

Requirements Specification Document

Inventory Management System

Inventoria

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Revision History

Name	Date	Reason for Changes	RSD Version
Team	10-Feb-2020	Requirements document 1.0	0.0
Team	14-Feb-2020	Modified document to conform to marker and client feedback.	0.1
Amaan	14-Feb-2020	Added use cases for Sections 3.1 and 3.5.	0.2
Cameron	14-Feb-2020	Added use cases for Section 3.6.	0.3
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Omar	14-Feb-2020	Added use cases for Section 3.4.	0.5
Elizabeth	14-Feb-2020	Added use cases for Section 3.3.	0.6
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Siddhant	17-Feb-2020	Added use case diagram.	0.8
Team	17-Feb-2020	Draft of the Requirements Specification Document.	0.9
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Cameron	17-March-2020	Added sequence diagrams for feature 6.	2.6
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Team	24-March-2020	Added rationales for all functional requirements.	3.5
Team	24-March-2020	Added test scenarios.	3.6
Team	25-March-2020	Add traceability matrix.	3.7
Team	25-March-2020	The draft version of the Requirements Specification Document Final.	3.8
Team	25-March-2020	The final version of the Requirements Specification Document Final.	4.0

1 Introduction

1.1 Purpose

The purpose of the following Requirements Specification Document Final (RSD Final) is to describe the functionalities for Kevin's Convenience Store's Inventory Management System. The client organization, Kevin's Convenience Store found that their employees had a hard time maintaining and tracking product information, keeping up with the expiration dates and finding any discrepancies using spreadsheets. This system is a solution to eliminate the need for physical spreadsheets by having all product information digitized. The functionalities in this document represent the main features of the Inventory Management System's methods of adding and removing inventory, managing orders, and user interaction. It will be integrated with existing systems and processes in place.

1.2 Project Scope

The scope of the solution system will cover the software used to manage inventory, new hardware needed to collect and interpret data, and the interactions required between the current systems and the new system. This resulting system is intended to be a simpler and cheaper alternative to the current, larger and more expensive systems used in major grocery store chains. The desired outcome for the solution system will increase inventory accuracy, lower product losses, and optimize the ordering of products.

1.3 Glossary of Terms

Term	Definition
Administrator	A user with special access due to their responsibilities, privileges, or position.
DFD	Data Flow Diagram, a diagram to show the flow of data in and outside the system.
Discrepancy	An inconsistency arising from the comparison between two or more facts.
ER Diagram	Entity Relationship Diagram, a diagram to define the relationship between entities within the system.
Inventory	The number of items of a given product that is currently at the store location.
Item	A single instance of a product.
Order summary	A PDF file that contains the list of products which is used to place orders to distributors

POS	Point of Sales, the machine at which the merchant conducts a transaction with a customer.
Product	An article or substance that is manufactured or refined for sale.
SKU	The number assigned to a product by a retail store to identify the price, product options and manufacturer of the merchandise.
UI	User Interface, space where interactions between humans and machines.

1.4 References

- [1] *Request for Proposal*, Kevin's Convenience Corner, 2020 [Online]. Available: [RFP - Inventory System.pdf](#). [Accessed: 25- Jan- 2020].
- [2] "Kevin's Convenience Corner", 2020. [Online]. Available: <https://sites.google.com/view/kevins-convenience-corner/home>. [Accessed: 24- Mar- 2020].
- [3] *Requirements Specification Document 3.1*, Kevin's Convenience Corner, 2020 [Online]. Available: [RSD1.1Group9.pdf](#). [Accessed: 24- Mar- 2020].

1.5 Overview

This document, RSD Final, is the fourth revision of the Requirements Specification Document written for Kevin's Convenience Corner's Inventory Management System. The document begins by providing an overall description of the system. This section helps to understand the main features the system will have, the targeted users and the operating environment. This section also contains some of the assumptions that have been made and the dependencies for the solution system. The next section overviews the six main system features and the corresponding use cases of the Inventory Management System, as well as the interaction of these use cases in system sequence diagrams. Each feature has a list of functional requirements and has also been given a priority. The following section, the External Interface Requirements section defines the different interfaces required to interact with the system. Other non-functional requirements follow in the next section, defining requirements for performance, security and software quality. The sixth section showcases data flow diagrams for the Inventory Management System at three levels. Following that is an entity-relationship diagram and the corresponding data dictionary are included to visualize the various relationships of the Inventory Management System. Following that, the high-fidelity prototype of the interface and storyboards of the Inventory Management System are then outlined to showcase the use of the application. Finally, there is a section for test scenarios and traceability matrices.

2 Overall Description

This section gives a brief overview of the Inventory Management System's Requirements Specification Document. The section provides information regarding the business goals for the system and the information about the problem domain.

2.1 Product Perspective

To improve and digitize the existing inventory records of the organization management system, a convenience store inventory management system is needed. It can be integrated with existing systems and processes in place to synchronize the various systems of the store. This will synchronize all product information and their quantities promptly, reducing the frequency of product shortages and the number of products that expire before they are sold.

2.2 Product Features

The solution system is a web-based inventory subsystem. Users can use it to add inventory or remove damaged and expired goods. The system will record the products' information, including shelf life, expiration date reminders, SKU, and track the total quantity. Order summary lists and shipping arrival dates will be recorded in the system. When the expiry date of a product is approaching, or when the inventory of a product is low, the system will notify the user and provide them with the relevant notification.

2.3 User Classes and Characteristics

Two types of users interact with the system: support staff and store managers. Each user has different privileges of the system based on functional and administrative requirements.

2.3.1 Support Staff

The support staff will be able to use the web application to check the information of products, scan-in inventory or scan-out expired/damaged products using the products' barcode. Actions such as scan-in and scan-out that modifies the overall inventory system require administrator approval. As a security measure, the support staff has the least privileges.

2.3.2 Store Managers (Administrator)

The store managers will interact with the system with full administrative privileges, interacting with the web portal to manage the overall system. Store managers can manually modify inventory data, place orders to distributors, manipulate expiry dates, as well as manage account

privileges. Store managers also have the responsibility of approving or denying modification or deletion requests made by support staff.

2.4 Operating Environment

This system is web-based and supports accessibility through desktop and mobile devices. The system will contain iOS and android functionalities to increase usability across mobile devices. The web and mobile user interfaces share the same UI functionality and database. The mobile application will have a dynamically sized UI to increase the support of mobile users. Product information is gathered by scanning the product barcode using a scanner which is uploaded to the database upon completion.

2.5 Design and Implementation Constraints

The digital system made by the developers would be subject to the following constraints:

1. The system must be accessible to users with physical disabilities and color blindness. Therefore, the system UI must employ the use of symbols, larger buttons, a minimalistic interface, as well as avoid using color to convey actions or context.
2. The system will be accessible on both mobile devices and desktop computers. This means that the website will be mobile friendly and scale down effectively along with its interface and menus to fit the device's dimensions.
3. The system must make use of the software infrastructure already in place at the store including any established databases or tools.
4. The solution system must integrate with the current POS system.
5. Inventoria would be responsible for maintaining the designed software following deployment. This includes performing regular maintenance checks, security updates, and software updates.

2.6 Assumptions and dependencies

2.6.1 Assumptions

For the scope of this project, the following assumptions are made:

1. The expiry date of a product, except for fresh produce, would be embedded in the barcode of that product.
2. The store staff would be responsible for dealing with products nearing their expiration date and in the event of discrepancies arising in data.
3. Each product has one unique barcode which is equivalent throughout duplicates of that product.
4. Kevin's Convenience Store would be responsible for any direct communication with the distributors.
5. All produce doesn't have an entered expiry date instead staff is to remove the products as required.

2.6.2 Dependencies

The system would have the following dependencies:

1. All Kevin's Convenience Store branches must have a stable internet connection to maintain accurate and real-time data distribution between the systems.
2. The system would utilize a new database to store the current inventory and associated product information.
3. The system would utilize the current POS system to update the inventory.

3 System Features

This section describes the six main features of the system which are relevant to its primary operations. This section contains uses-cases for each feature, as shown in **Figure 3.1** below.

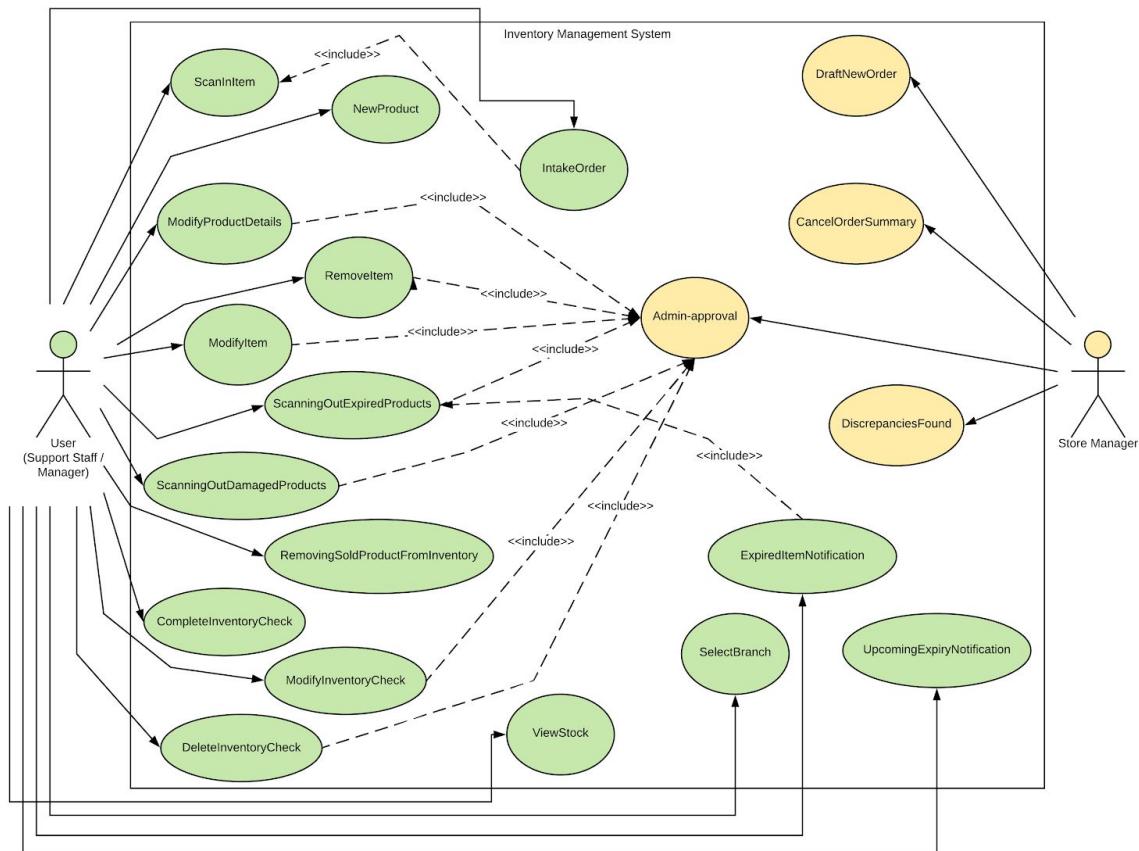


Figure 3.1 Use case diagram

3.1 Scan-in Inventory

3.1.1 Description and Priority

This feature will allow users to scan-in inventory that was previously ordered and received into the system for tracking. Users will be able to scan or select a product and enter the number of products being added. The barcode of the product will contain the expiry dates. If the expiry date is unavailable, the user will manually enter the batch expiry date. This feature is the entry point for all tracked products and is of **high priority**.

3.1.2 Functional Requirements

REQ-1-1: The user must be able to add items by scanning the product barcode.

Rationale: Items have expiry dates and other details embedded within the barcode and scanning the barcode can reduce the difficulty in adding items and finding products.

REQ-1-2: The user must be able to add items by finding them in a categorized product list, by sorting them in alphabetical order, or by searching the product list.

Rationale: To add an item the product must be known to retrieve its details. To find a product the user can search for the product's name and sort the results or find the product by sorting the item based on its name or category.

REQ-1-3: The number of items being added must be specified by the user.

Rationale: For the Inventory Management System to properly track the item the quantity must be known.

REQ-1-4: The user must specify the category of the product, the SKU, and the expiry date notification timeframe (for products with expiry dates) if the product has not been entered before.

Rationale: These product details must be known for the Inventory Management System to correctly add items and to provide notifications regarding expiry dates if needed.

REQ-1-5: The user must enter an expiry date for perishables if not obtained from the barcode.

Rationale: All perishable expiry dates must be known for the Inventory Management System to properly track the item and to ensure customer safety.

REQ-1-6: The support staff user must request approval from the store manager to allow the modification or removal of inventory products.

Rationale: To ensure the change or removal of a product is correct the store manager must review the changes and approve them before the changes take effect.

REQ-1-7: The store manager must be able to approve or decline support staff requests to modify or remove inventory and products.

Rationale: For the changes to occur in the system the store manager must approve the requests created by the support staff. If the request is incorrect or the store manager requires more details, they may decline it and the changes will not occur. All store manager changes do not need approval and take effect immediately.

3.1.3 Use Cases

UC-1-1: ScanInItem
ID: UC-1-1
Description: The user can enter the product into the inventory management system.
Actor(s): User (support staff or store manager).
Preconditions: None.
Main Flow: <ol style="list-style-type: none">1. The user selects “Add Item”.2. The user locates the barcode, name, or SKU on the product.3. If the desired product information is retrieved from the barcode, then<ol style="list-style-type: none">3.1. If the product exists in the database, then<ol style="list-style-type: none">3.1.1. The item information is entered into the new batch.Else3.1.2. Include(AddNewProduct)Else3.2. The user enters the product information manually4. The item quantity is selected.5. The user confirms the new item entry.
Postconditions: The inventory is added.
Alternative Flow(s): 3.1 b) AddNewProduct 5 b) Cancel

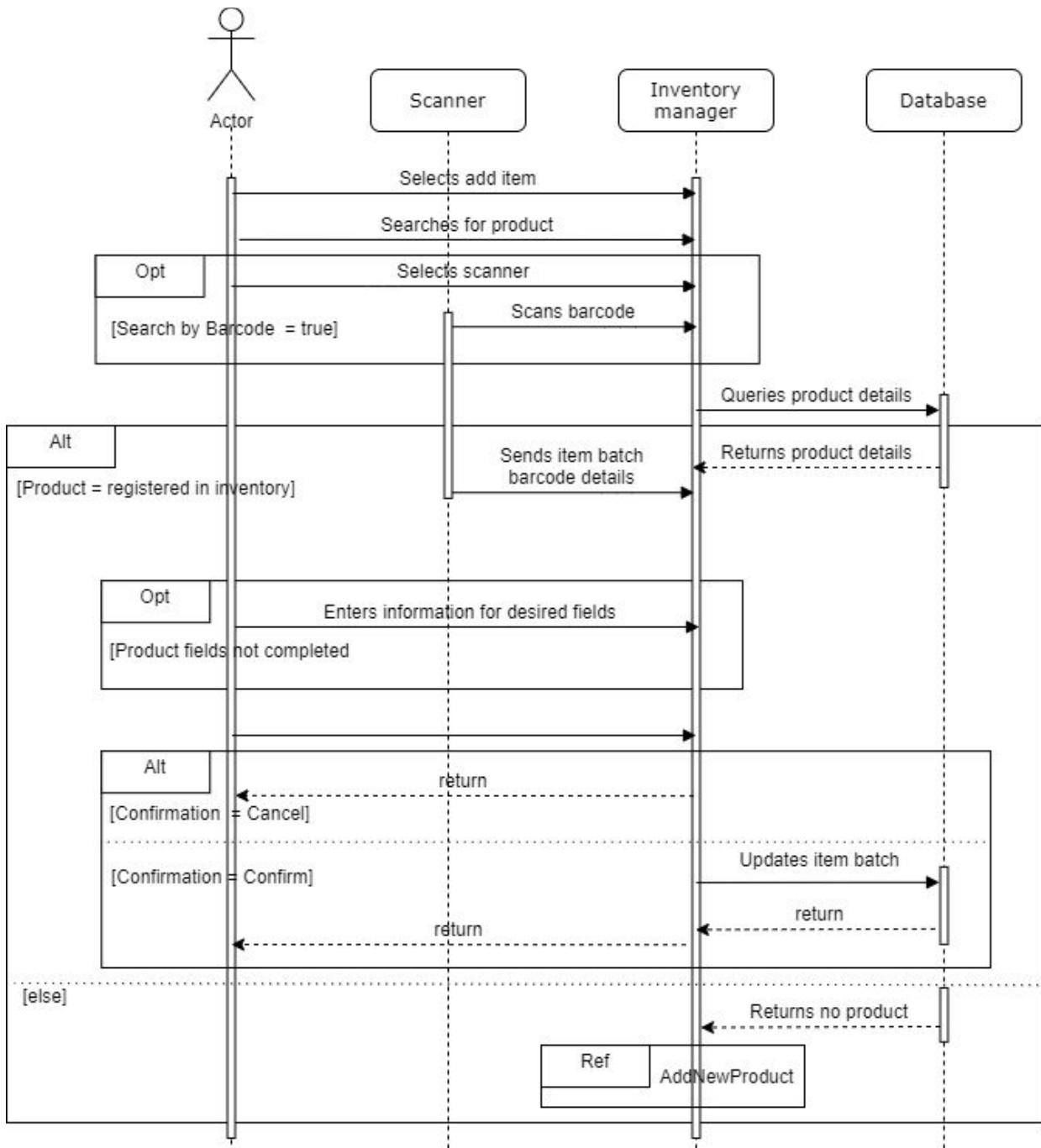


Figure 3.1.1 Scan-In Item Sequence Diagram

AF-1-1: AddNewProduct

ID: AF-1-1

Description: The products category, SKU, name, description, and expiry notification length (if applicable) are entered by the user.

Actor(s): User (support staff or store manager).

Preconditions: The product doesn't exist in the system.

Alternate Flow:

1. The user scans the barcode of the product.
2. The user enters the product's name and description.
3. The system generates an SKU for the product.
4. The user selects the product category.
5. The user selects the product's expiry notification length.
6. The user "Confirms" the product's details.

Postconditions: The product is created.

Alternative Flow(s):

5 b) Cancel current inventory transaction (Cancel All)

5 b) Cancel

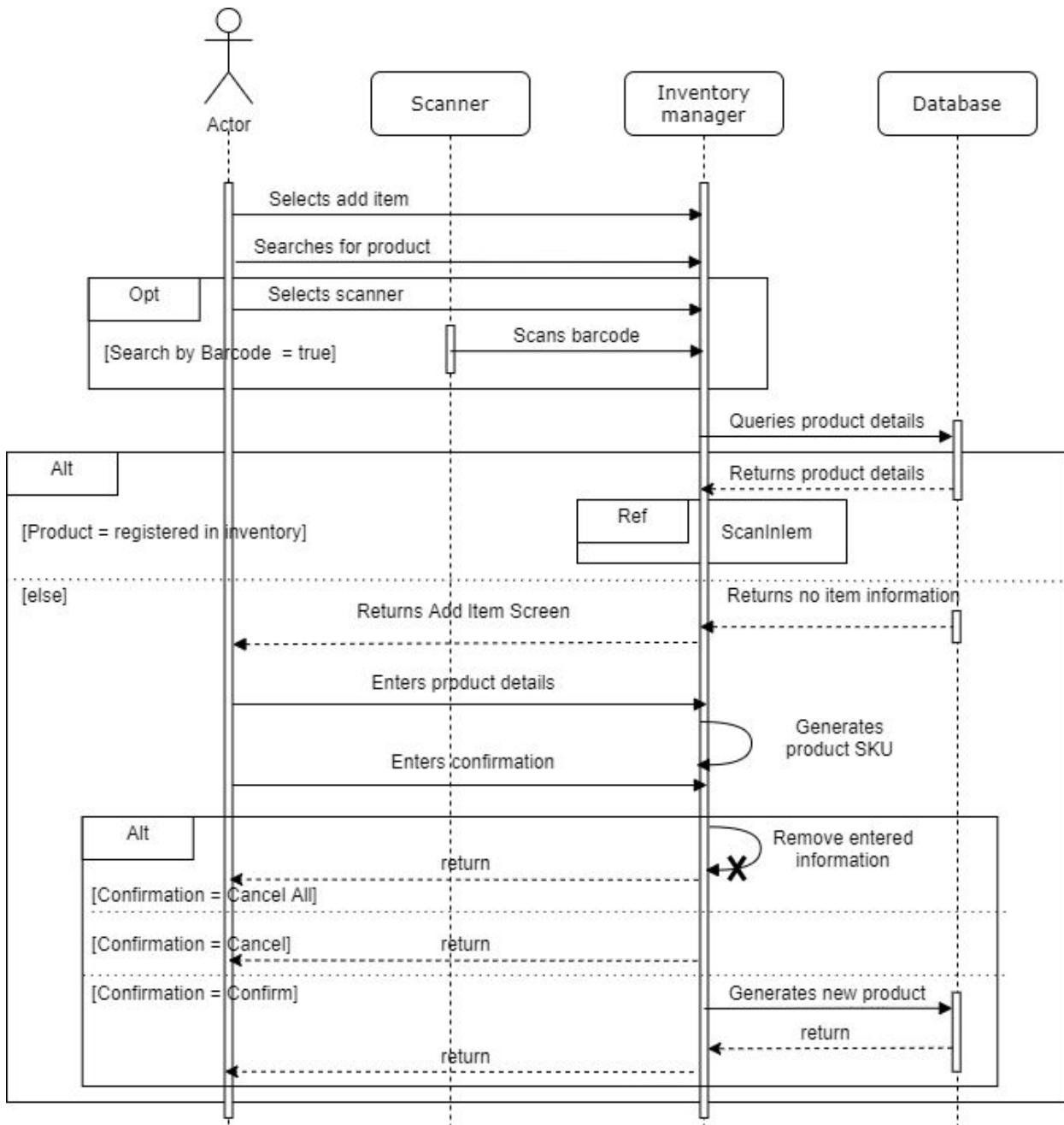


Figure 3.1.2 Add New Product Sequence Diagram

UC-1-2: ModifyProductDetails
ID: UC-1-2
Description: The product's category, SKU, name, description, and expiry notification length (if applicable) can be modified by the user.
Actor(s): User (support staff or store manager).

Preconditions: The product exists in the system.

Main Flow:

1. The user can find the product in the “Dashboard”.
2. The product can be found in alphabetical order, by category, by scanning the barcode or using the search bar.
3. The user selects the product and navigates to the “Product Information” tab.
4. The user selects Modify Product to enter any changes.
5. If the user wants to edit the SKU, then
 - 5.1. The SKU must be unique.
 - 5.2. While the SKU is not unique
 - 5.2.1. The user is unable to change the SKU to the generated value.
6. The user “Confirms” the changes.
7. If the user is support staff, then
 - 7.1. Include(AdminApproval).

Postconditions: The product’s information is updated.

Alternative Flow(s):

6 b) Cancel

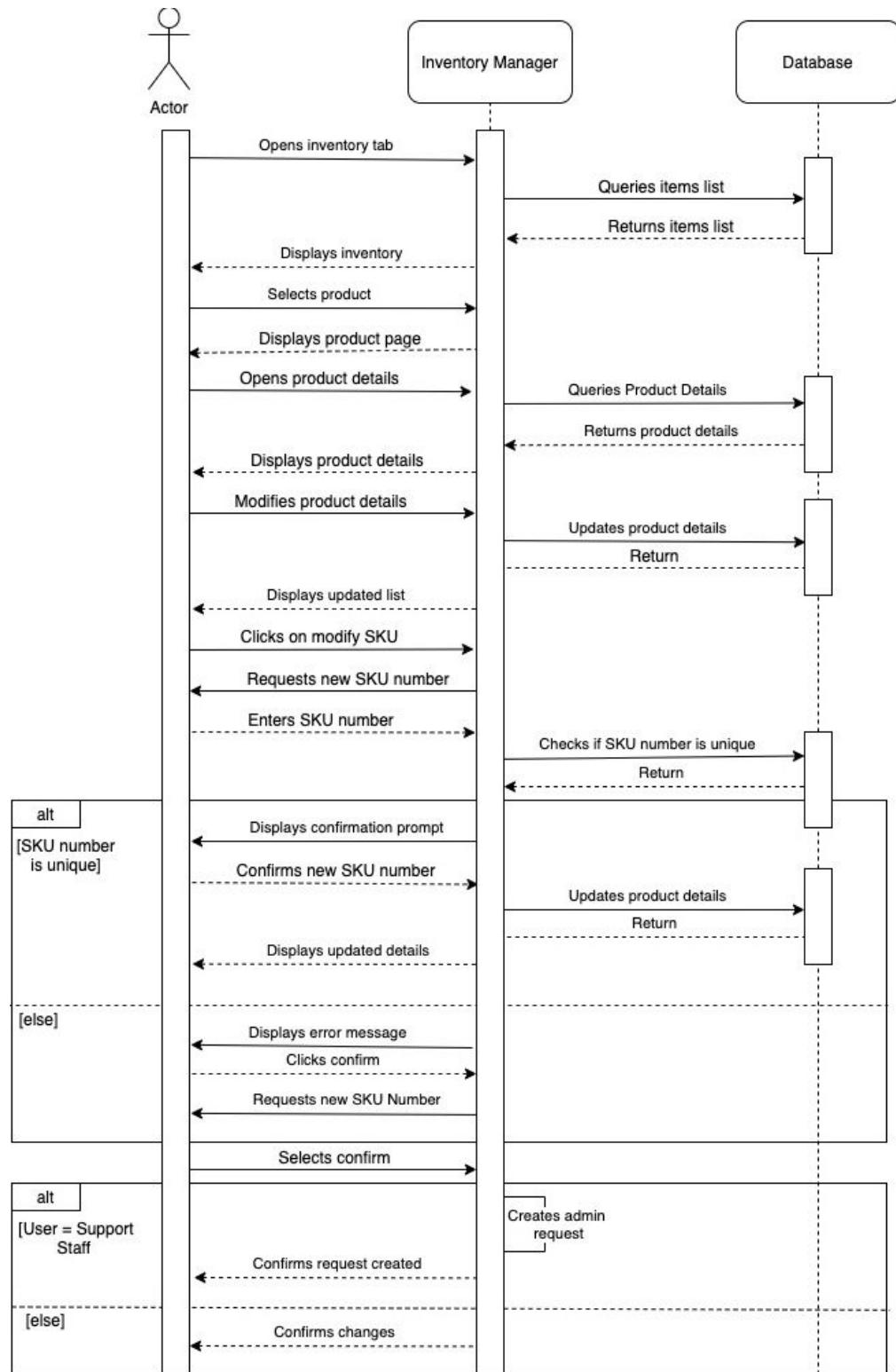


Figure 3.1.3 Modify Product Details Sequence Diagram

UC-1-3: RemoveItem
ID: UC-1-3
Description: Users can remove items that have been added.
Actor(s): User (support staff or store manager).
Preconditions: The item has been added.
<p>Main Flow:</p> <ol style="list-style-type: none"> 1. The user can find the product in the “Dashboard”. 2. The product can be found in alphabetical order, by category, by scanning the barcode or using the search bar. 3. The user selects the product and navigates to the “Product Information” tab. 4. The user selects “Remove Product”. 5. The user “Confirms” the entry. 6. If the user is support staff, then <ol style="list-style-type: none"> 6.1. Include(AdminApproval).
Postconditions: The item entry has been updated.
<p>Alternative Flow(s):</p> <p>5 b) Cancel</p>

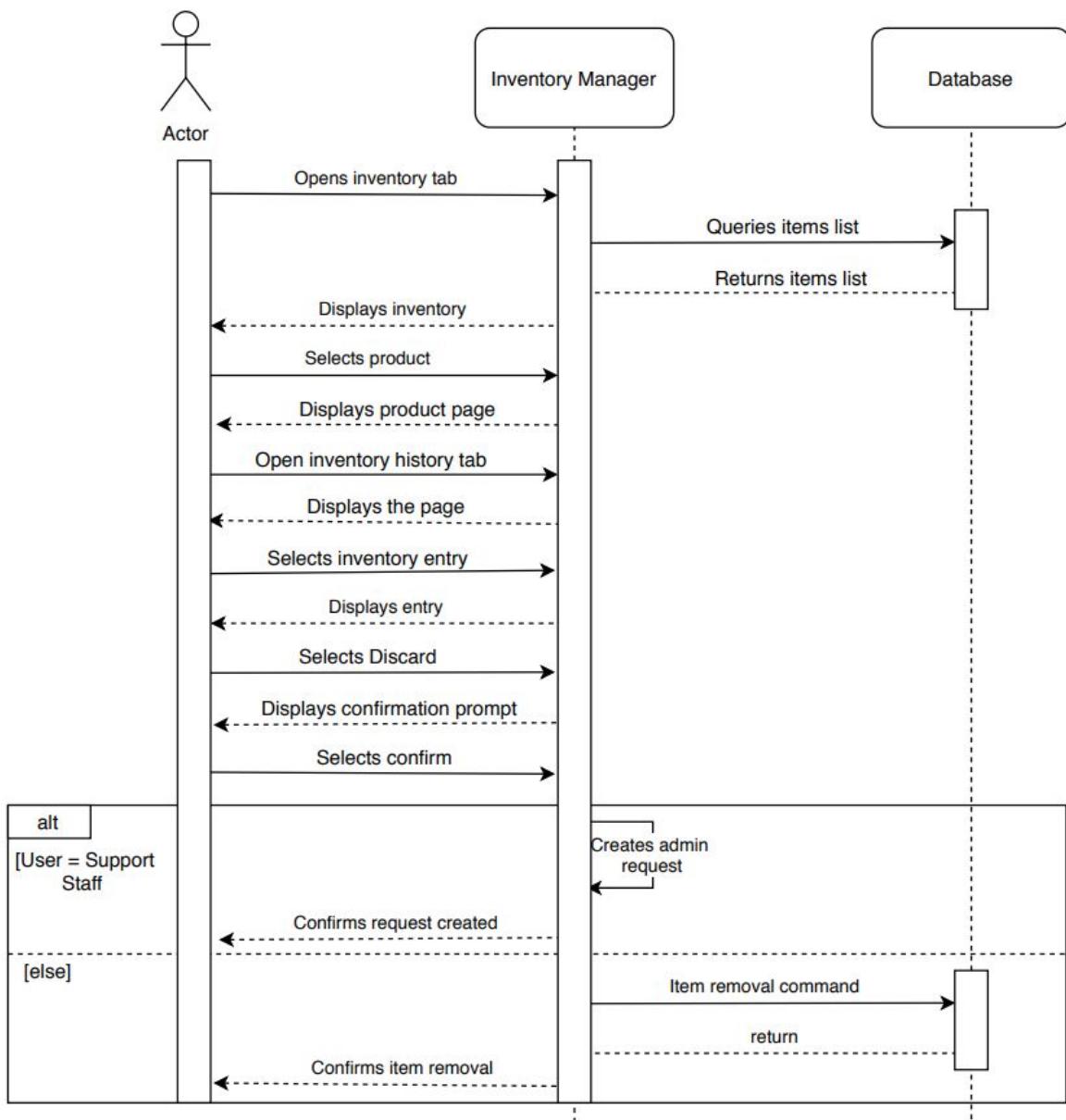


Figure 3.1.4 Remove Item Sequence Diagram

UC-1-4: ModifyItem
ID: UC-1-4
Description: Users can modify the details of inventory that have been added.
Actor(s): User (support staff or store manager).
Preconditions: The product exists in the system.

Main Flow:

1. The user can find the product in the “Dashboard”.
2. The product can be found in alphabetical order, by category, by scanning the barcode or using the search bar.
3. The user selects the product and navigates to the “Product History” tab which shows the current product entries, the intake orders, the expired and damaged items that were removed.
4. The user selects the inventory entry that they want to modify.
5. The user may modify the item quantity.
6. If the category contains an expiry date, then
 - 6.1. The user may enter a modified expiry date.
7. If the user made modifications, then
 - 7.1. The user can “Confirm” the changes.
 - 7.2. If the user is support staff, then
 - 7.3. Include(AdminApproval).

Postconditions: The inventory entry has been updated.

