# Casual Use Case Specification:UC001

**Brief Description: This use case enables an inventory manager to request an additional order of a particular product from the suppliers if its inventory level is low in the warehouse**

# Section 1: Business Rule(s):

BR 01: An item must be ordered from the current contracted supplier

BR 02: An item's product-code must be in the format '#AAA-111-BBB'

BR 03: An item must have a name and start with a letter from 'A to Z'

BR 04: An item must have an item-category and it must start with a letter from 'A to Z'

BR 05: An item's product level must have a numeric amount and cannot be lower than '0'

BR 06: An item's product level must have a numeric value for its price per quantity

BR 07: An item’s price must be in a numeric value in two decimal places

BR 08: An item’s total price must be in a numeric value in two decimal places

BR 09: An item's product level must be below 10% of its total product level to be eligible for restocking

BR 10: An item's current product level in the warehouse cannot be greater than 100% of its total product level

BR 11: An item cannot be ordered more than 100% of its total product level

BR 12: An item cannot be ordered without the inventory manager's final approval

BR 13: An inventory manager must have a first name and start with a letter from 'A to Z'

BR 14: An inventory manager must have a last name and start with a letter from 'A to Z'

BR 15: An inventory manager must have a manager ID in the format 'AAA-111'

BR 16: An inventory manager must have a password in the format 'AAA111'

BR 17: An inventory manager must have a valid employee email address and must end with '@companyname.com'

BR 18: A supplier must have a name and start with a letter from 'A to Z'

BR 19: A supplier must have a valid address information and must be in the format: (Street #)

(Street name) (Street code)

BR 20: A supplier must have a valid phone number in the format: '(111)222-3333'

BR 21: A supplier manager must have a first and start with a letter from ‘A to Z’

BR 22: A supplier manager must have a last name and start with a letter from ‘A to Z’

BR 23: A supplier manager must have a manager ID in the format ‘AAA-111’

BR 24: A supplier manager must have a valid employee email address and must end with’@abcsupplier.com’

BR 25: A supplier manager must have a phone number in the format: ‘(111)222-3333’

BR 26: An item order confirmation number must be in the format: ‘#AAA-111-BBB’

# Section 2: Scenarios (HD):

**Scenario 1: Order a particular product without errors.**

# Preconditions: The inventory manager accesses the warehouse computerized system using employee ID and password. The system displays the Welcome main menu at the beginning.

| **Step#** | **Actor (Inventory Manager)** | **System** | **Data Used** |
| --- | --- | --- | --- |
| 1 | Selects the 'Order Product’ | Displays the “Please input an Item code”.  Prompts to input an item code. |  |
| 2 | Enters the item code  Selects 'continue' | Displays the item validation screen  Validates the item data  Item code is entered  Data is valid  Prompts to continue to the current item status screen  Displays the current item information screen | Item’s  Item code |
| 3 | Select ‘continue’ | Displays the current item information in the warehouse  Prompts to select ‘Cancel order’ or ‘Continue order’  Displays the order purchase screen | Item’s  Item code  Item price  Item quantity  Item’s supplier’s info  Supplier name  Supplier address  Supplier Item code  Supplier Phone number |
| 4 | Enters the wanted item quantity  Selects 'continue' | Validates the data  Desired item quantity entered and is correct  Data is valid  Prompts to reset the entered amount or continue to the final order confirmation process  Displays the final order confirmation screen | Item's  Item code  Item quantity  Item Price |
| 5 | Selects ‘confirm’ | Calculates the entered data and the data is validated  The total item price in a numeric value  Data is valid  Prompts to confirm the item order  Generates and validates an item order confirmation number  An item order confirmation is generated  Data is valid  Displays the 'Order Request Complete' page and displays the Item confirmation number | Item’s  Item code  Item quantity  Item price  Item’s total price  Item Supplier’s  Item code  Item quantity  Item price  Item total price  Item’s  Item order confirmation number |
| 6 | Selects 'No' | Displays message “Order Request Complete”  Displays message “Would like to request another item order”  Prompts to ‘Register’ for another item order or “No’ to return to main menus  Displays the main menu page |  |

**Successful Post-Conditions: The Inventory order is confirmed and requested to the supplier. The system waits on the supplier’s successful confirmation before shipping**

**Scenario 2: Order a particular product with errors**

# Preconditions: The inventory manager accesses the warehouse computerized system using employee ID and password. The system displays the Welcome main menu at the beginning.

| **Step#** | **Actor (Inventory Manager)** | **System** | **Data Used** |
| --- | --- | --- | --- |
| 1 | Selects the 'Order Product’ | Displays the “Please input an Item code”  Prompts to input an item code  Displays the item validation screen |  |
| 2 | Enters the wrong item code  Re-enters the correct item code  Selects ‘continue’ | Validates the item data  Item code is entered  Data is not valid  Prompts to re-enter the item code or return to the main page  Validates the re-entered item data  Item code is entered  Data is valid  Prompts to continue to the current item status screen  Displays the current item information screen | Item’s  Item code  Item’s  Item code |
| 3 | Select ‘continue’ | Displays the current item information in the warehouse  Prompts to select ‘Cancel order’ or ‘Continue order’  Displays the order purchase screen | Item’s  Item code  Item price  Item quantity  Item’s supplier’s info  Supplier name  Supplier address  Supplier Item code  Supplier Phone number |
| 4 | Enters the wanted item quantity  Selects ‘Reset’  Re-enters the wanted item quantity  Selects 'continue' | Validates the data  Desired item quantity entered and is not correct  Data is not valid  Prompts to reset the entered amount or return to the main page  Validates the data  Desired item quantity entered and is correct  Data is valid  Prompts to reset the entered amount or continue to the final order confirmation process  Displays the final order confirmation screen | Item's  Item code  Item quantity  Item Price |
| 5 | Selects ‘cancel’ | Calculates the entered data and the data is validated  The total item price in a numeric value  Data is valid  Prompts to ‘confirm’ or ‘cancel’ the item order  Displays the 'Order Request Failed' page | Item’s  Item code  Item quantity  Item price  Item’s total price  Item Supplier’s  Item code  Item quantity  Item price  Item total price |
| 6 | Selects 'continue' | Displays message “Order Request Failed”  Prompts ‘continue’ to return to the main page  Displays main menu |  |

**Successful Post-Conditions:**

**The Inventory purchase order is canceled and the request is not sent to the supplier.**