

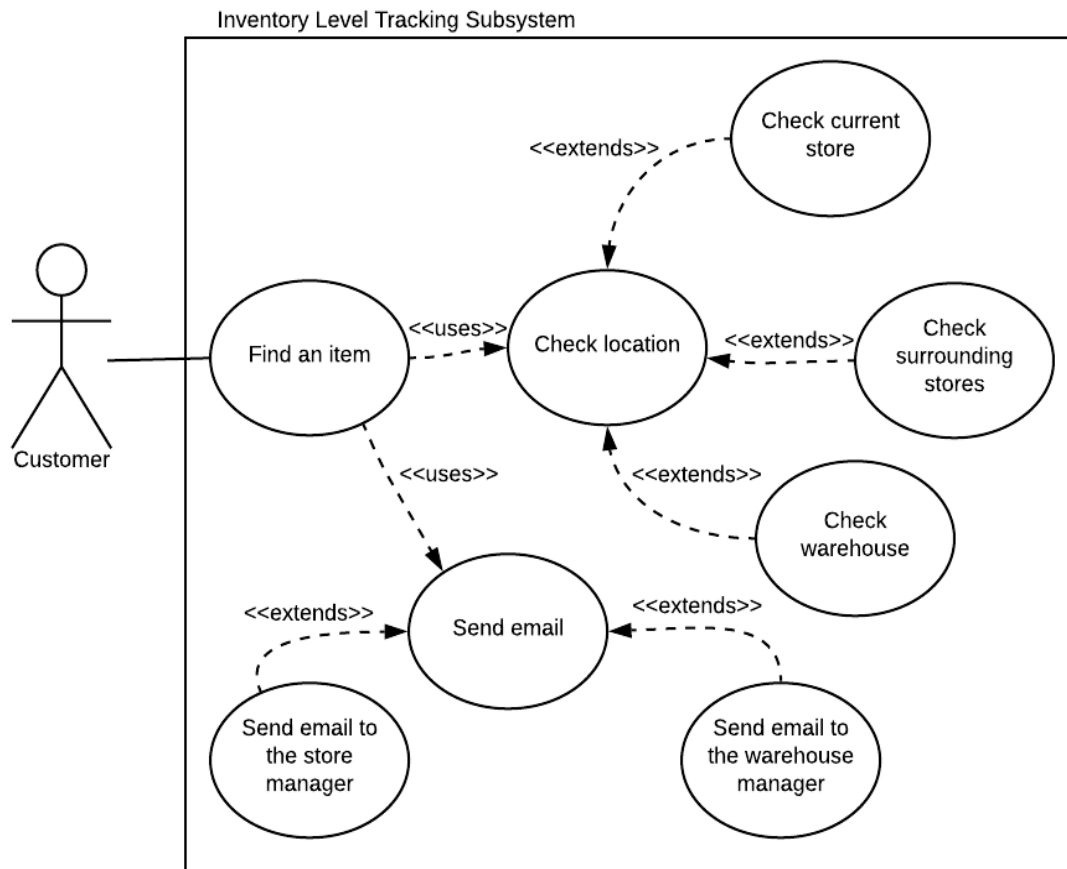
PROG 1150
Milestone 3: UML Analysis
Due date: March 25, 2019
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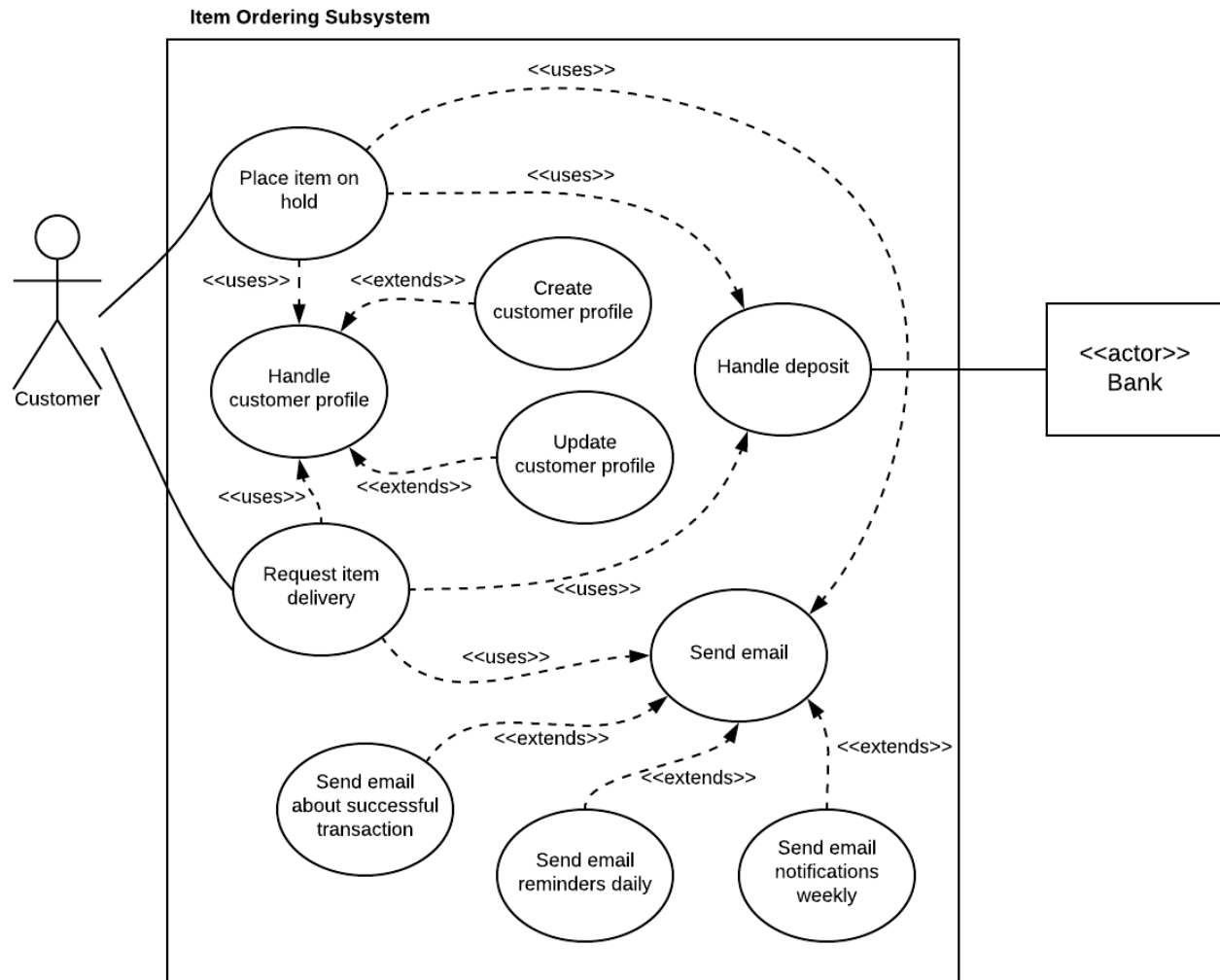
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1. Use Case Diagrams