Alternative Flow(s):

- 7.1 b) DiscardChanges

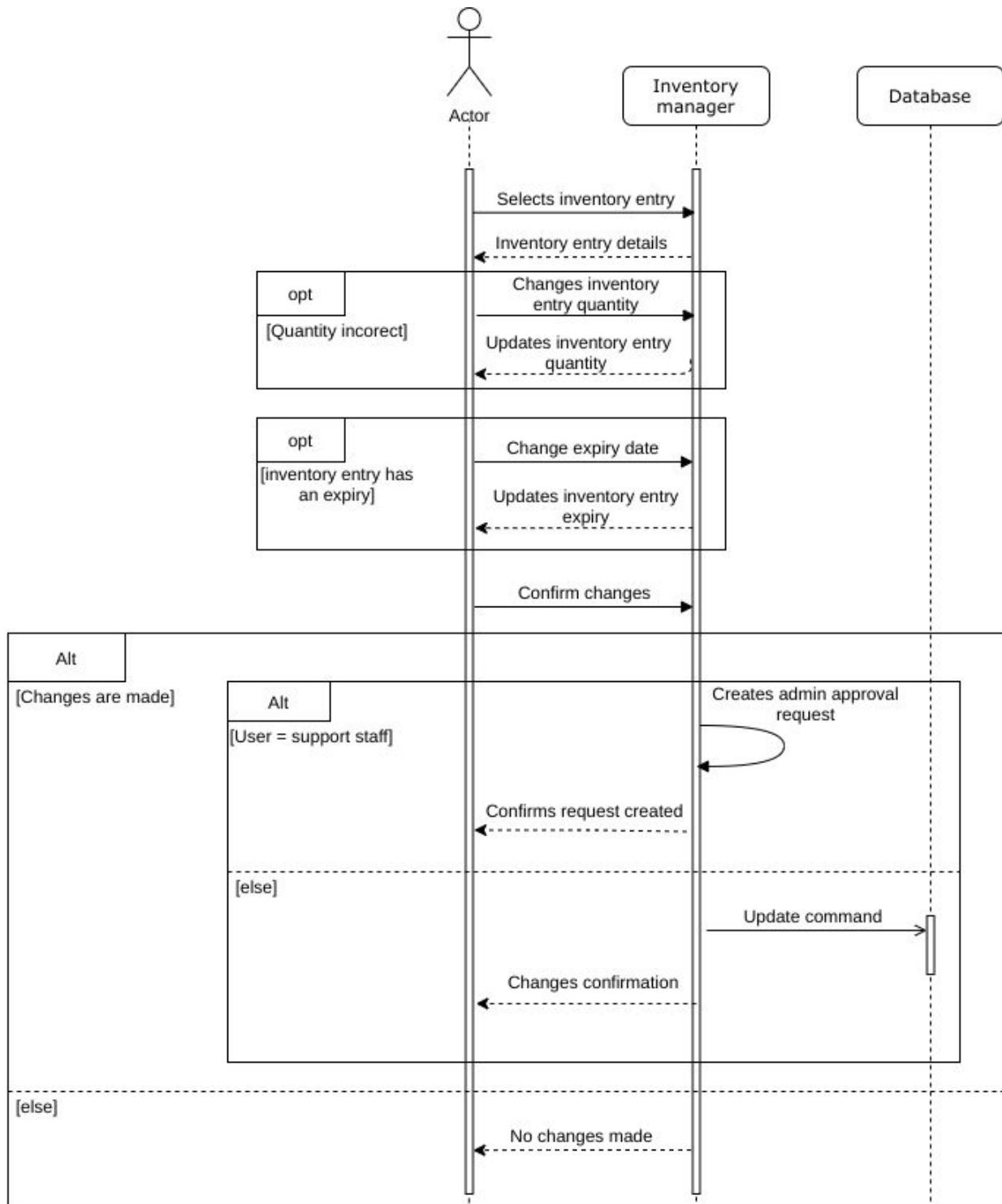


Figure 3.1.5 Modify Item Sequence Diagram

UC-1-5: AdminApproval

ID: UC-1-5

Description: A store manager can approve, decline, or ask for more details when a support staff requests a change.

Actor(s): Store manager.

Preconditions: Support staff request to modify or remove an item.

Main Flow:

1. The store manager goes to the “Requests” tab.
2. The store manager can view the changes made by the support staff.
3. If the store manager approves of the change, then
 - 3.1. The store manager “Approves” the request.
4. If the store manager doesn't agree with the changes, then
 - 4.1. The store manager “Declines” the request.

Postconditions: The requesting support staff is notified of the decision of the change.

Alternative Flow(s): None.

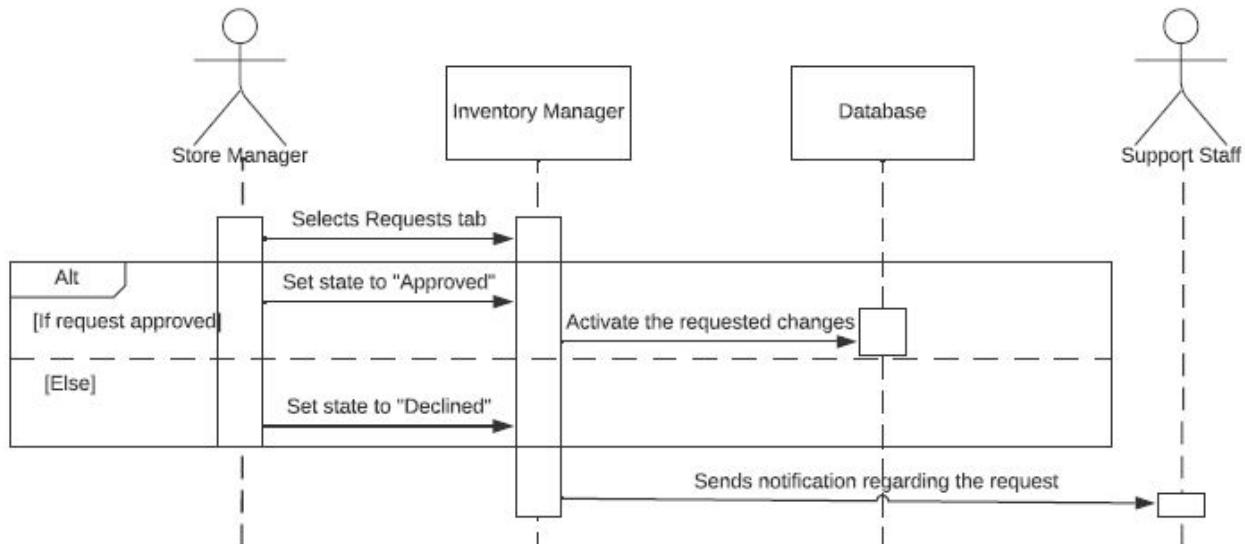


Figure 3.1.6 Admin Approval Sequence Diagram

3.2 Scan-out Sold/Discarded Inventory

3.2.1 Description and Priority

Scanning out inventory is a crucial feature for the overall inventory management system. This feature will allow products to be scanned out of the system and remove them from the current store inventory. This may be done for two reasons: the product has been purchased or the product has been damaged. The resulting actions are to either remove the product from inventory and categorize it under Sales or to remove the product from inventory and categorize it under losses. The requirement priority of this feature is a **high priority**.

3.2.2 Functional Requirements

REQ-2-1: The product once sold through the POS system must be removed from inventory, then categorized under Sales.

Rationale: To properly track the current inventory and the items that are sold items must be removed from inventory after they are sold.

REQ-2-2: Damaged or expired products can be scanned to remove it from inventory, then categorized appropriately.

Rationale: To properly track the current inventory and the items that are damaged including the cause of the damages a user must be able to remove items from inventory and mark them as damaged.

REQ-2-3: Products removed from inventory through scanning (excluding scanning through the POS system) must be categorized under either Expired or Damaged.

Rationale: This is needed so that every time a user removes an item from inventory it is tracked as either an expired or damaged item.

REQ-2-4: Products can be scanned out of inventory by store managers without waiting for approval.

Rationale: Users with administrative privileges should interact with the system differently based on their access rights and can skip admin approval processes.

REQ-2-5: Support staff must request administrative approval to remove items from inventory.

Rationale: Users that do not have administrator privileges must not be able to make any direct changes to the system without admin approval to keep the inventory data accurate.

3.2.3 Use cases

UC-2-1: ScanningOutExpiredProducts	
ID: UC-2-1	
Description: Items that are expired can be scanned to remove them from the current inventory.	
Actor(s): User (support staff or store manager).	
Preconditions: The actor is removing expired items from the shelf and has a scanner in hand.	
Main Flow: <ol style="list-style-type: none">1. The user locates the barcode, name, or SKU on the product.2. The user selects 'Remove item'.3. The user selects the reason for removal as 'Expired'.4. The user scans the barcode, enters the name, or enters the SKU of the product.5. If the user would like to remove multiple items of the product, then<ol style="list-style-type: none">5.1. The user changes the 'Quantity to remove' section from 1 to the desired amount.6. The user verifies the product details and selects 'Confirm'.7. If the user is support staff, then<ol style="list-style-type: none">7.1. Include(AdminApproval).8. The items are removed from inventory and categorized under "Expired".	
Postconditions: The items have been removed from inventory.	
Alternative Flow(s): 5.1 b) DiscardChanges	

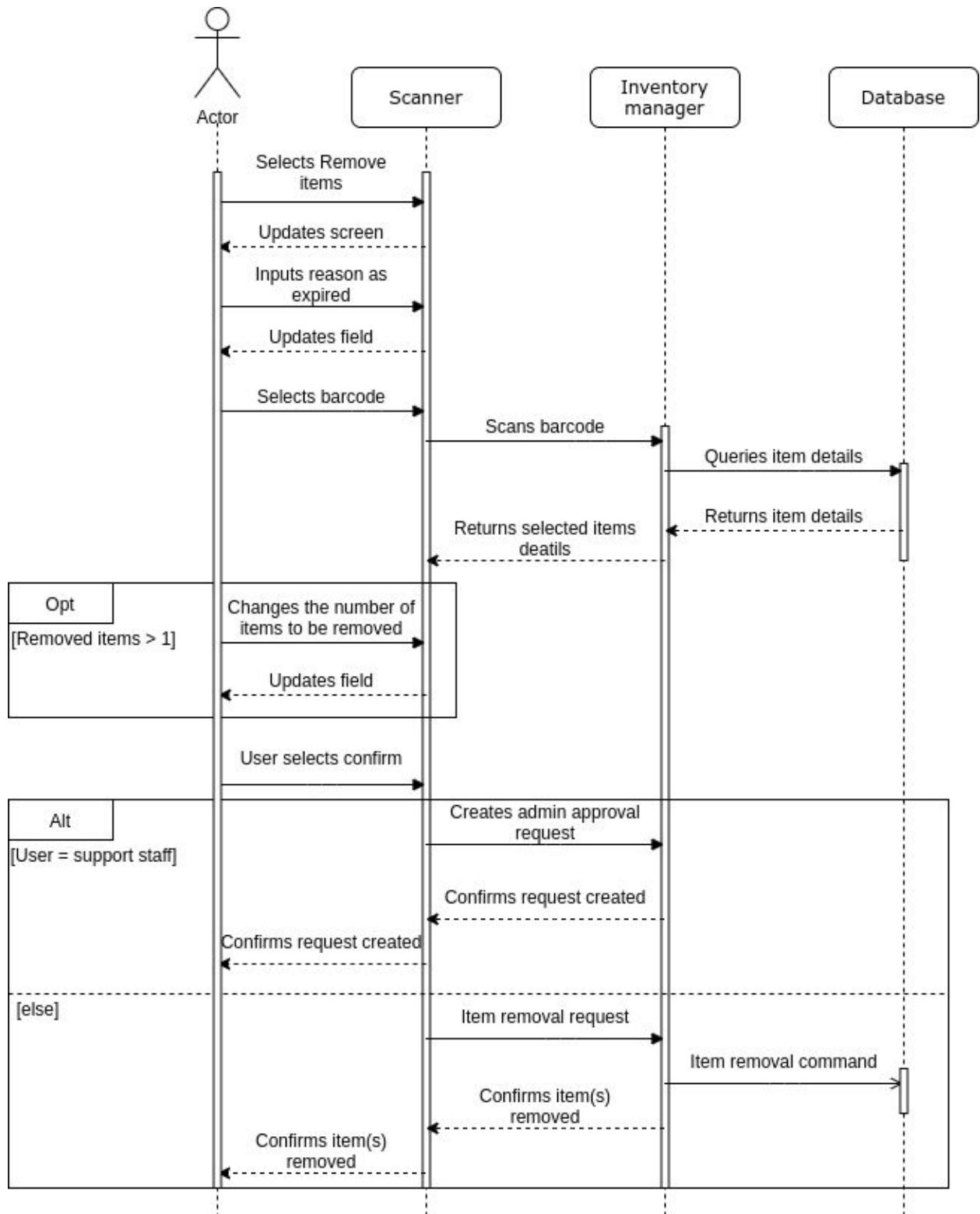


Figure 3.2.1 Scanning Out Expired Item Sequence Diagram

UC-2-2: ScanningOutDamagedProducts
ID: UC-2-2
Description: Products that are damaged can be scanned to remove them from the current inventory.
Actor(s): User (support staff or store manager).
Preconditions: The actor is removing a damaged product from the shelf and has a scanner in hand.
<p>Main Flow:</p> <ol style="list-style-type: none"> 1. The user locates the barcode, name, or SKU on the product. 2. The user selects 'Remove item'. 3. The user selects the reason for removal as 'Damaged'. 4. The user scans the barcode, enters the name, or enters the SKU of the product. 5. The user adds a description of the damages to the 'Damage' section. 6. If the user would like to remove multiple items of the scanned product, then <ol style="list-style-type: none"> 6.1. The user changes the number of items section from 1 to the desired amount. 7. The user verifies the product details and selects 'Confirm'. 8. If the user is support staff, then <ol style="list-style-type: none"> 8.1. Include(AdminApproval). 9. The items are removed from inventory and categorized under "Damaged".
Postconditions: The items have been removed from inventory.
<p>Alternative Flow(s):</p> <p>5 b) Cancel</p>

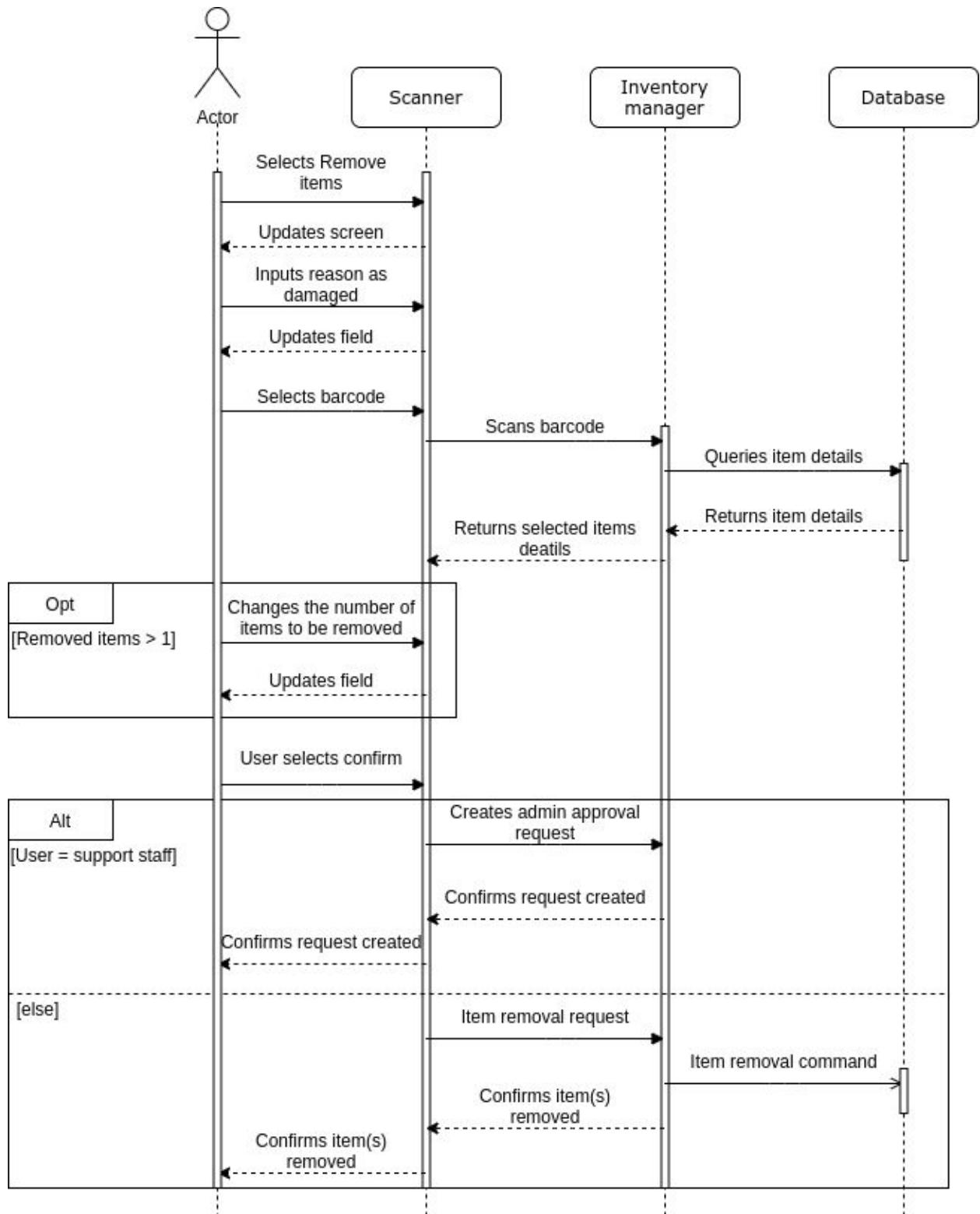


Figure 3.2.2 Scanning Out Damaged Item Sequence Diagram

UC-2-3: Removing Sold Product From Inventory
ID: UC-2-3
Description: The product is sold to store customers through POS.
Actor(s): User (support staff or store manager).
Preconditions: The user completes a transaction with the POS system.
Main Flow:
1. The sold items are removed from inventory and categorized under "Sold".
Postconditions: The items are removed from the inventory.
Alternative Flow(s): None.

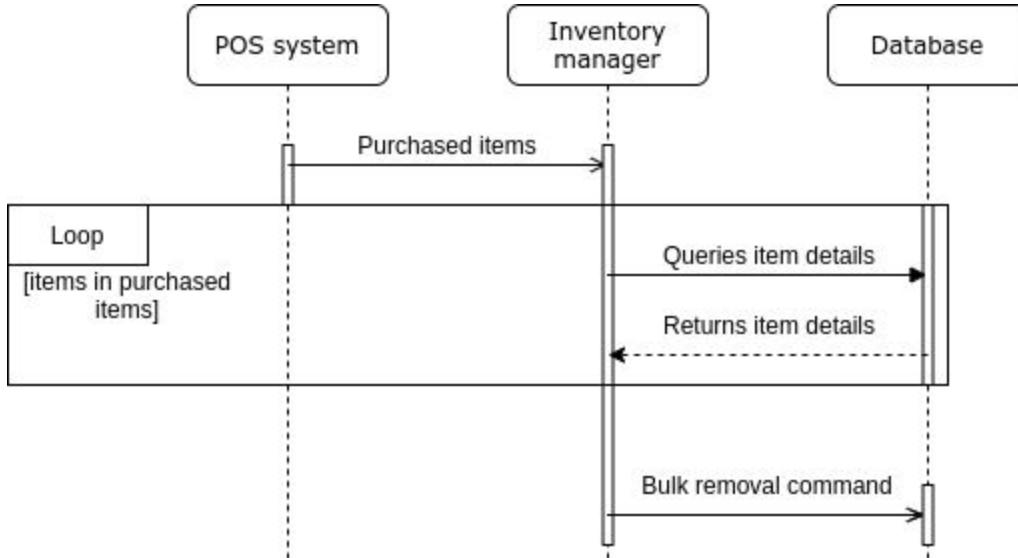


Figure 3.2.3 Remove Sold Item Sequence Diagram

3.3 Manage Orders

3.3.1 Description and Priority

The manage orders feature notifies the store manager when a product in inventory is below its minimum amount; this number is set up when the product is first scanned into the inventory system. This feature also helps store managers to draft a PDF order summary, by combining the necessary product information. Every past order summary will be accessible to the store manager. This feature is a **medium priority**.

3.3.2 Functional Requirements

REQ-3-1: The store manager must get a reminder when the quantity of a product becomes less than the minimum number.

Rationale: This requirement helps the store managers to save time since they don't have to check the spreadsheets manually every day to check the inventory count.

REQ-3-2: A PDF summary that includes the quantity, the total cost of the products and the estimated arrival date will be produced when requested.

Rationale: This helps the store manager to generate consistent looking invoices to send to the distributors and save for later.

REQ-3-3: The store manager must be able to manually change the order arrival date in the order summary.

Rationale: This will improve the accuracy of the records which will help during inventory and discrepancy checks.

REQ-3-4: All the order summaries created will be accessible to the store managers in an orders section.

Rationale: Since placing orders has a little dependency on other inventory activities, a separate section would help to keep all the order summaries created in one place and gives ease of accessibility to the users.

3.3.3 Use cases

UC-3-1: DraftNewOrder
ID: UC-3-1
Description: The store manager drafts a new order.
Actor(s): Store manager.
Preconditions: The store manager has received low inventory reminders or new products are determined to be needed.
Main Flow: <ol style="list-style-type: none">1. The store manager navigates to the Orders section.2. The store manager selects the “Draft New Order” option.3. The store manager enters the products, the quantity required for each product and the distributor’s address.4. If new product information was entered, then<ol style="list-style-type: none">4.1. The new product’s information will be saved to the inventory database.

5. A PDF order summary is generated in the “Orders” section.
6. The status of the order summary will be set as “Drafted”.

Postconditions: A new order summary is produced with the necessary products.

Alternative Flow(s):

2 b) Cancel

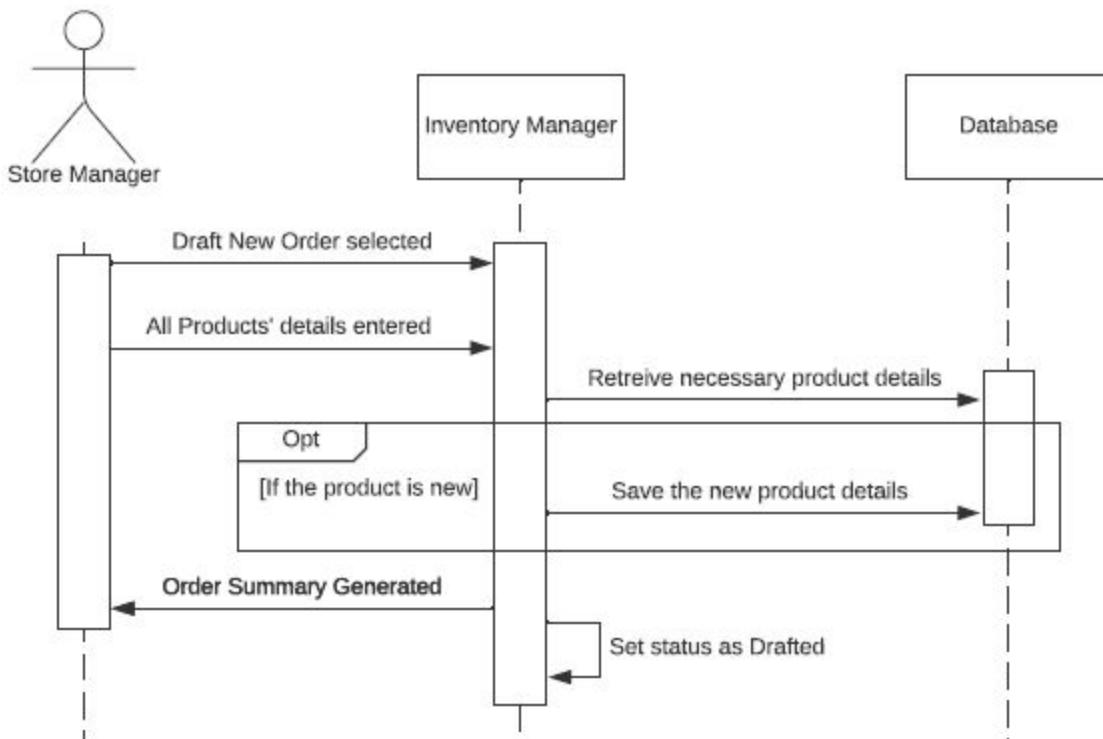


Figure 3.3.1 Draft New Order Sequence Diagram

UC-3-2: IntakeOrder

ID: UC-3-2

Description: The ordered items have arrived and are ready to be added to the shelves.

Actor(s): User (support staff or store manager).

Preconditions: An order from the distributors has arrived.

Main Flow:

1. The user navigates to the Orders section.
2. A list of all the order summaries is displayed with the most recent order on top.
3. The user will select the summary for the products that have arrived.

4. Include(ScanInItem).
5. If the item quantity or arrival date doesn't match the expected quantity or date, then
 - 5.1. The user selects the "Modify" icon and enters the actual quantity or date.
6. The user "Confirms" the quantity that was received.
7. The user will set the status as "Arrived".

Postconditions: The inventory is updated.

Alternative Flow(s):

4 b) Cancel

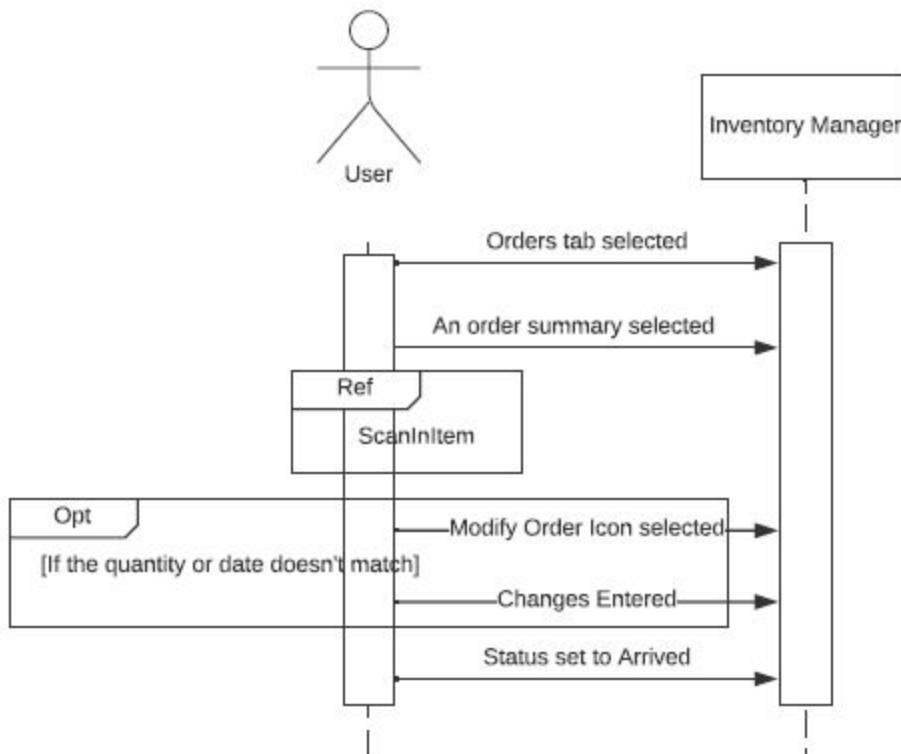


Figure 3.3.2 Intake Order Sequence Diagram

UC-3-3: DeleteOrderSummary

ID: UC-3-3

Description: The store manager deletes an order summary.

Actor(s): Store manager.

Preconditions: The Order History tab is not empty.

Main Flow:

1. The store manager navigates to the Orders section.

2. The store manager is presented with the list of all the order summaries.
3. The store manager selects the order summary he wants to remove.
4. The store manager selects the Delete icon.
5. The store manager confirms to Delete the order.

Postconditions: The removed order summary is not present in the Order History tab.

Alternative Flow(s):

5 b) Cancel

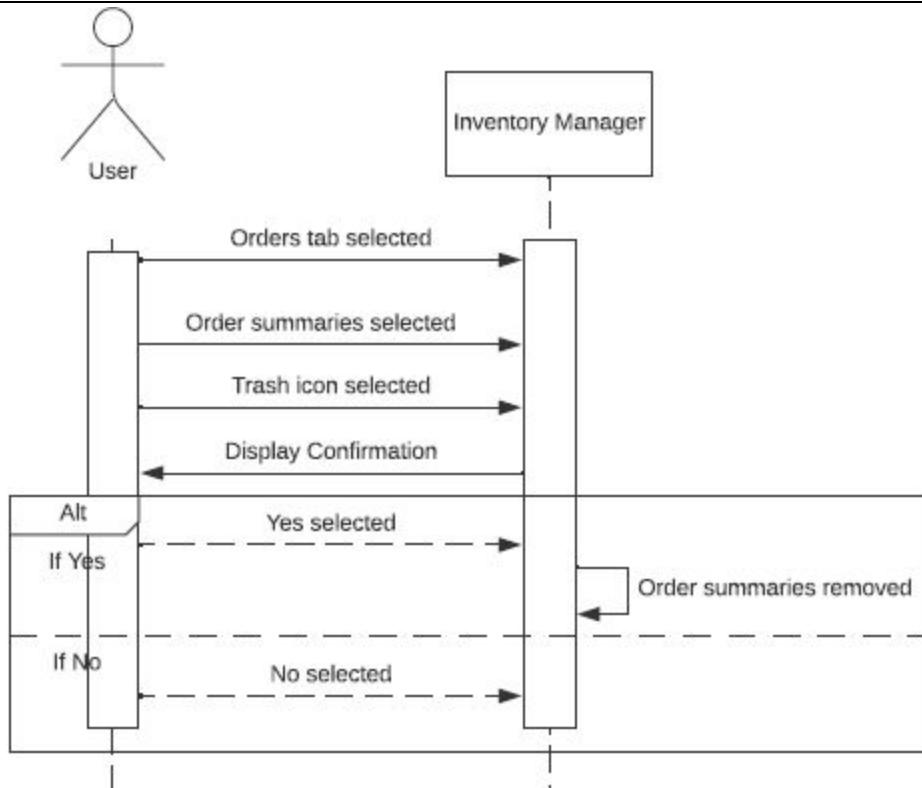


Figure 3.3.3 Delete Order Summary Sequence Diagram

3.4 Manage discrepancies - Discrepancy Sniffer

3.4.1 Description and Priority

The feature with the responsibility of alerting the store manager of any discrepancies in the inventory is called the 'Discrepancy Sniffer'. The Discrepancy Sniffer's algorithm will allow for any discrepancies in product inventory to surface based on inconsistency in the amount of product originally received, the amount of product sold, and the amount of product still on the shelf. This will be facilitated using information made available by **Section 3.1** and **3.2** defined above. The Discrepancy Sniffer will also accumulate the amount of revenue lost due to the missing products not being sold. This feature is a **low priority**.

3.4.2 Functional Requirements

REQ-4-1: The store manager must be able to see which products are missing from the store and the quantities of each.

Rationale: The store manager must be able to see the discrepancies between the current in-stock inventory and the recently completed inventory checks. This will allow them to view discrepancies over time to and view trends allowing the company to become more proficient.

REQ-4-2: The store manager must be able to see the total amount of revenue lost due to discrepancies in inventory.

Rationale: The amount of revenue lost will allow the store manager to determine the severity of the discrepancy.

REQ-4-3: The store manager must be able to differentiate between product loss due to expiration, product loss due to theft, and products lost due to mishandling.

Rationale: This will allow the store manager to view the losses in each category to further decrease these losses in the future to save money and the environmental impact of waste.

REQ-4-4: The store manager must be able to filter discrepancies by inventory checks.

Rationale: The store manager must be able to view discrepancies after all completed inventory checks to get an idea of how the store is doing concerning aspects of revenue losses.

3.4.3 Use cases

UC-4-1: CompleteInventoryCheck
ID: UC-4-1
Description: A user completes an inventory check.
Actor(s): User (support staff or store manager).
Preconditions: None.
Main Flow: <ol style="list-style-type: none">1. The user selects “Inventory Check”.2. The user enters the number of products present in inventory.3. The inventory can be organized by category, or in ascending or descending alphabetically.4. If not all the inventory amounts are entered, then<ol style="list-style-type: none">4.1. The inventory check is categorized as a “partial inventory check.”4.2. A partial inventory check if confirmed is placed in a partial inventory check tab.5. Else

- 5.1. The inventory check is categorized as a “complete inventory check.”
 5.2. A “complete inventory check” if confirmed is placed in a complete inventory check tab.
 6. The user confirms the details of the Inventory check.

Postconditions: The store manager is notified of the inventory check completion.

Alternative Flow(s):

4 b) Cancel

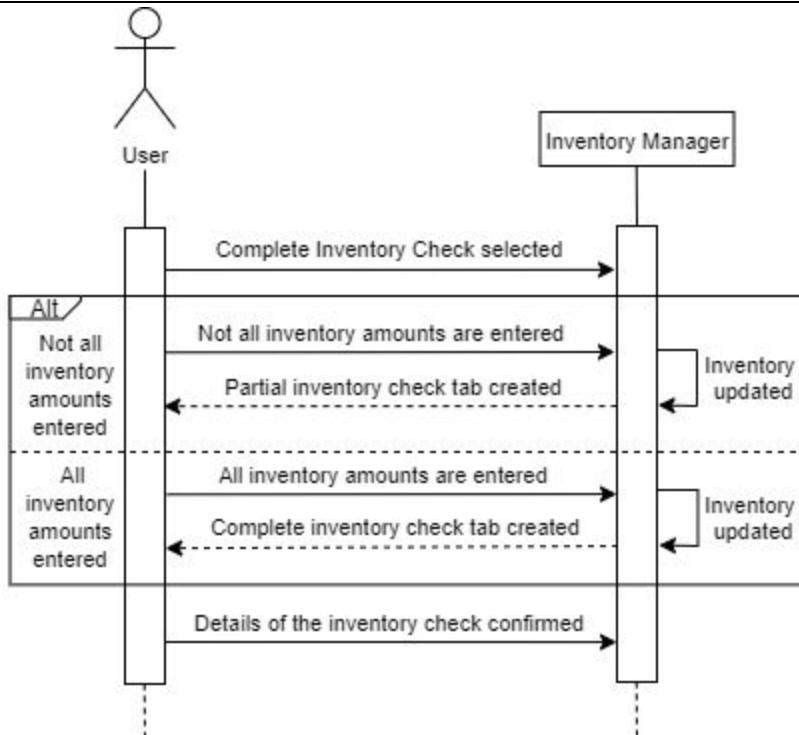


Figure 3.4.1 Complete Inventory Check Sequence Diagram

UC-4-2: ModifyInventoryCheck

ID: UC-4-2

Description: A user modifies a completed inventory check.

