# Add to cart:

Similar to: Place hold, though there aren't many similarities in any of the cases. Both of these involve binding an item to a client, while not necessarily checking it out to them.

Add to Cart			
	ACTOR		SYSTEM
1	ACTOR requests to add item to cart		
		2	System prompts for clientID
3	ACTOR provides clientID		
		4	System verifies clientID. If clientID does not belong to an existing Client: Print a message stating such, jump to step 2.
		5	System prompts for productID
6	ACTOR provides a productID		
		7	System verifies productID. If productID is invalid: Print statement stating as such, jump to step 5.
		8	System prompts for quantity to add
9	ACTOR provides a quantity		
		10	System verifies that quantity is >0. If quantity is invalid: Print statement stating such, jump to step 5.
		11	System adds product and quantity to shoppingCart of given clientID

|		12	System prints a message stating that action is completed.
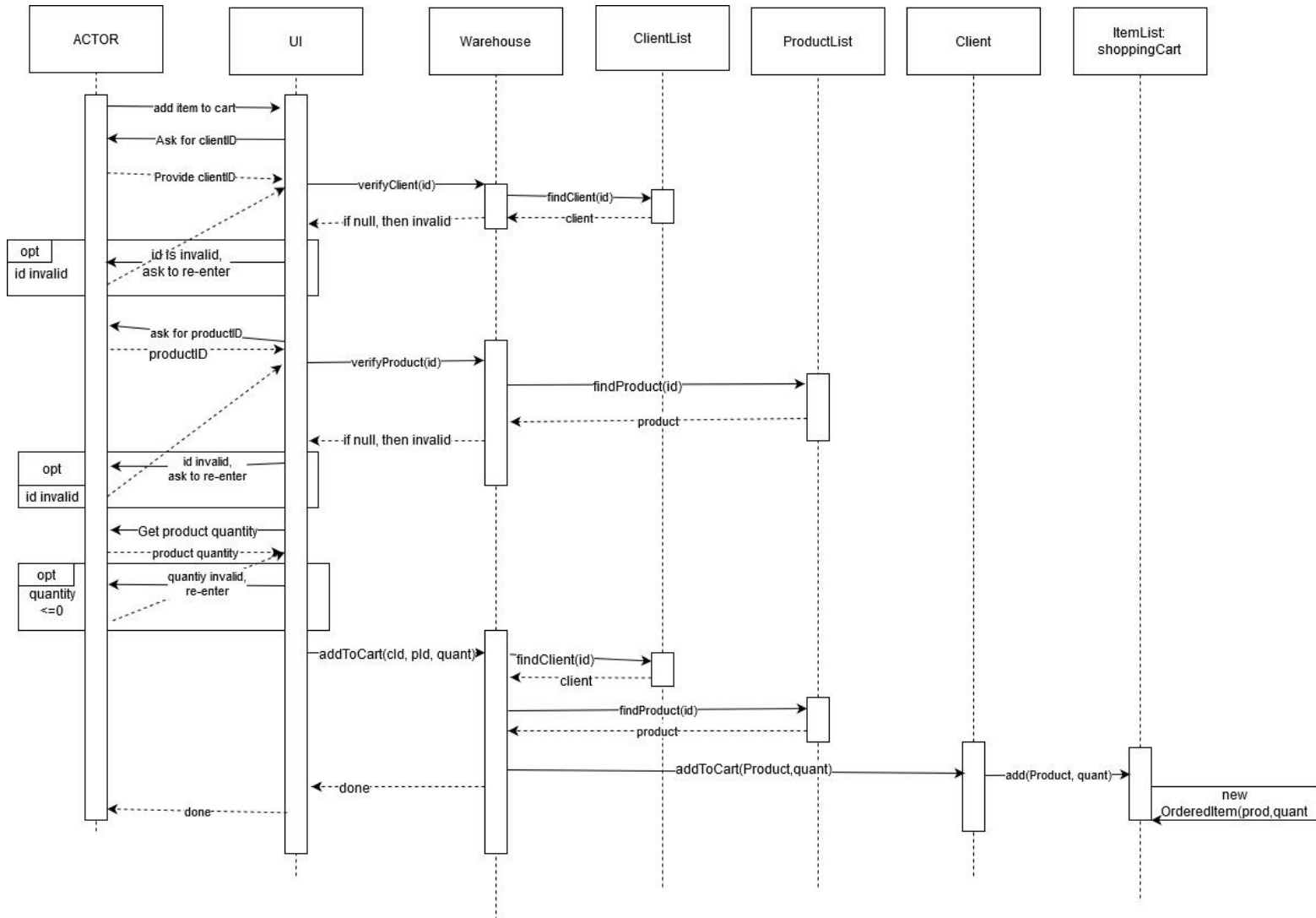
Process order:

Similar to: Checkout book. The main difference being that checkout book doesn't need to do any quantity checks, but placing a hold is similar to the waitlist functionality of process order.

Process Order	
This process is called by another process that has already done all necessary user input, and does not need input from the ACTOR	
SYSTEM	
1	For all Products in order, do steps 2-
2	Check if the product's stock quantity is >= quantity in the order. YES: Jump to 3 NO: Jump to 7
3	Product's stock is decremented by the quantity in the order
4	Product is added to the invoice
5	Order sets flag to indicate that the item has been fulfilled
6	Jump to 9
7	Order is added to the Product's waitlist. Pass the Order object and the quantity to the Product.
8	Message is printed stating that the OrderedItem was waitlisted.
9	If more items in the order, jump to 1
10	Tell invoice to apply to account
11	Message is printed stating that order has been processed, and non-waitlisted items have been charged to account.

Brent Clapp
Use cases/Sequence Diagrams
Stage 2
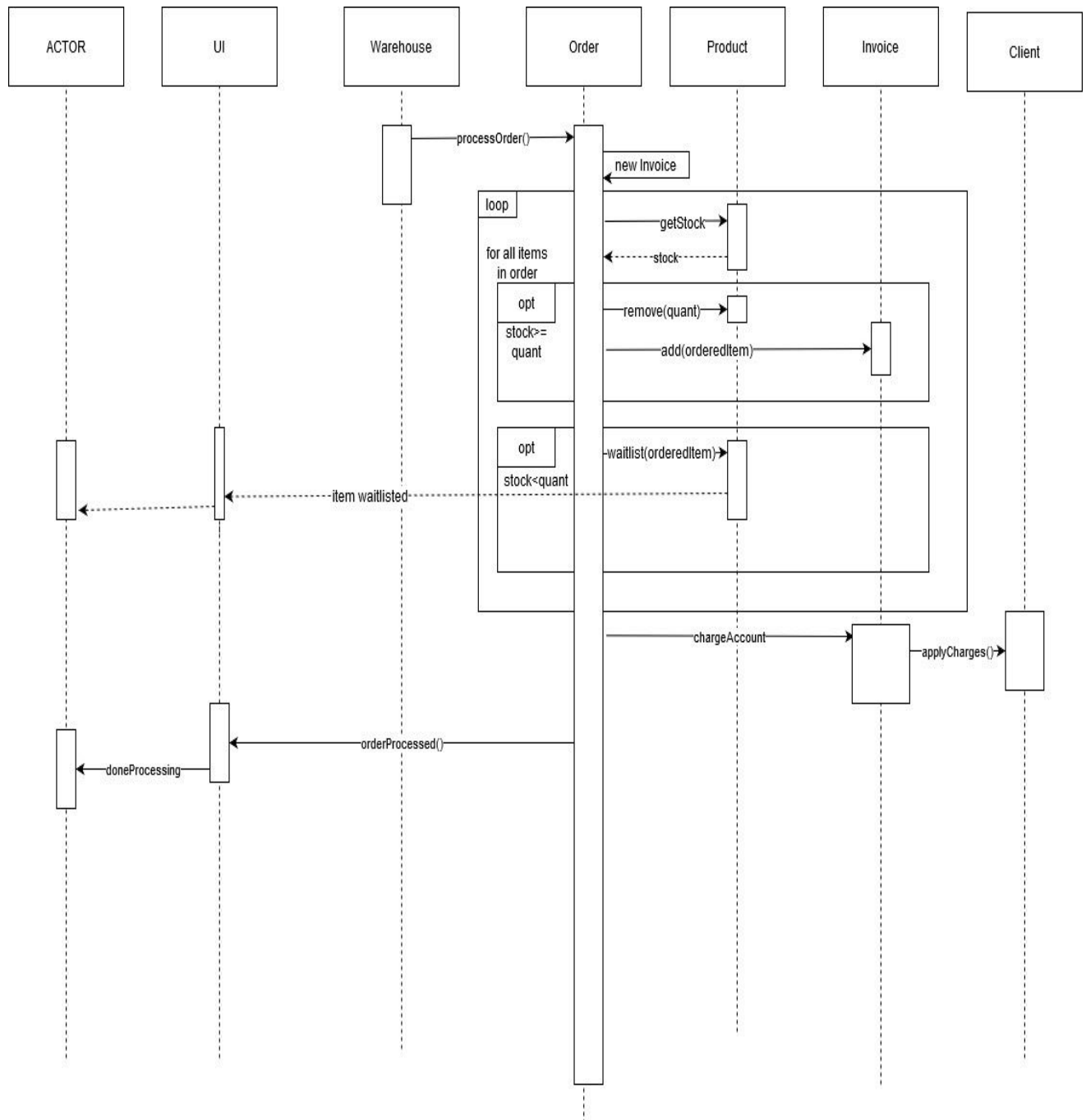
Check supplier inventory:

Similar to: Displaying all books of a publisher.

	Check Supplier Inventory		
	ACTOR		SYSTEM
1	Requests to view supplier inventory		
		2	Requests which supplier
3	Specifies a supplierId		
		4	Verifies supplierID. If invalid, print a message stating such and jump to 2.
		5	Ask if user would like to hide all products with no stock (These may be considered discontinued)
6	Specifies yes or no		
		7	Read yes or no If yes: jump to step 9

		8	Print names and quantities of all products that the supplier provides. DONE
		9	Retrieves a list of all products, displays the names of quantities of the ones whose stock is >0. DONE