

- The search engine extends the browse, as we assume that the home page of the system is just to search.
- Adding to cart includes the browse, as we can't add before browsing
- Adding to cart includes "check quantity", as it can't exceed a specific number of items per cart (ex. 5, 6 ..etc.) .
- Make purchase includes "add to cart ", as we can't pay without having a cart.
- We added the payment gateway as an actor, as we couldn't specify its role properly.

Add to cart	E-commerce system		
Goal	Allow the customer to add selected products or services to their shopping cart for potential purchase later.		
Preconditions	The customer must be logged in or have a session active.		
	The product or service must be available in the product catalog.		
	The product must have sufficient quantity available.		
Success End Condition	The selected product	t is successfully added to the customer's shopping cart.	
	The cart is updated to reflect the new product, quantity, and price.		
	The customer can view the updated cart at any time.		
Failed End Condition	The product cannot be added due to unavailability or out-of-stock status.		
	The cart remains unchanged.		
	The system displays an appropriate error message.		
Primary Actors	Customer (main actor)		
	E-commerce system	E-commerce system (system actor)	
Trigger	Customer selects a product and clicks the "Add to Cart" button.		
Description / Main Success Scenario	Step	action	
	1	Customer selects a product and clicks "Add to Cart."	
	2	System verifies product availability and adds it to the cart.	
	3	System updates the cart and confirms the addition to the customer.	

Alternative Flows	Step	Branching action
	1	System checks product stock and finds it unavailable.
	2	System notifies the customer the product cannot be added.
	3	Customer chooses to select a different product or wait for restock.