

**Name:** Jonathan Magiera

**Project:** Warehouse Manager

**Requirements:**

U-41: The system shall allow the Inventory Manager to place orders for new product shipments from the suppliers.

U-46: The system shall allow the Inventory Manager to add a new product to the inventory database.

U-47: The system shall allow the Inventory Manager to remove a product from the inventory database.

S-1: Upon receipt of a returned product, the system shall automatically send a command to a retrieval robot to place the product on a shelf with similar products.

**Use Case Documents:**

<b>Use Case ID:</b>	UC-05
<b>Use Case Name:</b>	Order products from suppliers
<b>Description:</b>	The Management System allows for an inventory manager to order various products from suppliers based on certain orders specifications.

<b>Actors:</b> Inventory Manager		
<b>Pre-conditions:</b>	The system has sent a warning to the inventory manager that the quantity of an item has fallen below a predefined threshold.	
<b>Post-conditions:</b>	An order for a product has been placed through the system.	
<b>Frequency of Use:</b>	Potentially daily, depending on the popularity of an item.	
<b>Flow of Events:</b>	<b>Actor Action</b>	
	<b>System Response</b>	
	1	System notifies inventory manager that item quantity is low.
	2	Manager logs into system. The system displays the warehouse inventory
	3	Through the inventory interface, the manager sees which item is low.

	4	The manager clicks on the item and places a default order for more items.	The system sends the order to the respective supplier.
<b>Variations:</b>	4. The manager specifies the exact amount, as opposed to a default amount.		
<b>Exceptions:</b>	None		
<b>Developer Notes:</b>	None		

<b>Use Case ID:</b>	UC-06
<b>Use Case Name:</b>	Add new products to inventory database.
<b>Description:</b>	The Inventory Manager updates the database with new product information after a shipment of new products arrives to the warehouse.

<b>Actors:</b>	Inventory Manager	
<b>Pre-conditions:</b>	A new shipment of products has arrived. There must be enough space in the inventory to store the items.	
<b>Post-conditions:</b>	The warehouse system database has been updated with the correct item quantities from the shipment.	
<b>Frequency of Use:</b>	Daily, or whenever shipments arrive.	
<b>Flow of Events:</b>	<b>Actor Action</b>	
	<b>System Response</b>	
	1	System notifies Inventory Manager that a shipment of products has arrived.
	2	Manager logs into system. The system displays the warehouse inventory
	3	Through the inventory interface, the manager updates the product quantities with the respective numbers.
	4	The inventory manager The inventory database updates the

	commits the update.	totals.
5		The system confirms the updated amounts.
<b>Variations:</b> None		
<b>Exceptions:</b> There is no room for more items in the inventory.		
<b>Developer Notes:</b> None		

<b>Use Case ID:</b>	UC-07
<b>Use Case Name:</b>	Remove products from database.
<b>Description:</b>	After products have been shipped to customers, the Inventory Manager updates the new product quantities.

<b>Actors:</b>	Inventory Manager	
<b>Pre-conditions:</b>	A customer has placed an order through the online ordering system. There must be enough of the product to send.	
<b>Post-conditions:</b>	The database has fewer of the item ordered than before the order was placed.	
<b>Frequency of Use:</b>	Daily	
<b>Flow of Events:</b>	<b>Actor Action</b>	
	<b>System Response</b>	
	1	System notifies inventory manager that a customer has ordered a product.
	2	Manager logs into system. The system displays the warehouse inventory.
	3	Through the inventory interface, the manager updates the new product quantity.
	4	The inventory manager commits the deletion. The database numbers are updated.

