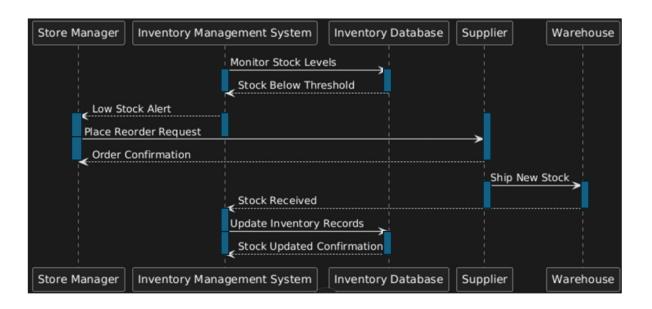
Software Engineering Principles

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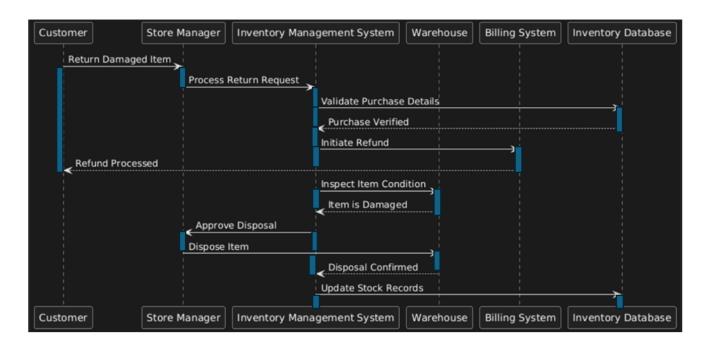
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Sequence Diagram

Scenario 1: Low Stock Alert's Reorder Process:



Scenario 2: Damaged Item Return s Restocking:



Test Cases:

Test Case ID: TC001

Test Scenario: Verify real-time inventory tracking and low stock alert functionality.

Test Case Description: Ensure that the inventory tracking module accurately updates stock levels and triggers an alert when the quantity of an item falls below a predefined threshold.

Test Steps:

- 1. Login as an Inventory Manager.
- 2. Navigate to the Inventory Dashboard.
- 3. Select an inventory item with a set low stock threshold (e.g., 10 units).
- 4. Update the stock level for that item to a quantity below the threshold (e.g., 8 units).
- 5. Verify that the system triggers a low stock alert notification on the dashboard.
- 6. Confirm that an email/SMS notification (if configured) is sent to the inventory manager.

Test Data:

- Inventory Item: "Item A" with a threshold set at 10 units.
- Update Value: New stock level set to 8 units.

Test Expected Result:

- The system should automatically update the item's stock level in real time.
- A low stock alert should be triggered and visibly displayed on the dashboard.
- An additional notification (email/SMS) should be sent to alert the inventory manager.

Actual Result:

• Stock level updated to 8 units, triggering a low stock alert and sending a notification.

Pass/Fail: Pass

Test Case ID: TC002

Test Scenario: Verify Order Management Functionality for Order Placement and Cancellation.

Test Case Description: Ensure that the order management module allows authorized users to create a new order with valid data, receive a confirmation with a unique order ID, and subsequently cancel the order, with the system updating the order status accordingly.

Test Steps:

- 1. Log in as a Sales Staff member.
- 2. Navigate to the Order Management module.
- 3. Create a new order by entering customer details and selecting items (e.g., Item A and Item B with specified quantities).
- 4. Click the "Submit Order" button.
- 5. Verify that a confirmation message with a unique order ID is displayed.
- 6. Locate the newly created order in the order list.
- 7. Select the order and click the "Cancel Order" option.
- 8. Confirm the cancellation action when prompted.
- 9. Verify that the order status updates to "Canceled" and the order is removed from the pending orders list.

Test Data:

Customer Name: John Doe

Order Items:

Item A, Quantity: 5Item B, Quantity: 2

Test Expected Result:

• The system should display a confirmation message with a unique order ID upon order submission.

- On order cancellation, the order status should update to "Canceled," and the order should no longer appear in the list of active or pending orders.
- Actual Result:
- Order is successfully created with a confirmation message and unique order ID, then canceled as expected with the system reflecting the status change.

Pass/Fail: Pass