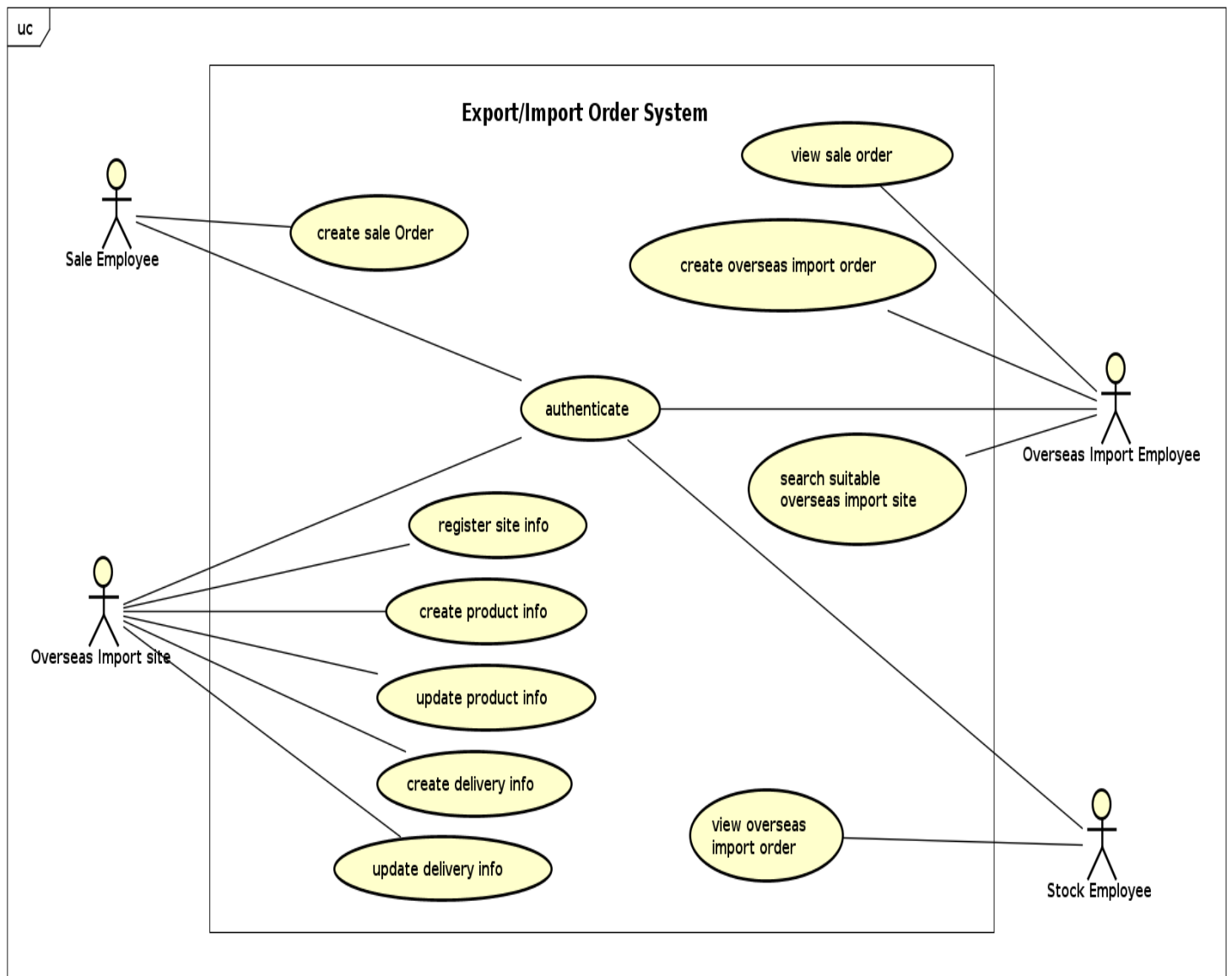


Requirement Analysis

Group SoftwareDevelopment.ITSS.20191-04

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1 Use case diagram



2 Use case specification

2.1 UC “View Sales Order”

UC Code	UC001	Use case name	View Sales Order
Actor	Overseas import employee (OIE)		
Precondition	Successful Login with Overseas import employee Role		
Main flow of event (success)	#	Doer	Action
	1.	OIE	Click to View Sales Order section
	2.	System	Display all available order to the screen
	3.	OIE	Choose one order in list
	4.	System	Display order detail
Alternative flow of event	#	Doer	Action
	2a.	System	If there is no order available, so the system will display a null order message
Post condition	None		

