HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Information and communications technology

Software Requirement Specification Version 1.0

eStore Manager Store management solution

Subject: ITSS Software Development

Group 01

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1 Introduction

1.1 Objective

This document presents the detailed description for eStore Manager – a store management system user group and their usable function at run time. This document also describes the objectives and features of the system, interfaces and constraints of the system in response to external action.

This document is for stakeholders and related software developers.

1.2 Scope

In reality, any software needs to have the function of managing users or group of users, and dynamically granting permissions for usage of certain functions in the system.

This software will be built as a management tool for a small store, with only 1 branch.

The software's goal includes creating following components:

- Interface to make bills and sell products.
- Interface to manage suppliers, import products.
- Interface to manage employees.
- Interface to manage customer list
- Interface to manage store finance.

Each function may be utilised by many roles of users in: Admin, cashier, warehouse manager.

1.3 Glossary

- **Admin:** administrator in this software often is the store owner. This user can interact with the system in full permission.
- Cashier: This user is a role of shop keeper: make bills and sell products. Cashier also can have access to history of bills, remove a bill in the past (to modify some information in the bill).

- Warehouse: is a place where goods may be stored before their export or distribution for sale.
- Warehouse manager: is a user who can manage suppliers, add import bills and be responsible to manage goods in warehouse.
- **Supplier:** a vendor who provide product for the store at whole sale price. The store imports goods there to sell to to their customers.

1.4 References

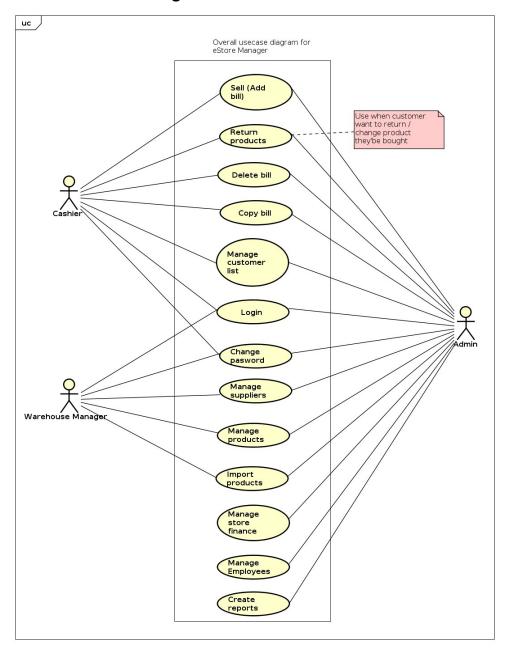
- An online store management system: Kiot Viet: https://kiotviet.vn

2 Overall Description

2.1 Actors

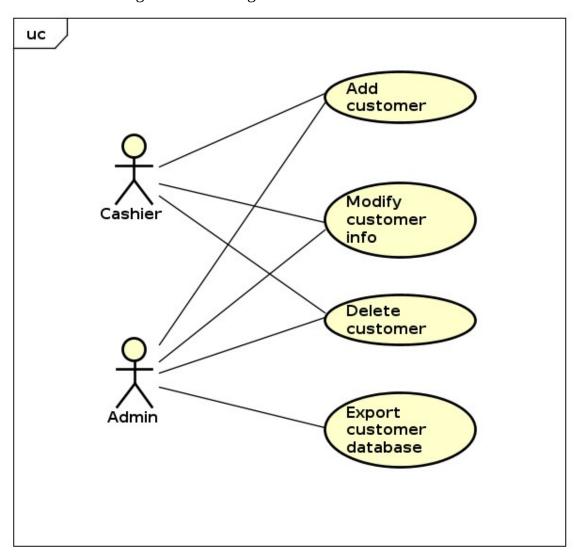
There are 3 main actors in the system: *Admin, Cashier, Warehouse manager*.