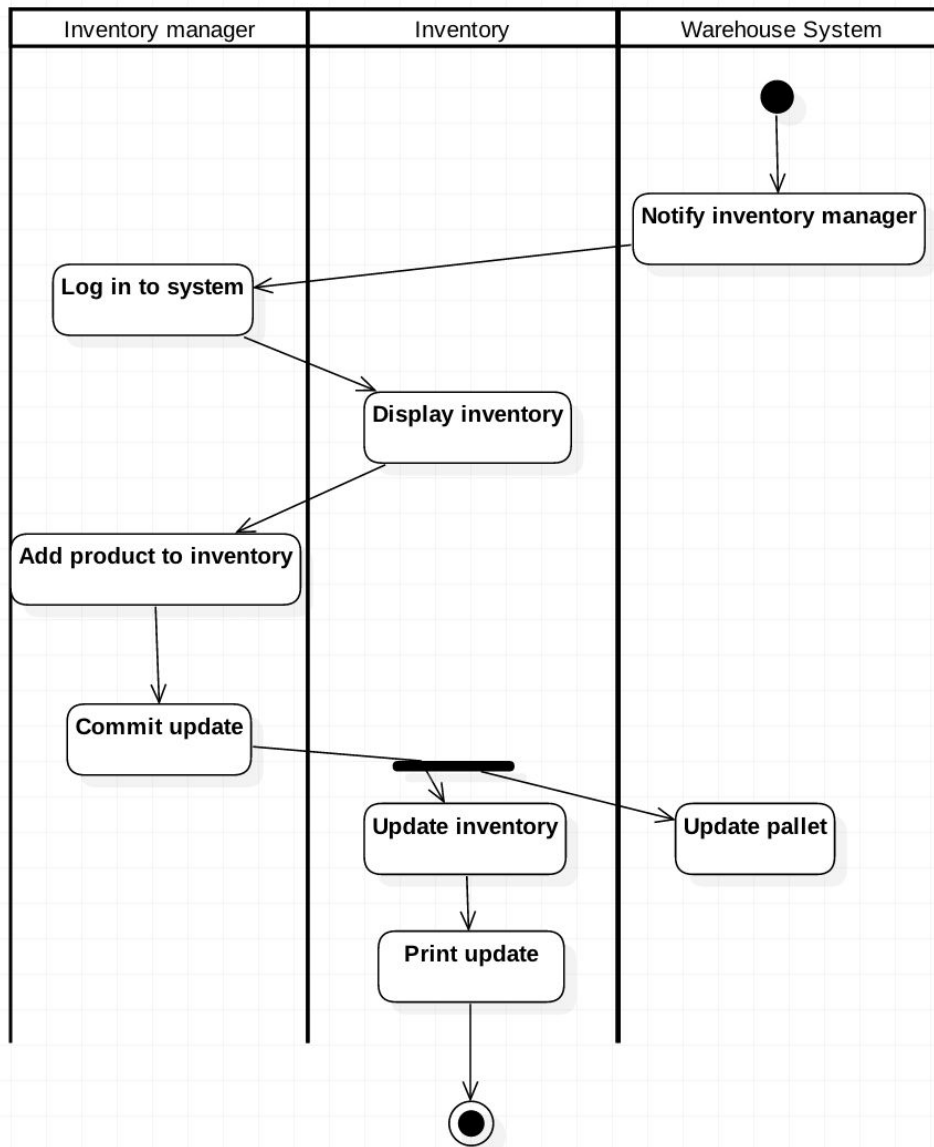
	5	The system confirms the updated amounts.
<b>Variations:</b>	None	
<b>Exceptions:</b>	There is not enough of a product to send.	
<b>Developer Notes:</b>	None	

<b>Use Case ID:</b>	UC-09
<b>Use Case Name:</b>	Restock a returned product
<b>Description:</b>	When a customer returns a product, the customer service rep updates the inventory with the returned items.

<b>Actors:</b>	Customer service rep Retrieval robots	
<b>Pre-conditions:</b>	A customer has returned an item.	
<b>Post-conditions:</b>	The inventory has been updated to reflect the new product quantity.	
<b>Frequency of Use:</b>	Potentially daily.	
<b>Flow of Events:</b>	<b>Actor Action</b>	
	<b>System Response</b>	
	1	The customer service rep logs into the system.
	2	The warehouse system displays the inventory.
	3	The rep chooses the respective item to update through the interface.
	4	The rep commits the changes to the inventory.
		The database numbers are updated.
		The system confirms the update.
<b>Variations:</b>	None	

<b>Exceptions:</b>	None
<b>Developer Notes:</b>	None

## Activity Diagram:



UC-06  
U-46  
Add new product to inventory  
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## Sequence Diagram:

