Group Number: 5	Page:1
Group Name: SICT	Date: July 30th, 2018
Prepared by: JuAn Kim	Functional Area: Inventory Management

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 (<10%)

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'

Group Number: 5	Page:2
Group Name: SICT	Date: July 30th, 2018
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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	Displays the item validation screen	
		Validates the item data	Item's
		Item code is entered	Item code
		Data is valid	
	Selects 'continue'	Prompts to continue to the current item status screen	
	Colodio committe	Displays the current item information screen	
3		Displays the current item information in the	Item's
		warehouse	Item code
			Item price
			Item quantity
			Item's supplier's info
			Supplier name
			Supplier address
			Supplier Item code
			Supplier Phone number
		Prompts to select 'Cancel order' or 'Continue order'	
	Select 'continue'	Displays the order purchase screen	

Group Number: 5	Page:3
Group Name: SICT	Date: July 30th, 2018
Prepared by: JuAn Kim	Functional Area: Inventory Management

Step#	Actor (Inventory Manager)	System	Data Used
4	Enters the wanted item	Validates the data	Item's
	quantity	Desired item quantity entered and is correct	Item code
		Correct	Item quantity
		Data is valid	Item Price
		Prompts to reset the entered amount or continue to the final order confirmation process	
	Selects 'continue'	Displays the final order confirmation screen	
5		Calculates the entered data and the data is validated	Item's
		The total item price in a numeric value	Item code
		The total item price in a numeric value	Item quantity
		Data is valid	Item price
		Data is valid	Item's total price
			Item Supplier's
			Item code
			Item quantity
			Item price
			Item total price
	Selects 'confirm'	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'	Item's
		page and displays the Item confirmation number	Item order confirmation number

Group Number: 5	Page:4
Group Name: SICT	Date: July 30th, 2018
Prepared by: JuAn Kim	Functional Area: Inventory Management

Step#	Actor (Inventory Manager)	System	Data Used
6		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	
	Selects 'No'		
		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

Group Number: 5	Page:5
Group Name: SICT	Date: July 30th, 2018
Prepared by: JuAn Kim	Functional Area: Inventory Management

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	Validates the item data	
		Item code is entered	Item's
		Data is not valid	Item code
		Prompts to re-enter the item code or return to the main page	
		Validates the re-entered item data	
	Re-enters the correct item	Item code is entered	Item's
	code	Data is valid	Item code
		Prompts to continue to the current item status screen	
	Selects 'continue'	Displays the current item information screen	
3		Displays the current item information in the	Item's
		warehouse	Item code
			Item price
			Item quantity
			Item's supplier's info
			Supplier name
			Supplier address
			Supplier Item code
			Supplier Phone number
		Prompts to select 'Cancel order' or 'Continue order'	
	Select 'continue'	Displays the order purchase screen	

Group Number: 5	Page:6
Group Name: SICT	Date: July 30th, 2018
Prepared by: JuAn Kim Functional Area: Inventory N	

Step#	Actor (Inventory Manager)	System	Data Used
4	Enters the wanted item	Validates the data	Item's
	quantity	Desired item quantity entered and is not	Item code
		correct	Item quantity
		Data is and self-l	Item Price
		Data is not valid	
		Prompts to reset the entered amount or	
	Selects 'Reset'	return to the main page	
		Mar have the day	
	Re-enters the wanted item	Validates the data	
	quantity	Desired item quantity entered and is correct	
		Data is valid	
		Prompts to reset the entered amount or	
	Selects 'continue'	continue to the final order confirmation	
		process	
		Displays the final order confirmation	
		screen	
5		Calculates the entered data and the data is validated	Item's
		The total item price in a numeric value	Item code
		The total item price in a numeric value	Item quantity
			Item price
			Item's total price
			Item Supplier's
			Item code
			Item quantity
			Item price
		Data is valid	Item total price
		Prompts to 'confirm' or 'cancel' the item	
	Selects 'cancel'	order	
	23.33.0 34.1337		
		Displays the 'Order Request Failed' page	

Group Number: 5	Page:7
Group Name: SICT	Date: July 30th, 2018
Prepared by: JuAn Kim Functional Area: Inventory	

Step#	Actor (Inventory Manager)	System	Data Used
6		Displays message "Order Request Failed"	
		Prompts 'continue' to return to the main page	
	Selects 'continue'		
		Displays main menu	

Successful Post-Conditions:

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