2.2 Overall use case diagram

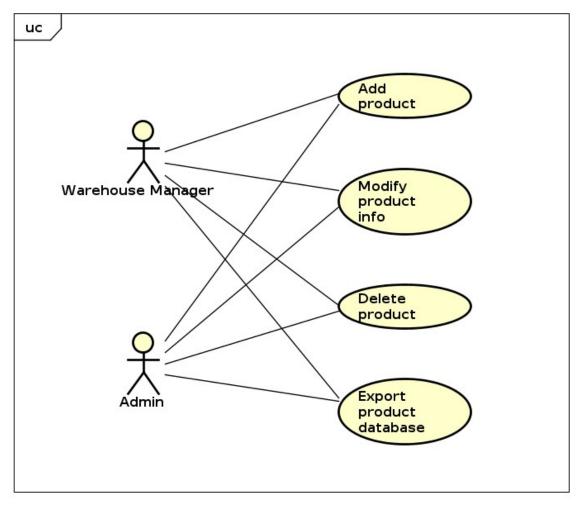


2.3 Decomposition of Use cases

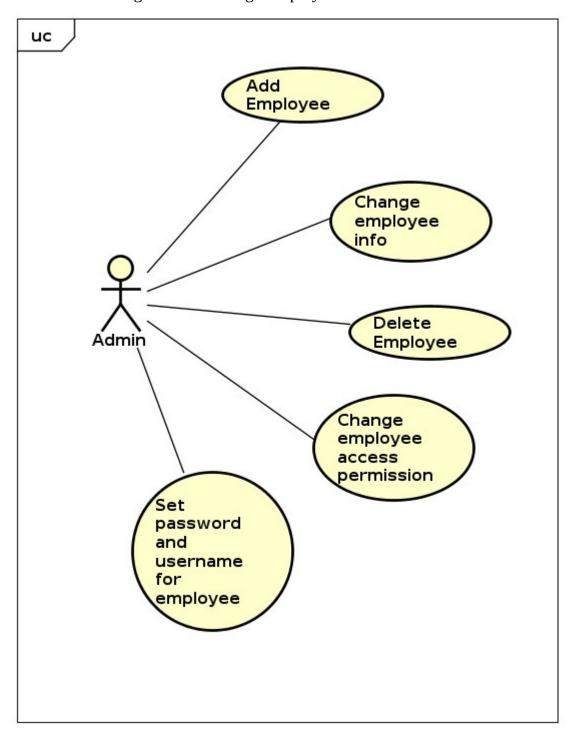
2.3.1 Use case diagram for "Manage customer list"



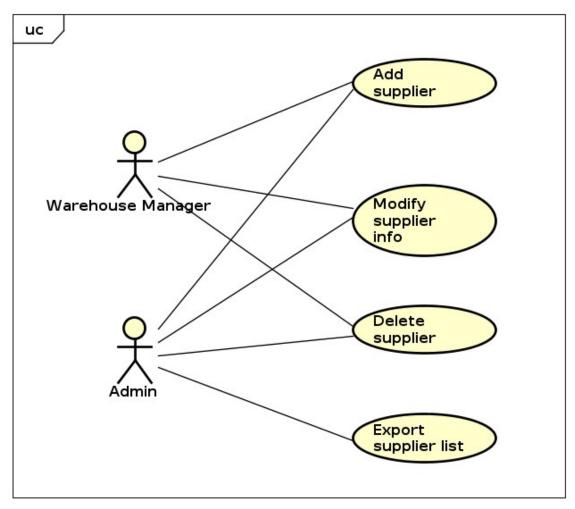
2.3.2 Use case diagram for "Manage products"



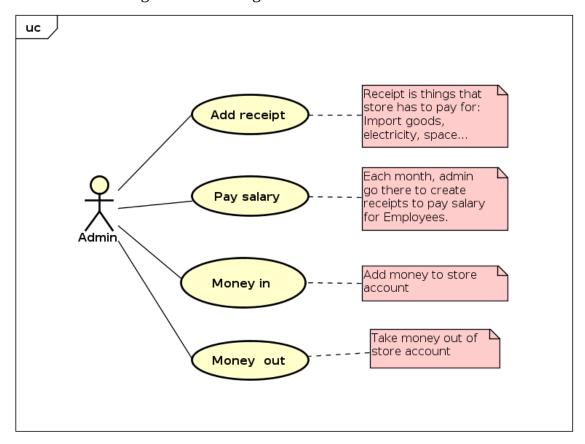
2.3.3 Use case diagram for "Manage Employees"



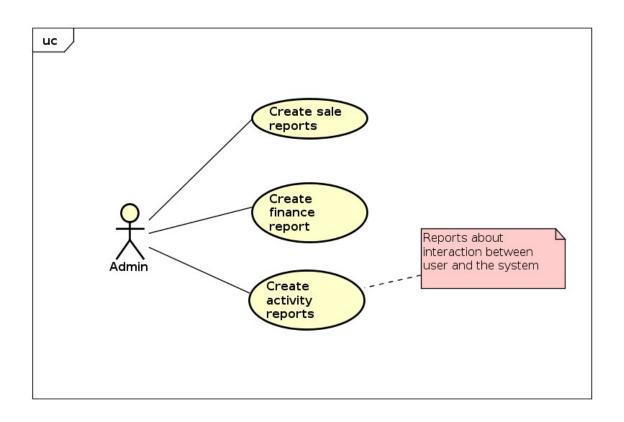
2.3.4 Use case diagram for "Manage suppliers"



2.3.5 Use case diagram for "Manage finance"



2.3.6 Use case diagram for "Create reports"

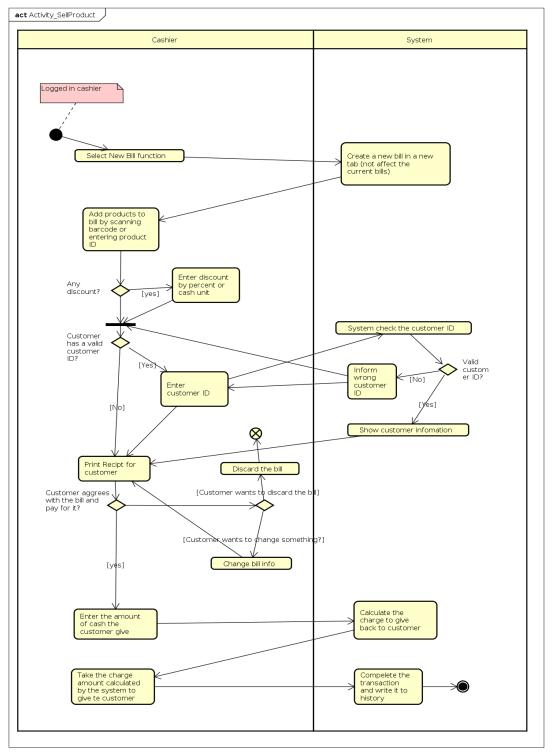


2.4 Business processes

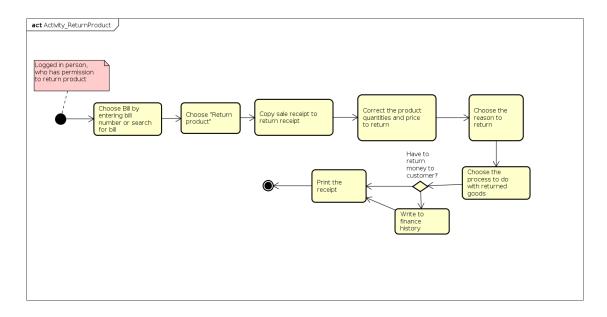
In this subsystem, there are 4 main professional processes:

The details of these processes are modeled in the sub-section of each process.

