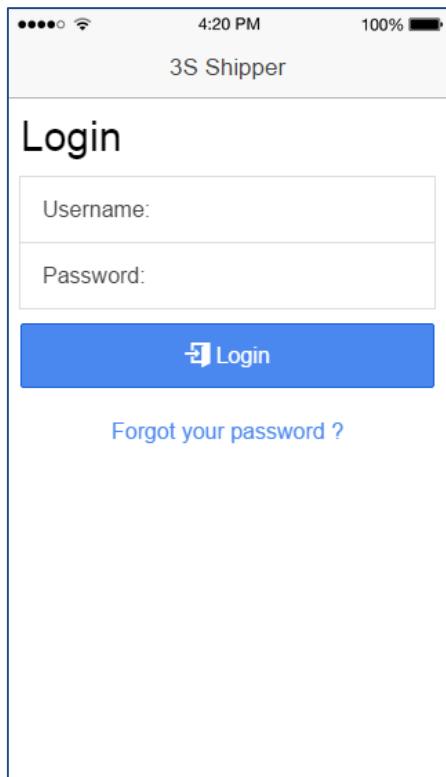
3.3. Mobile application for Shipper

3.3.1. User Case Diagram



3.3.2. Function

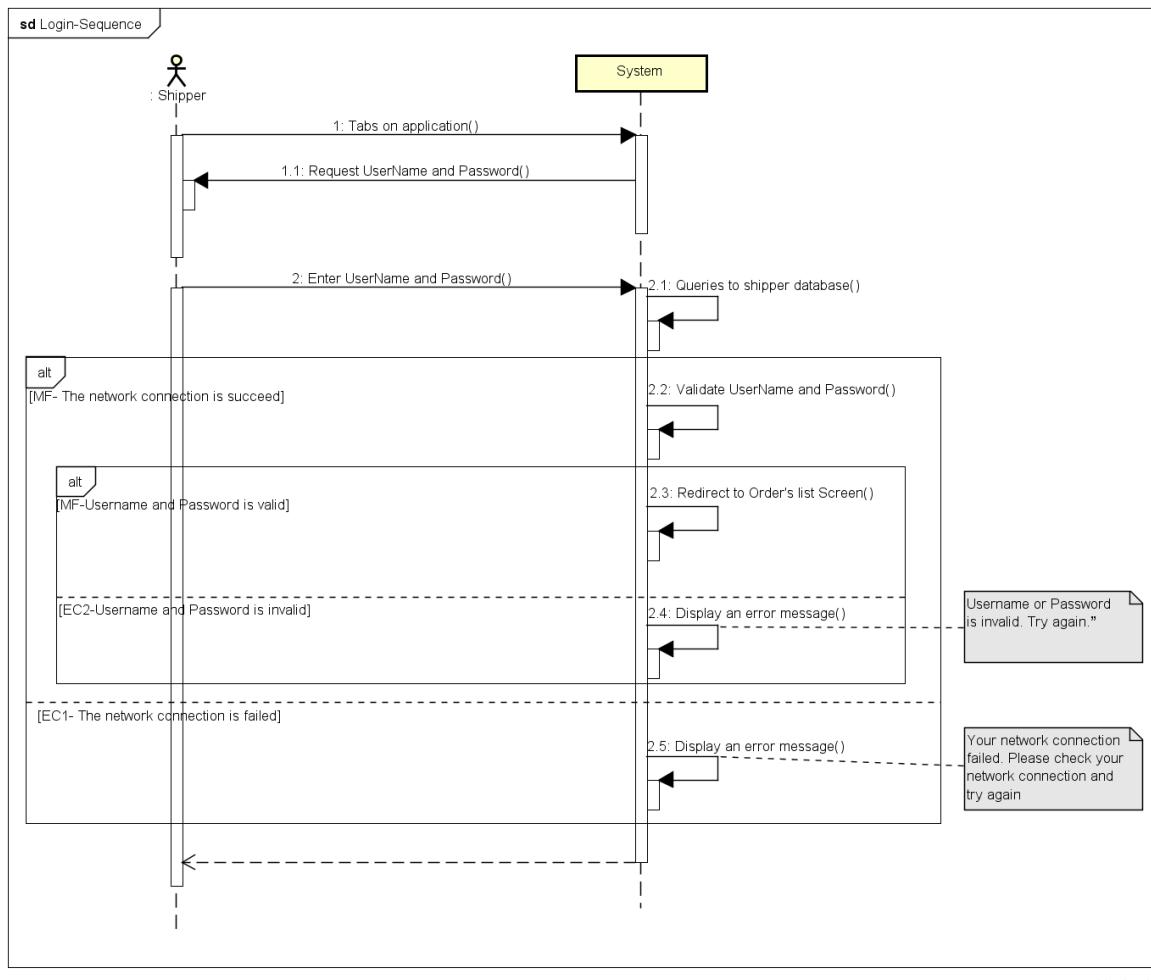
UC-301: Login



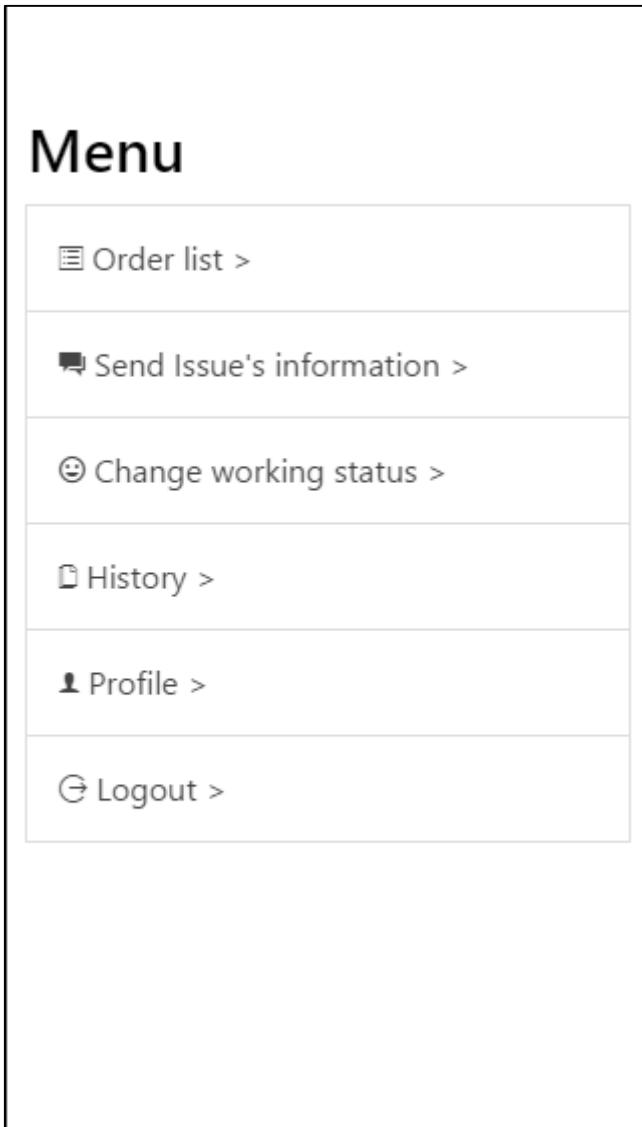
Use Case ID:	UC-301		
Use Case Name:	Login		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last Updated:	30/09/2015
Actor:	Shipper		
Description:	System provides his or her access credentials in order to use system.		
Triggering event	Shipper wants to login to system.		
Preconditions:	<ul style="list-style-type: none"> - To be pre-registered in the System. - Internet connection is established. 		
Post - conditions:	The shipper's session is stored.		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			
Step	Actor	Action	
1	Shipper	Tabs on application	
2	System	Request the shipper input the following fields are available:	

		+ Username + Password
3	Shipper	Enter information (Username and Password). Shipper clicks on Log In.
4	System	The queries to shipper database
5	System	The system validates Username and Password to accept or rejects the login request.
6	System	Login successful into application. The login request is accepted shipper will be redirected to the Order's list screen.
Alternative Flows:		N/A
Exceptions:		
EC1		At step 4, If system cannot establish a connection to the database due to some reasons (ex: network failure).
Step	Actor	
4.1	System	Display an error message "Your network connection failed. Please check your network connection and try again" will show up on screen to tell the shipper about the problem.
EC2		At step 5, if account's information is invalid
Step	Actor	Action
5.1	System	Display an error message " Username or Password is invalid. Try again." on [Login] screen
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram



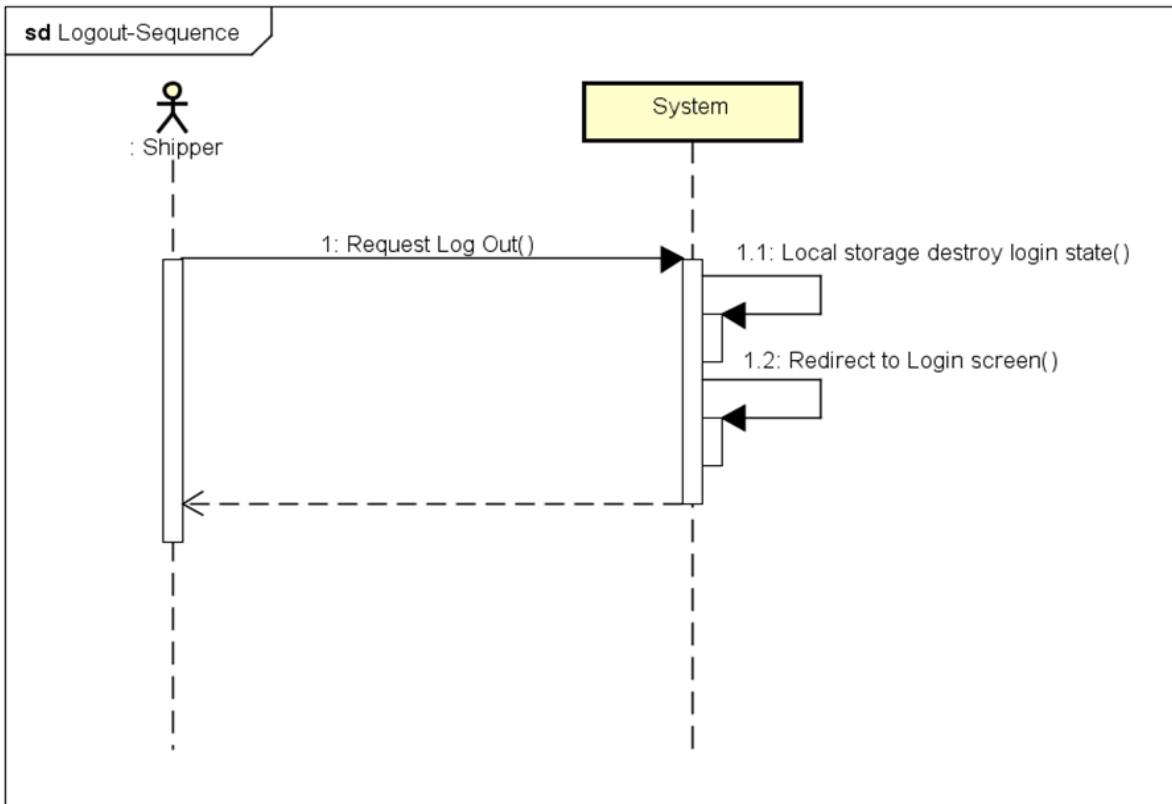
powered by Astah

UC-302: Logout

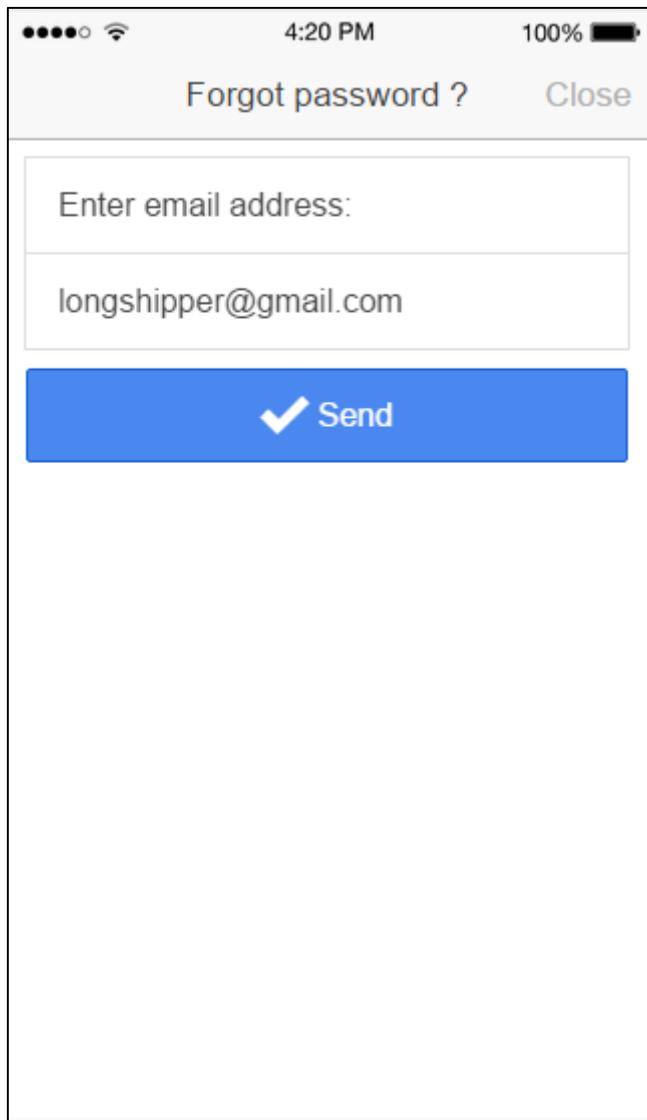
Use Case ID:	UC-302		
Use Case Name:	Logout		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last Updated:	30/09/2015
Actor:	Shipper		
Description:	When shipper finish their work they will logout of the system.		
Triggering event	Shipper wants to logout of the system.		
Preconditions:	<ul style="list-style-type: none"> - To be logged in the system - Internet connection is established. 		
Post - conditions:	<ul style="list-style-type: none"> - The connection to the server is terminated. 		
Priority:	High		

Frequency of Use:			Sometime
Main flow			
Step	Actor	Action	
1.	Shipper	Clicks “log out” button.	
2.	System	Terminates the connection. Local storage destroy login state.	
3.	System	Redirects to “Login” screen of application	
Alternative Flows:		N/A	
Exceptions:		N/A	
Includes:		N/A	
Special Requirements:		N/A	
Notes and Issues:		N/A	

- **Sequence Diagram:**



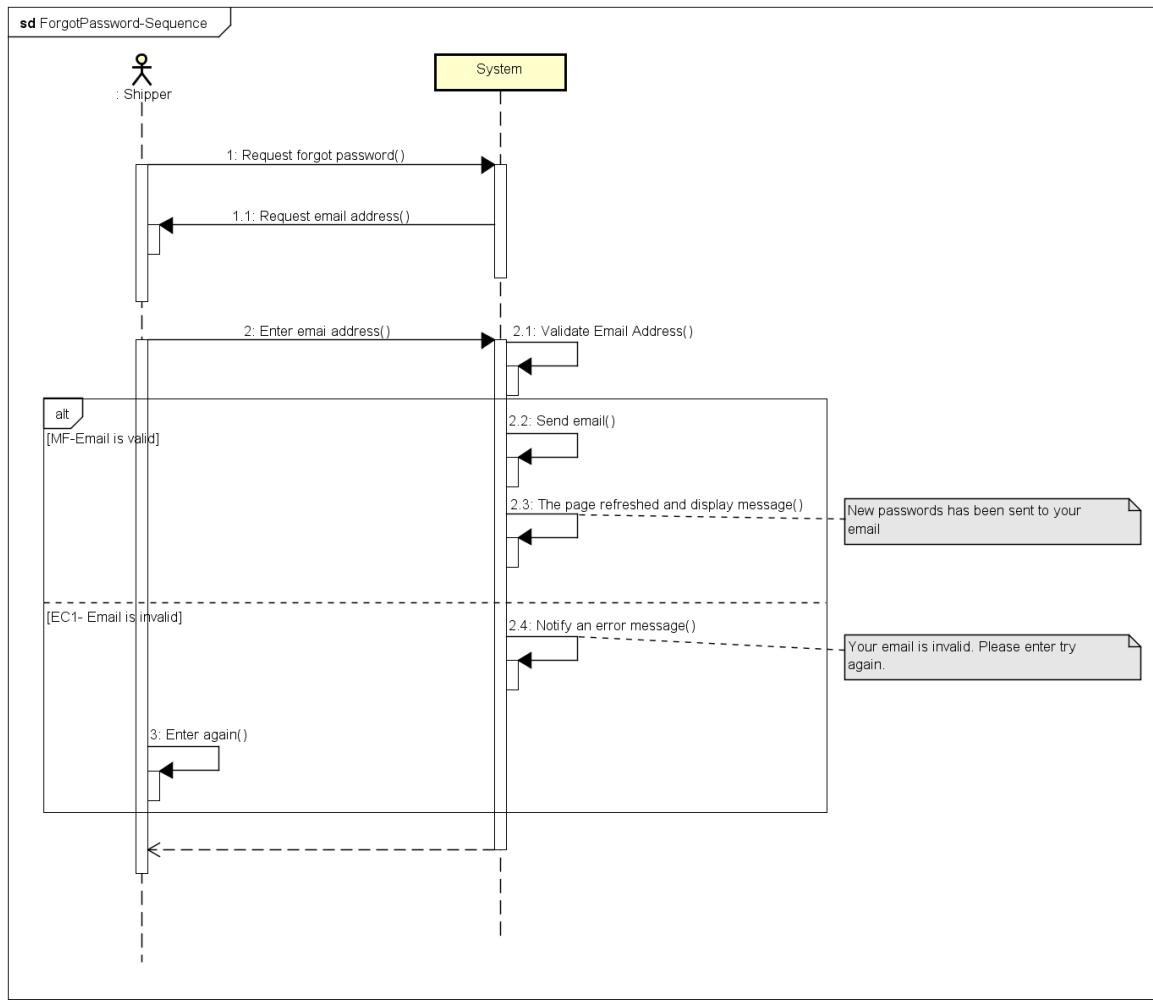
powered by Astah

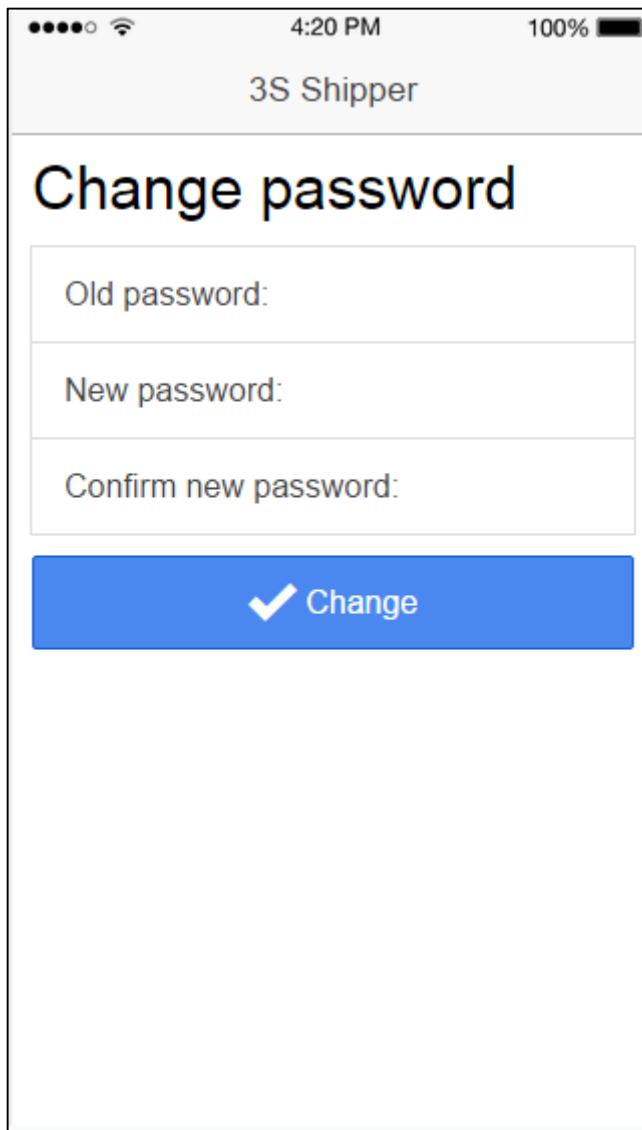
UC-303: Forgot password

Use Case ID:	UC-303		
Use Case Name:	Forgot password		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last Updated:	30/09/2015
Actor:	Shipper		
Description:	<ul style="list-style-type: none"> - When shipper wants to login into system but they forgot their password. Shipper wants reset their password. They will receive a new password via their email address. 		
Triggering event	<ul style="list-style-type: none"> - Shipper forgot password and they wants to reset their password. 		
Preconditions:	<ul style="list-style-type: none"> - To have internet connection through device. 		

