

UC Name	<i>Customer Notification System</i>
Summary	Informing customers about stock availability status.
Dependency	<i>Derived from Real-Time Inventory Management.</i>
Actors	Customers, System.
Preconditions	<ul style="list-style-type: none"> - Real-Time Inventory Management system is active and accurately tracking inventory. - Stable network infrastructure for reliable communication. - Defined notification mechanisms such as email or SMS.
Description of the Main Sequence	<p>1. Monitoring Inventory Changes:</p> <ul style="list-style-type: none"> - The system continuously monitors stock levels in real-time. - Detects changes such as items going out of stock or being restocked. <p>2. Customer Notification:</p> <ul style="list-style-type: none"> - When an item goes out of stock, the system triggers a notification process. - Sends notifications to customers via predefined channels (e.g., email, SMS). - Notifications include information on the unavailability of items and expected restock dates. <p>3. Providing Information for Informed Decisions:</p> <ul style="list-style-type: none"> - Customers receive notifications promptly, enabling them to make informed purchasing decisions. - Options for pre-orders or back-orders are provided if available.
Description of the Alternative Sequence	<p>1. Failure in Notification Transmission:</p> <ul style="list-style-type: none"> - If there's a failure in transmitting notifications (e.g., network issues): - The system activates error handling procedures to address the transmission failure. - Attempts to resend notifications or use alternative communication channels.
Nonfunctional requirements	<p>Non-functional Requirements:</p> <ul style="list-style-type: none"> - Notification Delivery Speed: Ensure notifications are delivered promptly. - Notification Accuracy: Ensure notifications contain accurate information. - Notification Channel Reliability: Ensure reliability of communication channels.
Postconditions	<i>Customers are informed about stock availability status accurately and promptly, facilitating informed purchasing decisions.</i>