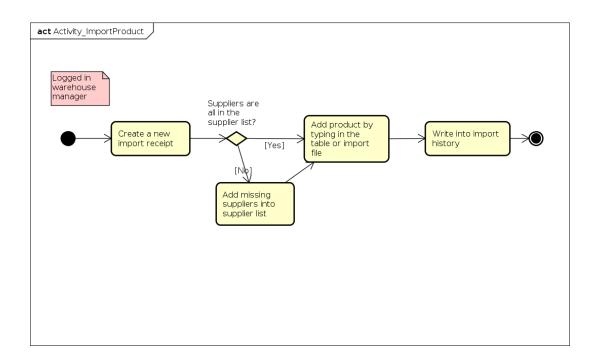
2.4.1 Process of add bill



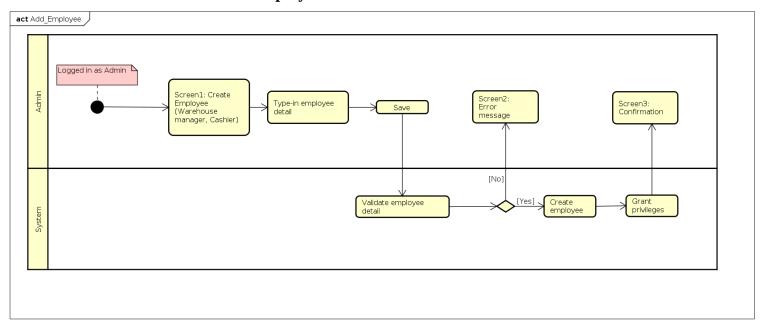
2.4.2 **Process of return product**



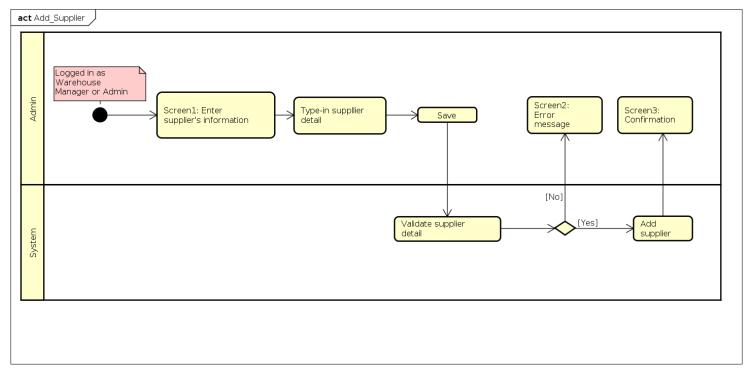
2.4.3 **Process of import products**



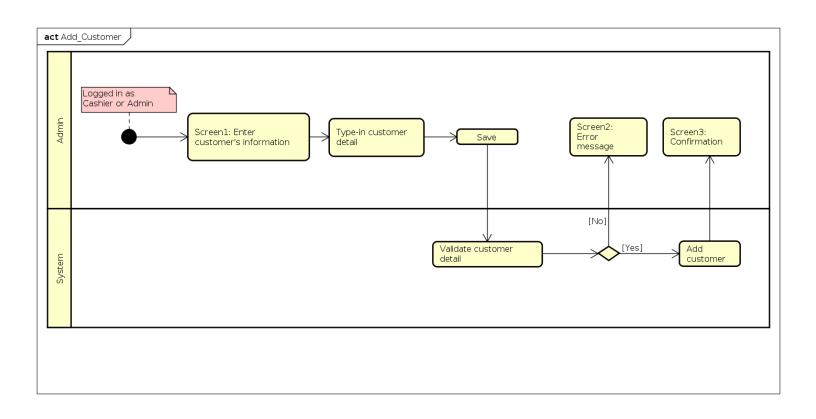
2.4.4 Process of add employee



2.4.5 **Process of add supplier**



2.4.6 **Process of add customer**



3 Specific requirements

Details of the use cases given in following sections are specified below.

3.1 Specification of Use case UC001 - "Log in"

Use case code	UC001			Use case name	Sell Product
Actor	User	(Cashier, War	eho	ouse Manager, Admi	in)
Pre- condition	None				
Main flow of events	No	No Actor		Action	
(Success)	1	User	Se	lect Log in function	
	2	System	D	isplay log in interface	
	3	User	In	put user name and passw	rords
	4	User	Re	equest log in	
	5			neck whether user ha quired field	d input the
	6	System	V	alidate the user name and	l password
	7	System	Lo	og user into the system	
	8	Sytem	D en	isplay the Main Form and	d the use case
Alternative flow of	No	Actor		Action	1
events	6a	Cashier		Output error: need to nissing required field if	-
	7a	System	p	Output error: If the use assword is invalid, requiser name and password a	ire user enter
Post- condition	None		•		'

3.2 Specification of Use case UC002- "Change password"

Use case code	UC00)2	Use case name	Change password
Actor	User (Cashier, Warehouse Manager, Admin)			
Pre- condition	User logged in to system			
Main flow of events	No	Actor	Action	1
(Success)	1	User	Select change password fu	nction
	2	System	Display change passworequire confirm old password	
	3	Cashier	Enter old password and ne	w password
	4	Cashier	Check whether user har required field	nd input the
	5 Cashier		Check the new passwo enough or not	rd is secure
	6	Cashier	Check the old password is	right or not
	7	System	Display change password save new password	successfully,
Alternative flow of	No	Actor	Action	1
events	5a.	Cashier	Output error: need to missing required field if so	-
	6a.	System	Output error: the new pasecure enough, back to password	
	7a.	System	Output error: the old parright, back to step confirm	
Post- condition	None			·

3.3 Specification of Use case UC003 - "Add Employee"

Use case code	UC003			Use case name	Add Employee	
Actor	Admin					
Pre- condition	Admin logged in to system					
Main flow of events	No Actor Action					
(Success)	1	Admin	Se	lect add employee f	unction	
	2	int 3 Admin En		splay form to enter ormation	employee	
	3			Enter employee information then choose save		
	4 System Validate employee inform			ormation		
	5	System	Cre	eate new employee	in system	
	6	System	Gr	ant privileges for en	nployee	
	7	System Confirm save new e successfully		employee		
Alternative flow of	No Actor Ac		Action	1		
events	5a			splay error in nployee information	validating	
Post- condition	None	2				

3.4 Specification of Use case UC004- "Add Customer"

Use case code	UC004	Use case name	Add Customer	
Actor	Cashier/Admin			
Pre- condition	Cashier/Admin logged in to system			

Main flow of events	No	Actor	Action
(Success)	1	Cashier/ Admin	Select add customer function
	2	System	Display form to enter customer information
	3	Cashier/ Admin	Enter customer information then choose save
	4	System	Validate customer information
	5	System	Create new customer in system
	6	System	Confirm save new employee successfully
Alternative flow of	No	Actor	Action
events	5a	System	Display error in validating employee information
Post- condition	None	2	

3.5 Specification of Use case UC005 - "Add supplier"

Use case code	UC005			Use case name	Add Supplier
Actor	Warehouse Manager/Admin				
Pre- condition	Warehouse Manager/Admin logged in to system				
Main flow of events	No Actor Action				
(Success)			nction		
			er supplier		
3 Warehouse Enter supplier inform choose save min		ation then			
	4	System	Va	lidate supplier infor	mation

	5	System	Create new supplier in system		
	6	System	Confirm save new supplier successfully		
Alternative flow of	No	Actor	Action		
	F -	Cushana	B: 1 1:1:1:		
events	5a	System	Display error in validating supplier information		

3.6 Specification of Use case UC006 - "Modify customer information"

Use case code	UC00	06	Use case name		Modify customer information		
Actor	Cash	Cashier/Admin					
Pre- condition	Cash	Cashier/Admin logged in to system					
Main flow of events	No	Actor		4	Action		
(Success)	1	Admin		Select mod information fund			
	2	System			enter customer ith copy of old		
	3	Admin		Enter new custo then choose sav	omer information re		
	4	System		Validate custom	er information		
	6	System		Save change			
	7	System		Confirm sa successfully	ave change		
Alternative flow of	No	Actor	ı		Action		
events	5a	System		Display error customer inform			
Post- condition	None	2			,		

3.7 Specification of Use case UC007 - "Add bill"

Use case code	UC00)7		Use case name	Add bill
Actor	Cash	ier/Admin			
Pre- condition	Cash	ier/Admin has	s log	gged in	
Main flow of events	No	Actor		Action	
(Success)	1	Cashier/ Admin	Select New Bill function		n
	2			eate a new bill in ot affect the current	
	3	Cashier/ Admin		d products to bill b rcode or entering pi	-
	4	4 Cashier/ Enter discount by cash unit if there is an			
	5	CCashier/ Admin	•		mer
	6 Cashier/ Receive cash from customer the amount of customer give				
	7	System		lculate the charg ck to customer	e to give
	8	Cashier/ Admin	ca	ke the charge lculated by the syst customer	
	9	System	1	mpelete the transite it to history	action and
Alternative flow of	No	Actor		Action	1
events	Cookiest Fotos systems ID if a				
	5a2	System	Cl	neck the customer i	d
	5a3	System		splay the formation	customer

	7a	Cashier/ Admin	If customer does not agree with the bill, discard it
	7b	Cashier/ Admin	If customer wants to correct something, change the bill and go back to step 5.
Post- condition	None		

3.8 Specification of Use case UC008- "Import products"

Use case Code	UC008		Use case Name	Import products		
Actor	Warehouse manager					
Pre-condition	Warehouse manager has logged in					
Main flow of events	No	Actor	Action			
(Success)	1	Warehouse manager	Create a new import receipt			
	2	Warehouse manager	Add product by typing in the table or import file			
	3	System	Write into import history			
Alternative flow of events	No	Actor	Action			
now or events	2a	Warehouse manager	If goods are im unlisted supplier, house manager golist to add.	the ware		
Post-conditions	None					

3.9 Specification of Use case UC009 - "Return products"

Use case code	UC009			Use case name	Return products	
Actor	Cashier/Admin					
Pre- condition	Cashier/Admin has logged in					
Main flow of events (Success)	No	Actor		Action		
	1	Cashier/ Admin	Entering bill number or search for bill			
	2	System	Find bill match to searching then display to screen			
	3	Cashier/ Admin	Choose bill to edit, return product			
	4	System	Copy "sale receipt" to "return receipt"			
	5	Cashier/ Admin	Correct the product quantities and price to return			
	6	Cashier/ Admin	Choose the reason to return			
	7	Cashier/ Admin	Choose the process to do with return goods (return money to customer or not)			
	8	System	Sa	Save the new receipt		
	9	System	Print the receipt			
Alternative flow of events	No	Actor		Action	1	
	8	System		rite to finance histo turning money to co	•	
Post- condition	None	2			'	

4 Supplementary

• Functionality

2 platforms of using: Web and PC

• Usability

Train the employees and store owner to use the system

• Reliability

Automatically restart the server after a system failure.

• Performance

Acceptable performance. No lag when using.

• Supportability

Host and maintain the system for the stores.

• Other requirements

Nice and modern user interface.