	- Shipper haven't logged in to the system yet. - On "Login" screen	
Post - conditions:	- New password is sent to email of shipper	
Priority:	High	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Shipper	Clicks "Forgot password"
2.	System	A new page 'Forgot password' appears.
3.	Shipper	Enter email address used for registration. Shipper clicks the [Send] button.
4.	System	Validate Email Address.
5.	System	Send new password via email address of shipper
6.	System	The page is refreshed. The message is displayed: "New passwords has been sent to your email"
Alternative Flows:		
Exceptions:		
EC1	At step 4, if email is invalid	
Step	Actor	Action
4.1	System	Notify in screen with error message "Your email is invalid. Please enter try again."
Includes:		
Special Requirements:		
Special Requirements: Email Address: A string from 1 to 244 characters in length, can contain any kind of characters, followed by "@gmail.com". (Ex: longshipper@gmail.com). Cannot be null.		
Notes and Issues:		

Sequence Diagram

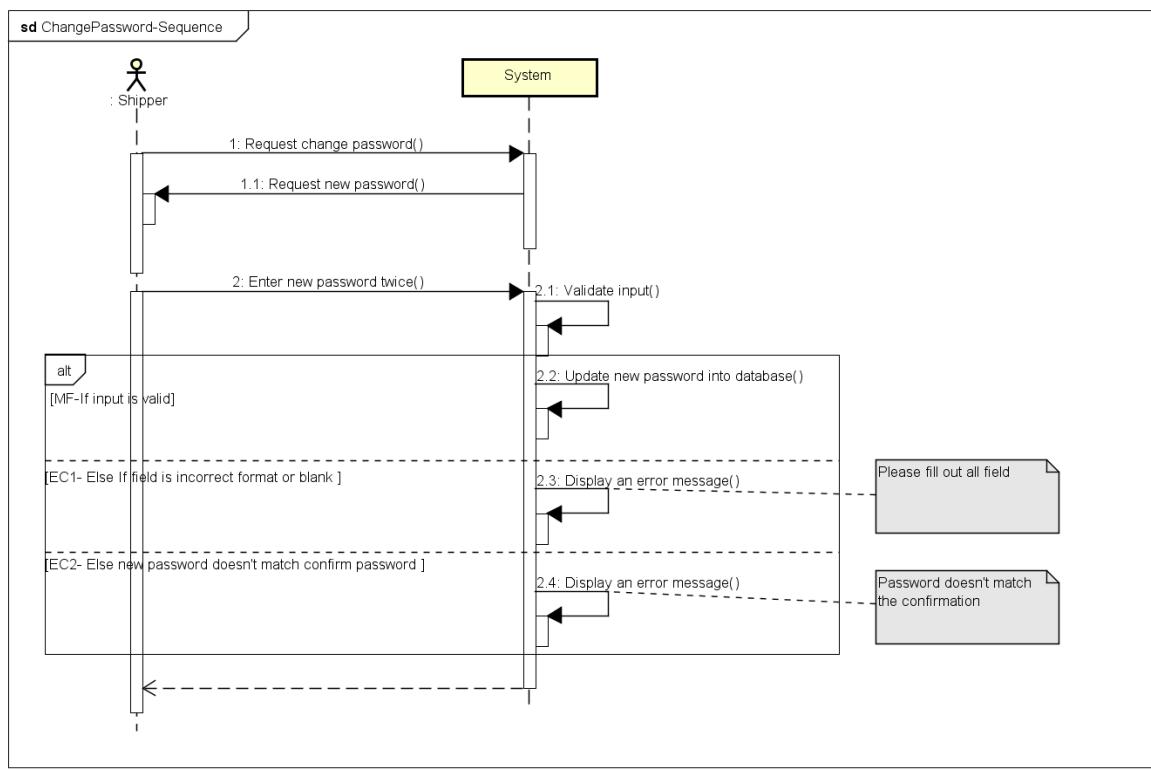


UC-304: Change password

Use Case ID:	UC-304		
Use Case Name:	Change password		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last Updated:	30/09/2015
Actor:	Shipper		
Description:	If shipper forgot their password and would like to change their password for security reasons.		
Triggering event	Shipper wants to change password.		
Preconditions:	<ul style="list-style-type: none"> - To have internet connection through device - To be logged in the system - Switch to “Profile” screen 		
Post - conditions:	<ul style="list-style-type: none"> - New password stored in database. Shipper changes password is successfully 		

Priority:	High	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1.	Shipper	Clicks “Change Password” button
2.	System	“Change Password” screen shows up.
3.	Shipper	Enter required information (Old Password, new password, confirm new password) and clicks “Change” button.
4.	System	Validate input information.
5.	System	Update new password of this account to database and redirects to the “Profile” screen.
Alternative Flows:		N/A
Exceptions:		
EC1	At step 4, if any field is incorrect format or blank	
Step	Actor	Action
4.1	System	Notify in screen with a message “Please fill out all field” on “Change Password” screen.
EC2	At step 4, if shipper provides new password doesn't match the confirmation password	
Step	Actor	Action
4.1	System	Display an error message “Password doesn't match the confirmation” on “Change password” screen.
Includes:		N/A
Special Requirements:		<p>Old Password: Cannot be null.</p> <p>New Password: Minimum of password is 7 character and needs at least one number.</p> <p>Re-Enter Password: Cannot be null.</p>
Notes and Issues:		N/A

Sequence Diagram:



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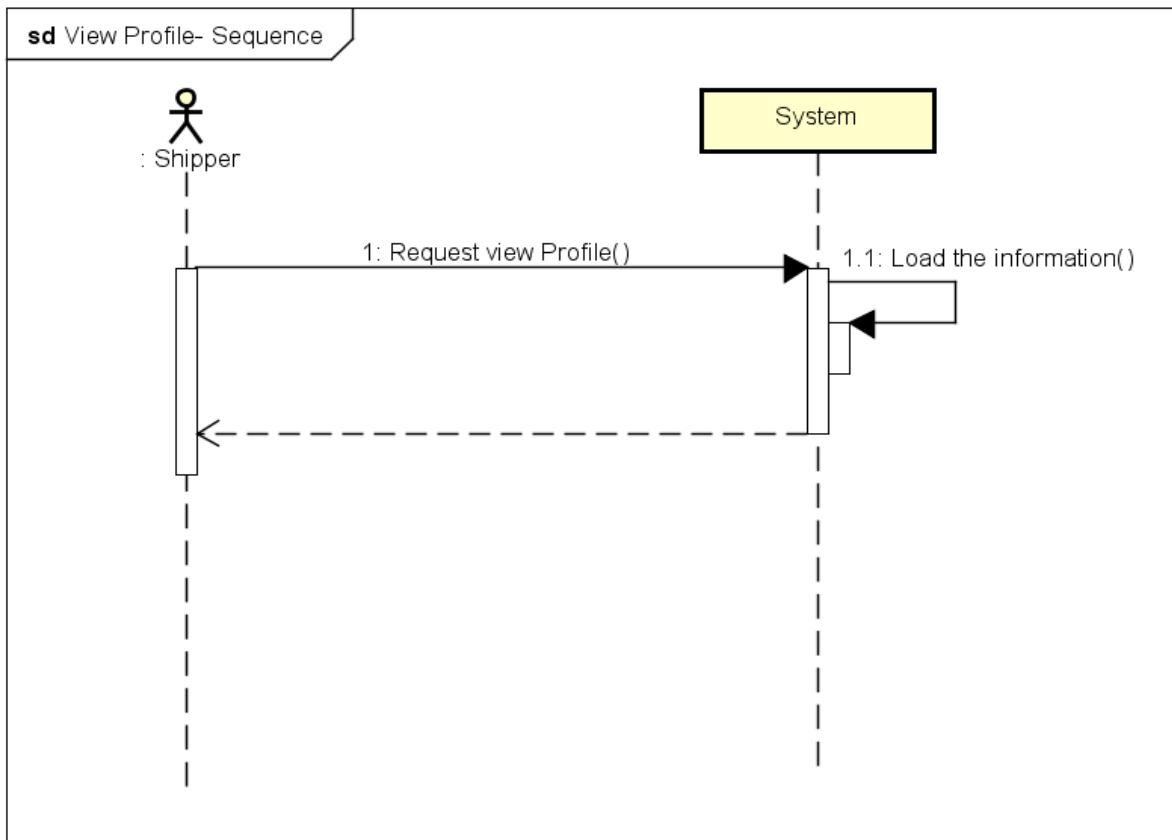
UC-305: View Profile

Shipper's information

👤 Name:	Nguyen Van Long
📅 Date of Birth:	20/10//1993
>ID Card:	1888 232 777
📞 Phone Number:	0982 767 666
✉ Email:	longshipper@gmail.com
🏡 Address:	Tan Quang - Ha Noi

Use Case ID:	UC-005		
Use Case Name:	View Profile		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last updated:	30/09/2015
Actor:	Shipper		
Description:	Shipper can view his/her information. Such as Name, Date of Birth, Identity Card, Phone Number, Email, Address.		
Triggering event	Shipper wants to view Profile		
Preconditions:	<ul style="list-style-type: none"> - To have internet connection through a device - To be logged in the system 		
Post conditions:	The information of current logged in will appear in the [Profile] screen.		
Priority:	High		
Frequency of Use:	Sometime		
Main flow			

Step	Actor	Action
1	Shipper	Clicks “Profile” button in left navigate bar
2	System	Load information of shipper and Display “Profile” screen
Alternative Flows:		N/A
Exceptions:		
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A



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Sequence Diagram:

UC-306: Update Profile

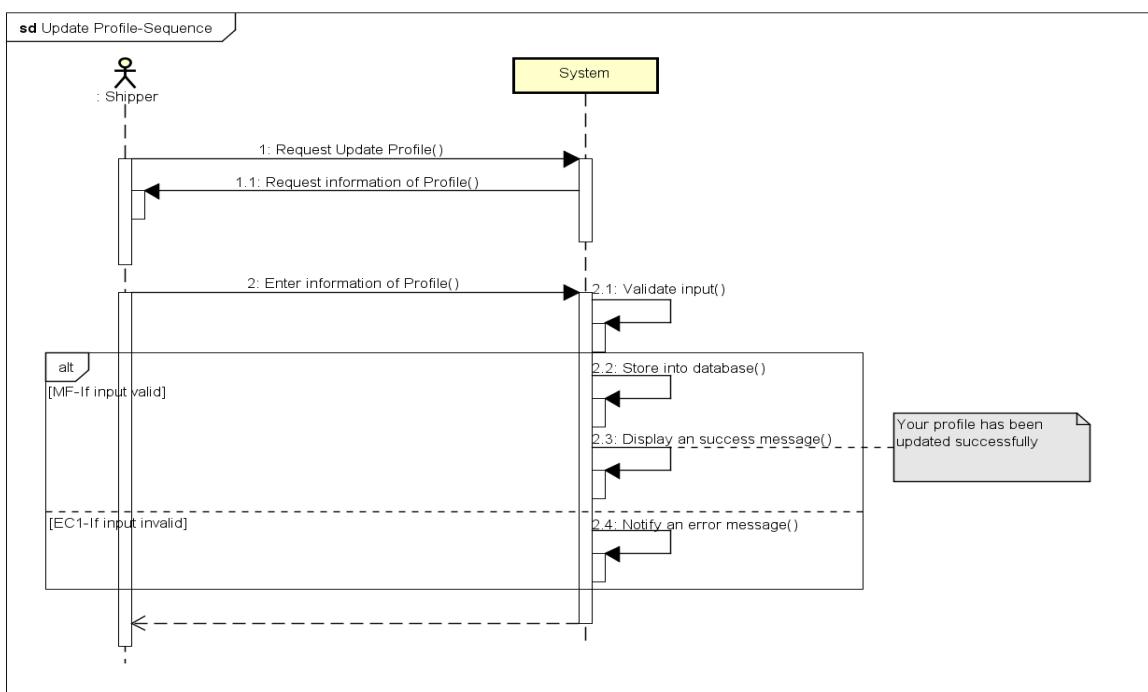
Update

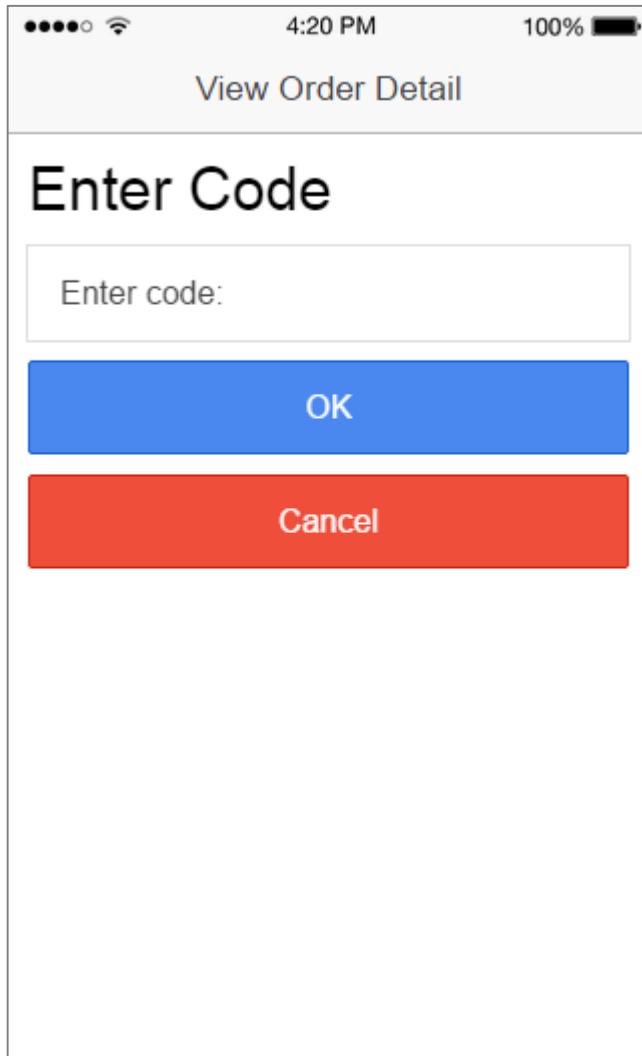
Name: Nguyen Van Long 1
Date of Birth: 20/10//1993
Identity Card: 1888 232 777
Phone Number: 0982 767 666
Email: longshipper@gmail.com
Address: Tan Quang - Ha Noi
Save

Use Case ID:	UC-006		
Use Case Name:	Update Profile		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last updated:	30/09/2015
Actor:	Shipper		
Description:	When Shipper change personal information. They can modify their related information (Email, Date of Birth, Phone Number, Identity Card, Address)		
Triggering event	Shipper wants to update profile		
Preconditions:	<ul style="list-style-type: none"> - To have internet connection through a device - To be logged in the system - Switch to [Profile] screen. 		
Post conditions:	Update new information in database. Update Profile is		

		successfully.
Priority:	Low	
Frequency of Use:	Sometime	
Main flow		
Step	Actor	Action
1	Shipper	Clicks [Edit Profile] button
2	System	Display [Edit profile] screen
3	Shipper	Enter required information (Name, Email, Phone Number, Identity Card, Date of Birth, Address)
5	System	Validate input
6	System	Store new information of Shipper into database
7	System	Display an success message “ Your profile has been updated successfully”
Alternative Flows:		N/A
Exceptions:		
EC1	At step 5	If any required field is not entered
Step	Actor	Action
5.1	System	Notify an error message “*is require”
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram:

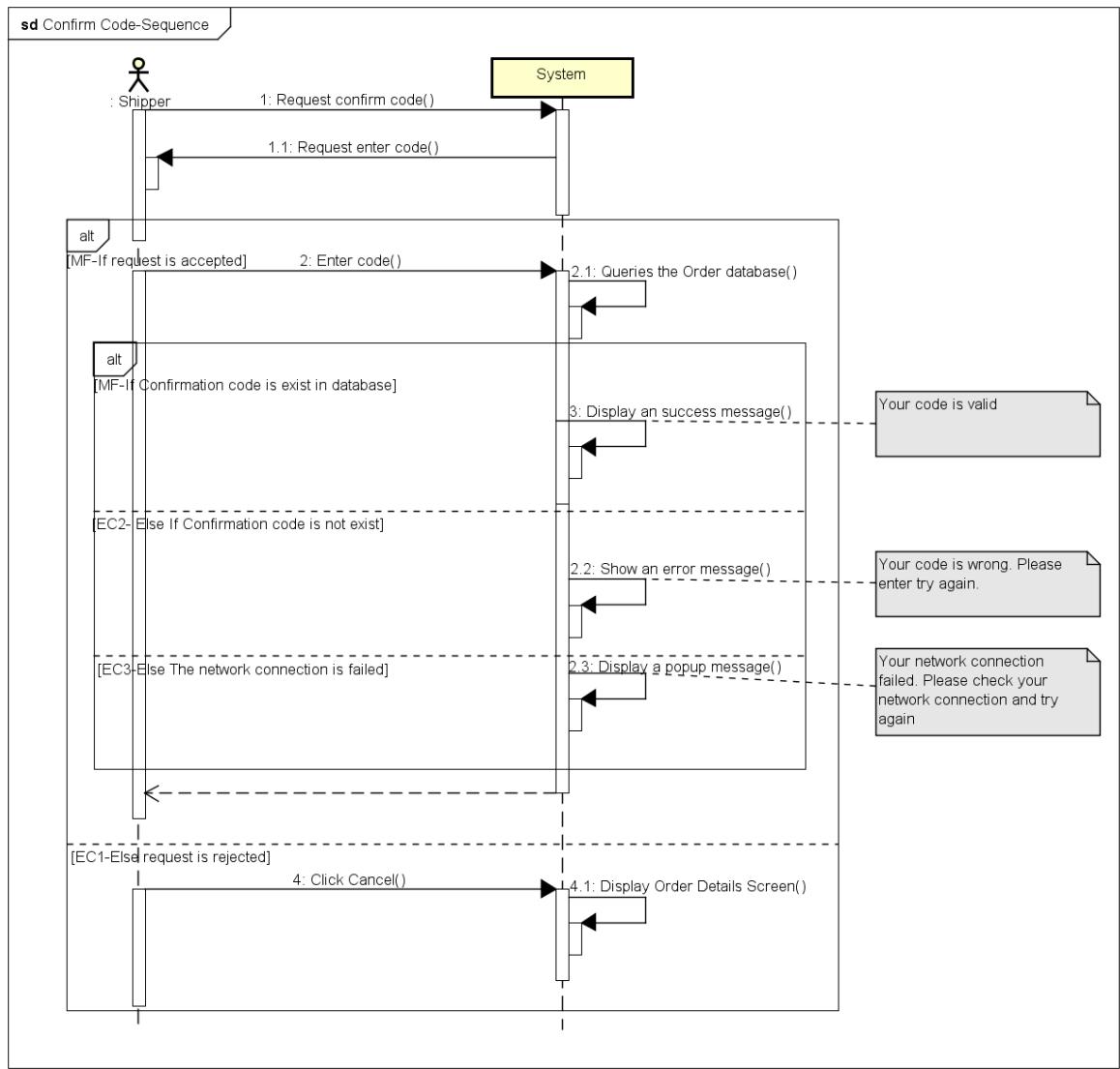


UC-307: Confirm Code

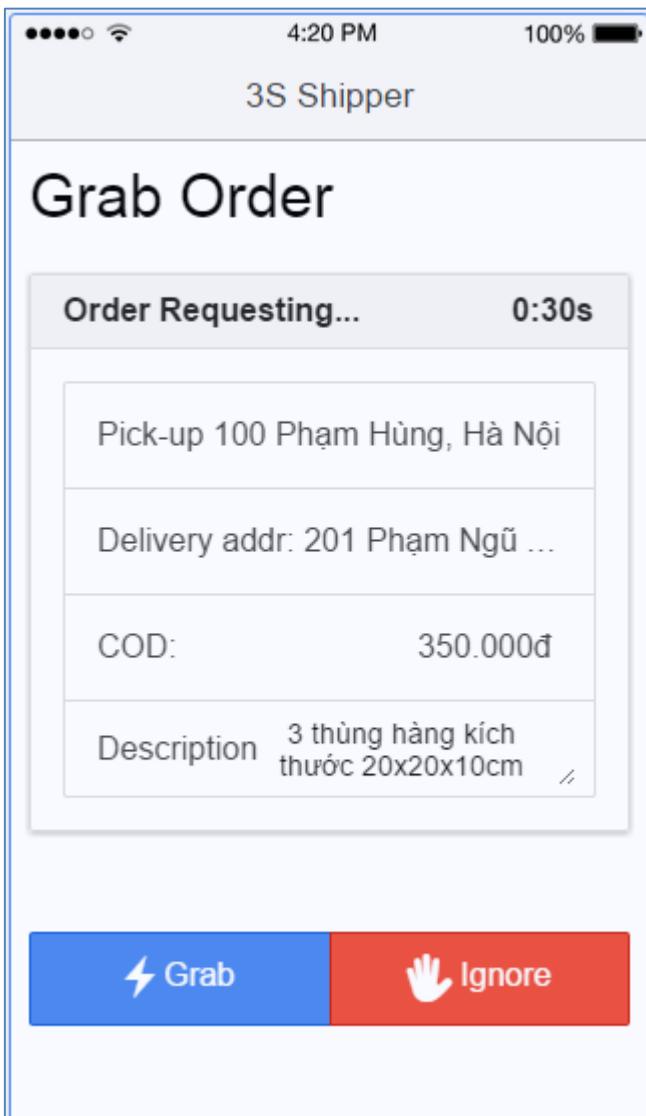
Use Case ID:	UC-007		
Use Case Name:	Confirm Code		
Created By:	QuyenNV	Last Updated By:	QuyenNV
Date Created:	19/09/2015	Date Last updated:	30/09/2015
Actor:	Shipper		
Description:	When shipper goes to pick up order. Shipper have to provide confirmation which automatically generated by system. System auto generate confirmation code when create an order. Using a confirmation code to avoid wrong order or wrong place.		
Triggering event	Shipper wants to confirm order, store. Shipper needs to enter confirmation code.		
Preconditions:	<ul style="list-style-type: none"> - To have internet connection through a device - To be logged in the system 		

		- Switch to [View Order's Details] screen.
Post conditions:	Order's Code is confirmed	
Priority:	High	
Frequency of Use:	Always	
Main flow		
Step	Actor	Action
1.	Shipper	Clicks [Enter Code] button
2.	System	Display [Enter Code] screen
3.	Shipper	Enter code which be provided by customer and clicks "Enter" button.
4.	System	Queries the Order database
5.	System	Display an success message on [View Order's Details] screen
Alternative Flows:		N/A
Exceptions:		
EC1	At step 2, if Shipper doesn't enter confirmation code.	
Step	Actor	Action
2.1	Shipper	Taps on "Cancel" button
2.2	System	Display "View Order's Detail" screen
EC2	At step 4, if code in Order database does not exist or Order cannot establish a connection to the database due to some reasons (ex: network failure).	
Step	Actor	Action
4.1	System	An error message will show up on screen to tell the shipper about the problem
EC3	At step 4, Order cannot establish a connection to the database due to some reasons (ex: network failure).	
Step	Actor	Action
4.1	System	Display a popup message "Your network connection failed. Please check your network connection and try again" will show up on screen to tell the shipper about the problem.
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		N/A

Sequence Diagram:



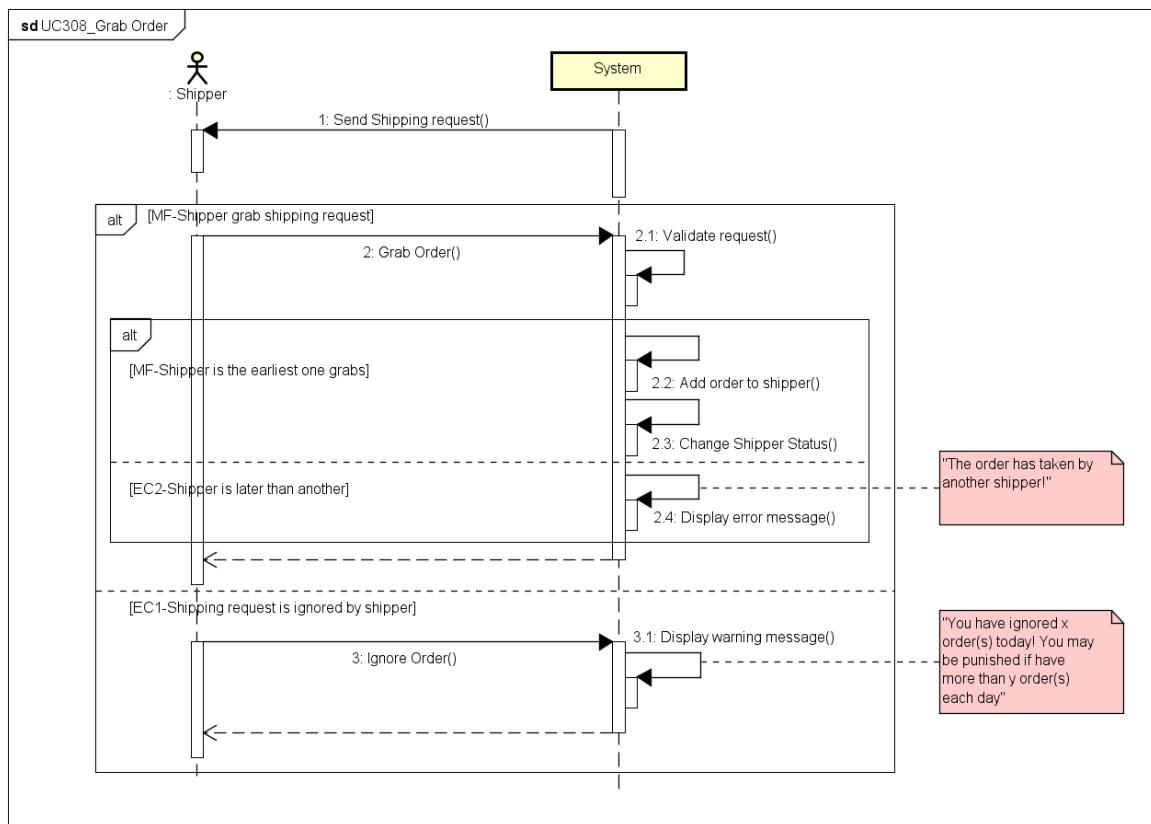
powered by Astah

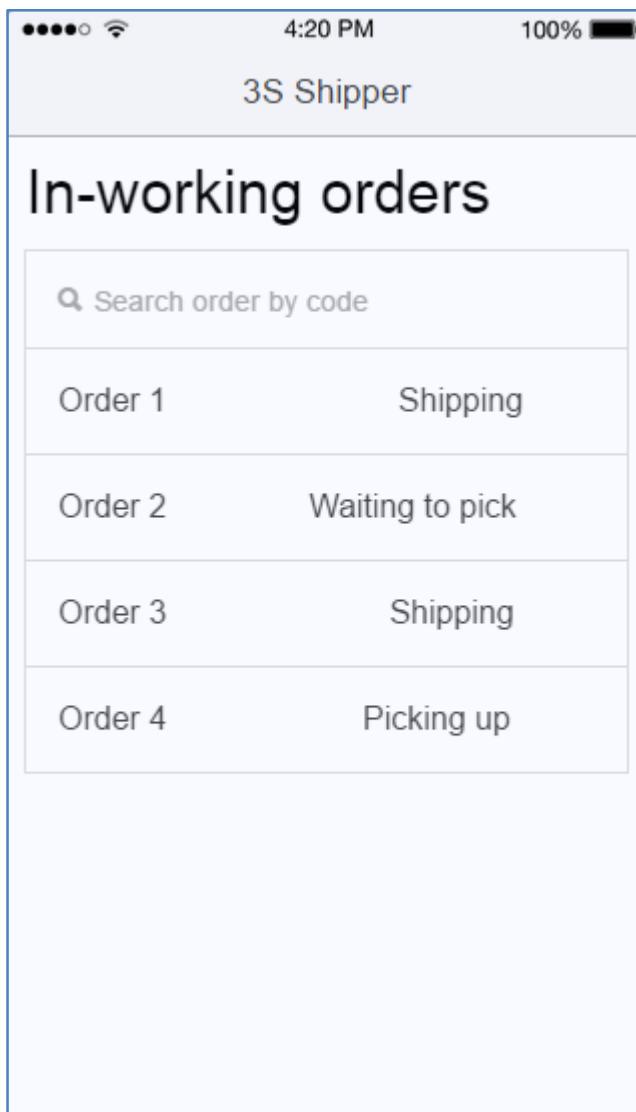
UC-308: Grab order

Use Case ID:	UC308		
Use Case Name:	Grab order		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Shipper		
Description:	When the sever concurrently sends shipping order to 5 shippers, the shipper who grabs order at the earliest time will take that order into his in working list		
Triggering Event:	Server sends shipping request to that shipper		
Pre-conditions:	Shipper logged in, internet connection is on, system is requesting to ship order		
Post-conditions:	The order has been added to shipper's working list, shipper's status has been changed to "Busy"		

Priority:	High	
Frequency of Use:	Often	
Main flow		
Step	Actor	Action
1.	System	Sends shipping request to shipper's app
2.	Shipper	Tabs on button "Grab" to take the order
3.	System	Validates whether the shipping request has been taken by another shipper or not
4.	System	Adds order to shipper's working
5.	System	Changes shipper's status to "Busy"
6.	System	Disables this request to other shippers
Alternative :		
N/A		
Exceptions:		
EC1	Shipper ignores request at step 2	
Step	Actor	Action
2.1	Shipper	Tabs on button "Ignore"
2.2	System	Shows confirm box
	Shipper	Confirms to ignore
	System	Shows warning "You have ignored x order(s) today!"
EC2	Shipper tabs on button "Grab" later than another shipper at step 2	
Step	Actor	Action
2.1	Shipper	Tabs on "Grab"
2.2	System	Shows message "The order has been taken by another shipper!"
Includes:		
Special Requirements:		
Shipper who receives shipping request is in top 5 nearest available ones from the store of that order.		
Notes and Issues:		
N/A		

Sequence Diagram



UC309: View Orders List

Use Case ID:	UC309		
Use Case Name:	View orders list		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	25/09/2015
Actor:	Shipper		
Description:	Shipper sees the list of his in-working orders (all of his undone orders will be displayed here)		
Triggering Event:	Shipper wants to see all orders that he has to do		
Preconditions:	Shipper logged in		
Post conditions:	List in-working orders of this shipper is showed		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	

1.	Shipper	expands menu bar and tabs on “In-working orders”
2.	System	loads all data about in-working orders of that shipper
3.	System	shows list in-working orders as a table, includes content: - Order code - Current Status

Alternative Flows:

N/A

Exceptions:

EC1	Current in-working orders of that shipper is empty at step 3
-----	--

Step	Actor	Action
3.1	System	Displays info message “You don’t have any order that have to work now!”

Includes:

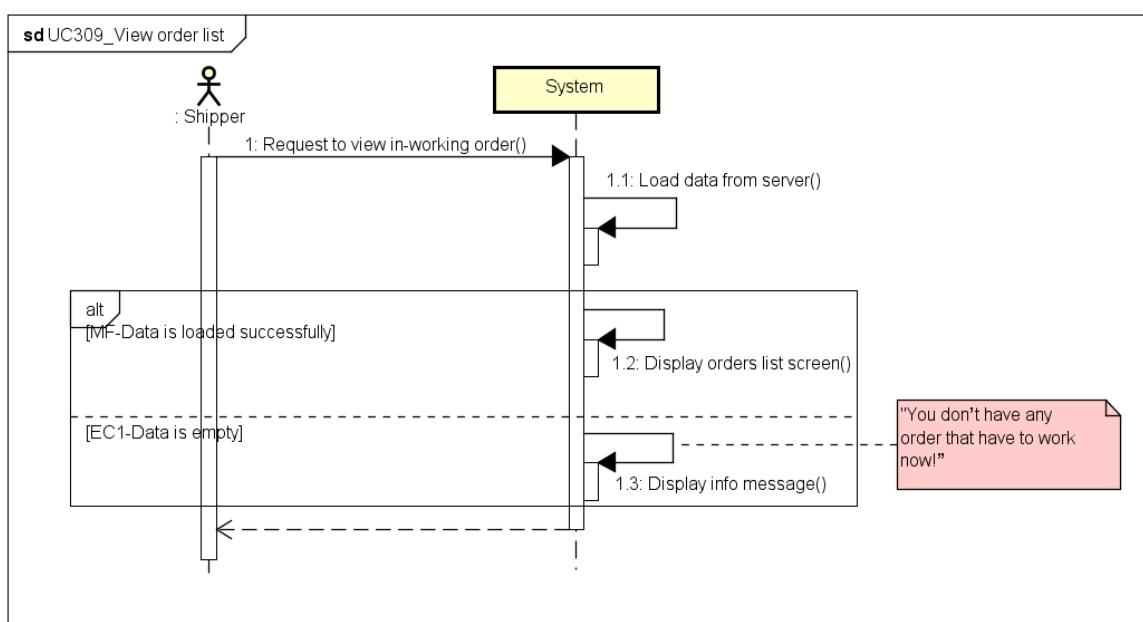
N/A

Special Requirements:

N/A

Notes and Issues:

N/A

Sequence Diagram

UC310: Search Order

Use Case ID:	UC310		
Use Case Name:	Search order		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	25/09/2015
Actor:	Shipper		
Description:	Shipper enters full or a part of order code to search order(s) from list of many orders.		
Triggering Event:	Shipper want to find a specific order(s) by code		
Preconditions:	Shipper on View Orders List: UC309 (See above)		
Post conditions:	Orders that match search condition will be displayed		
Priority:	Normal		
Frequency of Use:	Sometimes		

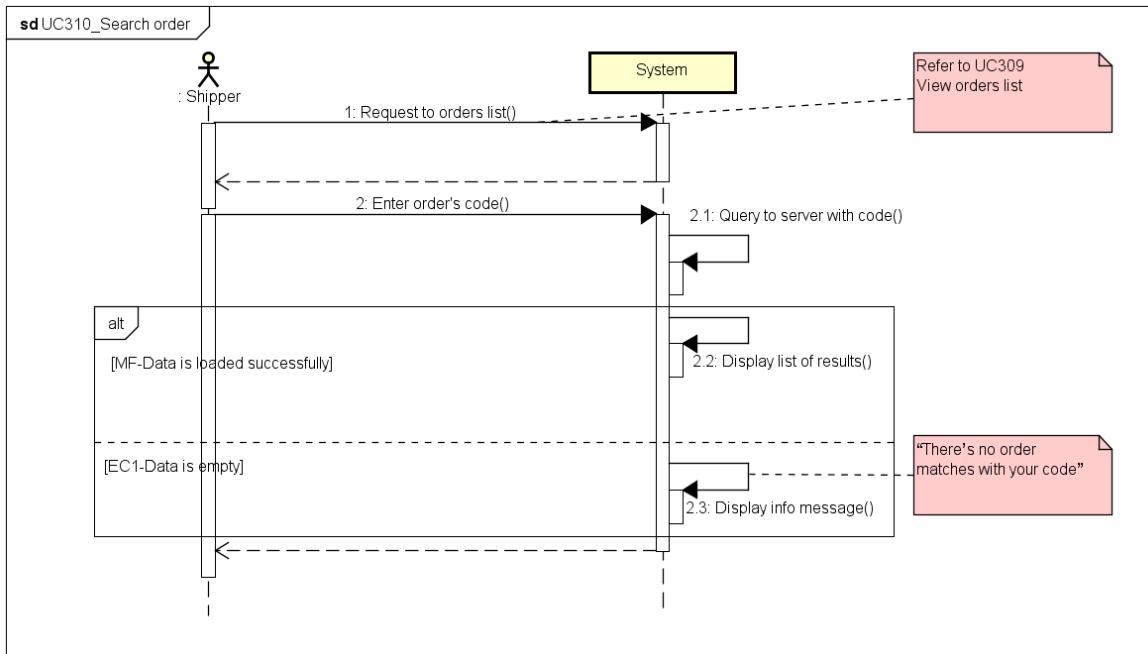
Main flow

Step	Actor	Action
1.	Shipper	Goes to “View orders list” screen (refer to UC309 View order list)
2.	Shipper	Types order’s code to search box
3.	System	Filters orders data from current list
4.	System	Displays all in-working orders that match with search key