2.2 UC “Search Suitable Overseas Import Site”

UC Code	UC002	Use case name	Suitable Overseas Import Site
Actor	Overseas import employee (OIE)		
Precondition	Successful Login with Overseas import employee Role		
Main flow of event (success)	#	Doer	Action
	1.	OIE	Click on search Overseas Import Site section.
	2.	System	Display all import site information with filter area.
	3.	OIE	Enter name and quantity that the order need to the filter
	4.	System	Display suitable import site
	5.	OIE	Choose import sites
	6.	System	displays successfully deposit
Alternative flow of event	#	Doer	Action
	4a.	System	If there is no suitable import site, so the system will display a null message
Post condition	None		

2.3 UC “Authenticate”

UC Code	UC002	Use case name	Authenticate
Actor	Overseas import employee (OIE), Stock employee, Import Site, Sale Employee		
Precondition	Have not logined		
Main flow of event (success)	#	Doer	Action
	1.	user	Click on Login Section
	2.	System	Display login on Screen
	3.	user	Enter username and password then click login
	4.	System	Take user to the home screen
Alternative flow of event	#	Doer	Action
	1a.1	user	If the user have not had a account, he/she can click Register button to register a new account
	1a.2	System	Display the register form
	1a.3	user	Enter all the required information.
	1a.4	System	Verification the information and take user to the home screen
Post condition	None		

2.4 UC “Create product information”

UC Code	UC001	Use case name	Create product information
Actor	Overseas Import Site		
Precondition	Successful Login		
Main flow of event (success)			
	#	Doer	Action
	1.	Overseas Import Site	chooses create product

	2.	System	displays product creation screen
	3.	Overseas Import Site	enters and submits the product information
	4.	System	checks if the needed fields are filled
	5.	System	checks if the quantity is not negative
	6.	System	checks if the product is existed
	7.	System	notifies that the product is added successfully
Alternative flow of event			
	#	Doer	Action
	4a.	System	notifies "All the fields with red star must be filled" if there is any needed field is blank.
	5a.	System	notifies "The quantity of product in stock mustn't be negative" if the value of quantity is smaller than 0.
	6a.	System	notifies "This product is existed!" if the product name is existed.

2.5 UC “Update product information

UC Code	UC002	Use case name	Update product information
Actor	Overseas Import Site		
Precondition	Successful Login		
Main flow of event (success)	#	Doer	Action
	1.	Overseas Import Site	chooses the product that need to be updated
	2.	System	displays update product screen
	3.	Overseas Import Site	changes the fields that need to be updated
	4.	System	checks if the needed fields are filled
	5.	System	checks if the quantity is not negative
	6.	System	checks if the product is existed
	7.	System	notifies that the product is updated successfully
	Alternative flow of event	#	Doer
4a.		System	notifies “All the fields with red star must be filled” if there is any needed field is blank.
5a.		System	notifies “The quantity of product in stock mustn’t be negative” if the value of quantity is smaller than 0.

	<table><tr><td>6a.</td><td>System notifies “This product is existed!” if the product name is existed (when the product name is changed).</td></tr></table>	6a.	System notifies “This product is existed!” if the product name is existed (when the product name is changed).
6a.	System notifies “This product is existed!” if the product name is existed (when the product name is changed).		
Post condition	None		

2.6 UC “Create delivery manner information”

UC Code	UC003	Use case name	Create delivery manner information
Actor	Overseas Import Site		
Precondition	Successful Login		
Main flow of event (success)	#	Doer	Action
	1.	Overseas Import Site	chooses create delivery manner information
	2.	System	displays create delivery manner screen
	3.	Overseas Import Site	enters and submits delivery information form
	4.	System	checks if the way of delivery is existed
	5.	System	checks if the number of days is not positive
	6.	System	notifies “The delivery information is added successfully”
	Alternative flow of event	#	Doer
4a.		System	notifies “The way of delivery is existed” if the kind of transportation is used.
5a.		System	notifies “The number of days for delivery must be greater than 0!” if the number of days is negative.
Post condition		None	

2.7 UC “Update delivery manner information”

UC Code	UC004	Use case name	Update delivery manner information																					
Actor	Overseas Import Site																							
Precondition	Successful Login																							
Main flow of event (success)	<table><tr><th>#</th><th>Doer</th><th>Action</th></tr><tr><td>1.</td><td>Overseas Import Site</td><td>chooses the delivery information need to be updated</td></tr><tr><td>2.</td><td>System</td><td>displays update delivery information screen</td></tr><tr><td>3.</td><td>Overseas Import Site</td><td>changes the fields that need to be updated</td></tr><tr><td>4.</td><td>System</td><td>checks if the way of delivery is existed</td></tr><tr><td>5.</td><td>System</td><td>checks if the number of days is not positive</td></tr><tr><td>6.</td><td>System</td><td>notifies “The delivery information is updated successfully”</td></tr></table>			#	Doer	Action	1.	Overseas Import Site	chooses the delivery information need to be updated	2.	System	displays update delivery information screen	3.	Overseas Import Site	changes the fields that need to be updated	4.	System	checks if the way of delivery is existed	5.	System	checks if the number of days is not positive	6.	System	notifies “The delivery information is updated successfully”
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Alternative flow of event	<table><tr><th>#</th><th>Doer</th><th>Action</th></tr><tr><td>4a.</td><td>System</td><td>notifies “The way of delivery is existed” if the kind of transportation is used.</td></tr><tr><td>5a.</td><td>System</td><td>notifies “The number of days for delivery must be greater than 0!” if the number of days is negative.</td></tr></table>			#	Doer	Action	4a.	System	notifies “The way of delivery is existed” if the kind of transportation is used.	5a.	System	notifies “The number of days for delivery must be greater than 0!” if the number of days is negative.												
#	Doer	Action																						
4a.	System	notifies “The way of delivery is existed” if the kind of transportation is used.																						
5a.	System	notifies “The number of days for delivery must be greater than 0!” if the number of days is negative.																						
Post condition	None																							

