**Use Case: Add Product - Uses External Source**

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| Actions performed by Actor | Responses from the System |
| 1.) The manufacturer requests a new product to be added to the system.  2.) The Admin will issue a request to the system to add the product to the manufacturer in the system.    4.) The Admin inputs the requested product information.  6.) The Admin either enters a new product or requests to exit program. | 3.) The system requests the required product information such as product name and manufacturer  5.) The system records the product information and checks to ensure the manufacturer is in the system. If not, return to step 3. The system then assigns the product to the manufacturer and asks if more products will be added.    7.) If a new product is requested, move to step 3, otherwise exit the system. |
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Receive Shipment

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| Actions performed by the actor | Responses from the system |
| 1. Shipment is received from a supplier. |  |
| 1. Warehouse manager submits a request to update products in the system. |  |
|  | 1. System prompts the manager to enter product ID of a received item. |
| 1. Warehouse manager enters product ID. |  |
|  | 1. The system displays the next order that matches this ID (displaying the manufacturer name, product name, quantity, and orderID) and asks user if this order matches the item received. If there are no more orders, error message is display and control shifts to step 10. |
| 1. Warehouse manager enters Yes or No. |  |
|  | 1. If No, control shifts to step 5. If Yes, system prompts user to enter the quantity of the item received. |
| 1. Warehouse manager enters the quantity. |  |
|  | 1. If the quantity entered by the user is less than or equal to the quantity remaining on the order, the item is updated. Otherwise, an error message is displayed, the systems prompts the user to enter a quantity again, and control shifts to step 8. |
|  | 1. System prompts if there are more items to be added. |
| 1. Warehouse manager enters Yes or No. |  |
|  | 1. If Yes, control shifts to step 3. If No, System checks to see if any items are waitlisted. All items received that are on a waitlist are added to a waitlist queue. |
|  | 1. If the waitlist queue is not empty, display the next item. Prompt user to fulfill the order. Ask the user if the order was fulfilled. If waitlist queue is empty, control shifts to step 16. |
| 1. Warehouse manager enters Yes or No. |  |
|  | 1. If Yes, the quantity of the item is decremented.   Control shifts to step 13. |
|  | 1. All remaining items are added to the warehouse inventory. |

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| **Use case: Accept a payment from a customer** |  |
| **Actions by the user** | **Response from the system** |
| 1. The user wants to process a payment from a customer. |  |
|  | 2. The system prompts for the customer ID. |
| 3. The user enters the customer ID. |  |
|  | 4. The system prompts for the payment amount. |
| 5. The user enters the amount. |  |
|  | 6. The system calculates the new balance for the customer and stores the information (transaction date and amount). |
|  | 7. The system prompts if the user wants to accept payment from another customer. |
| 8. The user replies yes/no. |  |
|  | 9. If the answer is yes goto step 2. Else the system exits. |

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| **Use case: Accept a shipment from a supplier** |  |
| **Actions by the user** | **Response from the system** |
| 1. The user wants to accept a shipment from a supplier. |  |
|  | 2. The system prompts for the supplier ID. |
| 3. The user enters the supplier ID. |  |
|  | 4. The system prompts for the product ID. |
| 5. The user enters the product ID. |  |
|  | 6. The system prompts for the quantity received. |
| 7. The user enters the quantity received. |  |
|  | 8. The system generates all the waitlisted order for that product along with customer ID associated with the waitlist order. |
|  | 9. If there is a waitlisted order the system prompts if the user wants to fulfill that order. It none are left, the system goes to step 12. |
| 10. The user replies yes/no. |  |
|  | 11. If ‘yes’, the system fills the waitlist order for that particular customer until there is enough quantity remaining in stock. The system also updates the quantity of product in stock. If the product runs out of stock goto step 12. If ‘no’ got 9. |
|  | 12. The system asks if the user wants to accept another shipment. |
| 13. The user replies yes/no. |  |
|  | 14. If ‘yes’, goto step 2, else the system exits. |