Alternative Flows:**Exceptions:**

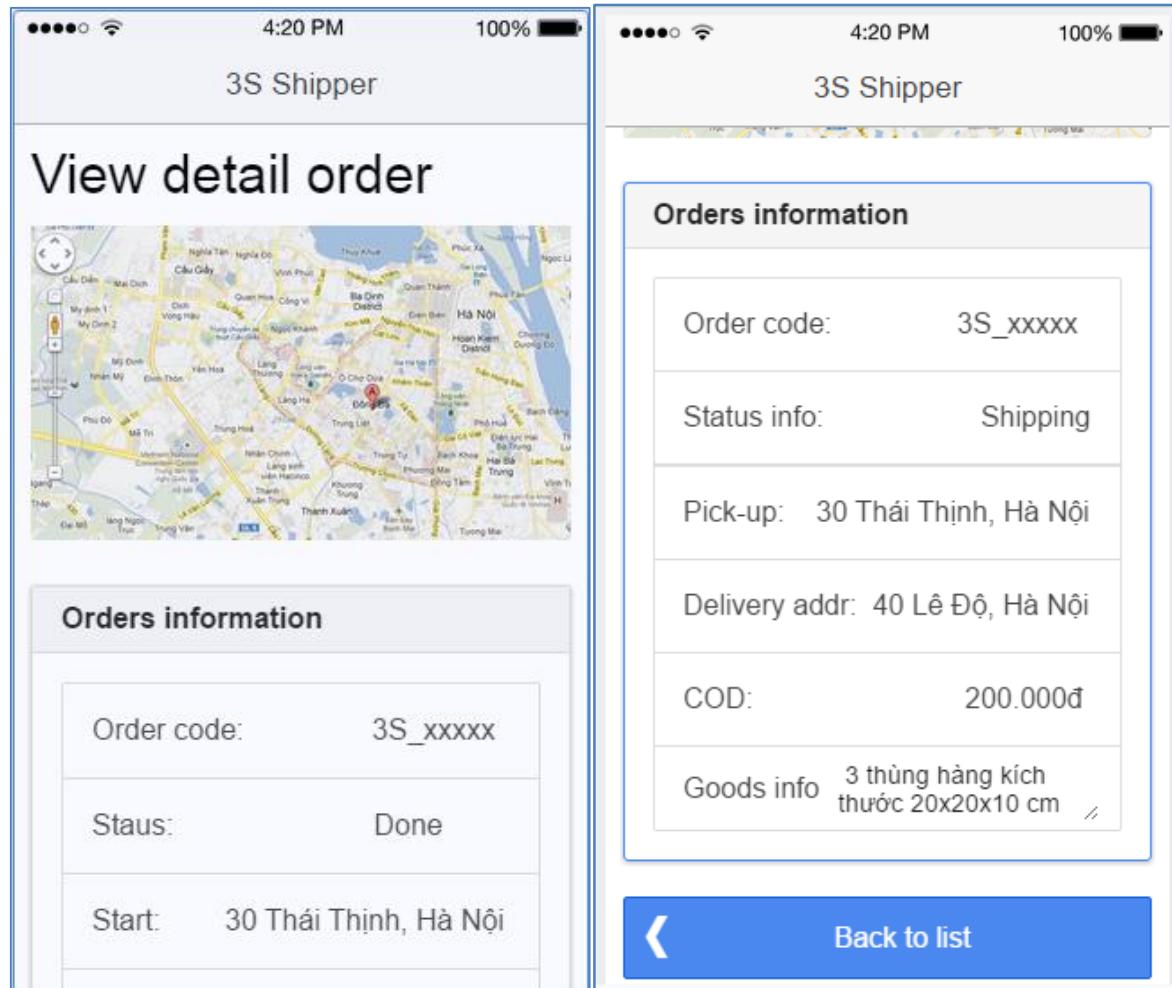
EC1	There’s no order matches with code which is entered by shipper	
Step	Actor	Action
3.1	System	Displays info message “There’s no order matches with your code”
Includes:		N/A
Special Requirements:		Order code has format 3Sxxxxxx but shipper no need to enter 3S prefix of code Case insensitive search
Notes and Issues:		Code format will be defined in the later phrase

Sequence Diagram



UC311: View Order's Detail

Mockup Design



Use Case ID:	UC311		
Use Case Name:	View order's detail		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	25/09/2015
Actor:	Shipper		
Description:	Shipper views detail information of an order. This order could be selected from “In-working orders” screen or from “Working History” screen of the shipper.		
Triggering Event:	Shipper wants to see order's detail information		
Preconditions:	Shipper is on list orders screen or working history screen		
Post conditions:	Detail information of that order is displayed		
Priority:	High		
Frequency of Use:	Always		
Main flow			
Step	Actor	Action	
1.	Shipper	Enters “In-Working Orders” screen (Refer to UC309 above)	

2.	Shipper	Tabs on “View detail” of that order from the list
3.	System	Loads detail info of that order from server
4.	System	Displays the detail information of order, includes: <ul style="list-style-type: none"> - Order code - Order status - Pick-up address - Delivery address - COD (cast on delivery amount) - Products information

Alternative Flows:::

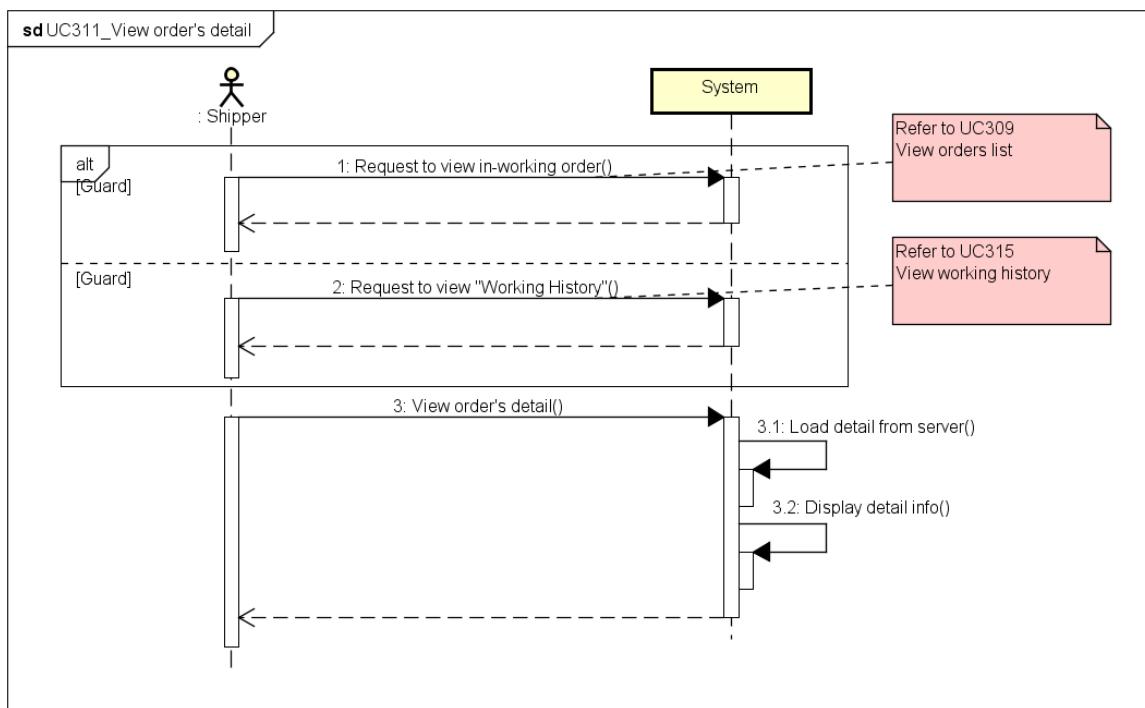
AT1 Shipper views detail from history:

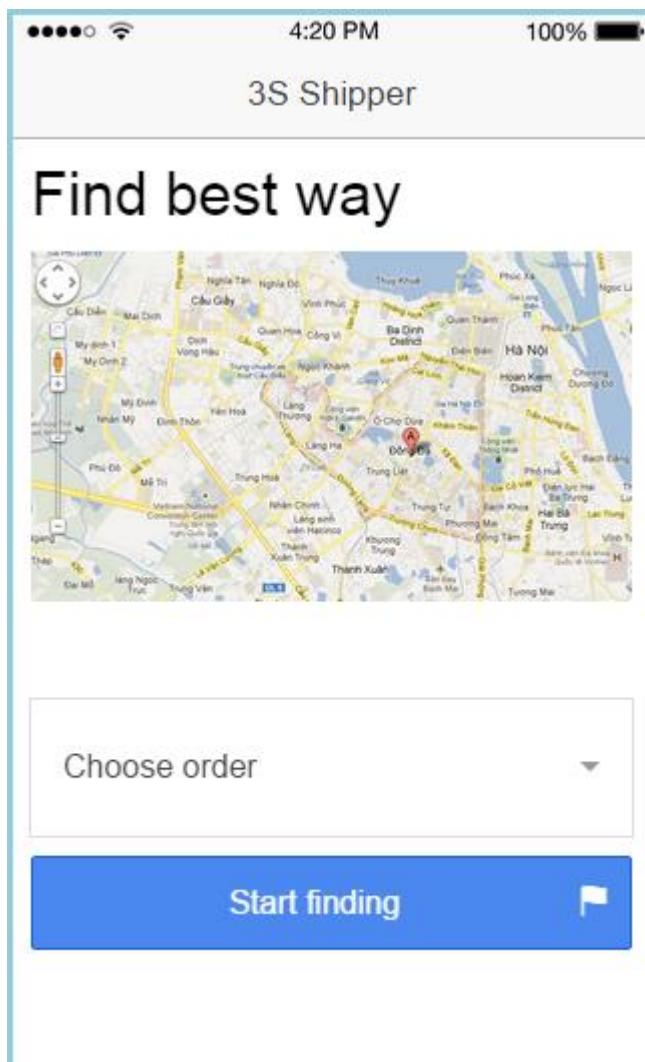
Step	Actor	Action
1.1	Shipper	Accesses “History” screen
1.2	Shipper	Tabs on an order from the list
		Go to step 3 of main flow

Exceptions:

N/A

Includes:	N/A
Special Requirements:	N/A
Notes and Issues:	N/A

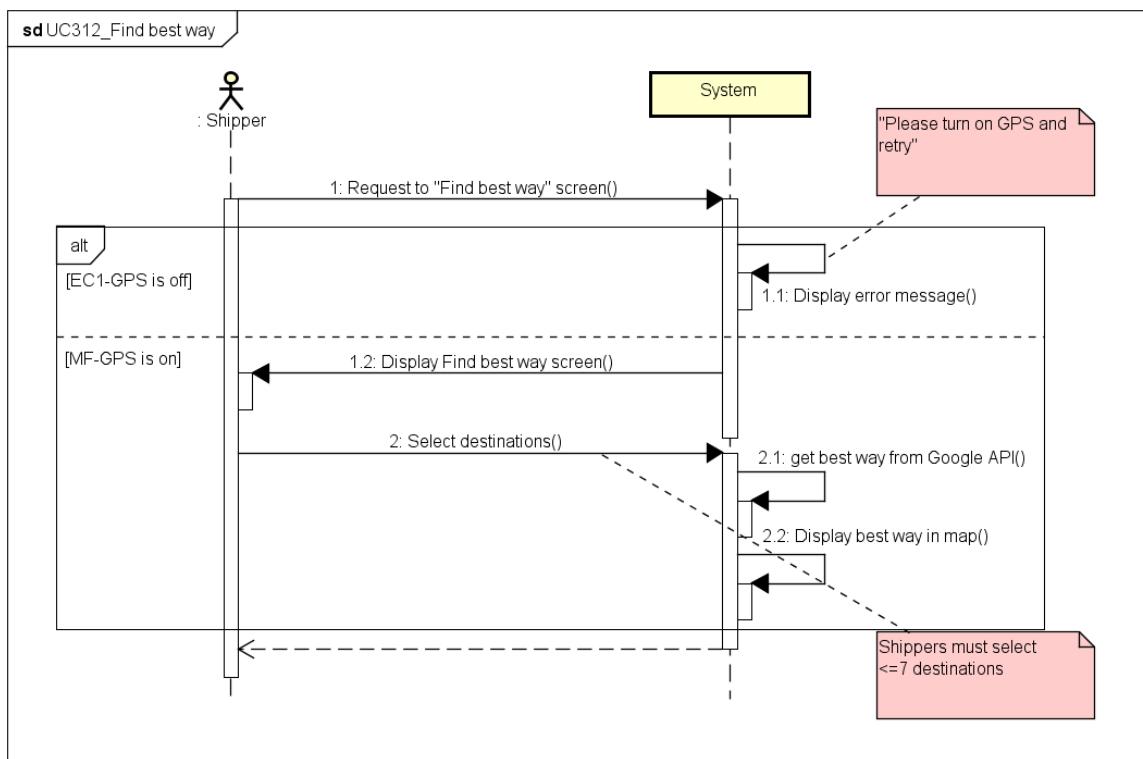
Sequence Diagram

UC312: Find Best Way

Use Case ID:	UC312		
Use Case Name:	Find best way		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	25/09/2015
Actor:	Shipper		
Description:	Shipper uses 3S system to find out the shortest way to go to destinations. A path, which goes through all the selected descriptions and has least duration, will be drawn on the map.		
Triggering event:	Shipper wants to find best way to go for his in-working orders.		
Preconditions:	Shipper logged in Internet connection is on GPS is on		
Post conditions:	The shortest way that go through all selected destinations		

		will be displayed on map.
Priority:	High	
Frequency of Use:	Always	
Main flow		
Step	Actor	Action
1.	Shipper	Selects “Find best way” from menu
2.	System	Shows “Find best way” screen, includes: - Google map - Destinations select box - “Find” button
3.	Shipper	Chooses one or all destinations
4.	Shipper	Tabs on “Find”
5.	System	Call Google API to get the best way
6.	System	Displays the shortest way to destinations on the map
Alternative Flows:		N/A
Exceptions:		
EC1	At step 1 if GPS is off	
Step	Actor	Action
1.1	System	System displays message “Please turn on GPS and retry”
1.2	Shipper	Shipper turn on GPS
		Go to step 2 of main flow
Includes:		
Special Requirements:		
Notes and Issues:		

Sequence Diagram



UC313 Send Issue's Information

Use Case ID:	UC313		
Use Case Name:	Send issue's information		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	19/09/2015
Actor:	Shipper		
Description:	Shipper sends issues to Admin to solve. Issue's content will contain the most important information such as category of issue, the orders which this issue influents and a short description from shipper.		
Triggering Event:	Shipper got issues and need to send to Admin		
Preconditions:	Shipper logged in		
Post conditions:	Issue has been sent to Admin Notification about issue has been display in admin's screen		
Priority:	High		
Frequency of Use:	Sometimes		

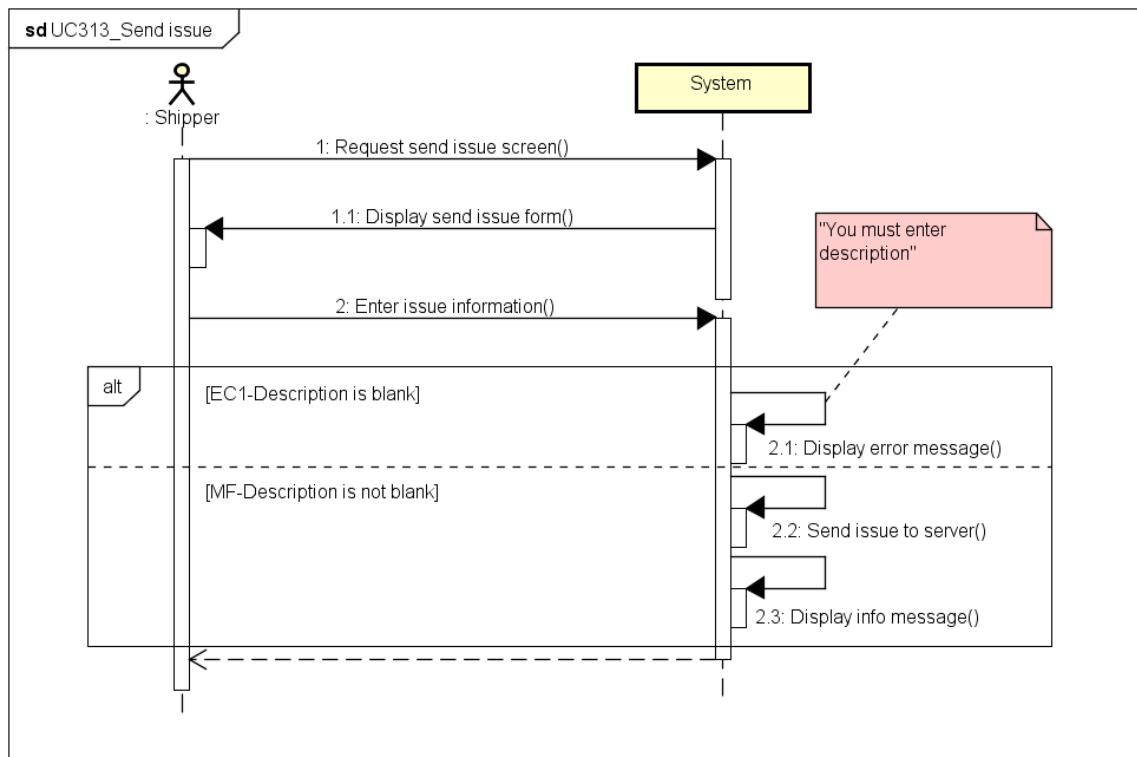
Main flow

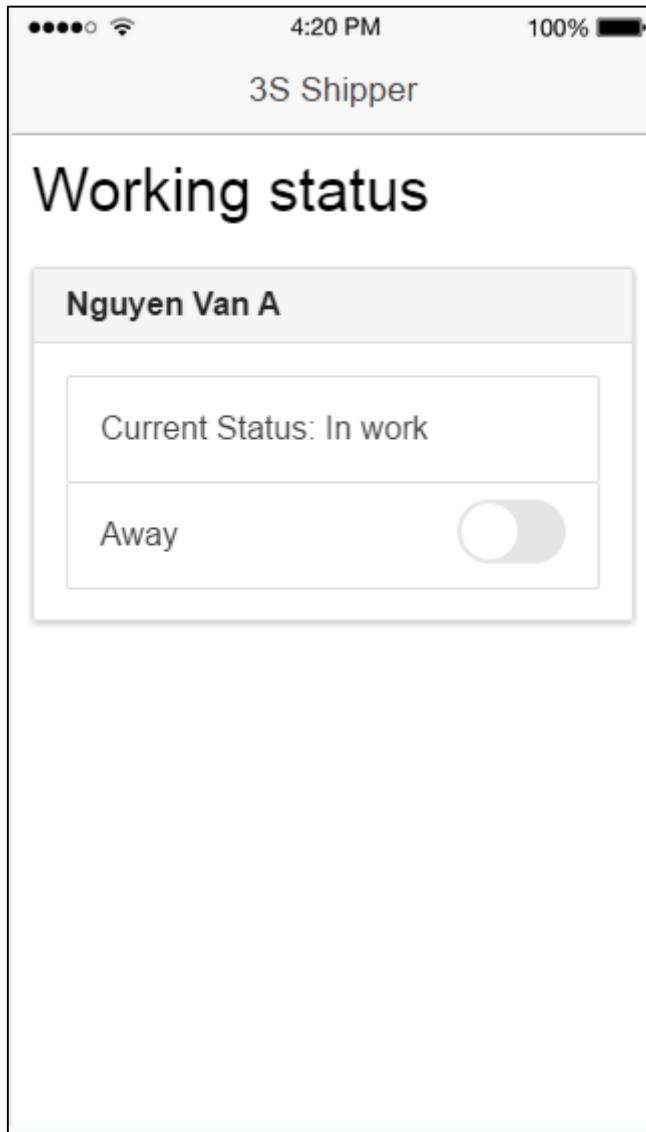
Step	Actor	Action
1.	Shipper	Chooses "Send Issue" from Menu
2.	System	Displays "Send Issue Box", includes: - "Issue Category" selected box (Vehicle, Time, Goods, Customer, Other) - "Order" multi-selected box
3.	Shipper	Types "Description", chooses "Issue Category", and could select one or all of his in-working orders.
4.	Shipper	Tabs on "Send"
5.	System	Shows message "Issue has sent to system. Wait for Admin to solve"
6.	System	Sends notification to admin about issue
Alternative Flows:		N/A

Exceptions:

EC1	At step 3, shipper doesn't enter description	
Step	Actor	Action
1.1	System	System displays message "You must enter description"
1.2	Shipper	Shipper re-enter description
	Go to step 4 of main flow	
Includes:		N/A
Special Requirements:		N/A
Notes and Issues:		Issue description should have 30 - 250 characters