2.8 UC “Update delivery manner information”

UC Code	UC001	Use case name	Create order list
Actor	Sale employees (SE)		
Precondition	Successful Login		
Main flow of event (success)	#	Doer	Action
	5.	SE	Click button to create a new order list
	6.	System	Display the format of information which is writable
	7.	SE	Fulfill the information and click Send
	8.	System	Check validity of merchandise code, date and ensure order information completed
	9.	System	Save the order information to database of Overseas import department
Alternative flow of event	#	Doer	Action
	1.	System	Notifying error “Unavailable merchandise code” if the merchandise code doesn’t exist
	2.	System	Notifying error “Invalid date” if the date doesn’t exist
	3.	System	Notifying error “The ordered quantity must be greater than 0” if the ordered quantity is fewer than 1
	4.	System	Notifying error “There must be no blank information in order” if any information is not fulfilled
Post condition	None		

2.9 UC “Register Overseas import site information”

UC Code	UC002	Use case name	RegisterSite Information
Actor	Overseas Import Site (OIS)		
Precondition	None		
Main flow of event (success)	#	Doer	Action
	7.	OIS	Click register site member button
	8.	System	Display register form with given unique site code
	9.	OIS	Fulfill the form with merchandise name, in-stock quantity, unit
	10.	System	Automatically create new code for merchandise which didn't exist before
	11.	System	Automatically assign merchandise name by merchandise code
	12.	System	Save to Overseas Import Site database
Alternative flow of event	#	Doer	Action
	1.	System	Notifying error "Every information must be not empty" when the site isn't filled completely
	2.	System	Notifying error "The quantity must be an integer greater than 0" if the in-stock quantity is fewer than 1
	3.	System	
Post condition	None		

2.10 UC “Register Overseas import site information”

UC Code	UC008	Use case name	Create overseas import order list
Actor	Overseas Import Employee, Import Site		
Precondition	Search Suitable Overseas Import Site		
Main flow of event (success)	#	Doer	Action
	10.	Employee	Click create new order list
	11.	System	Display all merchandise from sales order & corresponding suitable import site
	12.	Employee	Select merchandise code needed to import
	13.	System	Add this merchandise to order list
	14.	Employee	Click button create
	15.	System	Send order information to chosen sites
	16.	System	Display order created successfully
Alternative flow of event			
	#	Doer	Action
Post condition	None		

2.11 UC “View overseas import order list”

UC Code	UC009	Use case name	View overseas import order list
Actor	Stock employee		
Precondition	Receive goods from sites		
Main flow of event (success)	#	Doer	Action
	13.	Stock employee	Click view order list
	14.	System	Display list of all merchandise in order
	15.	Stock employee	Select a merchandise in list
	16.	System	Display merchandise information in order list and received list
	17.	System	Compare quantity btw required and received
	18.	System	Display result
	19.	Stock employee	Send confirmatiton message
	20.	System	Write merchandise information to stock
	21.	System	Display completed transaction
Alternative flow of event	#	Doer	Action
	6a .	System	Notifie “missing quantity in merchandise code xxx from site yyy ”
	7a .	Stock employee	Send error message when ordered quantity and received one are different
	8a .	System	Write merchandise information in incompleted section : code, missing quantity, site name,....
Post condition	None		

3 Glossary

3.1 Sale Order

Order that created by sale employee whenever have any requirement to import. Order include product code, quantity, units and date.

3.2 Import Site Order

Order created by overseas import site employee

3.3 Overseas Import Site

product supplement site from overseas, each site can supply many product.

4 Supplementary specification

4.1 Functionality

- Error logging: all error in system will saved in log file.

4.2 Performance

- 95% of the operations must respond within 5 seconds
- The System has to support 50 concurrent users

4.3 Reliability

- All passwords are encrypted
- Database backup regularly
- error will not make all the system crash