Actor(s): User (support staff or store manager).

Preconditions: An Inventory check has been completed.

Main Flow:

1. The user selects “Inventory Check”.
2. The user selects the Inventory Check they would like to modify.

3. The user modifies the quantity of an entered product.
4. The user confirms the details of the modified Inventory check.
5. If the user is support staff, then
 - 5.1. Include(AdminApproval).

Postconditions: The Inventory Check history is updated.

Alternative Flow(s):

4 b) Cancel

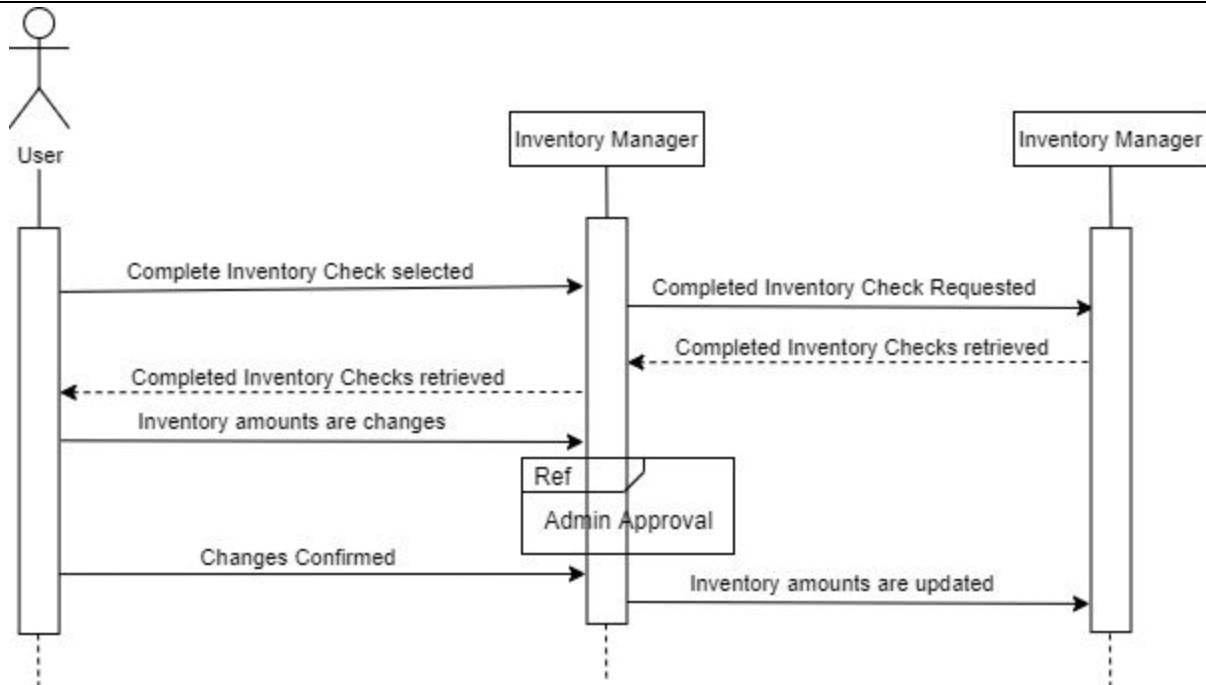


Figure 3.4.2 Modify Inventory Check Sequence Diagram

UC-4-3: DeleteInventoryCheck

ID: UC-4-3

Description: A user deletes a completed inventory check.

Actor(s): User (support staff or store manager).

Preconditions: An Inventory check has been completed.

Main Flow:

1. The user selects “Inventory Checks”.
2. The user selects the Inventory Check they wish to delete.
3. The user confirms the deletion of the Inventory Check

4. If the user is support staff, then
 - 4.1. Include(AdminApproval).

Postconditions: The Inventory Check history is updated.

Alternative Flow(s):

- 4.1 b) Cancel

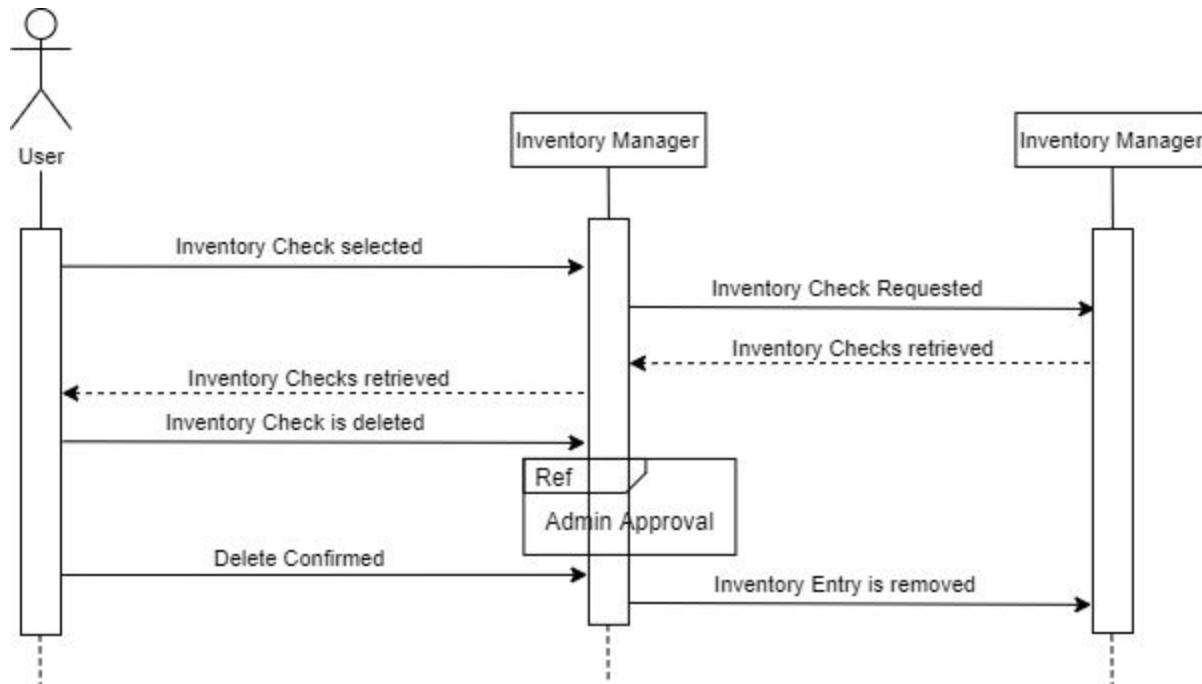


Figure 3.4.3 Delete Inventory Check Sequence Diagram

UC-4-4: DiscrepanciesFound

ID: UC-4-4

Description: After a user completes an inventory check, store managers can view the amount of inventory that was unaccounted for.

Actor(s): Store manager.

Preconditions: Inventory check has been completed by the support staff or store manager and items are not accounted for.

Main Flow:

1. The missing products tab contains the items that are in the system but not accounted for.
2. They can be organized in alphabetical order, by category, the number of units missing.

Postconditions: The store manager is notified of the discrepancies.

Alternative Flow(s): None.

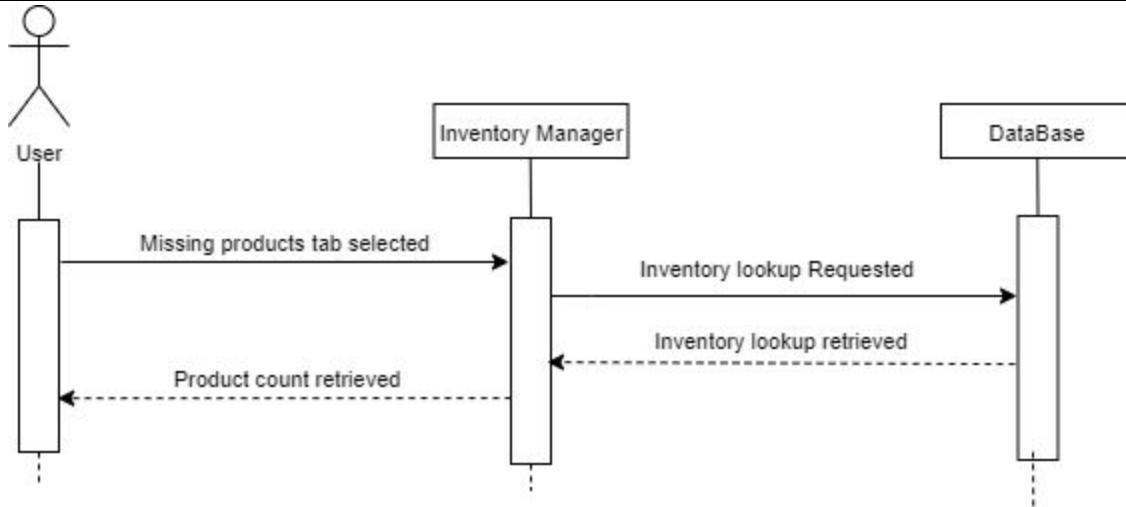


Figure 3.4.4 Discrepancies Found Sequence Diagram

3.5 Manage product expiry

3.5.1 Description and Priority

Expiry dates that are collected when inventory is entered will be tracked. Inventories that are close to expiry or have expired will be presented to the staff as an alert when they ask for a product summary. Once presented, these alerts will remain until dismissed. It is the user's responsibility to remove expired products from the shelf when notified. This feature is important to the clients; however, it requires no system action other than a notification, so the priority has been rated as **medium priority**.

3.5.2 Functional Requirements

REQ-5-1: A notification will be created for products that are at their specified expiry notification date.

Rationale: To inform the users when the product is nearing or is at its specified expiry date, a notification must be created by the system.

REQ-5-2: Users will be notified when products are expired.

Rationale: The user must be notified when the products are expired to remind the users to remove the items from the inventory

REQ-5-3: Expired product notifications will require confirmation of removal before being removed from inventory.

Rationale: To ensure that the user has physically removed the expired product from the inventory, the expired product notifications will require confirmation of removal.

3.5.3 Use Cases

UC-5-1: UpcomingExpiryNotification	
ID: UC-5-1	
Description: The product is the specified number of days away from expiry and the user is notified.	
Actor(s): User (support staff or store manager).	
Preconditions: The user receives the product expiry notification (i.e. the product is the specified number of days away from expiry).	
Main Flow: <ol style="list-style-type: none">1. The user navigates to the “Upcoming Expiry” tab of the “Expiry Reminders” section.2. The upcoming expiry items are shown with the product information and the days remaining before the product’s expiration.3. The user acknowledges and “Dismisses” the notification.	
Postconditions: The notification has been removed from the “Upcoming Expiry” Tab.	
Alternative Flow(s): None.	

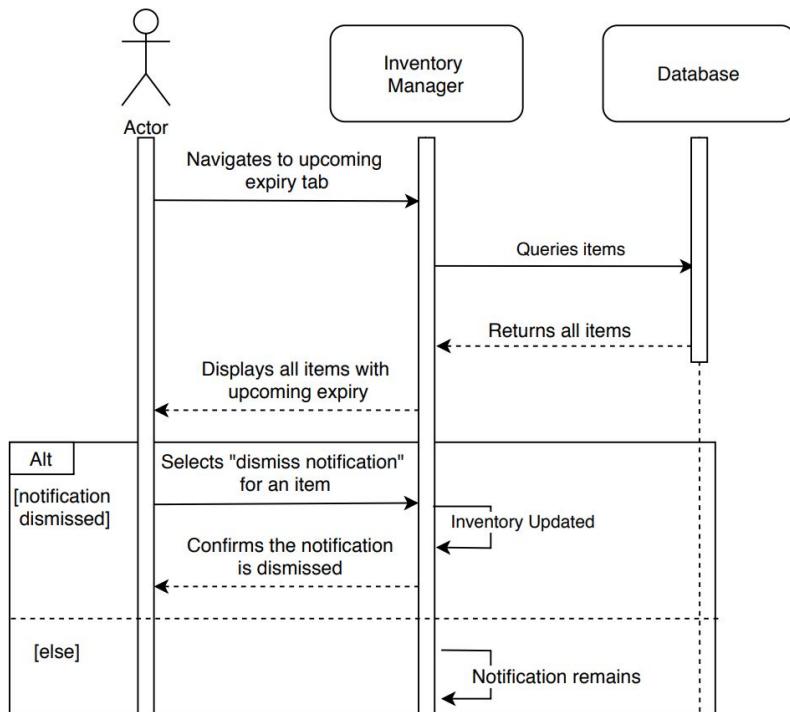


Figure 3.5.1 Upcoming Expiry Notification Sequence Diagram

UC-5-2: ExpiredItemNotification	
ID: UC-5-2	
Description: The system notifies users that a product is expired, and the user must confirm the product was removed to update the inventory.	
Actor(s): User (support staff or store manager).	
Preconditions: The product has expired.	
Main Flow:	
<ol style="list-style-type: none"> 1. The user receives the expired product notification or navigates to the “Expiry Reminders” section. 2. The user is presented with a notification that contains the product information. 3. Include(ScanningOutExpiredProducts). 4. While the user has not confirmed the item’s removal: <ol style="list-style-type: none"> 4.1. The notification remains in the “Expiry Reminders” section. 	
Postconditions: The notification is moved to the “Expired” tab and the inventory is updated.	
Alternative Flow(s): None.	

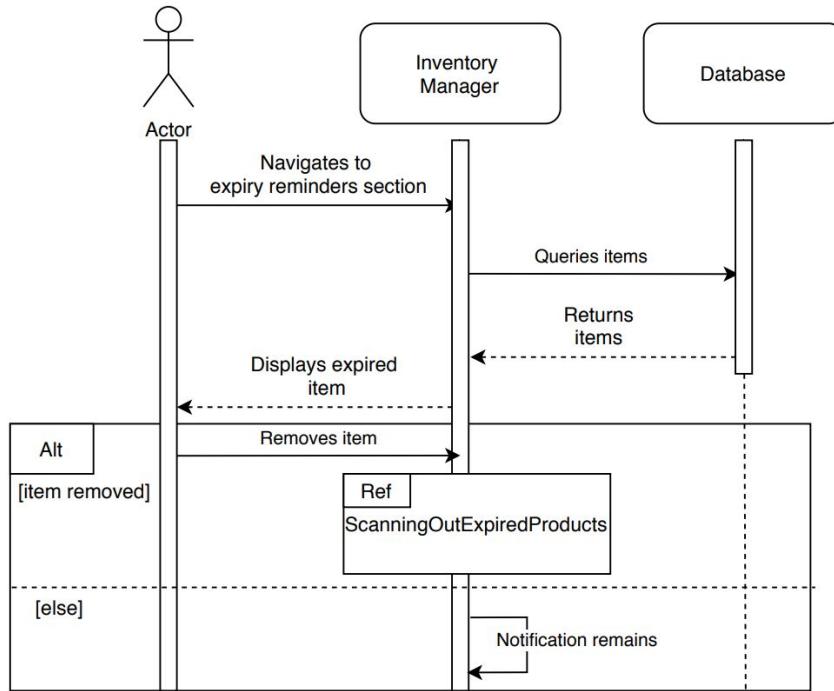


Figure 3.5.2 Expired Item Notification Sequence Diagram

3.6 View Current Inventory

3.6.1 Description and Priority

The system will allow for the current inventory to be viewed through the software's user interface. This information will be displayed to the device in a manner that is easy to read for all users. This feature is a **high priority**.

3.6.2 Functional Requirements

REQ-6-1: Users will be able to view the current inventory of all stores.

Rationale: This helps both Store Managers and Support Staff inform customers of inventory located at other Kevin's Convenience Store branches should their current location be out of stock of an item of interest.

REQ-6-2: Users will be able to sort the inventory by any heading an ascending or descending order.

Rationale: Allows for the rapid organization of products by the user. Products can be organized by headings such as Name, Description, Expiry, Stock, Price, etc.

REQ-6-3: The default product inventory viewed by a user will be based on the employees' primary work location.

Rationale: Ensures users are viewing the immediately relevant store branch inventory.

REQ-6-4: Users will be able to search the product inventory through the product barcode.

Rationale: Allows for rapid retrieval of a searched product's information.

3.6.3 Use cases

UC-6-1: SelectBranch
ID: UC-6-1
Description: The user selects Kevin's Convenience Store branch they would like to view the current inventory of.
Actor(s): User (support staff or store manager).
Preconditions: Product information is available for the desired branch.
Main Flow: <ol style="list-style-type: none">1. The user opens the inventory page.2. The user selects the desired Kevin's Convenience Store branch.3. The user accesses the inventory page of the desired branch.
Postconditions: None.
Alternative Flow(s): None.

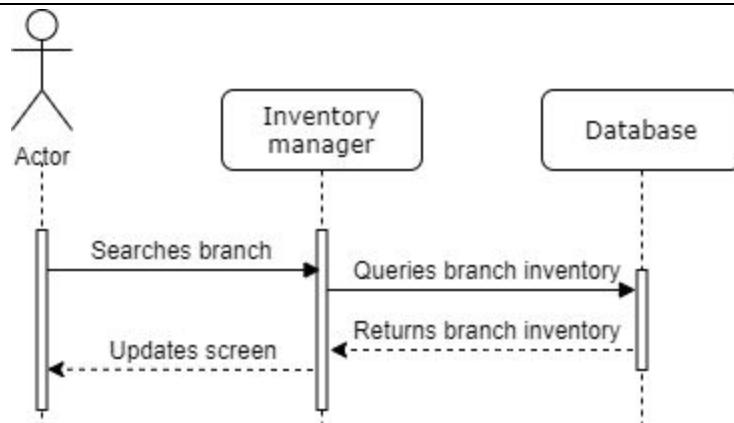


Figure 3.6.1 Select Branch Sequence Diagram

UC-6-2: ViewInventory

ID: UC-6-2

Description: Product information such as the product's name, the amount in inventory, and the product's expiry date is included in the inventory displayed to the user.

Actor(s): User (support staff or store manager).

Preconditions: Product information is available.

Main Flow:

1. The user opens the inventory page.
2. The user navigates to the product of interest by sorting inventory by heading or searching directly for a product.
3. The user selects the product of interest to open the “Product Information” page.
4. The product page displays the current inventory, inventory history, and product information.

Postconditions: None.

Alternative Flow(s): None.

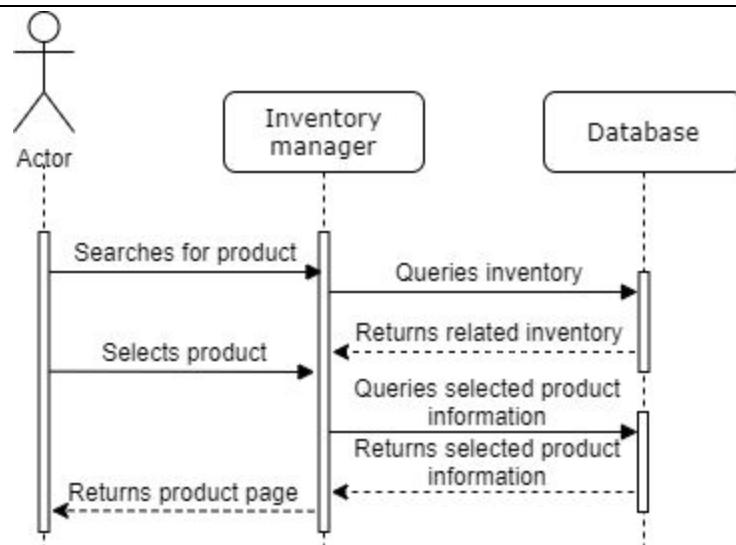


Figure 3.6.2 View Inventory Sequence Diagram

4 External Interface Requirements

This section describes external user, hardware, software and communication interfaces required by Kevin's Convenience Store branch to run the Inventory Management System.

4.1 User Interfaces

REQ-UI-1: The application must be web-based, supporting both touch screens on mobile hardware and mouse and keyboard input on desktop computers.

Rationale: Staff members will be performing inventory tasks around the store using a mobile device or via a desktop computer in the main office.

REQ-UI-2: The user will be required to log in through the company website before accessing the application.

Rationale: Security precaution to know what staff member is performing what task as well as to ensure those accessing the database are employees.

REQ-UI-3: Store managers will be able to access draft orders, discrepancies, and requests in addition to all functions available to support staff.

Rationale: Additional security precaution to know what staff member is performing what task as well as to ensure what changes are being made to the database.

REQ-UI-4: A menu bar will allow easy switching between windows.

Rationale: Ease of navigation allows users to perform tasks quickly.

REQ-UI-5: Users can access the scanner with a single button.

Rationale: Additional means for ease of navigation to allow users to perform tasks quickly.

REQ-UI-6: UI will be accessible to users with color blindness and disability.

Rationale: Allows all employees of Kevin's Convenience Store to be able to freely and equally use the application.

4.2 Hardware Interfaces

REQ-HI-1: The application interacts with a scanner peripheral.

Rationale: Allows users to scan product barcodes.

REQ-HI-2: Navigation will be accessible through touch-screen interface or mouse and keyboard.

Rationale: Application allows for navigation through both mobile devices and desktop.

REQ-HI-3: The device used must maintain a constant internet connection.

Rationale: Allows for real-time updating of inventory/database information.

REQ-HI-4: The application must access the device's local storage.

Rationale: Ensures user input is maintained in the event of an internet connection is unavailable.

4.3 Software Interfaces

REQ-SI-1: Upon entering login information, the app will connect with Kevin's Convenience Corner database and display appropriate windows, buttons, and menus based on user administrative privileges.

Rationale: Ensures users can access the correct options based on their administrative privileges.

REQ-SI-2: The user can press a button to prompt the scanning functionality.

Rationale: Allows users to access scanning functionality.

REQ-SI-3: Scanning product barcodes will bring up the appropriate product information from the database and auto-populate appropriate fields.

Rationale: Ensures scanning a product enters the correct information in the appropriate fields and allows users to save time entering these details.

REQ-SI-4: The user will be able to manually enter data for fields.

Rationale: Allows users to maintain accurate data for fields if the barcode does not provide enough or correct information.

REQ-SI-5: Upon submission of a completed page, the application will upload the updated information to the inventory database.

Rationale: Ensures database information is up to date and complete.

REQ-SI-6: The application will connect to the inventory database and populate product data tables containing pertinent information for the page displayed.

Rationale: Ensures application displays the product information from the database.

REQ-SI-7: Inventories of alternate stores are viewable through a menu.

Rationale: Ensures users can view product quantities from other Kevin's Convenience Store branches and are aware of what the other stores contain in their inventory.

REQ-SI-8: Searching for products is available via manually entering key terms or through a product scanner.

Rationale: Allows users to quickly search for a product of interest.

REQ-SI-9: Users can access product information of a product of interest from the database.

Rationale: Allows users to gain detailed information for a product of interest.

REQ-SI-10: Routine inventory checks will identify discrepancies and notify management.

Rationale: Allows store managers to manage store inventory issues quickly.

REQ-SI-11: Order numbers, distributor, and estimated delivery dates will be summarized and displayed in a data table.

Rationale: Allows for easy management of orders.

REQ-SI-12: Once an order has been drafted and created the orders will remain in the order history.

Rationale: Maintains an accurate order history.

4.4 Communications Interfaces

REQ-CI-1: The application will maintain a real-time connection to the database via an internet connection.

Rationale: Ensures information is up to date and complete for both the database and application.

REQ-CI-2: The application will have access to the device's local storage for temporary storage.

Rationale: Ensures entered information is kept in the event of a disruption in the device's internet connection.

REQ-CI-3: The application will require direct access to the third-party POS system.

Rationale: Ensures any changes made to inventory by POS sales are maintained as well as prices changed in the database are maintained.

REQ-CI-4: The application accesses the company website.

Rationale: Required for login security, product ordering, and tracking features.

REQ-CI-5: The application requires a connection to a local network printer.

Rationale: Required to print specific pages of interest.

5 Other Non-Functional Requirements

5.1 Performance Requirements

REQ-P-1: The system will be capable of handling requests summarizing inventory reports with up to 5000 varying products containing an associated count as well as any other pertinent information.

Rationale: Ensures the system can handle many diverse products.

REQ-P-2: The system must be responsive within 500 ms.

Rationale: Ensures quick access to the complete inventory.

REQ-P-3: When edits are being made by the user, the system will be capable of updating the database within 100 ms.

Rationale: Ensures inventory is consistently up to date and complete for all users currently accessing the system.

REQ-P-4: When a sale is being finalized using the POS, the system will update the database within 10 ms to remove sold products from the inventory.

Rationale: Ensures any changes made to inventory by POS sales are maintained as well as prices changed in the database are maintained.

REQ-P-5: The application should be run and tested for 140 hours before release.

Rationale: Since the store is open up to 128 hours a week, it requires round-the-clock use.

5.2 Safety Requirements

At the current state of the project, there have been no safety requirements defined.

5.3 Security Requirements

REQ-S-1: Access to data is restricted to the employees of Kevin's Convenience Store via login feature.

Rationale: Ensures access to application features and database is given only to Kevin's Convenience Store or Inventoria employees. Also allows employees to access features appropriate to their level of administrative privilege.

REQ-S-2: The system must have a daily end-of-day scan for any bugs and vulnerabilities.

Rationale: Ensures system is running smoothly with little possibility of tampering by outside entities.

REQ-S-3: If any unusual activity is discovered, the store manager and an Inventoria security engineer will be notified with the error type. Inventoria's security engineer will also receive a detailed event history.

Rationale: Ensures all parties are properly informed of a potential error or security breach so that they can quickly address it.

REQ-S-4: The system will also be subjected to regular system updates.

Rationale: Ensures system is running smoothly with little possibility of tampering by outside entities.

5.4 Software Quality Attributes

Our system is concerned with three primary quality attributes:

REQ-SQA-1: The system must be accessible for physically disabled employees as well as support for color blindness. (*Accessibility*)

Rationale: As the first steps in making the website more inclusive, the Inventory Management System aims to aid the current physically disabled and color-blind employees to have a pleasant experience using the system.

REQ-SQA-2: The system must be learned by the employees within one workday. (*Learnability*)

Rationale: Since the system simplifies the current procedure for the employees, the employees must be able to understand the system quickly to use it efficiently.

REQ-SQA-3: The system must be able to accommodate and integrate the new databases. (*Scalability*)

Rationale: As the company expands, the system must be able to incorporate the databases of new branches.

6 Data Flow Diagrams

This section showcases the data flow in and out of the Inventory Management System in reference to the additional systems, users and actors it interacts with.

6.1 Context Diagram (DFD Level 0)

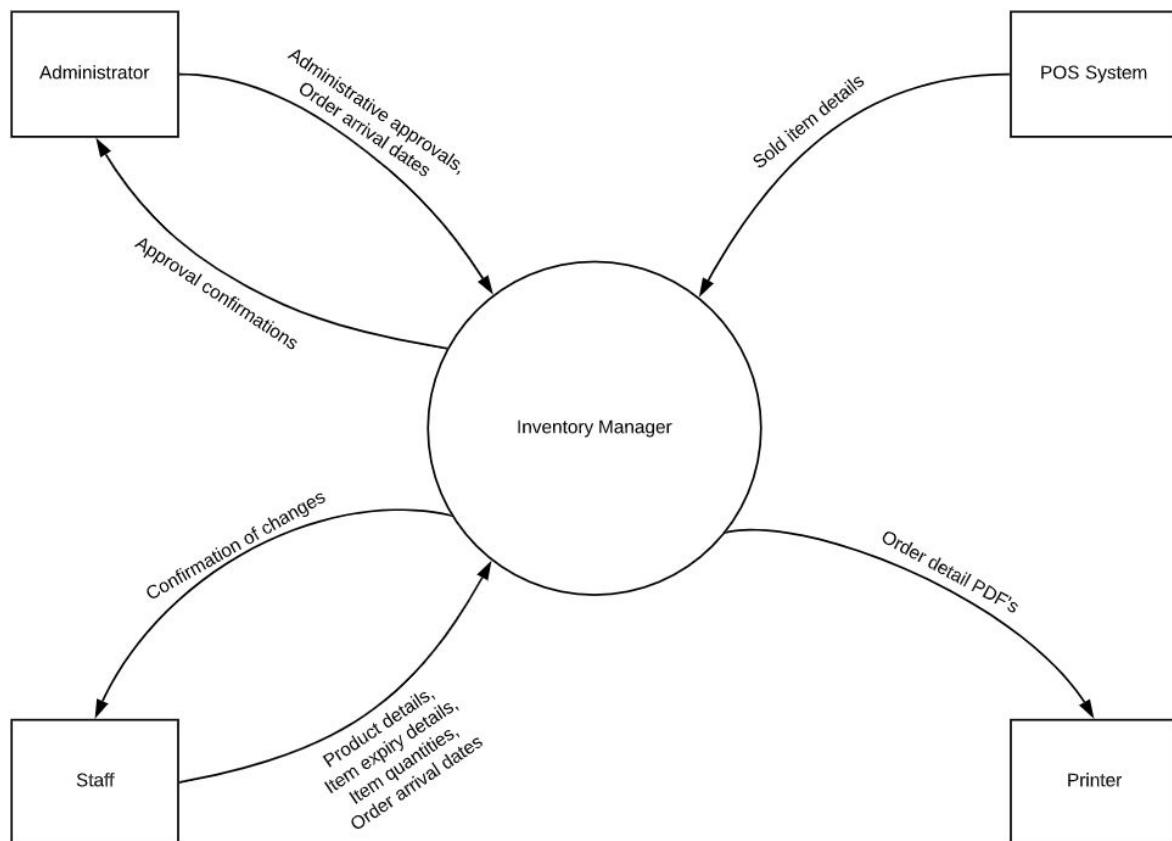


Figure 6.1.1 Context Diagram:

In the system level DFD, it shows that the main data flow is from the Staff to the Inventory Manager.

6.2 DFD Level 1

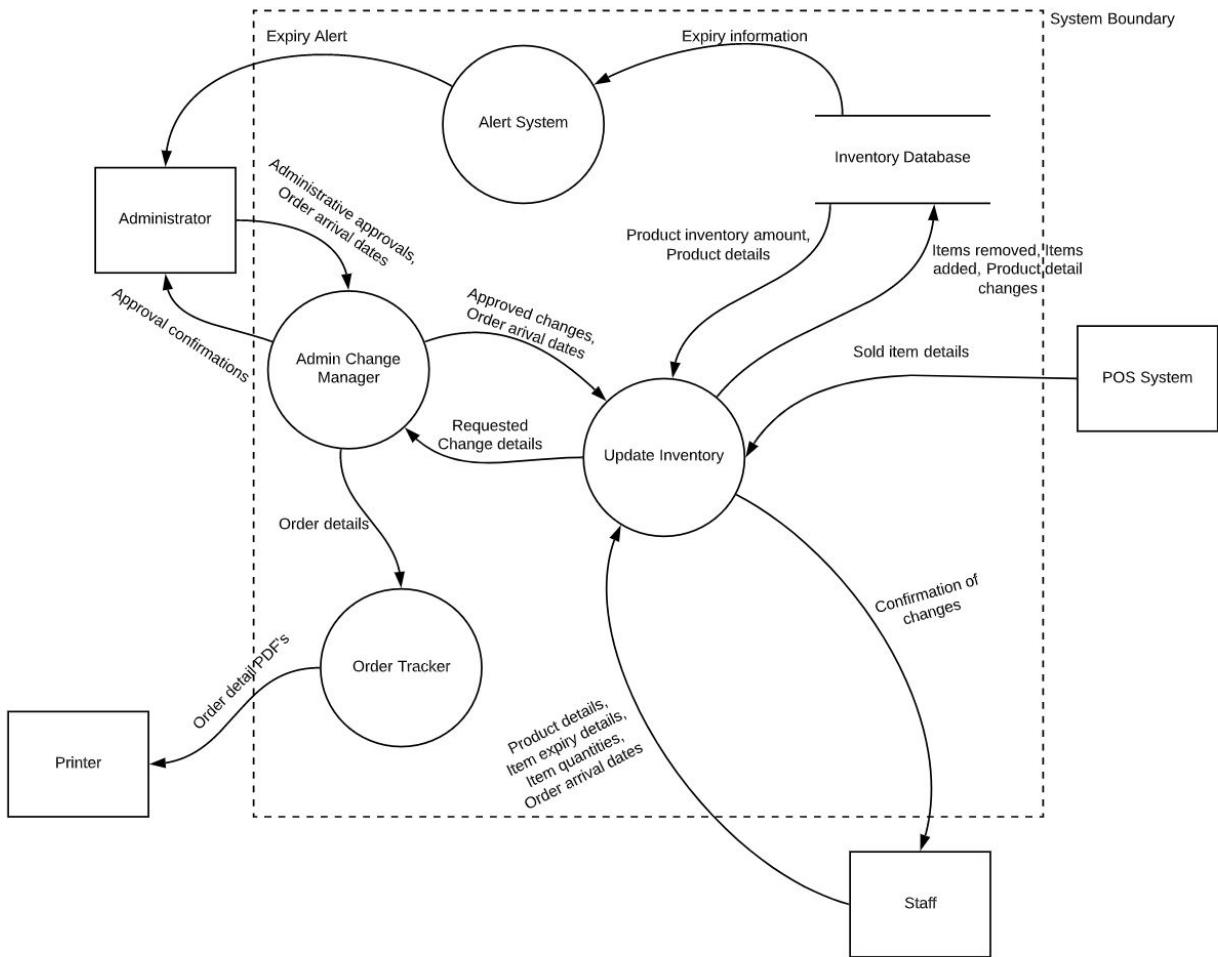


Figure 6.2.1 DFD Level 1:

This figure is a visual representation of the data flow from both within the system and with external terminators.