Sequence Diagram

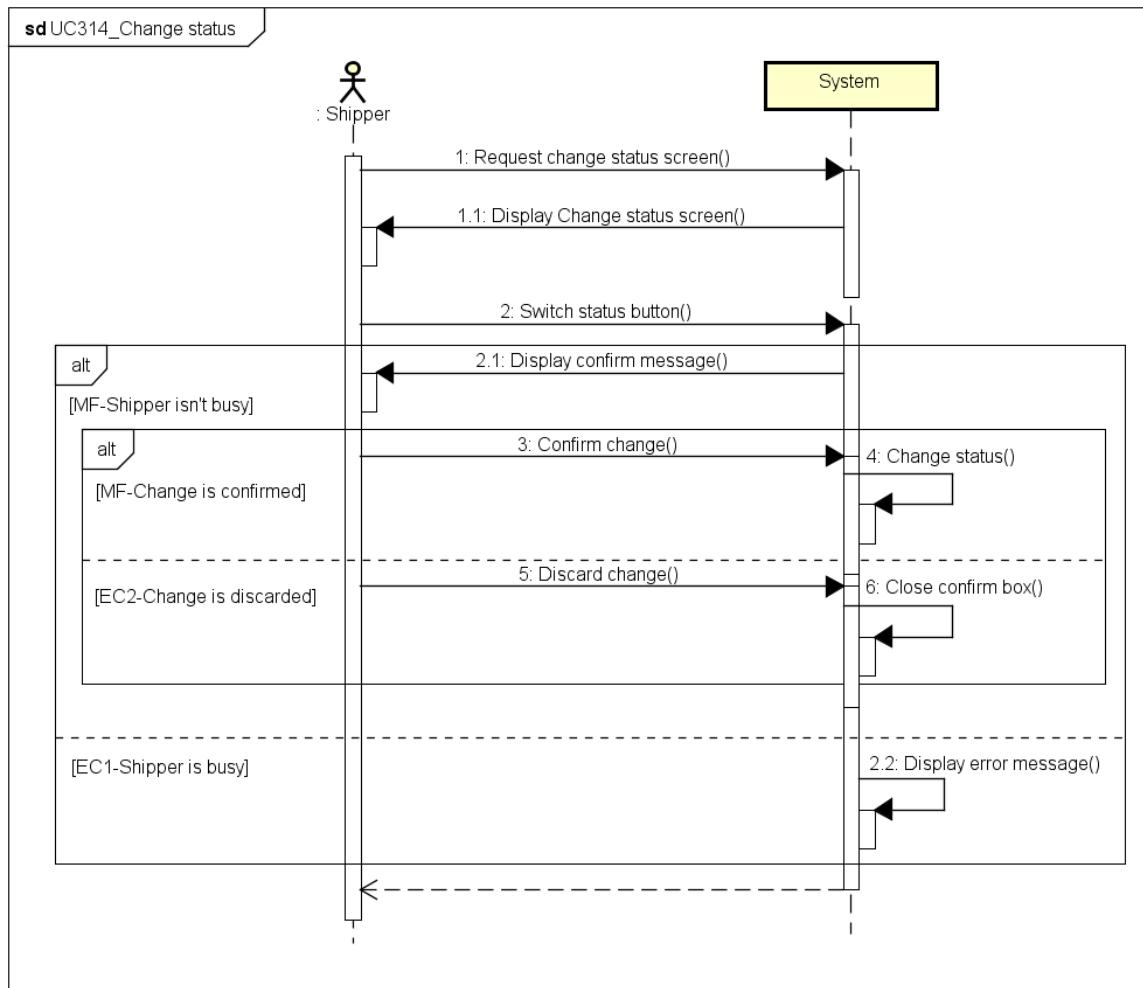


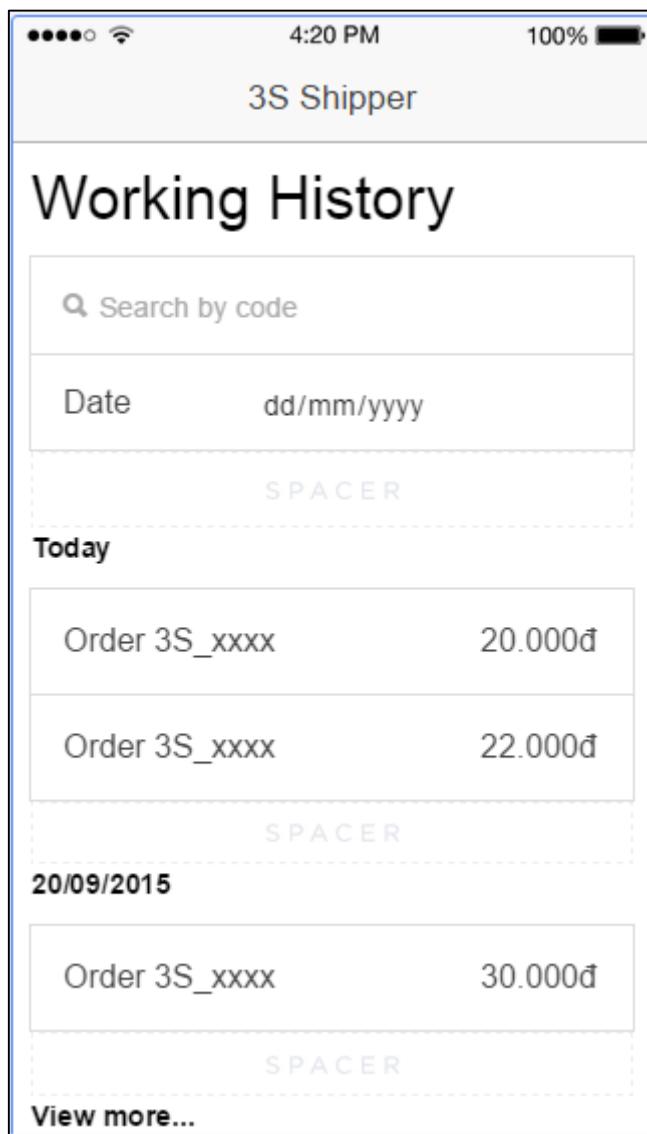
UC314 Change Working Status

Use Case ID:	UC314		
Use Case Name:	Change working status		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	20/09/2015
Actor:	Shipper		
Description:	Shipper changes his working status "On working" / "Away". The system will depend on this status to decide to send shipping request to the shipper or not.		
Triggering Event:	Shipper want to switch his status between ready to work or not ready.		
Preconditions:	Shipper logged in Shipper current status is not "Busy"		
Post conditions:	Working status changed to "On working" / "Away"		
Priority:	Normal		

Frequency of Use: Sometimes		
Main flow		
Step	Actor	Action
1.	Shipper	Shipper expands menu bar and tabs on "Change status"
2.	System	System displays current status "On working" or "Away"
3.	Shipper	Shipper switches status button
4.	System	System shows confirm message "Confirm change your status to [ABC]" ([ABC] is "On working" or "Away")
5.	Shipper	Shipper tabs on "Confirm"
6.	System	System changes the status
Alternative Flows: N/A		
Exceptions:		
EC1	Shipper is on the way to ship some orders	
Step	Actor	Action
1	System	System displays current status "Busy"
2	Shipper	Shipper tabs on "Change"
	System	System shows message "You can't change status while shipping. Complete all in-working orders or contact to Admin"
Includes: N/A		
Special Requirements: N/A		
Notes and Issues: Change status should have time		

Sequence Diagram

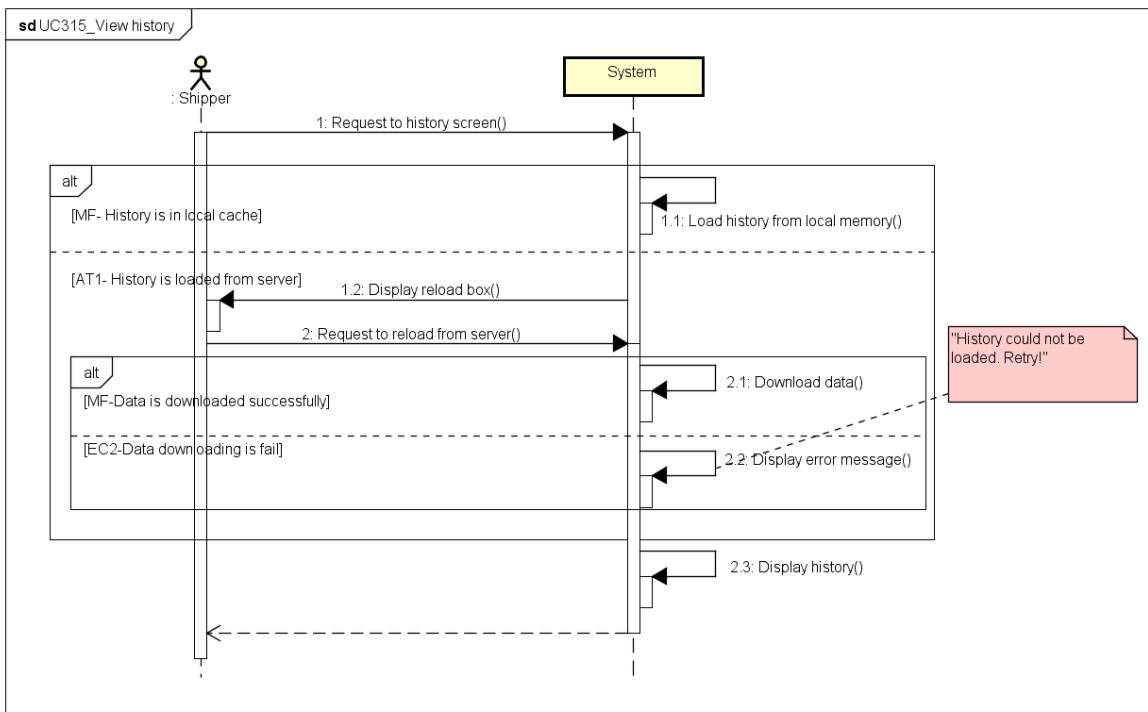


UC315 View History

Use Case ID:	UC315		
Use Case Name:	View history		
Created By:	HuyTDH	Last Updated By:	HuyTDH
Date Created:	19/09/2015	Date Last updated:	26/09/2015
Actor:	Shipper		
Description:	Shipper views his working history to know how much salary and bonus money he will get base on amount of his done orders.		
Triggering Event:	Shipper wants to review history		
Preconditions:	Shipper logged in		
Post conditions:	Working history of that shipper will be displayed		
Priority:	High		
Frequency of Use:	Often		

Main flow		
Step	Actor	Action
1.	Shipper	Shipper chooses “History” from menu
2.	System	System load history saving in device memory
3.	System	System displays working history of that shipper, also includes bellow feature: <ul style="list-style-type: none"> - Date filter - Order code filter - List of history orders - “View more” link if there more orders is not yet displayed
Alternative Flows:		
AT1	At step 2, working history in device was cleared and shipper has to load from server	
Step	Actor	Action
2.1	System	System shows message “Can’t find working history. Reload from server?”
2.2	Shipper	Shipper tabs on “Reload”
2.3	System	Load history log from server and save to device
		Go to step 3 of main flow
N/A		
Exceptions:		
EC1	At step 2.2 of Alternative 1 history can’t be loaded from server	
Step	Actor	Action
2.2.1	System	Displays error message ““History could not be loaded. Retry!””
Includes:		
Special Requirements:		
Default will display last 20 orders Clicks “See more” will load 20 more orders		
Notes and Issues:		
History will be save in device memory Shipper don’t need internet to load history		

Sequence Diagram



4. NON – FUNCTIONAL REQUIREMENTS

4.1. Usability

User interface should be clear and easy to use.

- Use material design style with light colors
- User can complete each feature in less than 5 actions

4.2 Performance

- Time delay to find shipper who nearest with place of delivery is less than 10s.
- Time delay on web application for tracking state of shipper on map is less than 5 minutes.
- Server can handle least 2000 clients concurrently.
- Other functions of server perform well while have many order running on application.

4.3 Reliability

- The application is available 24/7.
- the ways which go to places of receiving and places of delivery are exact at least 90%.

4.4 Maintainability

- Web application is easily to maintain without any crashes. Source code is readability, organized into groups of skeleton (modules) and complies with coding convention.
- Mobile application is easily to be updated and synchronize with Web application without any crashes. Source code is readability, complies with coding convention.
- System's architecture has to be design to be easy to extend.

4.5 Security

- Information of admin/ root admin / data on server is secured.
- Information of store and shipper on server is secured.
- Data is transferred from web service through API is secured.