1.1. Inventory Level Tracking Subsystem



1.2. Item Ordering Subsystem



2. Use Case Descriptions

2.1. Find an Item

Name	Find an item	
Scenario	Customer requests to find an item	
Trigger	Customer chooses the option “Find this item” in GIORP	
Brief Description	System determines where the requests item is found – current store, surrounding stores or warehouse and displays the information.	
Actors	Customer	
Related Use Cases	Uses: Send email, Check current store, Check surrounding stores, Check Warehouse.	
Main Success Scenario	Customer	System
	1. Select the item	2. Search for this item in current store (see UC “Check current store”) 3. Locate the item in current store 4. Redirect to the Item Mapping Subsystem
Exception Scenarios	<p>3.1. Item not found in the current store</p> <p>3.1.1. System sends email to the store manager about the out of stock item (see UC “Send email to the store manager”)</p> <p>3.1.2. System informs the customer that the item is not found and prompts if they want to expand search to include surrounding stores</p> <p>3.1.3. Customer enters the search radius</p> <p>3.1.3.1. Customer refuses to continue – end of use</p> <p>3.1.4. System searches for this item in surrounding stores (see UC “Check surrounding stores”)</p> <p>3.1.5. System locates the item in the surrounding store</p> <p>3.1.5.1. Item not found in surrounding stores – resume at 3.2.</p> <p>3.1.6. System prompts the customer for what to do they want to do with it – get it themselves or place it on hold</p> <p>3.1.7. Customer selects “get it myself” – redirect to Item Mapping Subsystem; end of use</p> <p>3.1.7.1. Customer selects “place on hold” – redirect to Item Ordering Subsystem; end of use</p> <p>3.1.7.2. Customer refuses to continue – end of use</p> <p>3.2. Item not found in surrounding stores</p>	