6.3 DFD Level 2

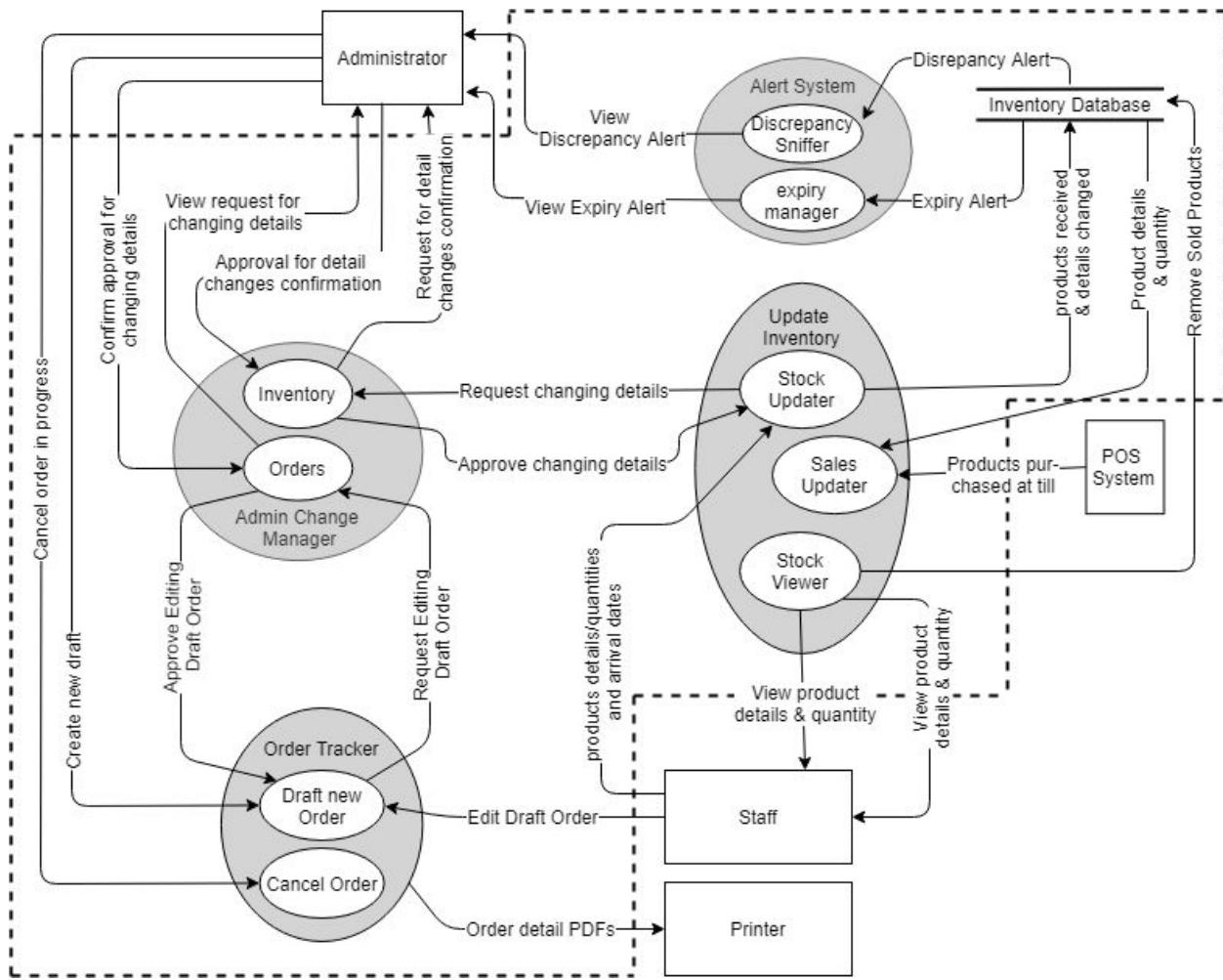


Figure 6.3.1 DFD Level 2:

Represents all subsystems of Inventory Manager. The interactions between User (Staff and Administrator), Printer, Inventory Database and POS system with subsystems is outlined in further detail. From top to bottom, left to right: Alert System and its alerts to the Administrator, Admin Change Manager and changing inventory values following Administrator approval, Update Inventory and change requests from Staff, and Order Tracker and its creation and manipulation of orders by an Administrator.

7 Entity-Relationship Diagrams

This section describes the relationships between the existing features, users and objects (together known as entities) for the problem domain of the inventory Management System.

7.1 Entity-Relationship Diagram

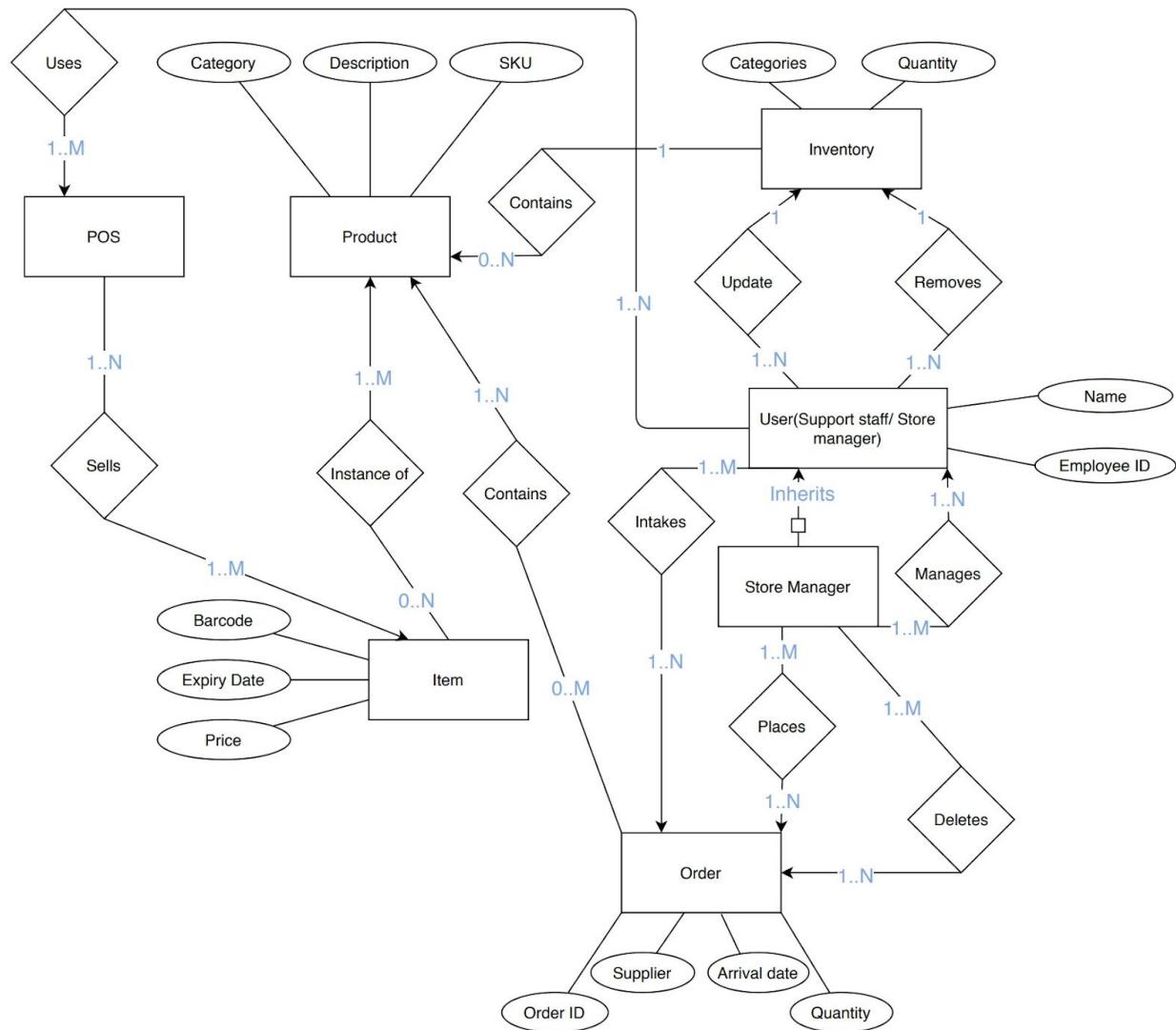


Figure 7.1.1 Entity-Relationship Diagram

The Data Dictionary is in **Section 7.2**. The ER diagram uses Chen's notation with arrows to indicate the relationship direction. The **Store Manager** Entity is inherited from the **User Entity** which entitles the store manager to all the basic permissions of the **User Entity** plus added privileges. These added privileges include managing the **User Entity** and placing/deleting an order. The **POS** Entity has no attributes since it is outside our problem scope. An item is an instance of the **Product Entity** which is contained inside the **Inventory Entity**.

7.2 Data Dictionary

Entity Class	Entity Type
Product	Category {"Dairy" "Produce" "Household supplies" "Dry goods" "Pharmacy" "Other"} , <<<SKU>>>, "Description".
Item	<<<Barcode>>>, <<<Expiry Date>>>, <<Price>>
Order	(Product), <Quantity>, <<<Arrival Date>>>, "Supplier", <<<Order ID>>>>
Inventory	Category {"Ordered" "In Stock" "Sold" "Damaged" "Expired"}, <Quantity>, (Product)
User(Support staff/ store manager)	"Name", <<<ID>>>>

Type	Representation
String	"Value";
Enumeration	{ "Value" "Value2" "Value3" "ValueN" };
Integer	<Integer Value>;
Decimal	<<Decimal Value>>;
Alphanumeric	<<<Alphanumeric Value>>>; Allows "a" "z" "A" "Z" "0" "9" "-" "." "/" ;
Reference to a defined entity	(Entity)

8 Design Framework

This section presents various high-fidelity prototypes and user storyboards demonstrating the Inventory Management System for our client Kevin's Convenience Store. There are two postures for the application, one for the store manager and one for the support staff. Both views are similar, however, the store manager has an admin tab where they can manage users, see discrepancies, and approve or deny employee modification or removal requests. All tasks that can be completed by the support staff can be completed by the store managers. Support staff also have a request tab where they can see their requests, and they have an orders tab where they can intake orders. Since only store managers can create, modify, or delete orders they are provided more functionality in this tab. Both postures will be shown when there is a significant difference between the two and will be shown a minimal amount of times. When functionality and use between the two postures are the same the store manager view will be shown. As requested colour is never used to convey context. Also, to support possible colour blindness, the buttons and other functions are big and easy to navigate, undo, redo for the users with physical impairments.

8.1 High-Fidelity prototypes

The high-fidelity prototypes for the main windows are shown below for the Inventory Management System.

8.1.1 Account Creation page

An account can be created once a store manager adds a user. See **Section 8.2.1** to see how an account is created. The user's information is used to create the employee's account and used to login to the Inventory Management System.

The screenshot shows a web browser window for 'Kevin's Convenience Store' at the URL <https://kevins-convenience-store.com>. The page title is 'Account Creation'. It features a form with three input fields: 'Password', 'Confirm Password', and 'Phone Number'. Below the first two fields are validation messages: '8 or more characters' (with an X), 'Includes a number' (with an X), and 'Includes a symbol' (with an X). A large red 'X' is also present next to the message 'Password matches'. A 'Create' button is at the bottom of the form.

Figure 8.1.1 Account Creation Page

8.1.2 Login Page

To sign into the Inventory Management System the user enters their respective credentials. To create an account, see **Section 8.2.1**.

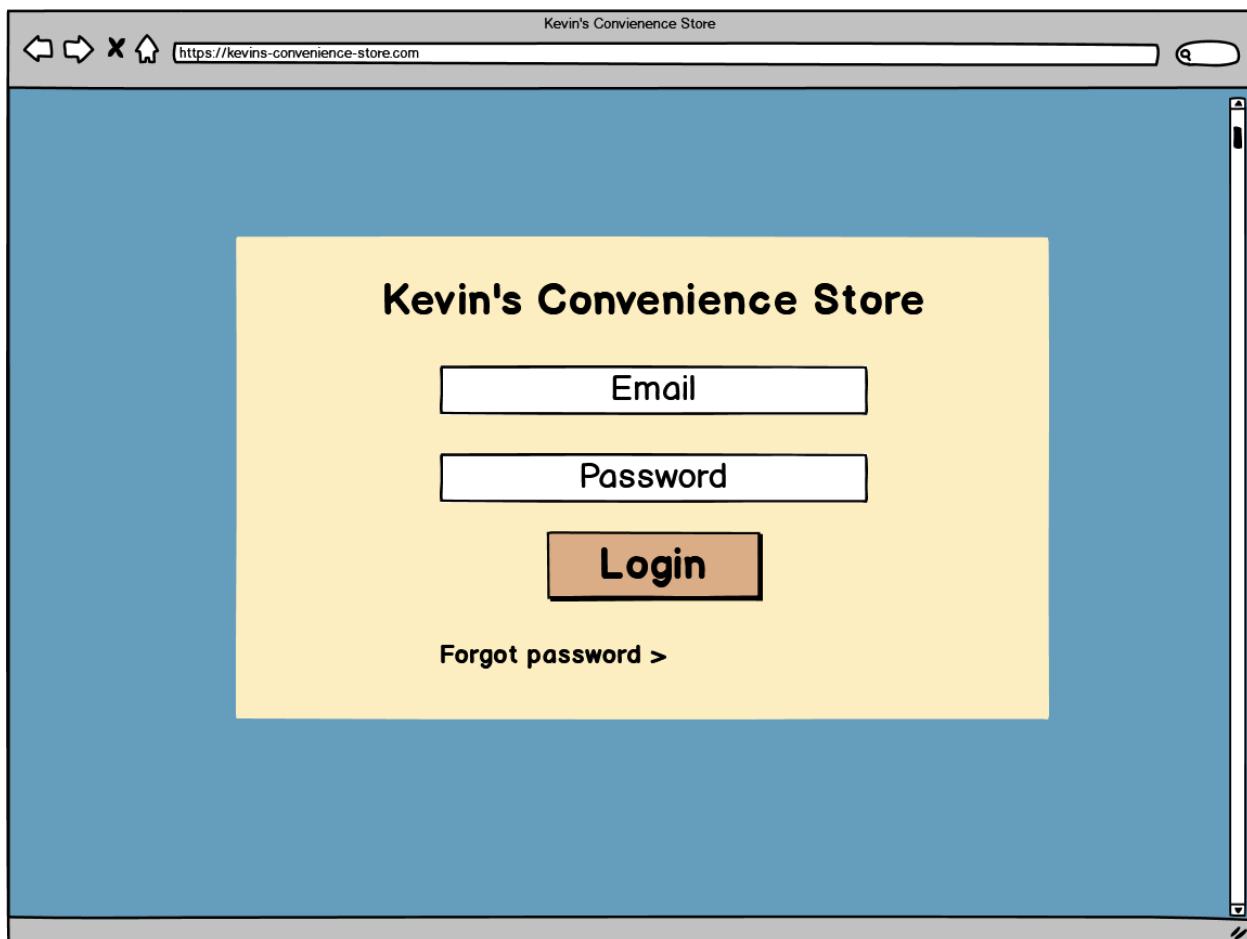


Figure 8.1.2 Login Page

8.1.3 Forgot Password

If the employee's account exists a reset password link will be sent to their entered email. Once the link is followed the user will be presented with the window shown in **Section 8.1.4** to change their password. See **Section 8.2.3** with steps on how a password can be recovered.



Figure 8.1.3 Password Recovery

8.1.4 Change Password

This window is presented when the user wishes to change their password, or they have received a reset password link.

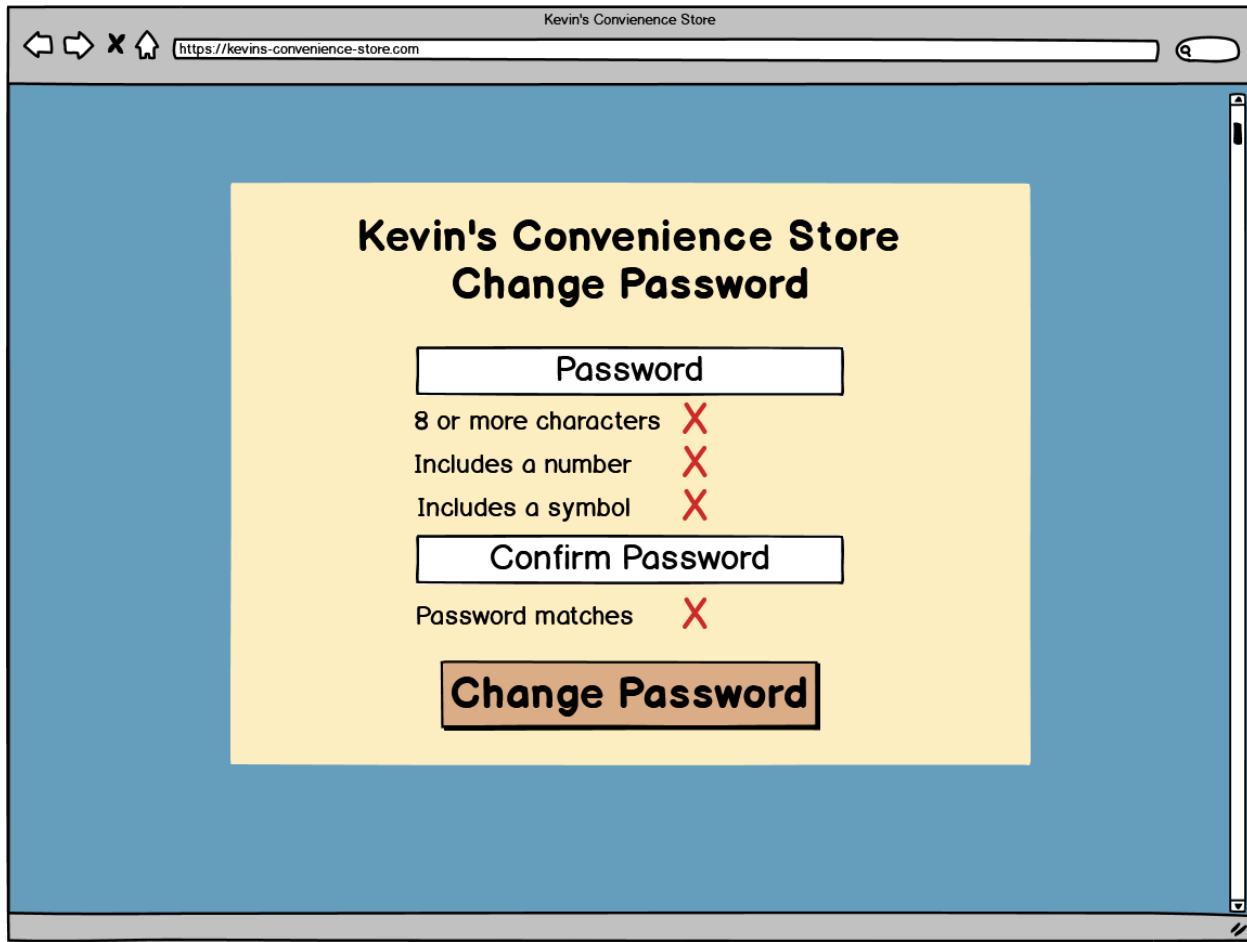


Figure 8.1.4 Change Password

8.1.5 Dashboard

The dashboard presents the branches inventory in the store. The quantity of each product and its price is shown in the inventory table. If the user wishes to see more product details such as the products remaining and their expiry date the user can select a product in the inventory table. The units used in the inventory table is “lbs” for items that are sold by weight and uses units as a standard unit for all other items.

The screenshot shows the Kevin's Convenience Store dashboard for support staff. The left sidebar has links for Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Requests, and Admin. The main area shows a table of inventory items with columns for Name, Description, Quantity, Category, and Price. The table includes rows for various milk types (1% milk 1L, 1% milk 2L, 1% milk 4L, 2% milk 1L, 2% milk 2L, 2% milk 4L), fruits (Apple, Banana, Potato), and medications (Advil, Tylenol). The interface includes a search bar, barcode search, and navigation buttons.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

Figure 8.1.5.1 Support Staff Dashboard

The screenshot shows the Kevin's Convenience Store dashboard for store managers. It includes the same sidebar and inventory table as the support staff version, but with additional sections for User Management and Discrepancies. The interface is identical to the support staff version.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

Figure 8.1.5.2 Store Managers' Dashboard

8.1.6 Product Details

A product's details such as its SKU, expiry date notification length, category, quantities and other information is shown on this product page. To navigate to this page, select a product in the Dashboard and its respective product page will be presented.

The screenshot shows the 'Kevin's Convenience Store' application interface. The left sidebar has a blue header 'Dashboard' and a brown body with items like 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', 'Admin' (with dropdown), 'Requests', 'User Management', and 'Discrepancies'. The main area has tabs 'Product Information' and 'Product History' (selected). A large yellow box titled 'Product Details' contains a product image (Dairyland 1% milk), a 'Modify Product' button, a 'Remove Product' button, and a table of product details:

Name 1%	Milk 1L
Description	Dairyland 1% milk
SKU	1256d
Category	Dairy
Perishable	Yes
Current in stock quantity	22 units
Current quantity with Upcoming expiry	20 units
Current quantity expired	3 units

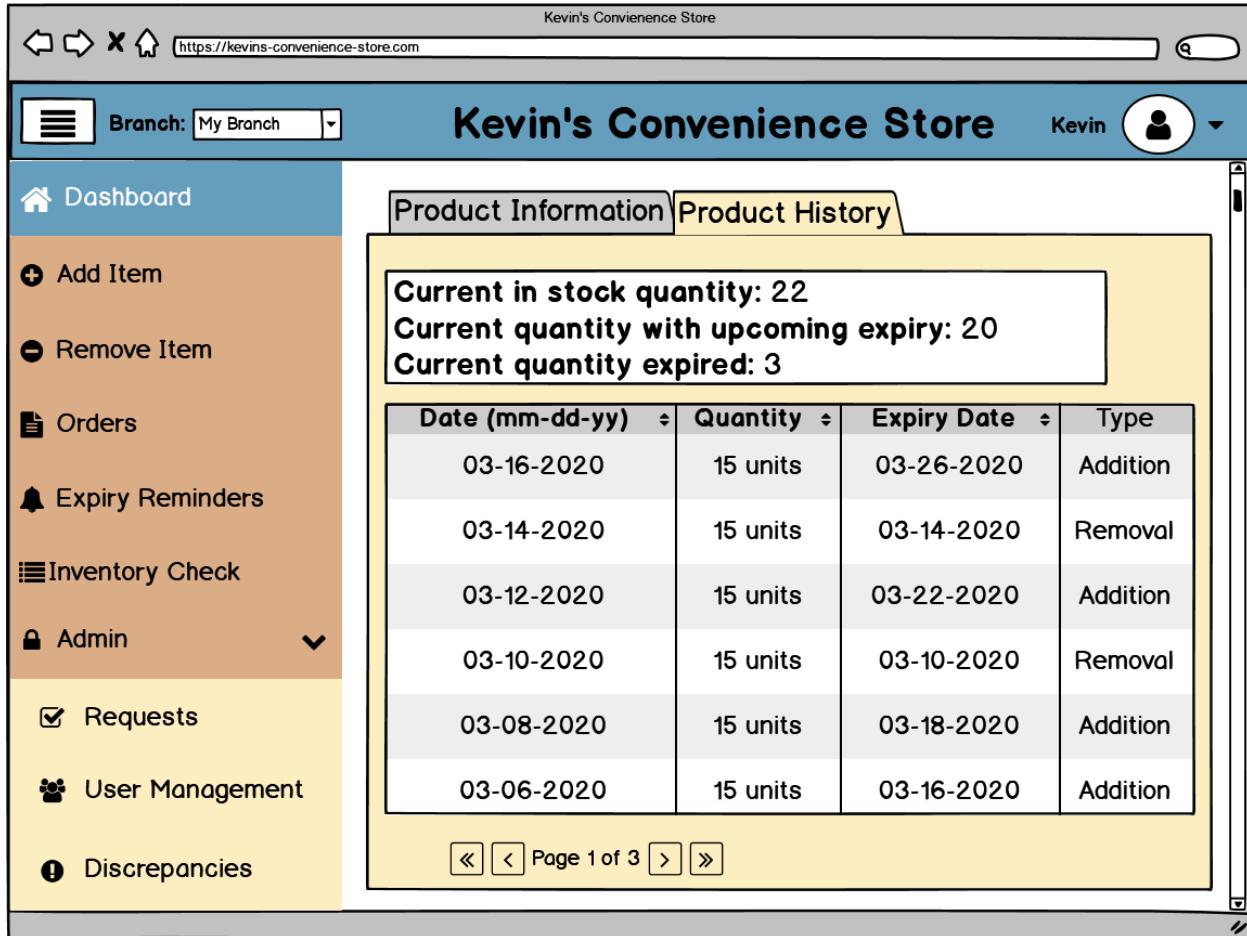
Below this is another table showing expiry dates and quantities:

Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

Figure 8.1.6 Product Details

8.1.7 Product History

A products history including quantities, additions, and removals is shown on this product page. To navigate to this page, select a product in the Dashboard and its respective product page will be presented.



The screenshot shows the Kevin's Convenience Store website interface. The top navigation bar includes a back button, forward button, refresh button, and a search bar with the URL <https://kevins-convenience-store.com>. The main header "Kevin's Convenience Store" is displayed above a user profile for "Kevin". The left sidebar menu has a "Dashboard" icon and lists: "Add Item", "Remove Item", "Orders", "Expiry Reminders", "Inventory Check", "Admin" (with a dropdown arrow), "Requests" (with a checked checkbox), "User Management", and "Discrepancies". The main content area has tabs for "Product Information" and "Product History", with "Product History" selected. It displays current stock information: "Current in stock quantity: 22", "Current quantity with upcoming expiry: 20", and "Current quantity expired: 3". Below this is a table of historical transactions:

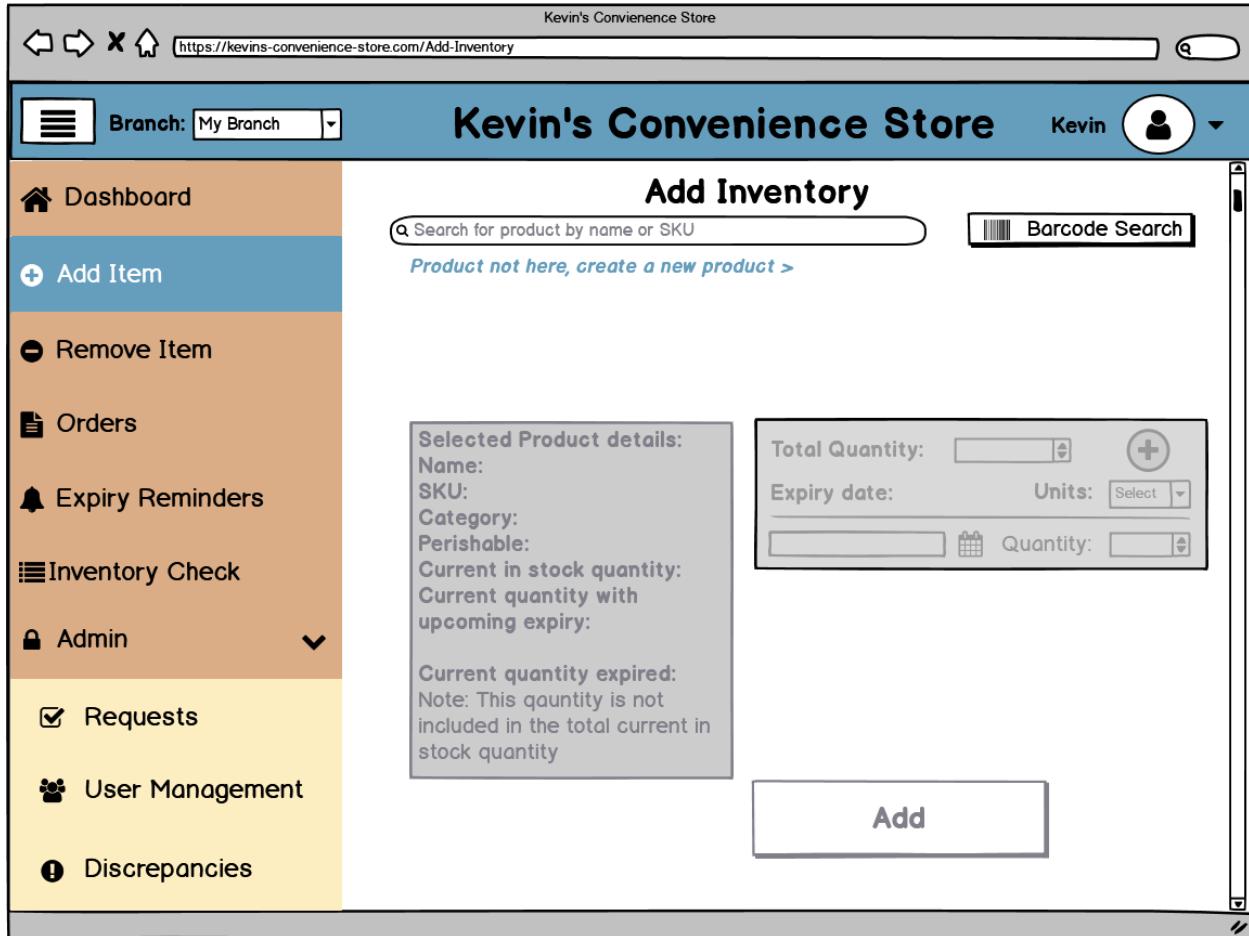
Date (mm-dd-yy)	Quantity	Expiry Date	Type
03-16-2020	15 units	03-26-2020	Addition
03-14-2020	15 units	03-14-2020	Removal
03-12-2020	15 units	03-22-2020	Addition
03-10-2020	15 units	03-10-2020	Removal
03-08-2020	15 units	03-18-2020	Addition
03-06-2020	15 units	03-16-2020	Addition

At the bottom of the table are navigation buttons: <<, <, >, >>, and "Page 1 of 3".

Figure 8.1.7 Product History

8.1.8 Add Item

Items can be added through the add item tab. To add an item the user searches for the product using its barcode as well, enters the product name, category, or SKU. After finding a product the user may enter the quantity of the item and the expiry date.

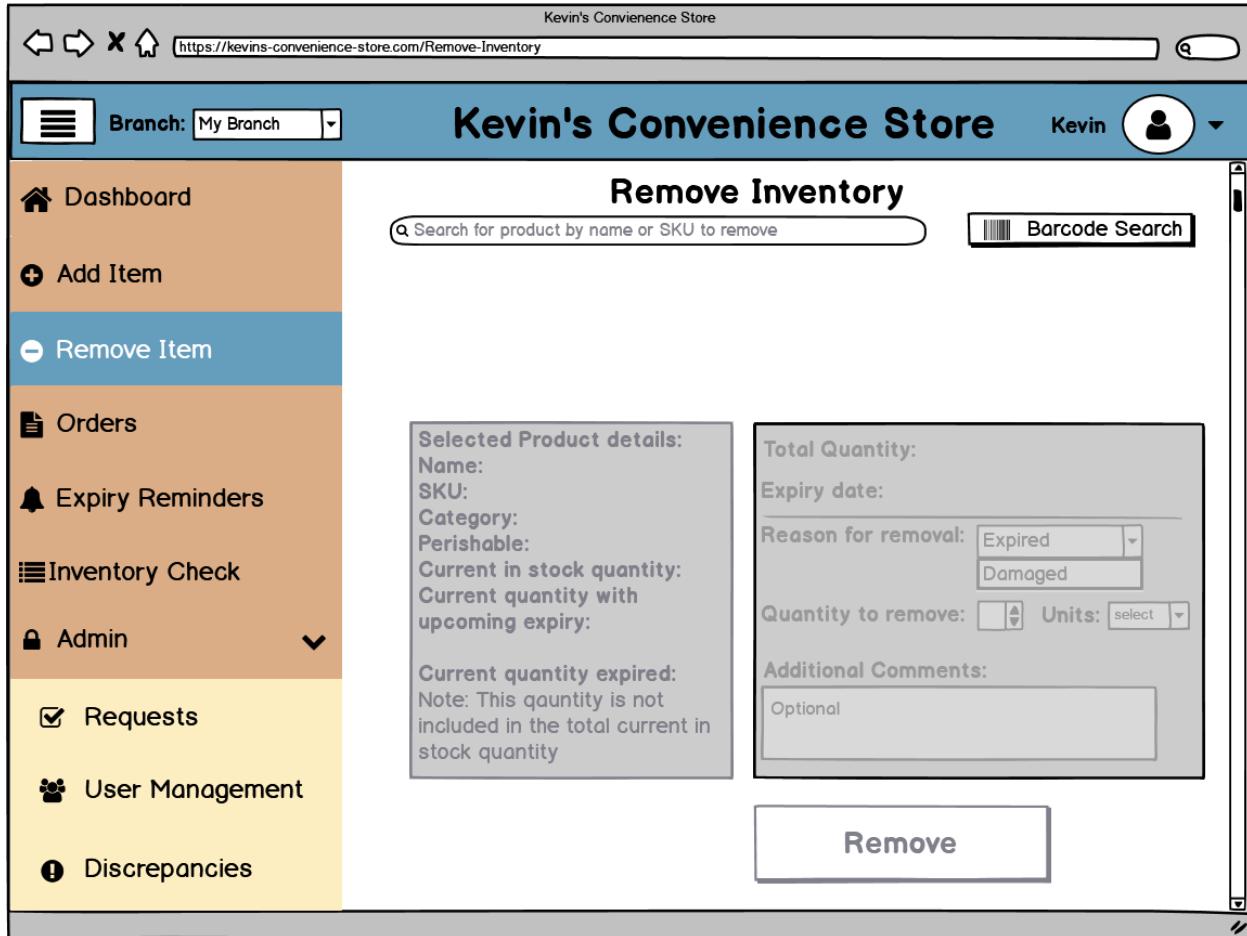


The screenshot shows the 'Add Inventory' page of the Kevin's Convenience Store application. The left sidebar has a blue header 'Branch: My Branch' and a list of items: Dashboard, Add Item (selected), Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with dropdown), Requests (with checked checkbox), User Management, and Discrepancies. The main content area has a title 'Add Inventory' and a search bar 'Search for product by name or SKU'. Below it is a link 'Product not here, create a new product >'. A 'Barcode Search' button is also present. On the right, there's a box for 'Selected Product details:' with fields for Name, SKU, Category, and Perishable. It also shows current stock quantity, current quantity with upcoming expiry, and current quantity expired. A note says 'Note: This quantity is not included in the total current in stock quantity'. To the right of this box is a form for entering 'Total Quantity' (with a plus sign button), 'Expiry date' (with a calendar icon), 'Units' (with a dropdown menu), and 'Quantity' (with a plus sign button). At the bottom right is a large 'Add' button.

Figure 8.1.8 Add Item

8.1.9 Remove Item

To remove items from the inventory the user finds the product by searching for the barcode, entering the product name, category, or SKU. The items can then be filtered by their expiry date and a quantity can be selected to be removed.



The screenshot shows the 'Remove Inventory' page of the Kevin's Convenience Store application. The left sidebar has a 'Remove Item' button highlighted. The main area shows product details and removal options.

Selected Product details:
Name:
SKU:
Category:
Perishable:
Current in stock quantity:
Current quantity with upcoming expiry:

Current quantity expired:
Note: This quantity is not included in the total current in stock quantity

Total Quantity:
Expiry date:

Reason for removal:

Quantity to remove: Units:

Additional Comments:
Optional

Remove

Figure 8.1.9 Remove Item

8.1.10 Orders

Both Support staff and Store Managers may intake orders. Only store managers may modify, delete, or draft orders.

The screenshot shows the Kevin's Convenience Store web application interface. The left sidebar has a 'Support' tab selected, which includes 'Dashboard', 'Add Item', 'Remove Item', 'Orders' (selected), 'Expiry Reminders', 'Inventory Check', and 'Requests'. The main area is titled 'Order History' and contains a search bar and a 'Draft New Order' button. Below is a table of order summaries:

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Figure 8.1.10.1 Support Staff Orders View

This screenshot shows the same Kevin's Convenience Store interface, but with a 'Store Manager' tab selected in the left sidebar, which includes 'Dashboard', 'Add Item', 'Remove Item', 'Orders' (selected), 'Expiry Reminders', 'Inventory Check', 'Admin' (selected), 'Requests', 'User Management', and 'Discrepancies'. The main area is identical to the Support Staff view, showing the 'Order History' table with the same five orders listed.

Figure 8.1.10.2 Store Managers Orders View

8.1.11 Upcoming Expiry

Upcoming expiry notifications can be found in the expiry reminders tab and dismissed. All produce items do not have an entered expiry date as they are removed as examined.

The screenshot shows the Kevin's Convenience Store application interface. The left sidebar has a light orange background and contains the following menu items:

- Dashboard
- Add Item
- Remove Item
- Orders
- Expiry Reminders** (highlighted in blue)
- Inventory Check
- Admin (with a dropdown arrow)
- Requests
- User Management
- Discrepancies

The main content area has a light grey background and displays the "Expiry" section. At the top of this section are two buttons: "Upcoming Expiry" (highlighted in blue) and "Expired". Below these buttons is a search bar with the placeholder text "Search by item, date, or quantity". A table follows, showing the details of four upcoming expiry items:

Item	Quantity	Expiry Date	Days until expiry	Dismiss
3.25 % milk 4L	13 units	03-12-2020	3 days	
3.25 % milk 4L	4 units	03-11-2020	2 days	
1 % Milk 1L	8 units	03-12-2020	3 days	
1 % Milk 1L	5 units	03-11-2020	2 days	

Figure 8.1.11 Upcoming Expiry

8.1.12 Expired

Expired items can be found in the Expiry Reminders tab and are to be removed by the user. Expired items can be removed as shown in **Section 8.2.8**. All produce items do not have an entered expiry date as they are removed as examined.

The screenshot shows the Kevin's Convenience Store application interface. The left sidebar has a 'Dashboard' section with 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders' (which is selected and highlighted in blue), and 'Inventory Check'. Below that is an 'Admin' dropdown menu with 'Requests' (checked), 'User Management', and 'Discrepancies'. The main content area is titled 'Expiry' with tabs for 'Upcoming Expiry' and 'Expired' (which is selected). A search bar says 'Search by item, date, or quantity'. A table lists four items: 1% Milk 1L (25 units, expiring 03-08-2020, 4 days since), 1% Milk 1L (8 units, expiring 03-10-2020, 2 days since), 1% Milk 1L (5 units, expiring 03-11-2020, 1 day since), and 3.25 % milk 4L (4 units, expiring 03-11-2020, 1 day since). Each row has a 'Remove Item' button.

Item	Quantity	Expiry Date	Time Since Expiry	Remove Item
1 % Milk 1L	25 units	03-08-2020	4 day(s)	Remove Item
1 % Milk 1L	8 units	03-10-2020	2 days	Remove Item
1 % Milk 1L	5 units	03-11-2020	1 days	Remove Item
3.25 % milk 4L	4 units	03-11-2020	1 days	Remove Item

Figure 8.1.12 Expired Items

8.1.13 Inventory Check

The Inventory check page contains the complete inventory action as well as the options to delete, edit or print the inventory check. Modification and deletions of inventory checks by support staff must be approved by a store manager as shown in **Section 8.2.16** for the change to occur.

The screenshot shows the 'Kevin's Convenience Store' website interface. The left sidebar has a blue header 'Inventory Check' and a yellow footer section containing 'Requests', 'User Management', and 'Discrepancies'. The main content area is titled 'Inventory Check History' and displays a table of completed checks. The table columns are 'Order Summary', 'Date (mm-dd-yy)', 'Status', 'Employee', and 'Select'. Two rows are listed:

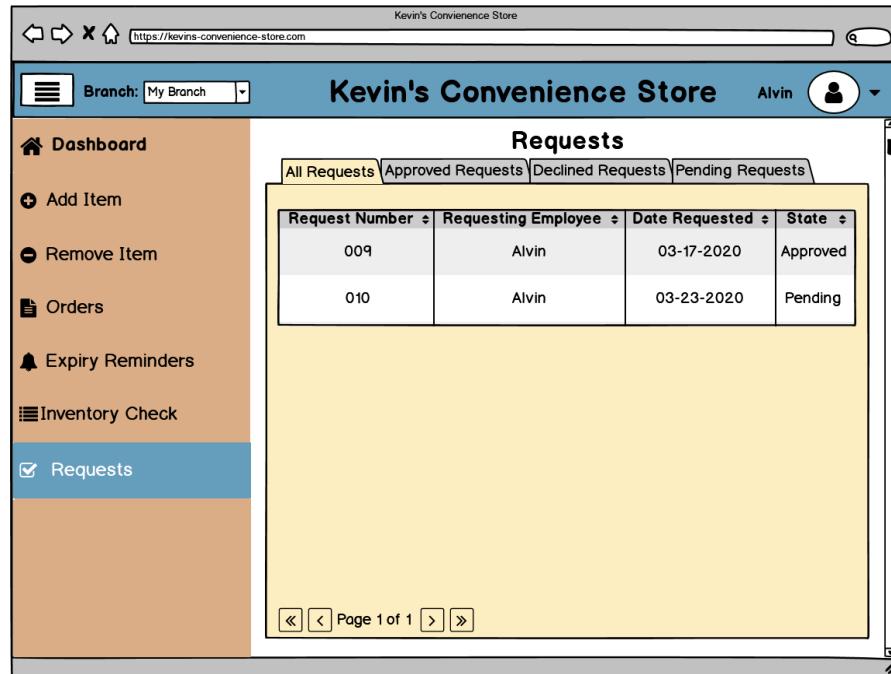
Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

At the top right of the main content area, there are buttons for 'Complete Inventory Check', 'Print', 'Delete', and 'Edit'.

Figure 8.1.13 Store Manager Inventory Check Page

8.1.14 All Requests

Store managers can see all support staff requests and can gain more information regarding the requests. The store manager may also approve or decline the requests. Support staff may see all their requests and their respective status. All requests remain in history as they may be needed for reference in the future.

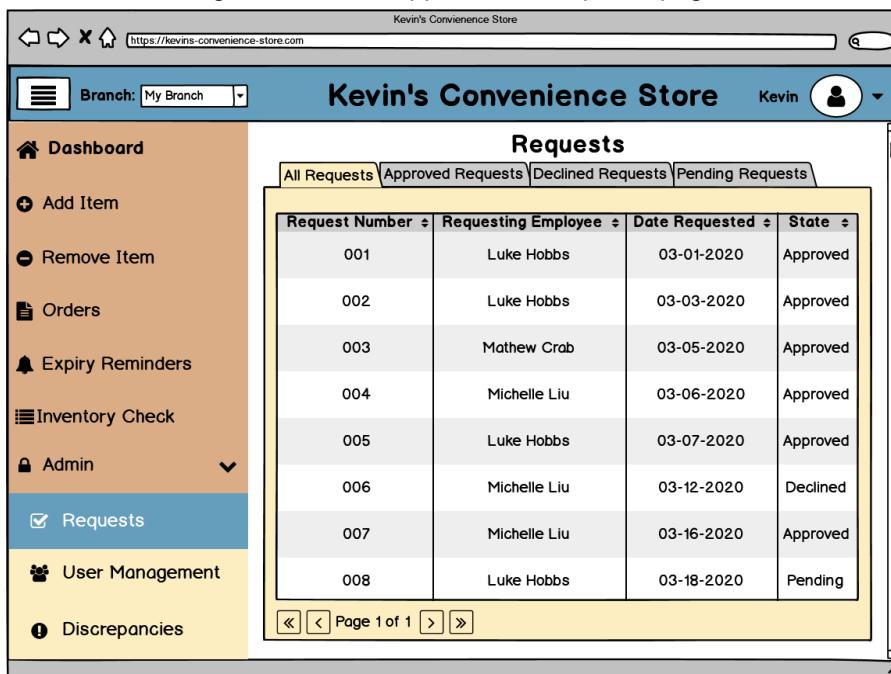


The screenshot shows a web browser window for "Kevin's Convenience Store". The left sidebar has a "Requests" section selected. The main area is titled "Requests" and shows a table with two rows of data. The columns are "Request Number", "Requesting Employee", "Date Requested", and "State".

Request Number	Requesting Employee	Date Requested	State
009	Alvin	03-17-2020	Approved
010	Alvin	03-23-2020	Pending

Page navigation buttons at the bottom indicate "Page 1 of 1".

Figure 8.1.14.1 Support Staff Requests page



The screenshot shows a web browser window for "Kevin's Convenience Store". The left sidebar has an "Admin" section expanded, showing "Requests" and "User Management" under it. The main area is titled "Requests" and shows a table with eight rows of data. The columns are "Request Number", "Requesting Employee", "Date Requested", and "State".

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
006	Michelle Liu	03-12-2020	Declined
007	Michelle Liu	03-16-2020	Approved
008	Luke Hobbs	03-18-2020	Pending

Page navigation buttons at the bottom indicate "Page 1 of 1".

Figure 8.1.14.2 Store Manager Requests page

8.1.15 Approved Requests

Store managers can see all approved support staff requests and can gain more information regarding the requests. Support staff may see all their approved requests and their information. All requests remain in history as they may be needed for reference in the future.

The screenshot shows the Kevin's Convenience Store web application interface. The top navigation bar includes a back button, forward button, close button, and a search bar with the URL <https://kevins-convenience-store.com>. The main header displays "Kevin's Convenience Store" and a user profile for "Kevin". A sidebar on the left contains links for Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with a dropdown arrow), Requests (which is selected and highlighted in blue), User Management, and Discrepancies. The main content area is titled "Requests" and features a sub-header with tabs: All Requests, Approved Requests (which is selected and highlighted in blue), Declined Requests, and Pending Requests. Below the tabs is a table with the following data:

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
007	Michelle Liu	03-16-2020	Approved

At the bottom of the content area, there are navigation buttons for page navigation: <<, <, Page 1 of 1, >, and >>.

Figure 8.1.15 Approved Requests page

8.1.16 Declined Requests

Store managers can see all declined support staff requests and can gain more information regarding the requests. Support staff may see all their declined requests and their information. All requests remain in history as they may be needed for reference in the future.

The screenshot shows the Kevin's Convenience Store software interface. The top navigation bar includes a back button, forward button, close button, a search bar with the URL <https://kevins-convenience-store.com>, and a user profile for 'Kevin'. The main header 'Kevin's Convenience Store' is displayed above a dashboard sidebar and the main content area.

The sidebar on the left contains the following menu items:

- Dashboard
- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Admin (dropdown menu)
- Requests
- User Management
- Discrepancies

The main content area is titled 'Requests' and includes a navigation bar with tabs: All Requests, Approved Requests, Declined Requests, and Pending Requests. The 'Declined Requests' tab is selected. A table displays the details of one declined request:

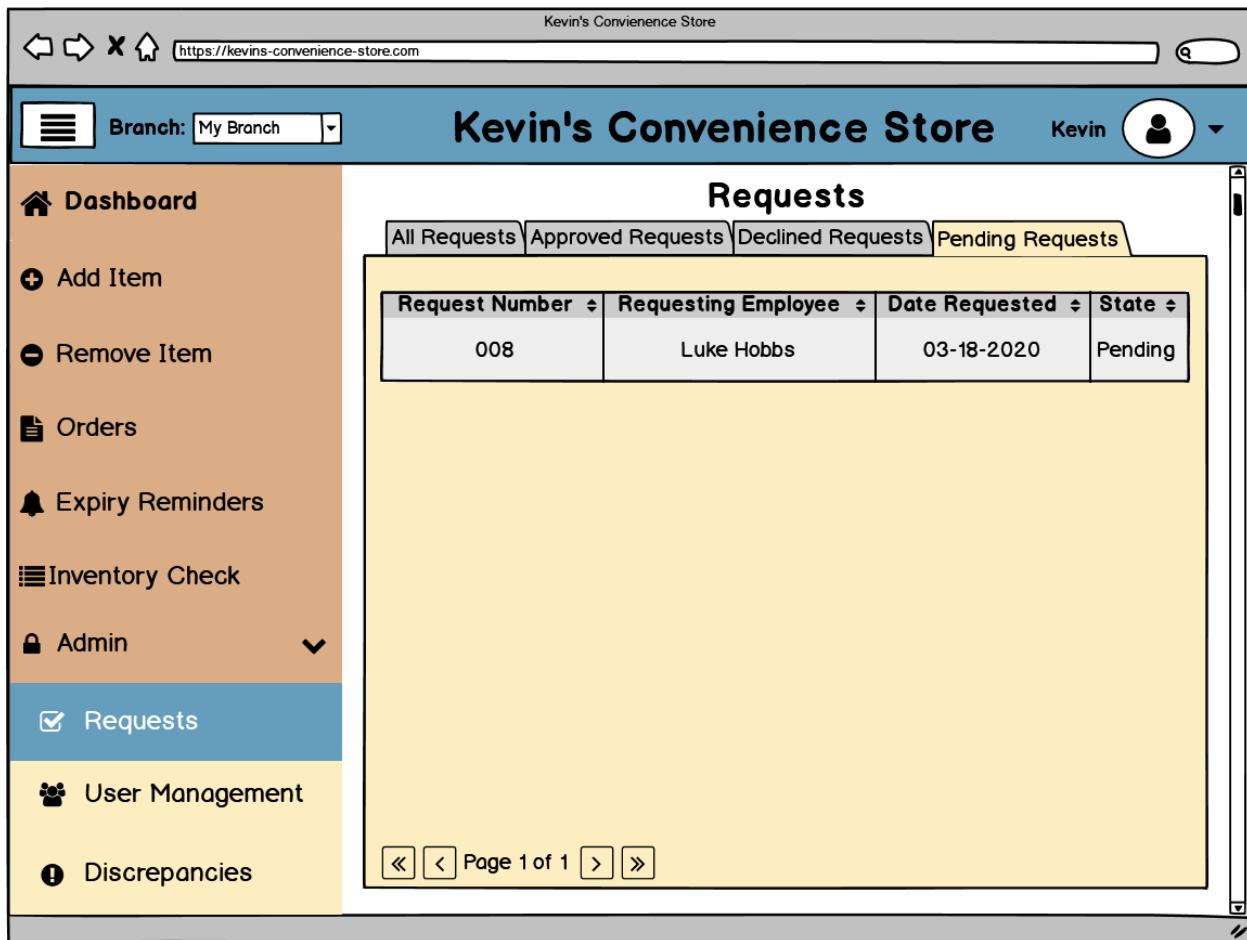
Request Number	Requesting Employee	Date Requested	State
006	Michelle Liu	03-12-2020	Declined

At the bottom of the content area, there are navigation buttons for page navigation: <<, <, Page 1 of 1, >, >>.

Figure 8.1.16 Declined Requests page

8.1.17 Pending Requests

Store managers can see all pending support staff requests and can gain more information regarding the requests. The store manager may also approve or decline the requests. Support staff may see all their pending requests and their respective status. All requests remain in history as they may be needed for reference in the future.



The screenshot shows the 'Kevin's Convenience Store' application interface. The top navigation bar includes a back button, forward button, refresh button, and a search bar with the URL <https://kevins-convenience-store.com>. The title 'Kevin's Convenience Store' is displayed, along with a user profile for 'Kevin' and a dropdown menu. On the left, a sidebar menu lists 'Dashboard', 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', 'Admin' (with a dropdown arrow), 'Requests' (which is selected and highlighted in blue), 'User Management', and 'Discrepancies'. The main content area is titled 'Requests' and features a table with four columns: Request Number, Requesting Employee, Date Requested, and State. The table contains one row with the values: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. Below the table, there are navigation buttons for page navigation: <<, <, >, >>, and a text indicator 'Page 1 of 1'.

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	03-18-2020	Pending

Figure 8.1.17 Pending Requests page

8.1.18 User Management

Only Store Managers may manage users access rights to the Inventory Management System.

The screenshot shows the User Management interface for Kevin's Convenience Store. The left sidebar has a 'Dashboard' section with icons for Add Item, Remove Item, Orders, Expiry Reminders, and Inventory Check. Below that is an 'Admin' dropdown menu, followed by 'Requests' (with a checked checkbox), 'User Management' (which is selected and highlighted in blue), and 'Discrepancies'. The main content area is titled 'User Management' and displays a table of 12 employees. The table columns are Name, Job Title, Preferred name, Employee ID, and Options (containing a trash can and edit icon). The employees listed are: Exan Hu (Store manager, Hu, A0001), Euwan Macalister (Support staff, Eman, A0002), George Bo (Store manager, Boey, A0003), Luke Hobbs (Support staff, Luke, A0004), Michelle Liu (Support staff, Michelle, A0005), Mathew Crab (Support staff, Mathew, A0006), Jules Pras (Store manager, Jules, A0007), Bobby Scetoro (Support staff, Bobby, A0008), Tommy Dods (Store manager, Dods, A0009), Conor Carmal (Support staff, Conor, A0011), and Jiang Zemin (Support staff, Alvin, A0012).

Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	Jules	A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	
Jiang Zemin	Support staff	Alvin	A0012	

Figure 8.1.18 User Management page

8.1.19 Discrepancies

The discrepancies page is only viewable by the store manager. The store manager is notified by an alert if a completed inventory check results in any discrepancies. The discrepancies can be viewed by selecting the inventory check with the drop-down menu.

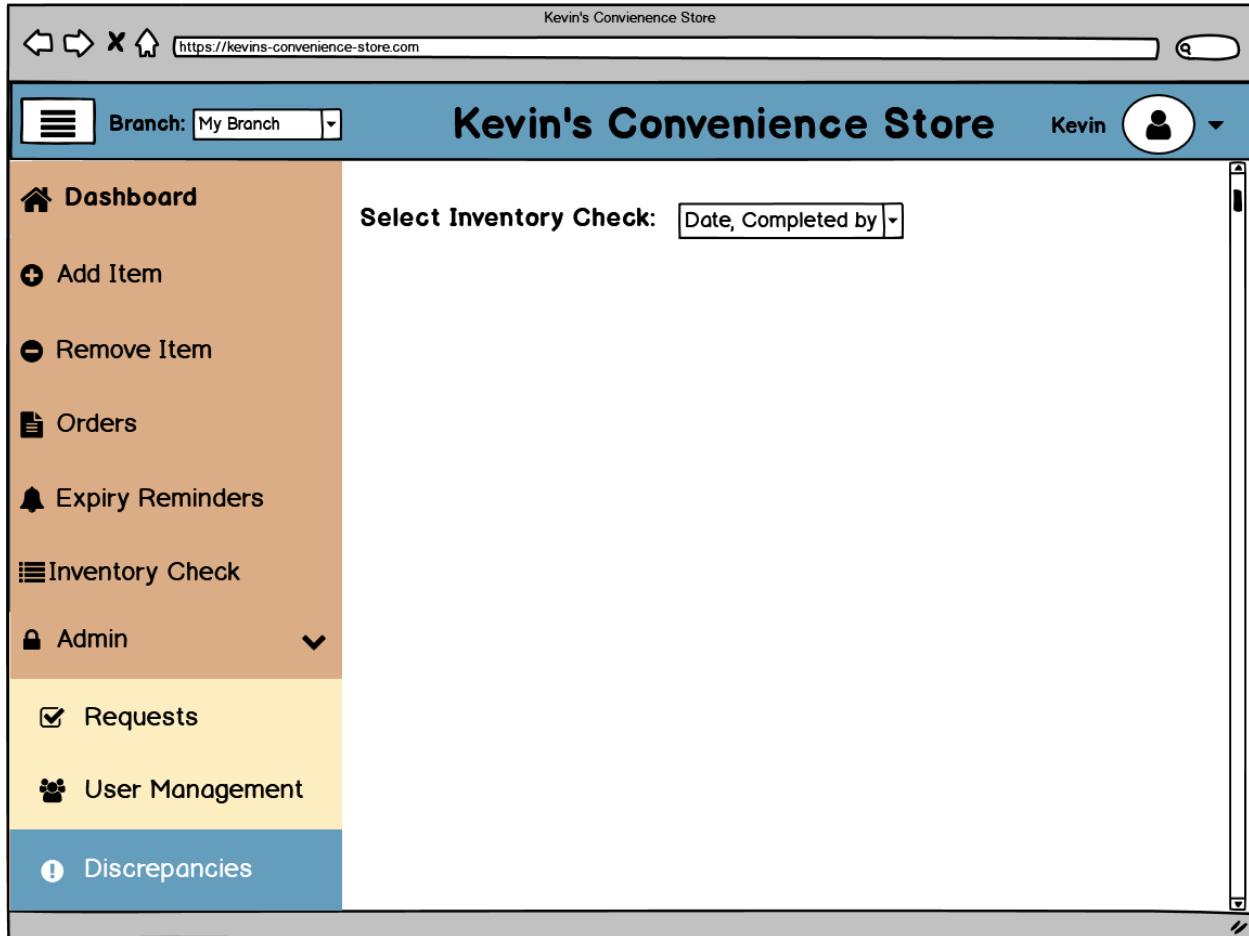


Figure 8.1.19 Discrepancies page

8.2 Storyboards

The storyboards in this section show the use and actions that can be completed using the Inventory Management System. To reiterate storyboards will only contain support staff views to reiterate or show a difference in functionality or use. When both functionality and use are similar only the store managers view is shown.

8.2.1 Create an Account

An account can be created by only a store manager. See **Section 8.2.21** to see how a user is added. Once the user is created an account creation link is sent to the users entered email address. Once the create account link is clicked the user is prompted to create a password and enter their phone number.

The screenshot shows a web browser window with the title 'Kevin's Convenience Store' at the top. The URL bar contains 'https://kevins-convenience-store.com'. The main content area displays a form titled 'Account Creation' with the following fields and validation messages:

- Password**:
 - 8 or more characters **X**
 - Includes a number **X**
 - Includes a symbol **X**
- Confirm Password**:
 - Password matches **X**
- Phone Number**
- Create** button

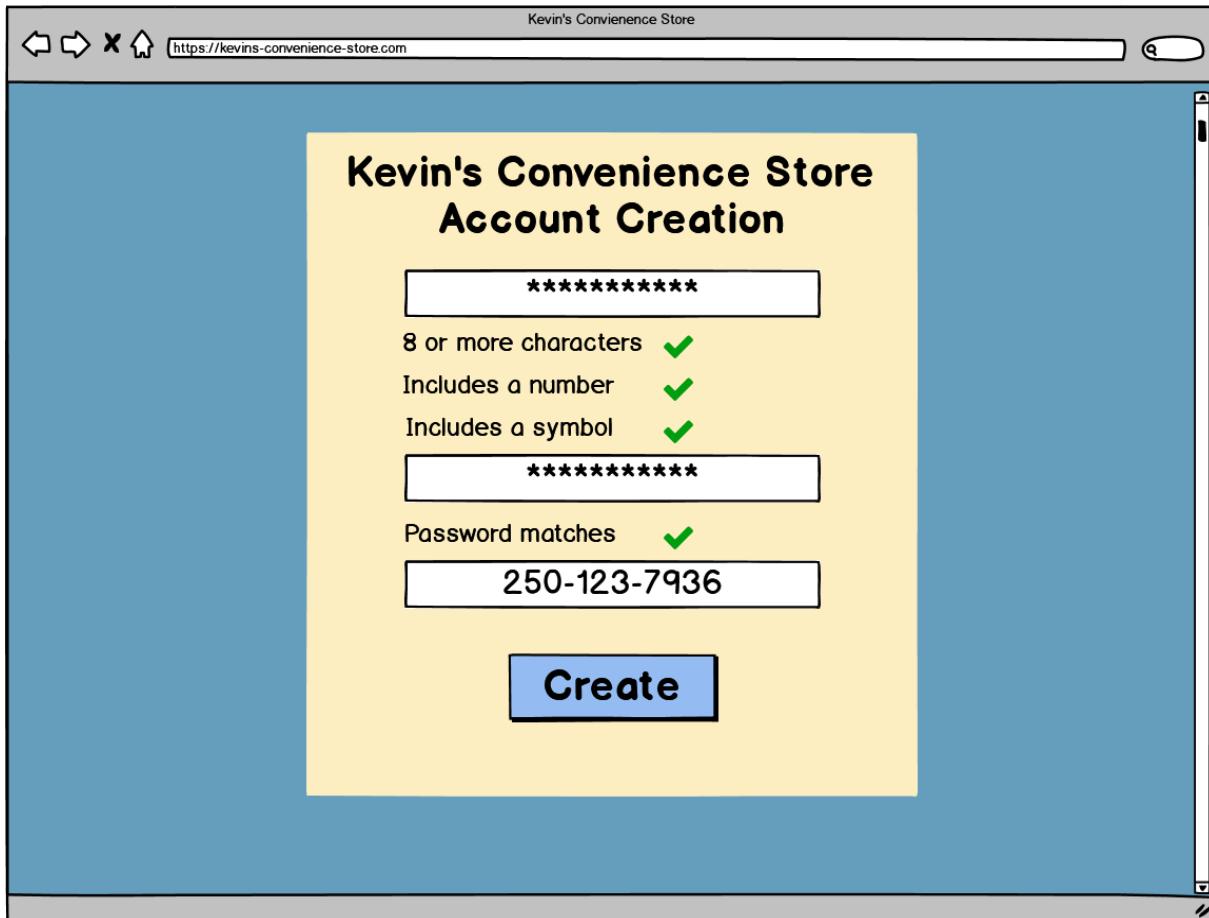


Figure 8.2.1 Create an Account

8.2.2 Login

The user enters their account information to log into the Inventory Management System.

The image displays two sequential screenshots of a web browser window. The browser's title bar reads "Kevin's Convenience Store" and the address bar shows the URL "https://kevins-convenience-store.com".

Screenshot 1: The initial login page. It features a yellow central box with the text "Kevin's Convenience Store" at the top. Below it are two input fields: "Email" and "Password", both with black outlines. A large blue "Login" button is centered below them. At the bottom of the yellow box is a link "Forgot password >".

Screenshot 2: The same login page after input. The "Email" field now contains "Alvin@gmail.com" and the "Password" field contains "*****". The "Login" button has turned blue. The "Forgot password >" link remains at the bottom.

The screenshot shows the Kevin's Convenience Store Information Management System. The top navigation bar includes a back/forward button, a refresh button, a close button, and a URL field showing <https://kevins-convenience-store.com>. The title "Kevin's Convenience Store" is centered above a user profile for "Alvin". A sidebar on the left contains links for "Dashboard", "Add Item", "Remove Item", "Orders", "Expiry Reminders", "Inventory Check", and "Requests". The main content area features a search bar with "Search for a product" and a barcode search icon. Below is a table of inventory items:

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

Pagination controls at the bottom indicate "Page 1 of 9".

Figure 8.2.2 Logging into the Information Management System

8.2.3 Password Recovery

If the user forgets their password or is locked out the user may request a reset password link. The user selects forgot password which prompts them to enter their email address. An email is sent to the user containing a password reset link if an account is linked to that email address.

The image displays two screenshots of a web browser window for "Kevin's Convenience Store". Both screenshots show the "Account Creation" form. The top screenshot shows an invalid password entry, while the bottom screenshot shows a valid password entry.

Top Screenshot (Invalid Password):

- Fields:** Password, Confirm Password, Phone Number.
- Validation:** 8 or more characters (X), Includes a number (X), Includes a symbol (X).
- Create Button:** Brown button labeled "Create".

Bottom Screenshot (Valid Password):

- Fields:** Password, Confirm Password, Phone Number.
- Validation:** 8 or more characters (✓), Includes a number (✓), Includes a symbol (✓).
- Input Examples:** Password field contains "*****", Confirm Password field contains "*****", Phone Number field contains "250-123-7936".
- Create Button:** Blue button labeled "Create".

User clicks the password reset link in their email, assuming it has an associated account.

The figure consists of two vertically stacked screenshots of a web browser window. Both screenshots show a yellow rectangular form titled "Kevin's Convenience Store Change Password".

Screenshot 1 (Top): Failed Password Recovery

- A white input field labeled "Password".
- Validation messages:
 - 8 or more characters X
 - Includes a number X
 - Includes a symbol X
- A white input field labeled "Confirm Password".
- Validation message: Password matches X
- A large blue "Change Password" button.

Screenshot 2 (Bottom): Successful Password Recovery

- A white input field filled with "*****".
- Validation messages:
 - 8 or more characters ✓
 - Includes a number ✓
 - Includes a symbol ✓
- A white input field filled with "*****".
- Validation message: Password matches ✓
- A large blue "Change Password" button.

Figure 8.2.3 Recovering the Users password

8.2.4 Create a Product

To create a product, it cannot exist in the system. The user selects the add item tab and selects the product not here option. The user enters the product's information and confirms it is correct.

The screenshot shows the 'Add Inventory' page of the Kevin's Convenience Store application. On the left, a sidebar menu includes 'Dashboard', 'Add Item' (which is selected), 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', 'Admin' (selected), 'Requests', 'User Management', and 'Discrepancies'. The main content area has a heading 'Add Inventory' and a sub-instruction 'Product not here, create a new product >'. It features a search bar, a barcode search button, and two input boxes for 'Total Quantity' and 'Expiry date'. A note states: 'Current quantity expired: Note: This quantity is not included in the total current in stock quantity'. At the bottom is a large 'Add' button.

The screenshot shows the 'Create a New Product' dialog box overlaid on the 'Add Inventory' page. The dialog has fields for 'Name' (empty), 'Description' (empty), 'Category' (a dropdown menu showing 'Select', 'Dairy', 'Produce', 'Household supplies', 'Dry goods', 'Pharmacy', and 'Other'), 'SKU' (empty), 'Barcode' (with 'UPC' and 'Scan Barcode' buttons), 'Units' (a dropdown menu showing 'select'), and 'Expiry notification time frame' (a dropdown menu showing 'Days' and 'Weeks'). At the bottom are 'Cancel' and 'Create' buttons.

Kevin's Convenience Store

https://kevins-convenience-store.com/Add-Inventory

Branch: My Branch Kevin

Add Inventory

Product not here? [Create a new product](#)

Create a New Product

Name: 3% milk 1L

Description: Dairyland 3% milk

Category:

Dairy
Produce
Household supplies
Dry goods
Pharmacy
Other

SKU: 1256j

Barcode: 123456789101

Units:

Expiry notification time frame:

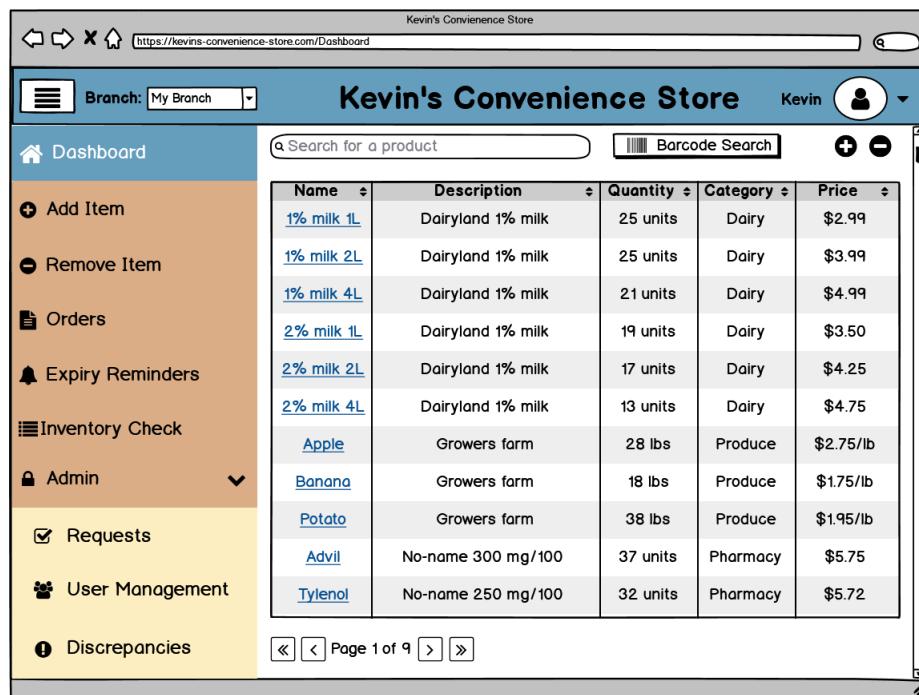
Selected Product
Name:
SKU:
Category:
Perishable:
Current in stock:
Current quantity:
upcoming expiry:

Current quantity:
Note: This quantity is included in the total stock quantity.

Figure 8.2.4.1 Add a Product

8.2.5 Remove a Product

The user navigates to the product page by selecting or searching for the product in the dashboard. The user selects “remove product” and is prompted to confirm the product’s removal. If the product is being removed by support staff, they will be prompted to create a request to remove the product. The store manager must approve this request as shown in [Section 8.2.16](#).



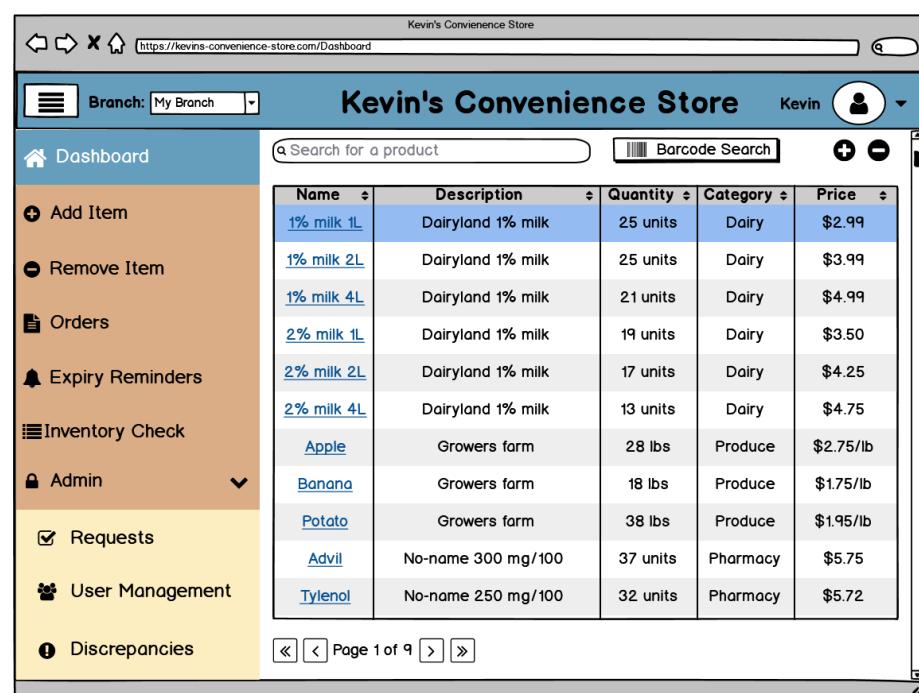
The screenshot shows the Kevin's Convenience Store dashboard. On the left, there is a sidebar with the following menu items:

- Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Admin (selected)
- Requests
- User Management
- Discrepancies

The main area displays a table of products with the following data:

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

At the bottom of the table, there are navigation buttons: «, <, Page 1 of 9, >, ».



This screenshot is identical to the one above, but the first row of the product table (1% milk 1L) is highlighted in blue, indicating it has been selected for removal.

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Product Details

	Name 1% Milk 1L
	Description Dairyland 1% milk
	SKU 1256d
	Category Dairy
	Perishable Yes
	Current in stock quantity 22 units
	Current quantity with Upcoming expiry 20 units
	Current quantity expired 3 units
Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Product Details

	Name 1% Milk 1L
	Description Dairyland 1% milk
	SKU 1256d
	Category Dairy
	Perishable Yes
	Current in stock quantity 22 units
	Current quantity with Upcoming expiry 20 units
	Current quantity expired 3 units
Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

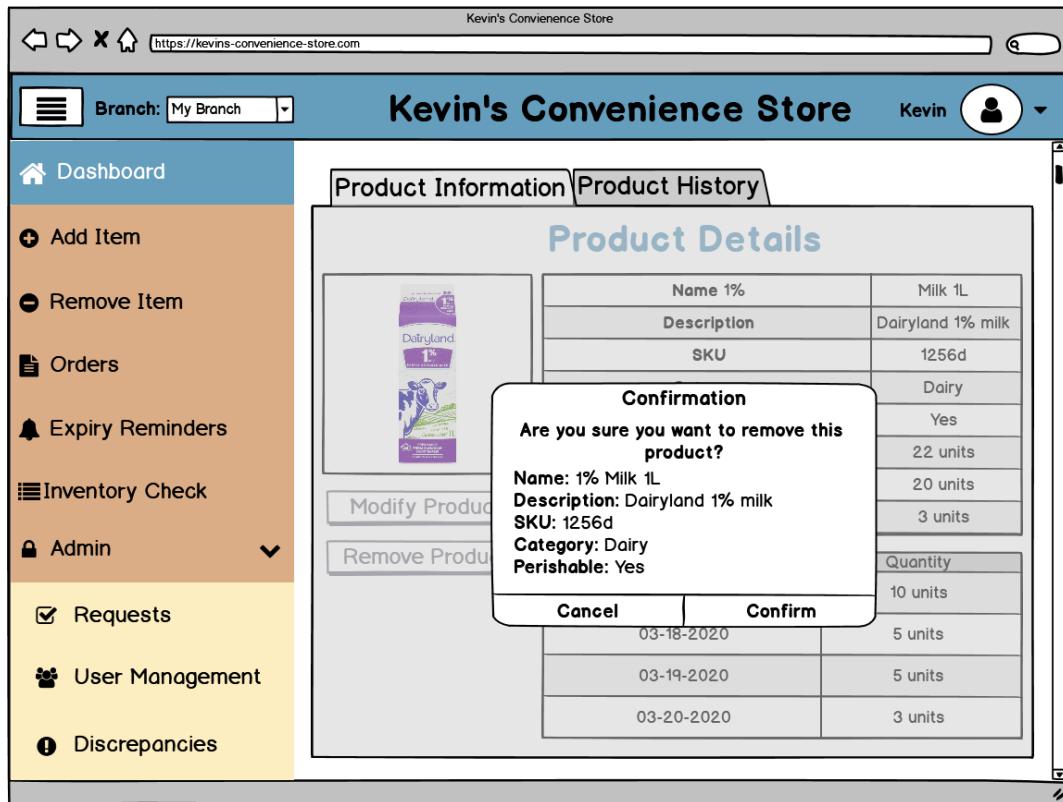


Figure 8.2.5.1 Store Manager Removing a Product

Kevin's Convenience Store																																																														
Dashboard		<input type="text"/> Search for a product Barcode Search + -																																																												
<input type="button"/> Add Item <input type="button"/> Remove Item <input type="button"/> Orders <input type="button"/> Expiry Reminders <input type="button"/> Inventory Check <input checked="" type="checkbox"/> Requests <input type="button"/> User Management <input type="button"/> Discrepancies		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th><th>Description</th><th>Quantity</th><th>Category</th><th>Price</th></tr> </thead> <tbody> <tr><td>1% milk 1L</td><td>Dairyland 1% milk</td><td>25 units</td><td>Dairy</td><td>\$2.99</td></tr> <tr><td>1% milk 2L</td><td>Dairyland 1% milk</td><td>25 units</td><td>Dairy</td><td>\$3.99</td></tr> <tr><td>1% milk 4L</td><td>Dairyland 1% milk</td><td>21 units</td><td>Dairy</td><td>\$4.99</td></tr> <tr><td>2% milk 1L</td><td>Dairyland 1% milk</td><td>19 units</td><td>Dairy</td><td>\$3.50</td></tr> <tr><td>2% milk 2L</td><td>Dairyland 1% milk</td><td>17 units</td><td>Dairy</td><td>\$4.25</td></tr> <tr><td>2% milk 4L</td><td>Dairyland 1% milk</td><td>13 units</td><td>Dairy</td><td>\$4.75</td></tr> <tr><td>Apple</td><td>Growers farm</td><td>28 lbs</td><td>Produce</td><td>\$2.75/lb</td></tr> <tr><td>Banana</td><td>Growers farm</td><td>18 lbs</td><td>Produce</td><td>\$1.75/lb</td></tr> <tr><td>Potato</td><td>Growers farm</td><td>38 lbs</td><td>Produce</td><td>\$1.95/lb</td></tr> <tr><td>Advil</td><td>No-name 300 mg/100</td><td>37 units</td><td>Pharmacy</td><td>\$5.75</td></tr> <tr><td>Tylenol</td><td>No-name 250 mg/100</td><td>32 units</td><td>Pharmacy</td><td>\$5.72</td></tr> </tbody> </table> <div style="text-align: center; margin-top: 10px;"> « < Page 1 of 9 > » </div>	Name	Description	Quantity	Category	Price	1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99	1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99	1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99	2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50	2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25	2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75	Apple	Growers farm	28 lbs	Produce	\$2.75/lb	Banana	Growers farm	18 lbs	Produce	\$1.75/lb	Potato	Growers farm	38 lbs	Produce	\$1.95/lb	Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75	Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72
Name	Description	Quantity	Category	Price																																																										
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99																																																										
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1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99																																																										
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50																																																										
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25																																																										
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Potato	Growers farm	38 lbs	Produce	\$1.95/lb																																																										
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Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72																																																										

Kevin's Convenience Store

Branch: My Branch Alvin

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Requests

Search for a product | Barcode Search | + -

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

<< < Page 1 of 9 > >>

Kevin's Convenience Store

Branch: My Branch Alvin

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Requests

Product Information | Product History

Product Details

	Name 1% Milk 1L
	Description Dairyland 1% milk
	SKU 1256d
	Category Dairy
	Perishable Yes
	Current in stock quantity 22 units
	Current quantity with Upcoming expiry 20 units
	Current quantity expired 3 units

Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

Modify Product | Remove Product

Kevin's Convenience Store

Branch: My Branch Alvin

Product Details

Name 1%	Milk 1L
Description	Dairyland 1% milk
SKU	1256d
Category	Dairy
Perishable	Yes
Current in stock quantity	22 units
Current quantity with Upcoming expiry	20 units
Current quantity expired	3 units

Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

Kevin's Convenience Store

Branch: My Branch Alvin

Product Details

Name 1%	Milk 1L
Description	Dairyland 1% milk
SKU	1256d
Category	Dairy
Perishable	Yes
Current in stock quantity	22 units
Current quantity with Upcoming expiry	20 units
Current quantity expired	3 units

Confirmation

Are you sure you want to remove this product?

Name: 1% Milk 1L
 Description: Dairyland 1% milk
 SKU: 1256d
 Category: Dairy
 Perishable: Yes

Cancel **Confirm**

03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

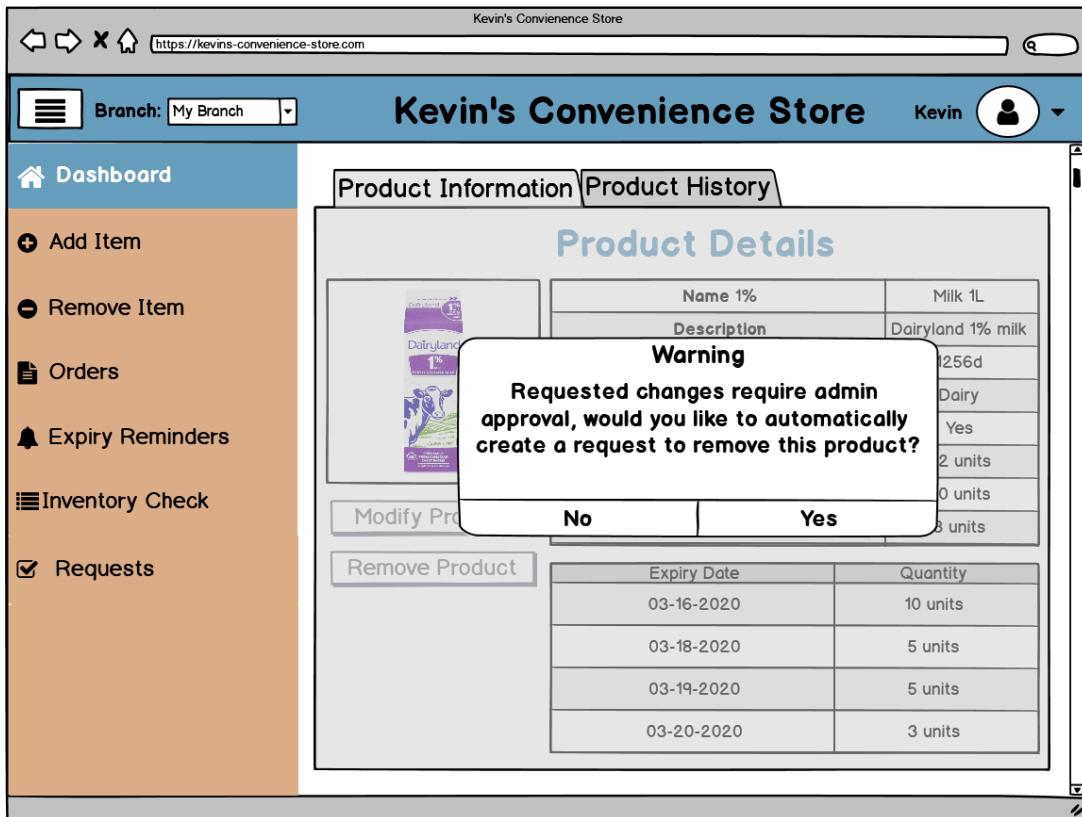
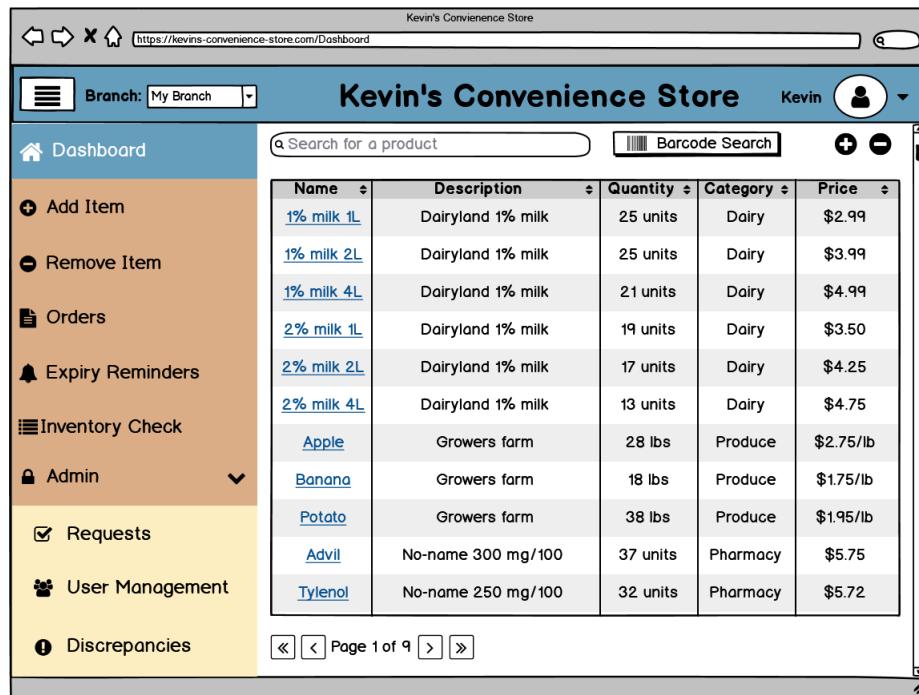


Figure 8.2.5.2 Support Staff Removing a Product

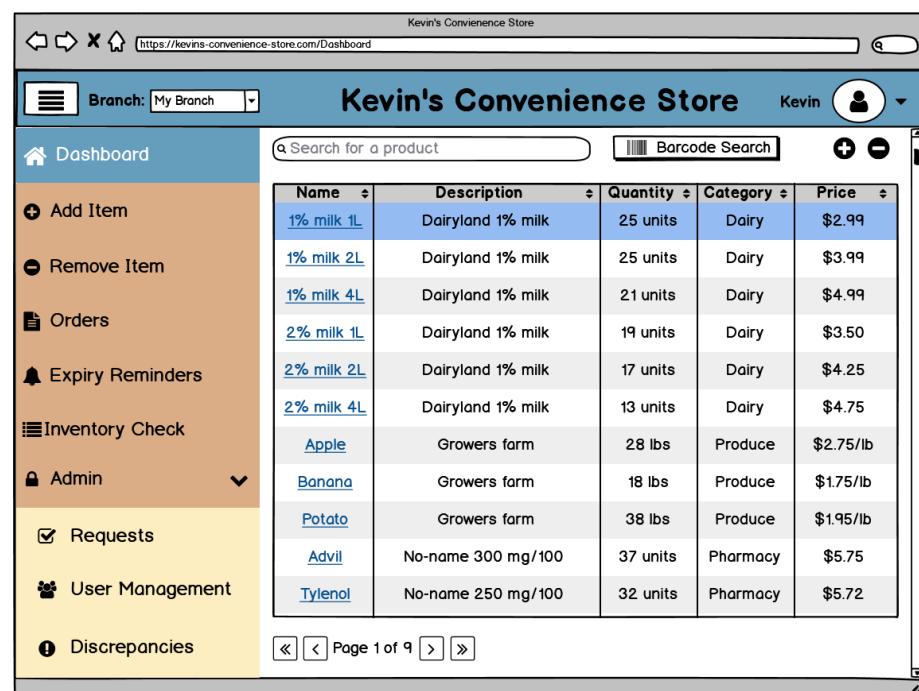
8.2.6 Modify a Product

The user navigates to the product page by selecting or searching for the product in the dashboard. The user selects “Modify Product” and is shown the product’s details. The user can then save the changes they have made to the product. If the product is being modified by support staff, they will be prompted to create a request to modify the product. The store manager must approve this request as shown in **Section 8.2.16**.



This screenshot shows the Kevin's Convenience Store dashboard. The left sidebar contains links for Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with dropdown), Requests (which is checked), User Management, and Discrepancies. The main area displays a table of products with columns for Name, Description, Quantity, Category, and Price. The first row of the table is highlighted in blue.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
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Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72



This screenshot shows the same Kevin's Convenience Store dashboard as the previous one, but with a different visual cue. The row for '1% milk 1L' is highlighted in blue, indicating it has been selected or modified. The rest of the interface is identical to the first screenshot.

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Product Details

	Name 1% Milk 1L
	Description Dairyland 1% milk
	SKU 1256d
	Category Dairy
	Perishable Yes
	Current in stock quantity 22 units
	Current quantity with Upcoming expiry 20 units
	Current quantity expired 3 units
Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Product Details

	Name 1% Milk 1L
	Description Dairyland 1% milk
	SKU 1256d
	Category Dairy
	Perishable Yes
	Current in stock quantity 22 units
	Current quantity with Upcoming expiry 20 units
	Current quantity expired 3 units
Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

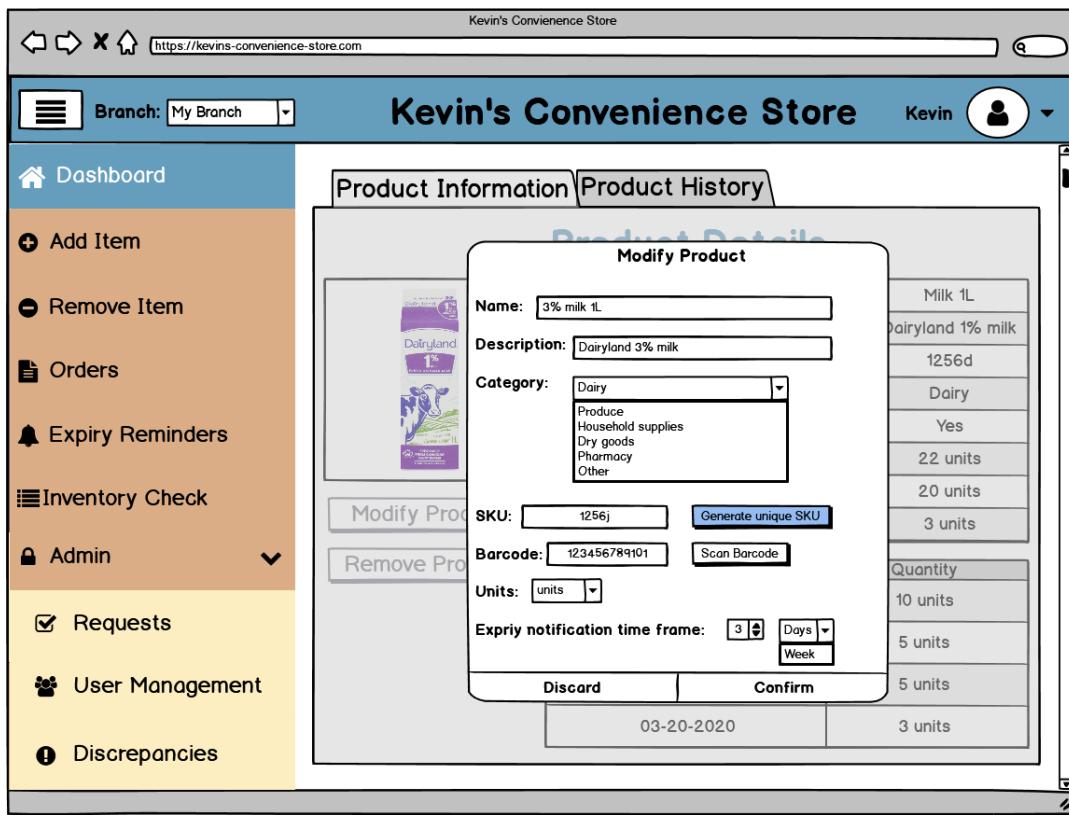


Figure 8.2.6.1 Store Manager Modifying a Product

Kevin's Convenience Store																																																														
Dashboard		<input type="text" value="Search for a product"/> <input type="button" value="Barcode Search"/> + -																																																												
<input type="checkbox"/> Add Item <input type="checkbox"/> Remove Item <input type="checkbox"/> Orders <input type="checkbox"/> Expiry Reminders <input type="checkbox"/> Inventory Check <input checked="" type="checkbox"/> Requests <input type="checkbox"/> User Management <input type="checkbox"/> Discrepancies		<table border="1"> <thead> <tr><th>Name</th><th>Description</th><th>Quantity</th><th>Category</th><th>Price</th></tr> </thead> <tbody> <tr><td>1% milk 1L</td><td>Dairyland 1% milk</td><td>25 units</td><td>Dairy</td><td>\$2.99</td></tr> <tr><td>1% milk 2L</td><td>Dairyland 1% milk</td><td>25 units</td><td>Dairy</td><td>\$3.99</td></tr> <tr><td>1% milk 4L</td><td>Dairyland 1% milk</td><td>21 units</td><td>Dairy</td><td>\$4.99</td></tr> <tr><td>2% milk 1L</td><td>Dairyland 1% milk</td><td>19 units</td><td>Dairy</td><td>\$3.50</td></tr> <tr><td>2% milk 2L</td><td>Dairyland 1% milk</td><td>17 units</td><td>Dairy</td><td>\$4.25</td></tr> <tr><td>2% milk 4L</td><td>Dairyland 1% milk</td><td>13 units</td><td>Dairy</td><td>\$4.75</td></tr> <tr><td>Apple</td><td>Growers farm</td><td>28 lbs</td><td>Produce</td><td>\$2.75/lb</td></tr> <tr><td>Banana</td><td>Growers farm</td><td>18 lbs</td><td>Produce</td><td>\$1.75/lb</td></tr> <tr><td>Potato</td><td>Growers farm</td><td>38 lbs</td><td>Produce</td><td>\$1.95/lb</td></tr> <tr><td>Advil</td><td>No-name 300 mg/100</td><td>37 units</td><td>Pharmacy</td><td>\$5.75</td></tr> <tr><td>Tylenol</td><td>No-name 250 mg/100</td><td>32 units</td><td>Pharmacy</td><td>\$5.72</td></tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="<<"/> <input type="button" value="<"/> Page 1 of 9 <input type="button" value=">"/> <input type="button" value=">>"/> </p>	Name	Description	Quantity	Category	Price	1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99	1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99	1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99	2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50	2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25	2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75	Apple	Growers farm	28 lbs	Produce	\$2.75/lb	Banana	Growers farm	18 lbs	Produce	\$1.75/lb	Potato	Growers farm	38 lbs	Produce	\$1.95/lb	Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75	Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72
Name	Description	Quantity	Category	Price																																																										
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99																																																										
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99																																																										
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99																																																										
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Kevin's Convenience Store

Branch: My Branch Alvin

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Requests

Search for a product | Barcode Search | + -

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

<< < Page 1 of 9 > >>

Kevin's Convenience Store

Branch: My Branch Alvin

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Requests

Product Information | Product History

Product Details

	Name 1%	Milk 1L
	Description	Dairyland 1% milk
	SKU	1256d
	Category	Dairy
	Perishable	Yes
	Current in stock quantity	22 units
	Current quantity with Upcoming expiry	20 units
	Current quantity expired	3 units

Expiry Date	Quantity
03-16-2020	10 units
03-18-2020	5 units
03-19-2020	5 units
03-20-2020	3 units

Modify Product | Remove Product

Kevin's Convenience Store

Branch: My Branch Alvin

Product Details

	Name 1% Milk 1L
	Description Dairyland 1% milk
	SKU 1256d
	Category Dairy
	Perishable Yes
	Current in stock quantity 22 units
	Current quantity with Upcoming expiry 20 units
	Current quantity expired 3 units
	Expiry Date Quantity
	03-16-2020 10 units
	03-18-2020 5 units
	03-19-2020 5 units
	03-20-2020 3 units

Kevin's Convenience Store

Branch: My Branch Kevin

Modify Product

Name: 3% milk 1L	Milk 1L
Description: Dairyland 3% milk	Dairyland 1% milk
Category: Dairy	1256d
Produce	Dairy
Household supplies	Yes
Dry goods	22 units
Pharmacy	20 units
Other	3 units
SKU: 1256j	Quantity
Barcode: 123456789101	10 units
Units: units	5 units
Expiry notification time frame: 3 Days Week	5 units
Discard	03-20-2020
Confirm	3 units

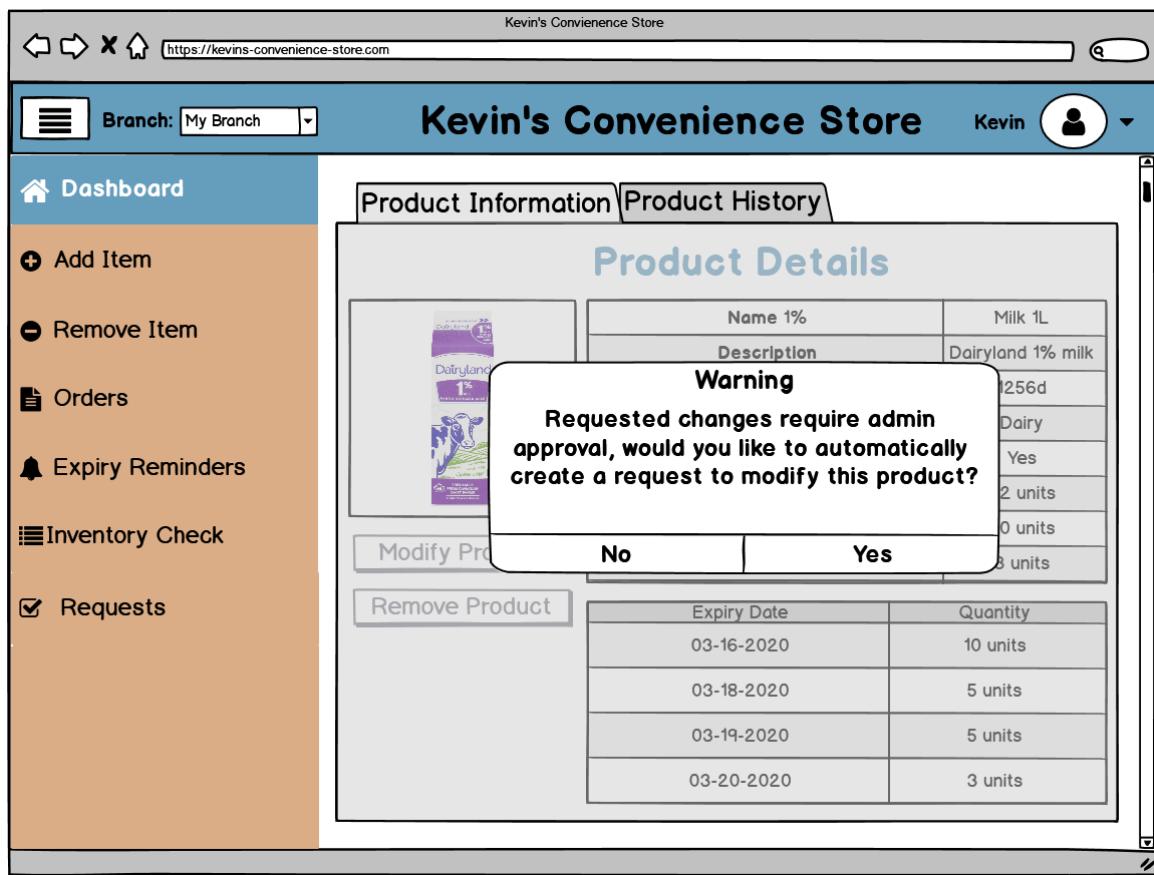
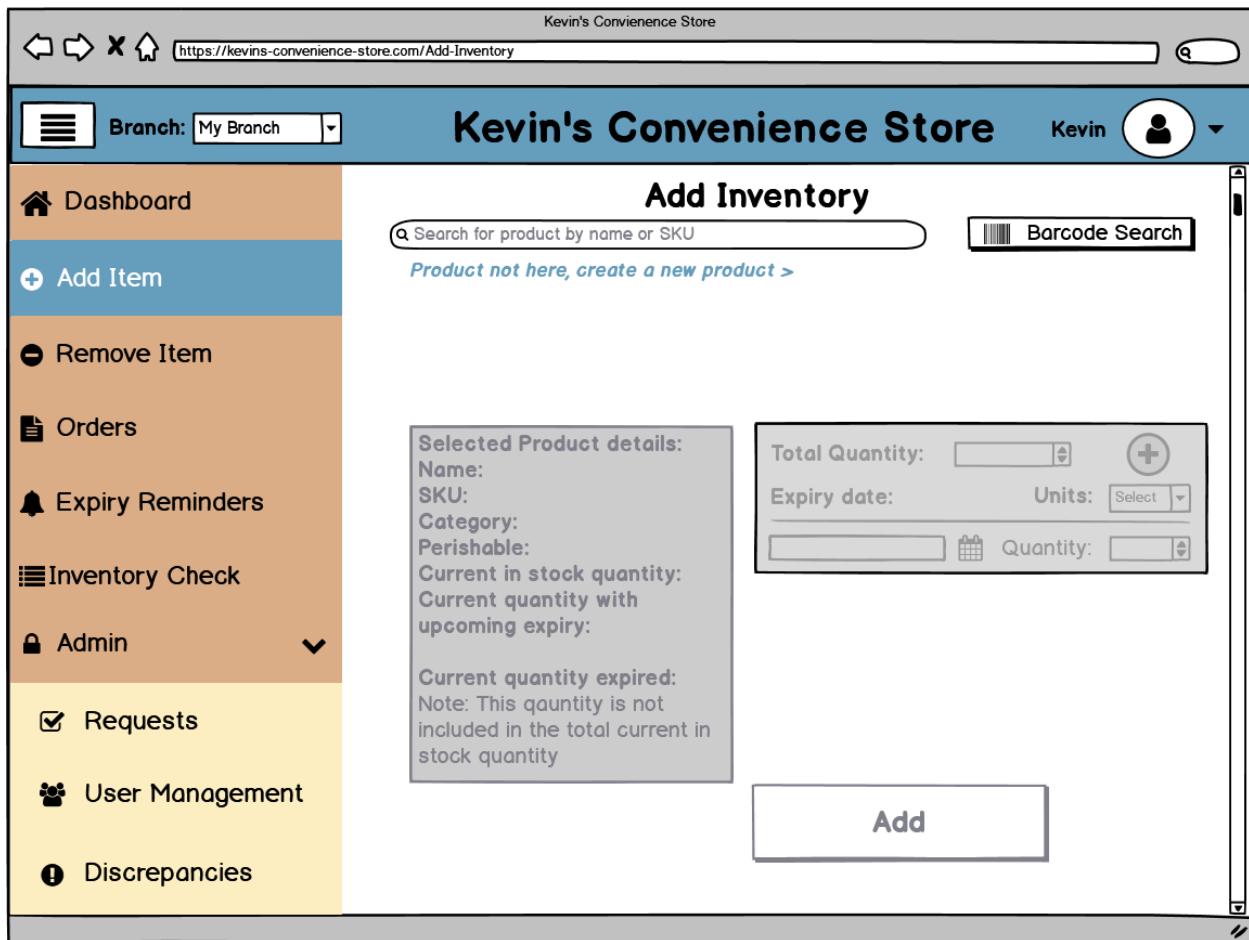


Figure 8.2.6.2 Support Staff Modifying a Product

8.2.7 Add an Item

The user selects the add item tab. The user must search for the product by name or SKU. The user may also scan the product's barcode as shown in **Section 8.2.26**. The user enters the total quantity of the items. The user may also enter quantities that have a certain expiry date. For example, if a batch has 52 items, they can be broken down by expiry date.



