

Name: Muhammad Ishraf Shafiq Zainuddin

ID : 200342741

File : Use Cases Description

The Amazon Warehouse Manager System Use Case

(A)

Use Case Name: New Merchandise Arrangement

Summary: New merchandise in the warehouse that being provided by the Supplier trucks are being managed by the Inventory Management System.

Actor: Inventory Management System

Precondition: The merchandise that being provided by the supplier trucks is classified with a unique barcode.

Description:

1. The forwarding robots pick up the pallet of merchandise.
2. The robots then scan all barcodes and navigate the entire warehouse.
3. The Inventory Management System receive the barcodes and update the inventory.
4. The Inventory Management System then instructs the robots to deposit the merchandise in the sections of the warehouse corresponding to the inventory storage map.

(B)

Use Case Name: Return Merchandise Arrangement

Summary: Return merchandises that being returned to the warehouse by the Mail trucks are being managed by the Inventory Management System.

Actor: Inventory Management System

Precondition: Return merchandise got sent back by the customer to the warehouse.

Description:

1. Mail trucks bring returns to the warehouse.
2. Returns have to go through the manual inspection before accepted.
3. The returns are entered the warehouse as refurbished products if accepted.
4. The accepted refurbished products are then labeled with specific barcodes.
5. A refund grant request is then sent to the main Amazon Financial System.

Alternative:

1. The product will be shipped back to the customer if rejected.
2. Refund is denied

Postcondition: Manual inspection is completed.

(C)

Use Case Name: Ordered Merchandise Arrangement

Summary: Merchandises that being ordered returned are managed by the Inventory Management System and send to the customer.

Actor: Inventory Management System

Precondition: Amazon Ordering System notifies the warehouse about the ordered merchandise.

Description:

1. The Amazon ordering system notifies the warehouse when an order come.
2. The Inventory Management System check the availability of the product requested.
3. The available product then being add and its location by the Inventory Management System to shipping list that contains the address of the customer.
4. The Inventory Management System removes the items from the inventory.
5. The Inventory Management System provides the list of items to shipping robot.
6. The shipping robot retrieves the physical items and packages them in suitable box
7. The box then labeled with shipping label including the customer's address.
8. The box is send to the mail truck loading dock.
9. The Inventory Management System then sends the shipping list to the

Amazion Financial System.

10. The Amazion Financial System invoices the customer for all the items that have shipped.

Alternative:

1. The order is canceled if the item not found in the warehouse.

Postcondition: Product search is completed.