	<p>3.2.1. System sends emails to store managers about the out of stock item (see UC "Send email to the store manager")</p> <p>3.2.2. System informs the customer that the item is not found and prompts if they want to expand search include the warehouse</p> <p>3.2.3. Customer agrees to expand the search</p> <p>3.2.3.1. Customer refuses to continue - end of use</p> <p>3.2.4. System locates the item in the warehouse (see UC "Check warehouse")</p> <p>3.2.4.1. Item is out of stock in the warehouse - resume at 3.3</p> <p>3.2.5. System sends email to store managers that items missing are present in the warehouse (see UC "Send email to warehouse manager")</p> <p>3.2.6. System informs the customer that item is present in the warehouse and prompts if they want to check back later or get it delivered right now</p> <p>3.2.7. Customer wants item to be delivered - redirect to Item Ordering Subsystem; end of use</p> <p>3.2.7.1. Customer wants to wait - end of use</p> <p>3.3. Item not found in the warehouse</p> <p>3.3.1. System sends email to the warehouse manager about this issue</p> <p>3.3.2. System informs customer that the item is out of stock - check back later; end of use</p>
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2.2. Place Item on Hold

Name	Place item on hold	
Scenario	Customer requests to place an item from a surrounding store on hold	
Trigger	Customer chooses the option “Place item on hold” in GIORP	
Brief Description	The item requested by the customer was not found in current store but was found in a surrounding store, customer requested to place it on hold	
Actors	Customer, Bank	
Related Use Cases	Uses: Handle customer profile, Handle deposit, Send email	
Main Success Scenario	Customer	System
	1. Selects an item to be delivered 3. Enters email 5. Selects “no” 7. Swipes the card	2. Prompts for an email to find customer profile 4. Locates profile, asks if it needs to be updated 6. Informs about the need of 30% deposit and asks to swipe a card 8. Communicates with the bank to determine if the transaction was successful (see UC “Handle deposit”) 9. Hears from bank that transaction was successful 10. Informs the customer about it, prints the receipt and sends an email copy of the receipt to the customer 11. Updates the customer profile 12. Sends email reminders to the customer daily for 2 weeks (see UC “Send email”)
Exception Scenarios	3.1. Customer refuses to enter email – end of use 4.1. Customer profile does not exist (see UC “Create customer profile”) 4.1.1. System prompts for customer information 4.1.2. Customer enters the information 4.1.2.1. Customer refuses to enter information – end of use 4.1.3. System creates customer profile – resume at step 6 5.1. Customer selects “yes” (see UC “Update customer profile”) 5.1.2. System prompts for information to update	

	<ul style="list-style-type: none"> 5.1.3. Customer enters the information 5.1.4. System updates the profile - resume at step 6 9.1. Bank says that transaction failed <ul style="list-style-type: none"> 9.1.1. System informs the customer about it - end of use 12.1. Customer purchased the item - end of use 12.2. Two weeks have elapsed <ul style="list-style-type: none"> 12.2.1. System sends an email to the customer about the forfeited deposit 12.2.2. Takes the item off hold - end of use
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2.3. Request Item Delivery

Name	Request item delivery	
Scenario	Customer requests to deliver an item from the warehouse to current store	
Trigger	Customer chooses the option “Deliver this item” in GIORP	
Brief Description	The item requested by the customer was not found in current store or surrounding stores but was found in the warehouse, customer requested to deliver this item to the current store	
Actors	Customer, Bank	
Related Use Cases	Uses: Handle customer profile, Handle deposit, Send email	
Main Success Scenario	Customer	System
	1. Selects an item to be placed on hold 3. Enters email 5. Selects “no” 7. Swipes the card	2. Prompts for an email to find customer profile 4. Locates profile, asks if it needs to be updated 6. Informs about the need of 20% deposit and asks to swipe a card 8. Communicates with the bank to determine if the transaction was successful (see UC “Handle deposit”) 9. Hears from bank that transaction was successful 10. Informs the customer about it, prints the receipt and sends an email copy of the receipt to the customer 11. Updates the customer profile 12. Sends email notification once the item is delivered. 13. Sends email notification weekly until item is picked up (see UC “Send email”)
Exception Scenarios	3.1. Customer refuses to enter email – end of use 4.1. Customer profile does not exist (see UC “Create customer profile”) 4.1.1. System prompts for customer information 4.1.2. Customer enters the information – resume at step 6 4.1.2.1. Customer refuses to enter information – end of use 5.1. Customer selects “yes” (see UC “Update customer profile”)	

	<p>5.1.2. System prompts for information to update</p> <p>5.1.3. Customer enters the information</p> <p>5.1.4. System updates the profile - resume at step 6</p> <p>9.1. Bank says that transaction failed</p> <p>9.1.1. System informs the customer about it - end of use</p> <p>12.1. Customer purchased the item - end of use</p>
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