The screenshot shows the 'Add Inventory' page of the Kevin's Convenience Store application. The left sidebar has a 'Branch: My Branch' dropdown and links for Dashboard, Add Item (selected), Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with Requests, User Management, and Discrepancies), and Requests. The main area has a search bar, a 'Barcode Search' button, and a note about creating new products. A box displays selected product details and current stock information. An 'Add' button is at the bottom.

Kevin's Convenience Store

Kevin's Convenience Store

Kevin

Dashboard

Add Item

Remove Item

Orders

Expiry Reminders

Inventory Check

Admin

Requests

User Management

Discrepancies

Search for product by name or SKU

Barcode Search

Product not here, create a new product >

Selected Product details:

Name:
SKU:
Category:
Perishable:
Current in stock quantity:
Current quantity with upcoming expiry:

Current quantity expired:
Note: This quantity is not included in the total current in stock quantity

Total Quantity:

Expiry date: Units:

Quantity:

Add

Kevin's Convenience Store

Branch: My Branch Kevin

Add Inventory

Search for product by name or SKU

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Product not here, create a new product >

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20
Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity:

Expiry date:

Units:

Quantity:

Add

Kevin's Convenience Store

Branch: My Branch Kevin

Add Inventory

Search for product by name or SKU

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Product not here, create a new product >

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20
Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity:

Expiry date:

Units:

Quantity:

Add

Kevin's Convenience Store

https://kevins-convenience-store.com/Add-Inventory

Branch: My Branch Kevin

Kevin's Convenience Store

Add Inventory

Search for product by name or SKU

Barcode Search

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Product not here, create a new product >

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20
Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity: 52 + Expiry date: 01/01/2021 Units: units 50
Quantity: 01/03/2021 Units: units 2

Add

Figure 8.2.7 Adding an Item

8.2.8 Remove an Item

The user selects the remove item tab. The user must search for the product by name or SKU. The user may also scan the product's barcode as shown in **Section 8.2.26**. The item is filtered by the item's expiry date and the number of items with that expiry date is selected to be removed. If the items are being removed by support staff, they will be prompted to create a request to remove the product. The store manager must approve this request as shown in **Section 8.2.16**.

The screenshot shows the 'Remove Inventory' page of the Kevin's Convenience Store application. The left sidebar has a blue header 'Remove Item'. The main area has a title 'Remove Inventory' and a search bar. On the right, there are two large input boxes: one for 'Selected Product details' and another for 'Total Quantity'. A 'Remove' button is at the bottom.

Kevin's Convienence Store

https://kevins-convenienec-store.com/Remove-Inventory

Branch: My Branch

Kevin

Remove Inventory

Search for product by name or SKU to remove

Barcode Search

Selected Product details:

- Name:
- SKU:
- Category:
- Perishable:
- Current in stock quantity:
- Current quantity with upcoming expiry:

Current quantity expired:
Note: This quantity is not included in the total current in stock quantity

Total Quantity:

Expiry date:

Reason for removal:

- Expired
- Damaged

Quantity to remove:

Additional Comments:

Optional

Remove

- [Dashboard](#)
- [Add Item](#)
- [Remove Item](#)
- [Orders](#)
- [Expiry Reminders](#)
- [Inventory Check](#)
- [Admin](#)
- [Requests](#)
- [User Management](#)
- [Discrepancies](#)

Remove Inventory

Search for product by name or SKU to remove

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Selected Product details:

Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20

Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity: 3
Expiry date: 01/03/2021

Reason for removal:

Quantity to remove: **Units:**

Additional Comments:
Optional

[Dashboard](#)

[Add Item](#)

[Remove Item](#)

[Orders](#)

[Expiry Reminders](#)

[Inventory Check](#)

[Admin](#)

[Requests](#)

[User Management](#)

[Discrepancies](#)

Confirmation

Are you sure you want to remove these items?

Name: 1% Milk 1L
Category: Dairy
Perishable: Yes
Expiry date: 01/03/2021
SKU: 1256d

Reason for removal: Expired
Quantity removed: 3

Current quantity expired:
Note: This quantity is not included in the total current in stock quantity

Additional Comments:
Optional

Figure 8.2.8.1 Store Manager Removing an Item

Kevin's Convenience Store

https://kevins-convenience-store.com/Remove-Inventory

Branch: My Branch Kevin

Remove Inventory

Search for product by name or SKU to remove

Barcode Search

Selected Product details:

Name:	SKU:
Category:	Perishable:
Current in stock quantity:	Current quantity with upcoming expiry:

Current quantity expired:
Note: This quantity is not included in the total current in stock quantity

Total Quantity:

Expiry date:

Reason for removal:

Quantity to remove: Units:

Additional Comments:
Optional

Remove

Kevin's Convenience Store

https://kevins-convenience-store.com/Remove-Inventory

Branch: My Branch Kevin

Remove Inventory

Search for product by name or SKU to remove

Barcode Search

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Selected Product details:

Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20

Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity: 3

Expiry date: 01/03/2021

Reason for removal:

Quantity to remove: Units:

Additional Comments:
Optional

Remove

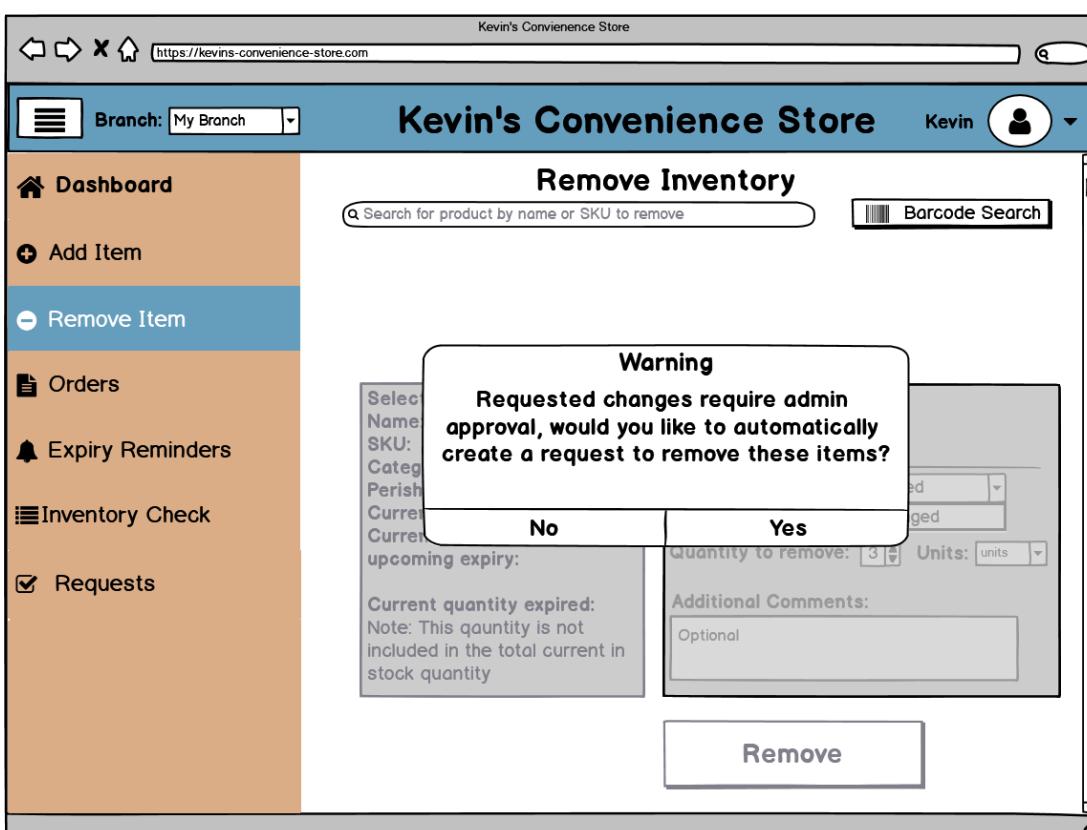
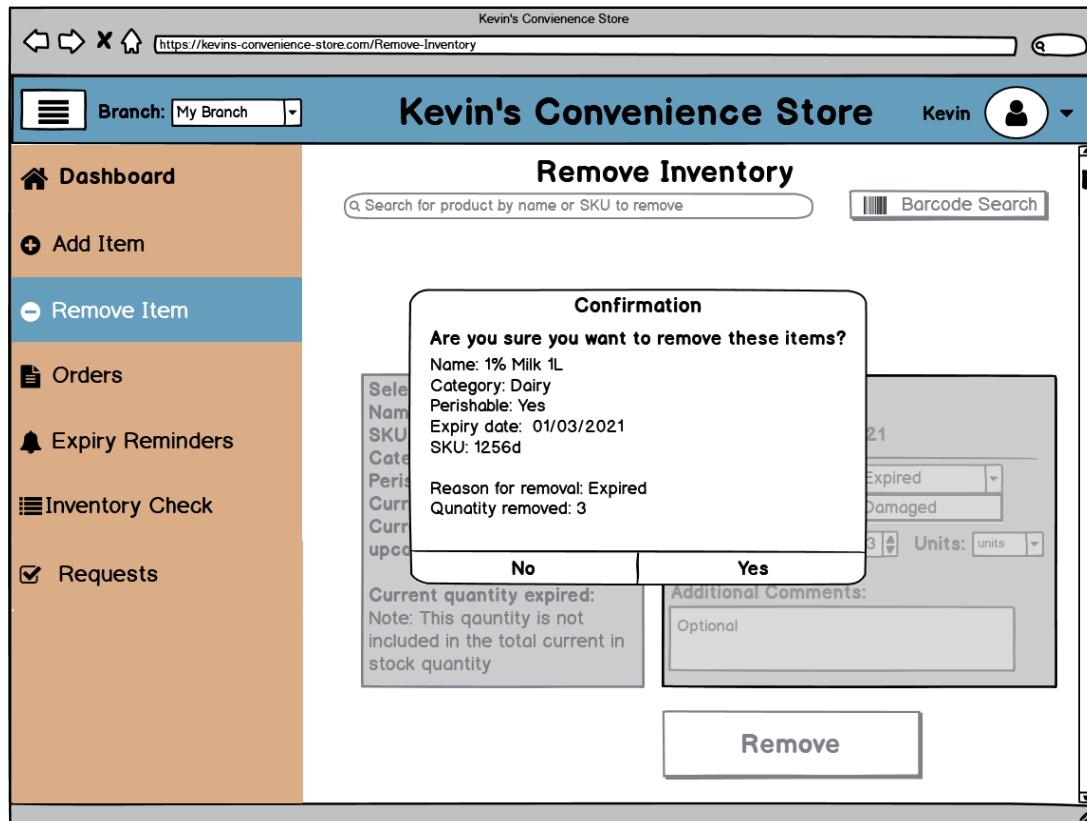


Figure 8.2.8.2 Support Staff Removing an Item

8.2.9 Draft an Order

Only a store manager can draft an order. The store manager selects the “Orders” tab. The store manager then selects “Draft new order”. They then search for the product they wish to add to the order. The manager then enters the quantity of the product they wish to order. The price is grabbed from the system, if it is incorrect the user may modify it. Once the user has entered all the items, they wish to order they select “Draft Order”. The order is then added as an order in the table with a drafted status. The ordering manager must ensure the order adheres to the distributors ordering restrictions as the distributor details are external to the system.

The screenshot shows the Kevin's Convenience Store software interface. The top navigation bar includes a back button, forward button, close button, and a search bar with the URL <https://kevins-convenience-store.com>. The main header is "Kevin's Convenience Store" with a user profile icon for "Kevin". The left sidebar menu has the following items: Dashboard, Add Item, Remove Item, Orders (which is selected and highlighted in blue), Expiry Reminders, Inventory Check, Admin, Requests (with a checked checkbox), User Management, and Discrepancies. The central content area is titled "Order History" and features a search bar with placeholder text "Search by item, date, or cost". Below the search bar are four buttons: "Draft New Order" (highlighted in blue), "Print", "Delete", and "+ Intake Order". A table titled "Order Summary" lists four orders with columns for Order ID, Date, Cost (\$), Status, and Select. The table rows are: OS0000134223.pdf (Date: 03/08/20, Cost: 210.00, Status: Drafted), OS0000391248.pdf (Date: 02/24/20, Cost: 360.00, Status: Ordered), OS0000132445.pdf (Date: 02/01/20, Cost: 198.05, Status: Ordered), and OS0000134223.pdf (Date: 01/19/20, Cost: 500.00, Status: Arrived). Each row has a "Select" checkbox.

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch Kevin

Order History

Search by item, date, or cost

Draft New Order + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323				

Draft New Order

Distributor's address: [Text Input]

Enter product name or scan barcode: [Text Input] Quantity: [Spin Box] Units: [Select Box] Price per unit: [Text Input]

Add more products: [Plus Icon]

Estimated date of arrival: [Text Input] / [Calendar Icon]

PDF Name: [Text Input]

Subtotal: 0.00 GST: 0.00 Total: 0.00

Draft Order Cancel

Order History

Search by item, date, or cost

Draft New Order + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323				

Draft New Order

Distributor's address: [Text Input]

Enter product name or scan barcode: 1% milk 1L Quantity: 50 Units: units Price per unit: \$2.99

Enter product name or scan barcode: 2% milk 1L Quantity: 50 Units: units Price per unit: \$3.50

Add more products: [Plus Icon]

Estimated date of arrival: 03/30/20 / [Calendar Icon]

PDF Name: OS0000134323

Subtotal: \$324.50 GST: \$38.94 Total: \$363.44

Draft Order Cancel

Figure 8.2.9 Draft an Order

8.2.10 Intake an Order

Both store managers and support staff can Intake orders. The support staff process is shown below due to the different layout of the support staff orders page. The user selects the “Orders” tab. The store manager then selects “Intake Order”. Each item in the order is added one by one through an add item page. This adding process is done by cycling add item pages once the previous item has been intaken. Once all the items are intaken, the order then changes to the status of “Arrived”.

The screenshot shows the Kevin's Convenience Store Order History page. The left sidebar has a 'Branch' dropdown set to 'My Branch'. The 'Orders' tab is selected. The main area displays an 'Order History' table with the following data:

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch

Order History

Search by item, date, or cost

+ Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input checked="" type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch

Add Inventory

Search for product by name or SKU

Barcode Search

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Product not here, create a new product >

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20

Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity:
Expiry date: Units:
Quantity:

Add

Kevin's Convienence Store

<https://kevins-convenience-store.com/Add-Inventory>

Branch: My Branch Kevin

Kevin's Convenience Store

Add Inventory

Search for product by name or SKU

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Product not here, create a new product >

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20

Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity:
Expiry date: Units:
 Quantity:
 Quantity:

Add

Figure 8.2.10 Intaking an Order

8.2.11 Modifying an Order

Only the store manager can modify an order, they go to the “Orders” tab. The user then selects the order and selects modify. The user then changes the details of the order they wish to update, change or remove. The changes are then saved. The order remains in the table with the same status as before it was modified.

The screenshot shows the Kevin's Convenience Store website interface. The left sidebar has a blue header "Kevin's Convenience Store" and a "Branch: My Branch" dropdown. The main content area has a blue header "Kevin's Convenience Store" with a user profile icon. The left sidebar menu includes: Dashboard, Add Item, Remove Item, Orders (which is selected and highlighted in blue), Expiry Reminders, Inventory Check, Admin (with a dropdown arrow), Requests, User Management, and Discrepancies. The main content area is titled "Order History" and features a search bar "Search by item, date, or cost". Below the search bar are buttons for "Draft New Order", "Print", "Delete", and "+ Intake Order". A table titled "Order Summary" lists five orders:

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch Kevin

Order History

Search by item, date, or cost

Draft New Order + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input checked="" type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch Kevin

Order History

Search by item, date, or cost

Draft New Order + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	
OS0000134223.pdf	03/08/20	210.00	Drafted	
OS0000391248.pdf	02/24/20	360.00	Ordered	
OS0000132445.pdf	02/01/20	198.05	Ordered	
OS0000134223.pdf	01/19/20	500.00	Arrived	

Modify Order

Distributor's address:

Enter product name or scan barcode:

1% milk 1L Quantity: 50 Units: units Price per unit: \$2.99

Enter product name or scan barcode:

2% milk 1L Quantity: 50 Units: units Price per unit: \$3.50

Add more products

Estimated date of arrival: 03/30/20

PDF Name: OS0000134323

Subtotal: \$324.50 GST: \$38.94 Total: \$363.44

Modify Order Cancel

Figure 8.2.11 Modifying an Order

8.2.12 Delete an Order

Only the store manager can delete an order, they go to the “Orders” tab. The store manager then selects the order and selects remove. The user then confirms the order’s removal. The order has then been removed.

The screenshot shows the Kevin's Convenience Store web application interface. The left sidebar has a light orange background with the following menu items:

- Dashboard
- + Add Item
- Remove Item
- Orders** (highlighted in blue)
- Expiry Reminders
- Inventory Check
- Admin (with a dropdown arrow)
- Requests
- User Management
- Discrepancies

The main content area has a blue header bar with the store name "Kevin's Convenience Store" and a user profile icon for "Kevin". Below the header is a search bar labeled "Search by item, date, or cost". Underneath the search bar are four buttons: "Draft New Order", a print icon, a trash bin icon, and "+ Intake Order". The main section is titled "Order History" and displays a table of order summaries. The table has columns for Order Summary, Date (mm-dd-yy), Cost (\$), Status, and Select. There are five rows of data:

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch Kevin

Order History

Search by item, date, or cost

Draft New Order | + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input checked="" type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch Kevin

Order History

Search by item, date, or cost

Draft New Order | + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf				<input type="checkbox"/>
OS0000132445.pdf				<input type="checkbox"/>
OS0000134223.pdf				<input type="checkbox"/>

Confirmation

Are you sure you want to remove this order?

Order Summary: OS0000134323.pdf
Expected Arrival Date: March 30, 2020
Cost: \$363.44
Status: Drafted

Cancel **Remove**

Kevin's Convienence Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Kevin's Convenience Store

Order History

Search by item, date, or cost

Draft New Order + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Dashboard Add Item Remove Item Orders Expiry Reminders Inventory Check Admin Requests User Management Discrepancies

The screenshot shows the 'Order History' section of the Kevin's Convenience Store application. It displays a table with four rows of order data. Each row contains a link to a PDF file representing the order details. The columns are labeled: 'Order Summary', 'Date (mm-dd-yy)', 'Cost (\$)', 'Status', and 'Select'. The 'Select' column contains an empty checkbox for each row. The 'Status' column shows the current status of each order: Drafted, Ordered, Ordered, and Arrived respectively. The 'Date' column shows the order date: 03/08/20, 02/24/20, 02/01/20, and 01/19/20.

Figure 8.2.12 Deleting an Order

8.2.13 Print an Order

The store manager selects the “Orders” tab. They then select the order and select print. The store manager then received a pop-up print dialog and may print the item to their selected printer.

The screenshot shows the Kevin's Convenience Store software interface. The left sidebar has a blue header "Branch: My Branch" and a list of options: Dashboard, Add Item, Remove Item, Orders (which is selected and highlighted in blue), Expiry Reminders, Inventory Check, Admin (with a dropdown arrow), Requests, User Management, and Discrepancies. The main area has a title "Kevin's Convenience Store" and a sub-title "Order History". It features a search bar "Search by item, date, or cost", buttons for "Draft New Order", "Print" (with a paper icon), "Delete" (with a trash bin icon), and "+ Intake Order". Below is a table titled "Order Summary" with columns: Order Summary, Date (mm-dd-yy), Cost (\$), Status, and Select. The table lists five orders:

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134323.pdf	03/30/20	363.44	Drafted	<input type="checkbox"/>
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch

Order History

Search by item, date, or cost

Draft New Order | + Intake Order

Order Summary	Date (mm-dd-yy)	Cost (\$)	Status	Select
OS0000134223.pdf	03/08/20	210.00	Drafted	<input type="checkbox"/>
OS0000391248.pdf	02/24/20	360.00	Ordered	<input checked="" type="checkbox"/>
OS0000132445.pdf	02/01/20	198.05	Ordered	<input type="checkbox"/>
OS0000134223.pdf	01/19/20	500.00	Arrived	<input type="checkbox"/>

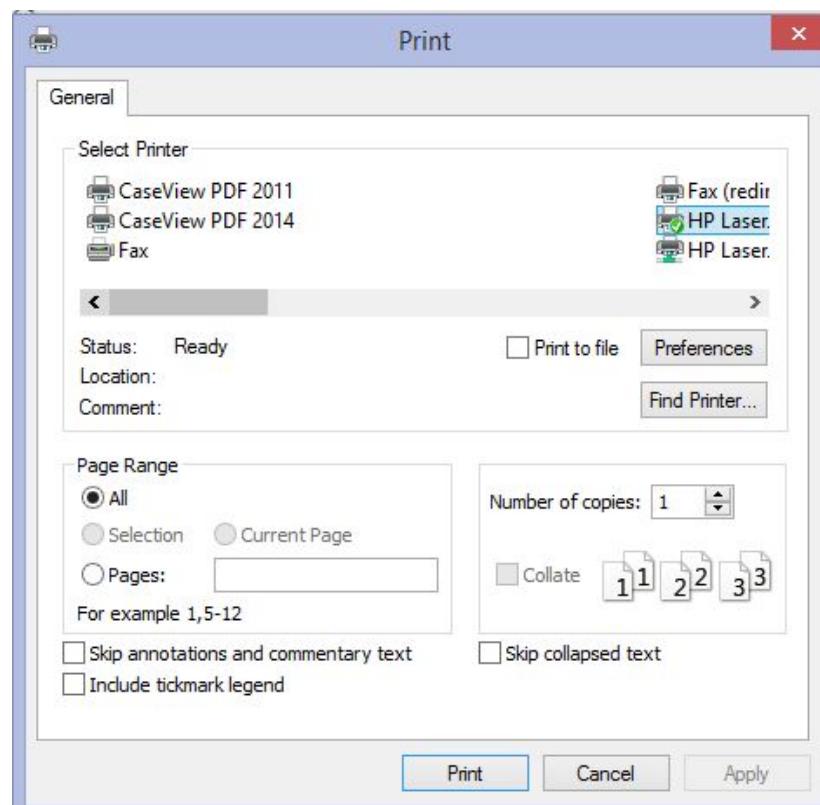


Figure 8.2.13 Printing an Order

8.2.14 Dismiss an Upcoming Expiry Notification

The user selects the “Expiry” tab. The user then selects the upcoming expiry notification they wish to dismiss and selects dismiss.

The screenshot shows the Kevin's Convenience Store application interface. On the left is a vertical sidebar with the following menu items:

- Dashboard
- Add Item
- Remove Item
- Orders
- Expiry Reminders** (highlighted in blue)
- Inventory Check
- Admin
- Requests
- User Management
- Discrepancies

The main content area has a title "Expiry" and two tabs: "Upcoming Expiry" (selected) and "Expired". Below the tabs is a search bar: "Search by item, date, or quantity". A table lists the following items:

Item	Quantity	Expiry Date	Days until expiry	Dismiss
3.25 % milk 4L	13 units	03-12-2020	3 days	
3.25 % milk 4L	4 units	03-11-2020	2 days	
1 % Milk 1L	8 units	03-12-2020	3 days	
1 % Milk 1L	5 units	03-11-2020	2 days	

Kevin's Convenience Store

Branch: My Branch Kevin

Expiry

Upcoming Expiry Expired

Item	Quantity	Expiry Date	Days until expiry	Dismiss
3.25 % milk 4L	13 units	03-12-2020	3 days	
3.25 % milk 4L	4 units	03-11-2020	2 days	
1 % Milk 1L	8 units	03-12-2020	3 days	
1 % Milk 1L	5 units	03-11-2020	2 days	

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders**
- Inventory Check
- Admin
- Requests
- User Management
- Discrepancies

Kevin's Convenience Store

Branch: My Branch Kevin

Expiry

Upcoming Expiry Expired

Item	Quantity	Expiry Date	Days until expiry	Dismiss
3.25 % milk 4L	4 units	03-11-2020	2 days	
1 % Milk 1L	8 units	03-12-2020	3 days	
1 % Milk 1L	5 units	03-11-2020	2 days	

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders**
- Inventory Check
- Admin
- Requests
- User Management
- Discrepancies

Figure 8.2.14 Dismissing an Expiry Notification

8.2.15 Remove an Expired Item

The user selects the “Expiry” tab and navigates to the “Expired Items” in the tabs. The user then selects the expired item they wish to remove and selects “Remove Item”. The user is requested to confirm they removed the product and change the quantity if necessary. If the items are being removed by support staff, they will be prompted to create a request to modify the product. The store manager must approve this request as shown in **Section 8.2.16**. The remove item button is used to ensure the user is aware of what action will occur when pressed. The remove button, trash button, and the minus button are all used in unique ways. The difference in the buttons allows the user to use recognition rather than recall understanding the context in which the buttons is used.

The screenshot shows the Kevin's Convenience Store software interface. The top navigation bar includes a back/forward button, a search bar with the URL <https://kevins-convenience-store.com>, and a user profile for Kevin. The main menu on the left has sections like Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with Requests, User Management, and Discrepancies), and a Branch dropdown set to My Branch. The central area is titled "Expiry" with tabs for "Upcoming Expiry" and "Expired". A search bar is present. Below is a table listing expired items:

Item	Quantity	Expiry Date	Time Since Expiry	Remove Item
1 % Milk 1L	25 units	03-08-2020	4 day(s)	Remove Item
1 % Milk 1L	8 units	03-10-2020	2 days	Remove Item
1 % Milk 1L	5 units	03-11-2020	1 days	Remove Item
3.25 % milk 4L	4 units	03-11-2020	1 days	Remove Item

Kevin's Convenience Store

Branch: My Branch Kevin

Expiry

Upcoming Expiry Expired

Item	Quantity	Expiry Date	Time Since Expiry	Remove Item
1 % Milk 1L	25 units	03-08-2020	4 day(s)	<button>Remove Item</button>
1 % Milk 1L	8 units	03-10-2020	2 days	<button>Remove Item</button>
1 % Milk 1L	5 units	03-11-2020	1 days	<button>Remove Item</button>
3.25 % milk 4L	4 units	03-11-2020	1 days	<button>Remove Item</button>

Dashboard

- [+ Add Item](#)
- [- Remove Item](#)
- [Orders](#)
- [Expiry Reminders](#)
- [Inventory Check](#)
- [Admin](#)
- [Requests](#)
- [User Management](#)
- [Discrepancies](#)

Kevin's Convenience Store

Branch: My Branch Kevin

Remove Inventory

Barcode Search

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20
Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity: 3
Expiry date: 01/03/2021

Reason for removal:

Quantity to remove: **Units:**

Additional Comments:

Remove

Dashboard

- [+ Add Item](#)
- [- Remove Item](#)
- [Orders](#)
- [Expiry Reminders](#)
- [Inventory Check](#)
- [Admin](#)
- [Requests](#)
- [User Management](#)
- [Discrepancies](#)

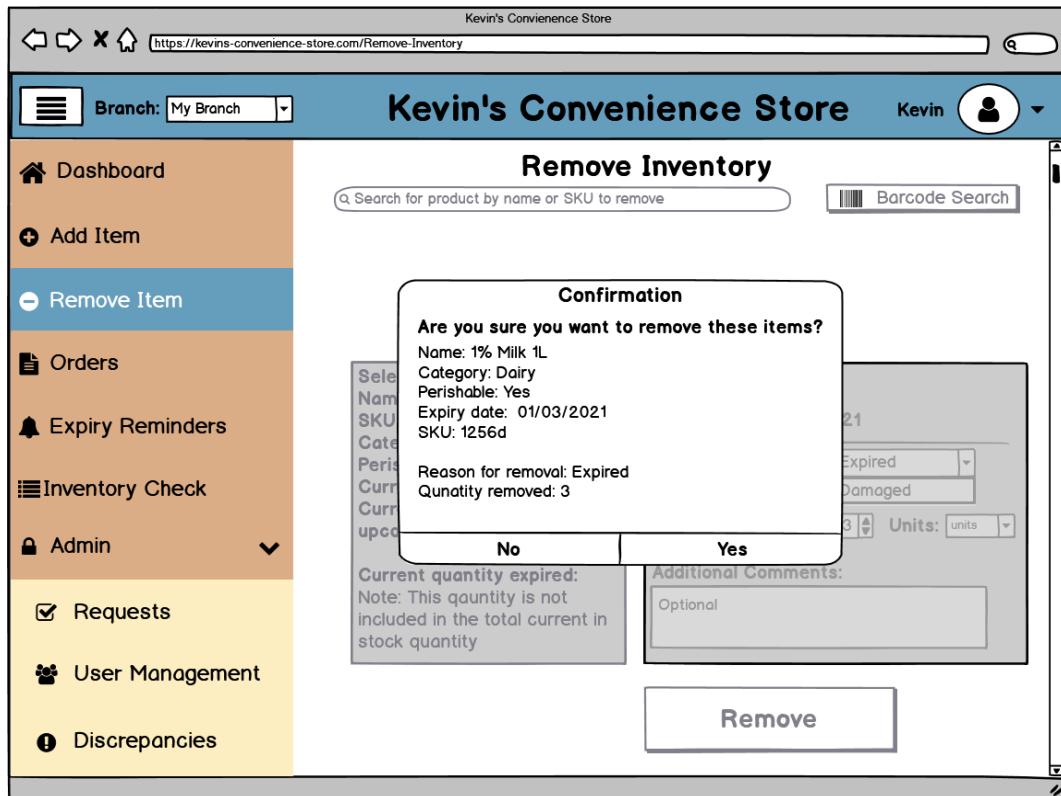
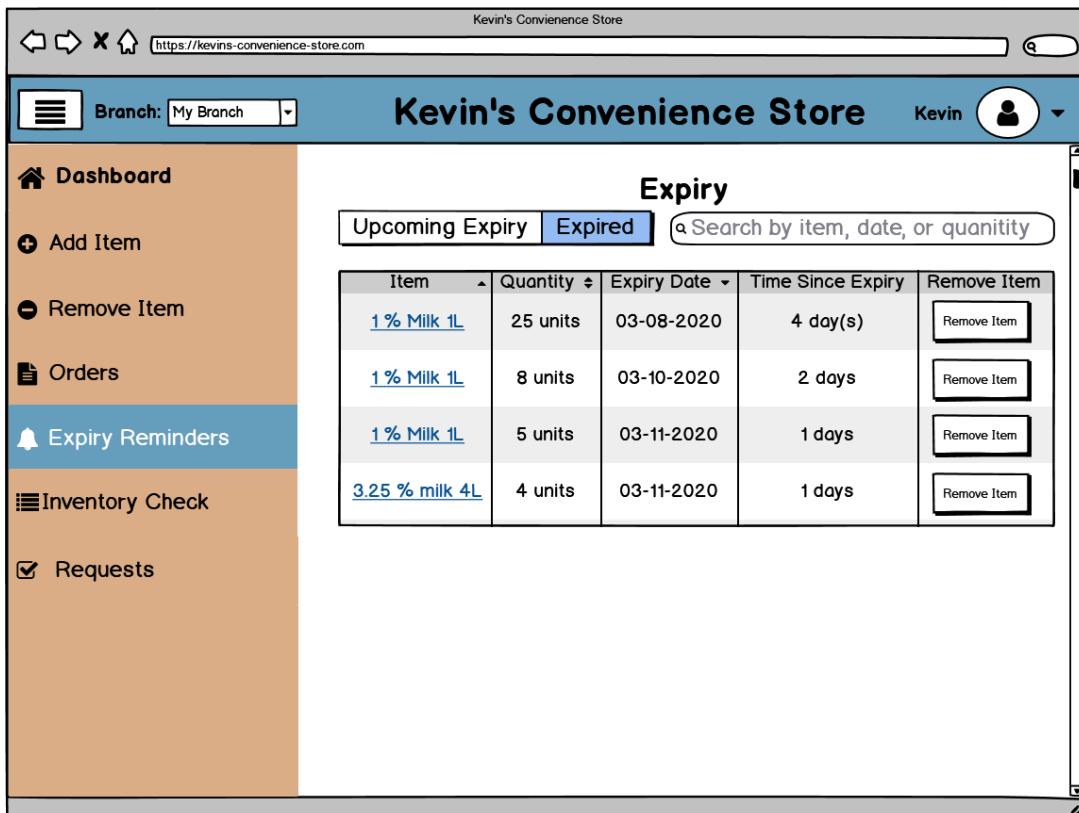


Figure 8.2.15.1 Store Manager Removing an Expired Item



Kevin's Convenience Store

Branch: My Branch Kevin

Expiry

Upcoming Expiry Expired

Item	Quantity	Expiry Date	Time Since Expiry	Remove Item
1% Milk 1L	25 units	03-08-2020	4 day(s)	<button>Remove Item</button>
1% Milk 1L	8 units	03-10-2020	2 days	<button>Remove Item</button>
1% Milk 1L	5 units	03-11-2020	1 days	<button>Remove Item</button>
3.25 % milk 4L	4 units	03-11-2020	1 days	<button>Remove Item</button>

Kevin's Convenience Store

Branch: My Branch Kevin

Remove Inventory

Barcode Search

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Selected Product details:
Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20

Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity: 3
Expiry date: 01/03/2021

Reason for removal:

Quantity to remove: **Units:**

Additional Comments:

Remove

The image displays two screenshots of the Kevin's Convenience Store software interface, specifically the 'Remove Inventory' feature.

Screenshot 1: Confirmation Dialog

This screenshot shows a confirmation dialog box asking, "Are you sure you want to remove these items?". The details listed are:

- Name: 1% Milk 1L
- Category: Dairy
- Perishable: Yes
- Expiry date: 01/03/2021
- SKU: 1256d
- Reason for removal: Expired
- Quantity removed: 3

Below the dialog, there are "No" and "Yes" buttons. To the right, there is a sidebar with fields for "Quantity" (set to 21), "Reason" (set to "Expired"), and "Additional Comments" (set to "Optional").

Screenshot 2: Warning Dialog

This screenshot shows a warning dialog box stating: "Requested changes require admin approval, would you like to automatically create a request to remove these items?". The details listed are identical to Screenshot 1.

Below the dialog, there are "No" and "Yes" buttons. To the right, there is a sidebar with fields for "Quantity to remove" (set to 3), "Units" (set to "units"), and "Additional Comments" (set to "Optional").

In both screenshots, the left sidebar shows navigation options: Dashboard, Add Item, Remove Item (selected), Orders, Expiry Reminders, Inventory Check, and Requests. The top bar shows the branch as "My Branch" and the user as "Kevin".

Figure 8.2.15.2 Support Staff Removing an Expired Items

8.2.16 Approve a Request

Only a store manager may approve a request. The store manager selects the “Requests” tab and finds a pending request. The store manager selects the requests and sees the requests information. The store manager then selects approve and the request’s state is changed to approved. Once a request has been approved or declined its state may be changed again by a store manager. A pending request can be found through either the “All Request” tab or the “Pending Requests” tab.

The screenshot shows the Kevin's Convenience Store software interface. The top navigation bar includes a back button, forward button, close button, and a search bar with the URL <https://kevins-convenience-store.com>. The title bar says "Kevin's Convenience Store". On the right, there is a user profile for "Kevin" and a dropdown menu. The left sidebar, titled "Dashboard", contains links for "Add Item", "Remove Item", "Orders", "Expiry Reminders" (which is highlighted in blue), "Inventory Check", "Admin" (with a dropdown arrow), "Requests" (which is checked with a checked checkbox icon), "User Management", and "Discrepancies". The main content area is titled "Requests" and shows a table with the following data:

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
006	Michelle Liu	03-12-2020	Declined
007	Michelle Liu	03-16-2020	Approved
008	Luke Hobbs	03-18-2020	Pending

Below the table, there are navigation buttons: <<, <, Page 1 of 1, >, >>.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	03-18-2020	Pending

« < Page 1 of 1 > »

This screenshot shows the 'Requests' section of the Kevin's Convenience Store application. The sidebar on the left has 'Requests' selected. The main area displays a single pending request with details: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. Navigation links for All Requests, Approved Requests, Declined Requests, and Pending Requests are at the top of the main content area.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	03-18-2020	Pending

« < Page 1 of 1 > »

This screenshot is identical to the one above, showing the 'Requests' section of the Kevin's Convenience Store application. It displays a single pending request with the same details: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. The navigation links at the top are also identical.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	2020-03-18	Pending

Request

Type: Removal

Name: 1% Milk 1L
Category: Dairy
Perishable: Yes
Expiry date: 03-18-2020
SKU: 1256d
Reason for removal: Expired
Quantity removed: 3 units
Comments: None

Requesting Employee: Luke Hobbs
Requesting Date: 03-18-2020
Status: Pending

Action Buttons: Decline | Approve

Page 1 of 1

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	2020-03-01	Approved
002	Luke Hobbs	2020-03-03	Approved
003	Mathew Crab	2020-03-05	Approved
004	Michelle Liu	2020-03-06	Approved
005	Luke Hobbs	2020-03-07	Approved
006	Michelle Liu	2020-03-12	Declined
007	Michelle Liu	2020-03-16	Approved
008	Luke Hobbs	2020-03-18	Approved

Page 1 of 1

Figure 8.2.16 Approving a Request

8.2.17 Decline a Request

Only a store manager may approve a request. The store manager selects the “Requests” tab and finds a pending request. The store manager selects the requests and sees the requests information. The store manager then selects decline and the request’s state is changed to declined. Once a request has been approved or declined its state may be changed again by a store manager. A pending request can be found through either the “All Request” tab or the “Pending Requests” tab.

The screenshot shows the Kevin's Convenience Store software interface. The top navigation bar includes a back button, forward button, close button, and a search bar with the URL <https://kevins-convenience-store.com>. The title bar says "Kevin's Convenience Store" and shows the user "Kevin". The left sidebar has a "Dashboard" section with icons for Add Item, Remove Item, Orders, Expiry Reminders (which is highlighted in blue), Inventory Check, Admin (with a dropdown arrow), Requests (which is checked), User Management, and Discrepancies. The main content area is titled "Requests" and shows a table of pending requests. The table has columns: Request Number, Requesting Employee, Date Requested, and State. The rows are:

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
006	Michelle Liu	03-12-2020	Declined
007	Michelle Liu	03-16-2020	Approved
008	Luke Hobbs	03-18-2020	Pending

At the bottom of the table, there are navigation buttons: <<, <, Page 1 of 1, >, >>.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	03-18-2020	Pending

« < Page 1 of 1 > »

This screenshot shows the 'Requests' section of the Kevin's Convenience Store application. The sidebar on the left has 'Requests' selected. The main area displays a single pending request with details: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. Navigation links for All Requests, Approved Requests, Declined Requests, and Pending Requests are at the top of the main content area.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	03-18-2020	Pending

« < Page 1 of 1 > »

This screenshot is identical to the one above, showing the 'Requests' section of the Kevin's Convenience Store application. It displays one pending request with the same details: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. The navigation links at the top are also identical.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Request	2020	Pending

Type: Removal

Name: 1% Milk 1L
Category: Dairy
Perishable: Yes
Expiry date: 03-18-2020
SKU: 1256d
Reason for removal: Expired
Quantity removed: 3 units
Comments: None

Requesting Employee: Luke Hobbs
Requesting Date: 03-18-2020
Status: Pending

Decline Approve

Page 1 of 1

This screenshot shows the 'Requests' section of the Kevin's Convenience Store application. On the left, a sidebar menu includes options like 'Dashboard', 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', 'Admin' (with a dropdown), 'Requests' (which is selected and highlighted in blue), 'User Management', and 'Discrepancies'. The main content area is titled 'Requests' and displays a table of pending requests. A single row is selected, showing details for a removal request: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. The request type is 'Removal' for item '1% Milk 1L'. The reason for removal is listed as 'Expired'. At the bottom of the request card are 'Decline' and 'Approve' buttons.

Kevin's Convenience Store

Branch: My Branch Kevin

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
008	Luke Hobbs	03-18-2020	Pending

Request Denied

Reason:
Additional comments

Cancel Confirm

Page 1 of 1

This screenshot shows the 'Requests' section of the Kevin's Convenience Store application after a denial. The main content area is titled 'Requests' and displays a table of pending requests. A single row is selected, showing details for a request: Request Number 008, Requesting Employee Luke Hobbs, Date Requested 03-18-2020, and State Pending. The request type is 'Request' for item 'Luke Hobbs'. The reason for denial is listed as 'Additional comments'. A confirmation dialog box is overlaid on the page, containing the text 'Request Denied' and 'Reason: Additional comments' with a 'Cancel' and 'Confirm' button. At the bottom of the request card are 'Decline' and 'Approve' buttons.

Kevin's Convienence Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Kevin's Convenience Store

Requests

All Requests Approved Requests Declined Requests Pending Requests

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
006	Michelle Liu	03-12-2020	Declined
007	Michelle Liu	03-16-2020	Approved
008	Luke Hobbs	03-18-2020	Declined

Page 1 of 1

Dashboard Add Item Remove Item Orders Expiry Reminders Inventory Check Admin Requests User Management Discrepancies

Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
006	Michelle Liu	03-12-2020	Declined
007	Michelle Liu	03-16-2020	Approved
008	Luke Hobbs	03-18-2020	Declined

Figure 8.2.17 Declining a Request

8.2.18 Complete an Inventory Check

The user selects the “Inventory Check” tab and selects “Complete Inventory Check”. The inventory table is shown without quantities. The user then enters all or some of the products item quantity. They then select “Complete”. If the completed inventory checks result in discrepancies the store manager is notified. Otherwise, the inventory check can be found in the inventory check history

The screenshot shows the Kevin's Convenience Store application interface. The left sidebar has a blue header "Inventory Check" and contains the following items:

- Dashboard
- Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check** (highlighted in blue)
- Help

The main content area has a blue header "Kevin's Convenience Store" and a sub-header "Inventory Check History". It features a table with the following data:

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

At the top right of the main content area, there are buttons for "Complete Inventory Check", "Print", "Delete", and "Edit". The top navigation bar shows the URL "https://kevins-convenience-store.com" and the user "Alvin".

Kevin's Convenience Store

Branch: My Branch

Inventory Check History

+ Complete Inventory Check

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Kevin's Convenience Store

Branch: My Branch

Search for a product Select Category: Categories

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.75
Apple	Growers farm	<input type="text"/> lbs	Produce	\$2.75/LB
Banana	Growers farm	<input type="text"/> lbs	Produce	\$1.75/LB
Potato	Growers farm	<input type="text"/> lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="text"/> units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="text"/> units	Pharmacy	\$5.72

« « Page 1 of 9 » » PDF Name:

Kevin's Convenience Store

Branch: My Branch

Search for a product | Barcode Search | Select Category: Categories

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="button" value="up"/> 23 <input type="button" value="down"/> units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$4.75
Apple	Growers farm	<input type="button" value="up"/> 32 <input type="button" value="down"/> lbs	Produce	\$2.75/LB
Banana	Growers farm	<input type="button" value="up"/> <input type="button" value="down"/> lbs	Produce	\$1.75/LB
Potato	Growers farm	<input type="button" value="up"/> 2.2 <input type="button" value="down"/> lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="button" value="up"/> 12 <input type="button" value="down"/> units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="button" value="up"/> 5 <input type="button" value="down"/> units	Pharmacy	\$5.72

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PDF Name: IC0224201.pdf

Kevin's Convenience Store

Branch: My Branch

Search for a product | Barcode Search | Select Category: Categories

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="button" value="up"/> units	Dairy	\$4.99
2% milk 1L	Dairyland 1%	<input type="button" value="up"/> units	Dairy	\$3.50
2% milk 2L	Dairyland 1%	<input type="button" value="up"/> units	Dairy	\$4.25
2% milk 4L	Dairyland 1%	<input type="button" value="up"/> units	Dairy	\$4.75
Apple	Growers farm	<input type="button" value="up"/> <input type="button" value="down"/> lbs	Produce	\$2.75/LB
Banana	Growers farm	<input type="button" value="up"/> <input type="button" value="down"/> lbs	Produce	\$1.75/LB
Potato	Growers farm	<input type="button" value="up"/> 2.2 <input type="button" value="down"/> lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="button" value="up"/> 12 <input type="button" value="down"/> units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="button" value="up"/> 5 <input type="button" value="down"/> units	Pharmacy	\$5.72

« < Page 1 of 9 > » | | |

PDF Name: IC0224201.pdf

Confirm

Are you sure you want to complete the inventory check?

No	Yes
-----------	------------

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch

Kevin's Convenience Store

Alvin

Inventory Check History

+ Complete Inventory Check   

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>
IC0301201.pdf	03/01/20	Completed	Alvin	<input type="checkbox"/>

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders

Inventory Check

Requests

Figure 8.2.18 Completing an Inventory Check

8.2.19 Modify an Inventory Check

The user selects the “Inventory Check” tab and selects the inventory check-in their inventory check history table. They then select and modify. The inventory table is shown with the quantities entered previously. The user then modifies the inventory check. They then select “Confirm”. If the modified inventory check is completed by support staff, they will be prompted to create a request to modify the inventory check. The store manager must approve this request as shown in **Section 8.2.16**. The completed inventory checks result in discrepancies the store manager is notified. The inventory check can also be found in the inventory check history table.

The screenshot shows the Kevin's Convenience Store software interface. The left sidebar has a blue header "Inventory Check". Under "Inventory Check", the "Discrepancies" option is highlighted. The main content area is titled "Inventory Check History". It features a table with two rows of data:

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Buttons above the table include "+ Complete Inventory Check", a print icon, a trash icon, and an edit icon.

Kevin's Convenience Store

Branch: My Branch

Inventory Check History

+ Complete Inventory Check

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input checked="" type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Dashboard

- + Add Item
- Remove Item
- Orders

Expiry Reminders

Inventory Check

Admin

- Requests
- User Management
- Discrepancies

Kevin's Convenience Store

Branch: My Branch

Search for a product Select Category: Categories

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.75
Apple	Growers farm	<input type="text"/> lbs	Produce	\$2.75/LB
Banana	Growers farm	<input type="text"/> lbs	Produce	\$1.75/LB
Potato	Growers farm	<input type="text"/> lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="text"/> units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="text"/> units	Pharmacy	\$5.72

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Kevin's Convenience Store

Branch: My Branch

Search for a product | Barcode Search | Select Category: Categories

Inventory Check

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	10 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	10 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	10 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	23 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	10 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	10 units	Dairy	\$4.75
Apple	Growers farm	32 lbs	Produce	\$2.75/LB
Banana	Growers farm	10 lbs	Produce	\$1.75/LB
Potato	Growers farm	2.2 lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	12 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	5 units	Pharmacy	\$5.72

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Figure 8.2.19.1 Store Manager Modifying an Inventory Check

Kevin's Convenience Store

Branch: My Branch

Inventory Check History

+ Complete Inventory Check |

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Sidebar:

- Dashboard
- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check**
- ? Help

Kevin's Convenience Store

Branch: My Branch

Kevin's Convenience Store

Alvin

Inventory Check History

+ Complete Inventory Check

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input checked="" type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Dashboard

- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check**
- Requests

Kevin's Convenience Store

Branch: My Branch

Search for a product Select Category: Categories

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="text"/> 23 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="text"/> units	Dairy	\$4.75
Apple	Growers farm	<input type="text"/> 32 lbs	Produce	\$2.75/LB
Banana	Growers farm	<input type="text"/> lbs	Produce	\$1.75/LB
Potato	Growers farm	<input type="text"/> 2.2 lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="text"/> 12 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="text"/> 5 units	Pharmacy	\$5.72

« < Page 1 of 9 > » Cancel Modify Inventory Check

PDF Name: IC0224201.pdf

Kevin's Convenience Store

Branch: My Branch Kevin

Search for a product | Barcode Search | Select Category: Categories

Inventory Check Table:

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="button" value="▼"/> units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="button" value="▼"/> units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="button" value="▼"/> units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="button" value="23"/> units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="button" value="▼"/> units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="button" value="▼"/> units	Dairy	\$4.75
Apple	Growers farm	<input type="button" value="32"/> lbs	Produce	\$2.75/LB
Banana	Growers farm	<input type="button" value="▼"/> lbs	Produce	\$1.75/LB
Potato	Growers farm	<input type="button" value="2.2"/> lbs	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="button" value="12"/> units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="button" value="5"/> units	Pharmacy	\$5.72

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PDF Name: IC0224201.pdf

Kevin's Convenience Store

Branch: My Branch Kevin

Search for a product | Barcode Search | Select Category: Categories

Inventory Check Table:

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="button" value="▼"/>	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="button" value="▼"/>	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="button" value="▼"/>	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="button" value="▼"/>	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="button" value="▼"/>	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="button" value="▼"/>	Dairy	\$4.75
Apple	Growers farm	<input type="button" value="▼"/>	Produce	\$2.75/LB
Banana	Growers farm	<input type="button" value="▼"/>	Produce	\$1.75/LB
Potato	Growers farm	<input type="button" value="▼"/>	Produce	\$1.95/LB
Advil	No-name 300 mg/100 capsules	<input type="button" value="12"/>	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100 capsules	<input type="button" value="5"/>	Pharmacy	\$5.72

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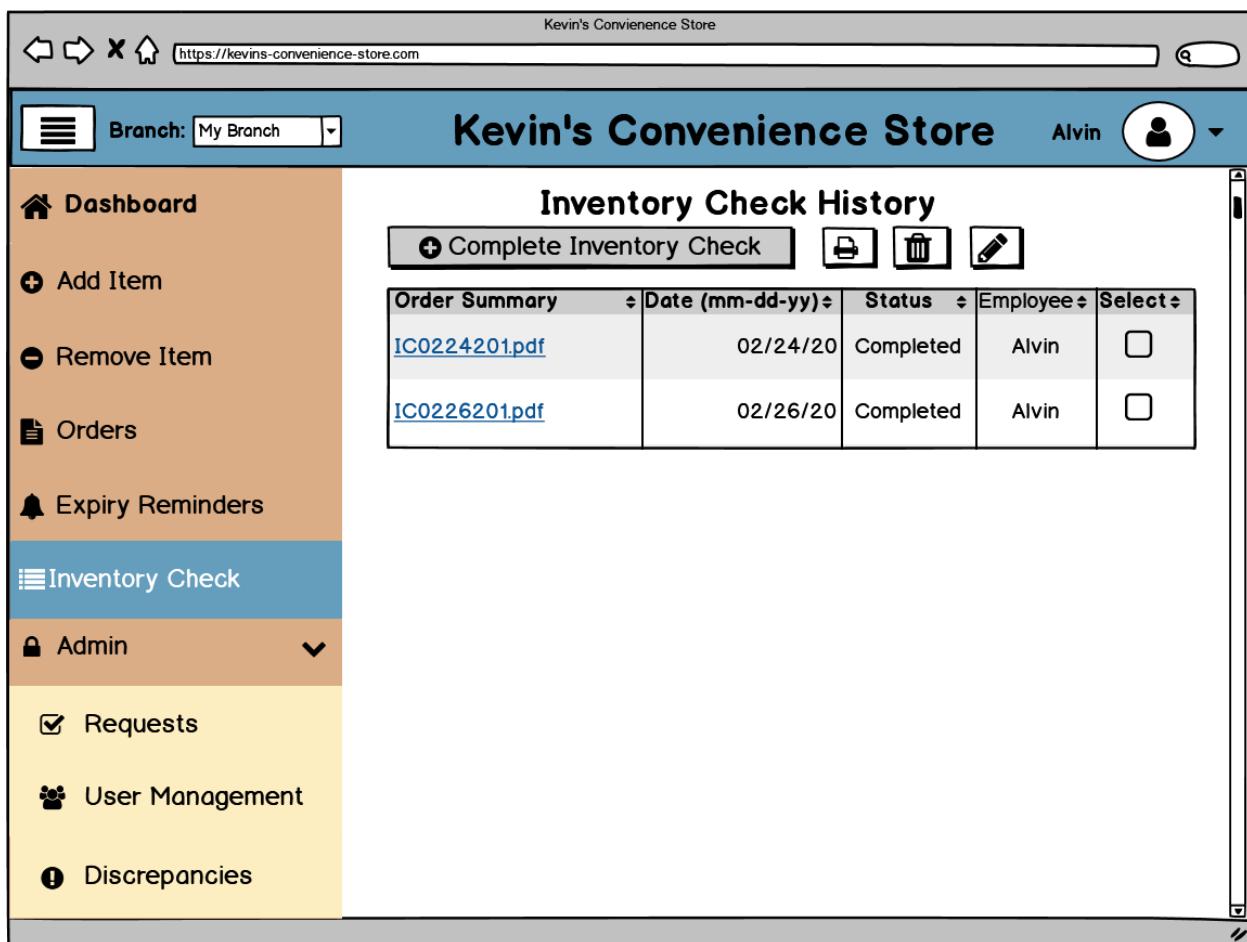
PDF Name: IC0224201.pdf

Warning
Requested changes require admin approval, would you like to automatically create a request to modify the inventory check?

Figure 8.2.19.2 Support Staff Modifying an Inventory Check

8.2.20 Delete an Inventory Check

The user selects the “Inventory Check” tab and selects the inventory check-in their inventory check history table. They then select delete. The user confirms the removal of the inventory check. If the inventory check is being deleted by support staff, they will be prompted to create a request to delete the inventory check. The store manager must approve this request as shown in **Section 8.2.16**. The removed inventory check can also be found in the inventory check history table.



The screenshot shows the Kevin's Convenience Store software interface. The left sidebar has a 'Dashboard' section with icons for Add Item, Remove Item, Orders, and Expiry Reminders. Below that is the 'Inventory Check' section, which is currently selected and highlighted in blue. It contains 'Admin' dropdown, 'Requests' checkbox (which is checked), 'User Management' icon, and 'Discrepancies' icon. The main content area is titled 'Inventory Check History'. It features a table with columns: Order Summary, Date (mm-dd-yy), Status, Employee, and Select. There are two rows in the table:

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

At the top of the main content area, there are buttons for 'Complete Inventory Check', 'Print', 'Delete', and 'Edit'.

The figure consists of two vertically stacked screenshots of a web-based inventory management system.

Screenshot 1 (Top): This shows the 'Inventory Check History' page. The left sidebar has a 'Requests' section where 'User Management' is selected. The main area displays a table of completed inventory checks:

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input checked="" type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Screenshot 2 (Bottom): This shows the same 'Inventory Check History' page, but a modal dialog box is open in the center. The dialog has a 'Warning' header and the message: 'The inventory check will be deleted.' It contains two buttons: 'Cancel' and 'Delete'.

Figure 8.2.20.1 Store Manager Deleting an Inventory Check

Kevin's Convenience Store

Branch: My Branch

Kevin's Convenience Store

Alvin

Inventory Check History

+ Complete Inventory Check   

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Dashboard

+ Add Item

- Remove Item

Orders

Expiry Reminders

Inventory Check

Help

Kevin's Convenience Store

Branch: My Branch

Kevin's Convenience Store

Alvin

Inventory Check History

+ Complete Inventory Check   

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input checked="" type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

Dashboard

+ Add Item

- Remove Item

Orders

Expiry Reminders

Inventory Check

Help

The image displays two nearly identical screenshots of a web-based application titled "Kevin's Convenience Store". The application has a sidebar on the left with the following menu items:

- Dashboard
- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check** (highlighted in blue)
- Help

The main content area shows a table titled "Inventory Check History" with the following data:

Order Summary	Date (mm-dd-yy)	Status	Employee	Select
IC0224201.pdf	02/24/20	Completed	Alvin	<input checked="" type="checkbox"/>
IC0226201.pdf	02/26/20	Completed	Alvin	<input type="checkbox"/>

A modal dialog box is centered over the table, displaying a "Warning" message:

Requested changes require admin approval, would you like to automatically create a request to remove this inventory check?

No **Yes**

Figure 8.2.20.2 Support Staff Deleting an Inventory Check

8.2.21 Add a User

Only a store manager can add a user. The store manager enters the new user's information and confirms the new user's account creation.

The screenshot shows the 'User Management' section of the Kevin's Convenience Store application. On the left, there is a sidebar with various menu items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (selected), Requests (with a checked checkbox), User Management (selected), and Discrepancies. The main area is titled 'User Management' and contains a table with 11 rows of employee data. The columns are Name, Job Title, Preferred name, Employee ID, and Options (with icons for delete and edit). The data is as follows:

Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	Jules	A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	

Kevin's Convenience Store

https://kevins-convenience-store.com/User-Management

Kevin's Convenience Store

Kevin

User Management

Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	Jules	A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	

Kevin's Convenience Store

https://kevins-convenience-store.com/User-Management

Kevin's Convenience Store

Kevin

User Management

Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff		A0002	
George Bo	Support staff		A0003	
Luke Hobbs	Support staff		A0004	
Michelle Liu	Support staff		A0005	
Mathew Crab	Support staff		A0006	
Jules Pras	Store manager		A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	

Create

Name:

Position:

Preferred Name:

Employee ID:

Email:

Kevin's Convenience Store

https://kevins-convenience-store.com/User-Management

Branch: My Branch Kevin

User Management

Name	Job Title	PREFERRED name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister			A0002	
George Bo	Support staff		A0003	
Luke Hobbs			A0004	
Michelle Liu			A0005	
Mathew Crab			A0006	
Jules Pras			A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	

Create

Name: Jiang Zemin
Position: Support staff
Preferred Name: Alvin
Employee ID: A0012
Email: Alvin@gmail.com

Cancel **Create**

Kevin's Convenience Store

https://kevins-convenience-store.com/User-Management

Branch: My Branch Kevin

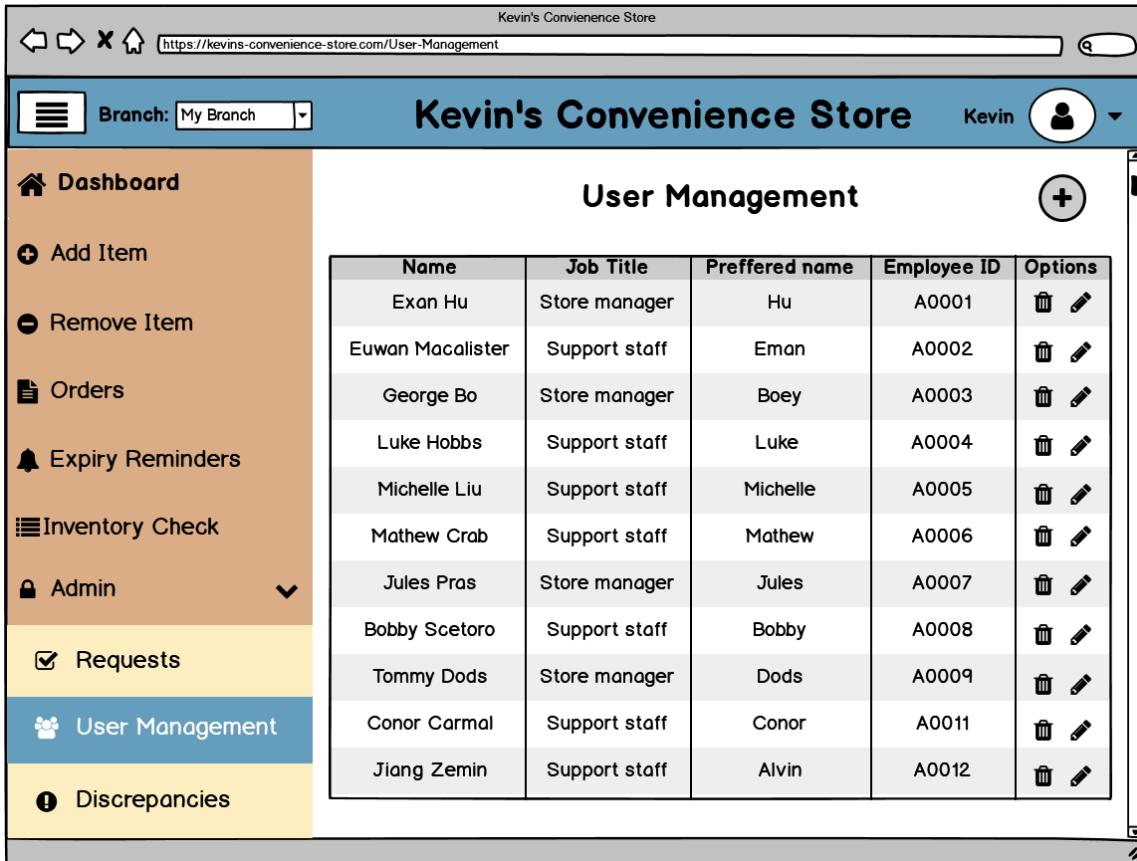
User Management

Name	Job Title	PREFERRED name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	Jules	A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	
Jiang Zemin	Support staff	Alvin	A0012	

Figure 8.2.21 Creating a User

8.2.22 Remove a User

Only a store manager can remove a user. The store manager selects the user to remove and selects remove. The store manager confirms the removal.



The screenshot shows the 'User Management' section of the Kevin's Convenience Store application. On the left, there is a sidebar with various menu items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (selected), Requests (with a checked checkbox), User Management (selected), and Discrepancies. The main area is titled 'User Management' and contains a table with 12 rows of user data. Each row includes columns for Name, Job Title, Preferred name, Employee ID, and Options (which includes a trash bin icon for removal). The users listed are: Exan Hu (Store manager), Euwan Macalister (Support staff), George Bo (Store manager), Luke Hobbs (Support staff), Michelle Liu (Support staff), Mathew Crab (Support staff), Jules Pras (Store manager), Bobby Scetoro (Support staff), Tommy Dods (Store manager), Conor Carmal (Support staff), and Jiang Zemin (Support staff).

Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	Jules	A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	
Jiang Zemin	Support staff	Alvin	A0012	

Kevin's Convenience Store

https://kevins-convenience-store.com/User-Management

Branch: My Branch Kevin

User Management

Name	Job Title	PREFERRED name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Support staff	Jiang Zemin	A0003	
Luke Hobbs	Support staff	Support staff	A0004	
Michelle Liu	Support staff	Alvin	A0005	
Mathew Crab	Support staff	A0012	A0006	
Jules Pras	Support staff	Cancel	A0007	
Bobby Scetoro	Support staff	Remove	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	
Jiang Zemin	Support staff	Alvin	A0012	

Kevin's Convenience Store

https://kevins-convenience-store.com/User-Management

Branch: My Branch Kevin

User Management

Name	Job Title	PREFERRED name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	Jules	A0007	
Bobby Scetoro	Support staff	Bobby	A0008	
Tommy Dods	Store manager	Dods	A0009	
Conor Carmal	Support staff	Conor	A0011	

Figure 8.2.22 Removing a User

8.2.23 Modify a User

Only a store manager can modify a user. The store manager selects the user and selects modify. The user's information is shown, and the changes are made. The store manager then confirms the changes.

The screenshots illustrate the process of modifying a user in the Kevin's Convenience Store system:

User Management Screen (Top Screenshot):

Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	trash edit
Euwan Macalister	Support staff	Eman	A0002	trash edit
George Bo	Store manager	Boey	A0003	trash edit
Luke Hobbs	Support staff	Luke	A0004	trash edit
Michelle Liu	Support staff	Michelle	A0005	trash edit
Mathew Crab	Support staff	Mathew	A0006	trash edit
Jules Pras	Store manager	Jules	A0007	trash edit
Bobby Scetoro	Support staff	Bobby	A0008	trash edit
Tommy Dods	Store manager	Dods	A0009	trash edit
Conor Carmal	Support staff	Conor	A0011	trash edit
Jiang Zemin	Support staff	Alvin	A0012	trash edit

User Management Screen (Bottom Screenshot):

A modal dialog titled "Modify" is open for the user Jiang Zemin. The dialog contains the following fields:

- Name: Jiang Zemin
- Position: Support staff
- Preferred Name: Alvin
- Employee ID: A0012
- Email: Alvin@gmail.com

At the bottom of the dialog are two buttons: "Discard" and "Confirm".

Figure 8.2.23 Modifying a User

8.2.24 View Discrepancies

To view discrepancies, a store manager goes to the discrepancies tab and selects an inventory check. Once selected the discrepancies are shown in the table. If no discrepancies occurred the inventory check will not be found in the dropdown selector.

The figure consists of two screenshots of a web application interface for "Kevin's Convenience Store".

Screenshot 1 (Top): This shows the initial state of the application. The left sidebar contains a navigation menu with the following items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with a dropdown arrow), Requests, User Management, and Discrepancies. The "Inventory Check" item is highlighted with a blue background. The main content area features a "Select Inventory Check:" dropdown menu with the placeholder "Date, Completed by".

Screenshot 2 (Bottom): This shows the application after an inventory check has been selected. The "Inventory Check" item in the sidebar is no longer highlighted. The main content area now displays a table of discrepancies. The table has columns: Name, SKU, Expected/Actual Quantity, Discrepancy, and Amount Lost. It contains two rows:

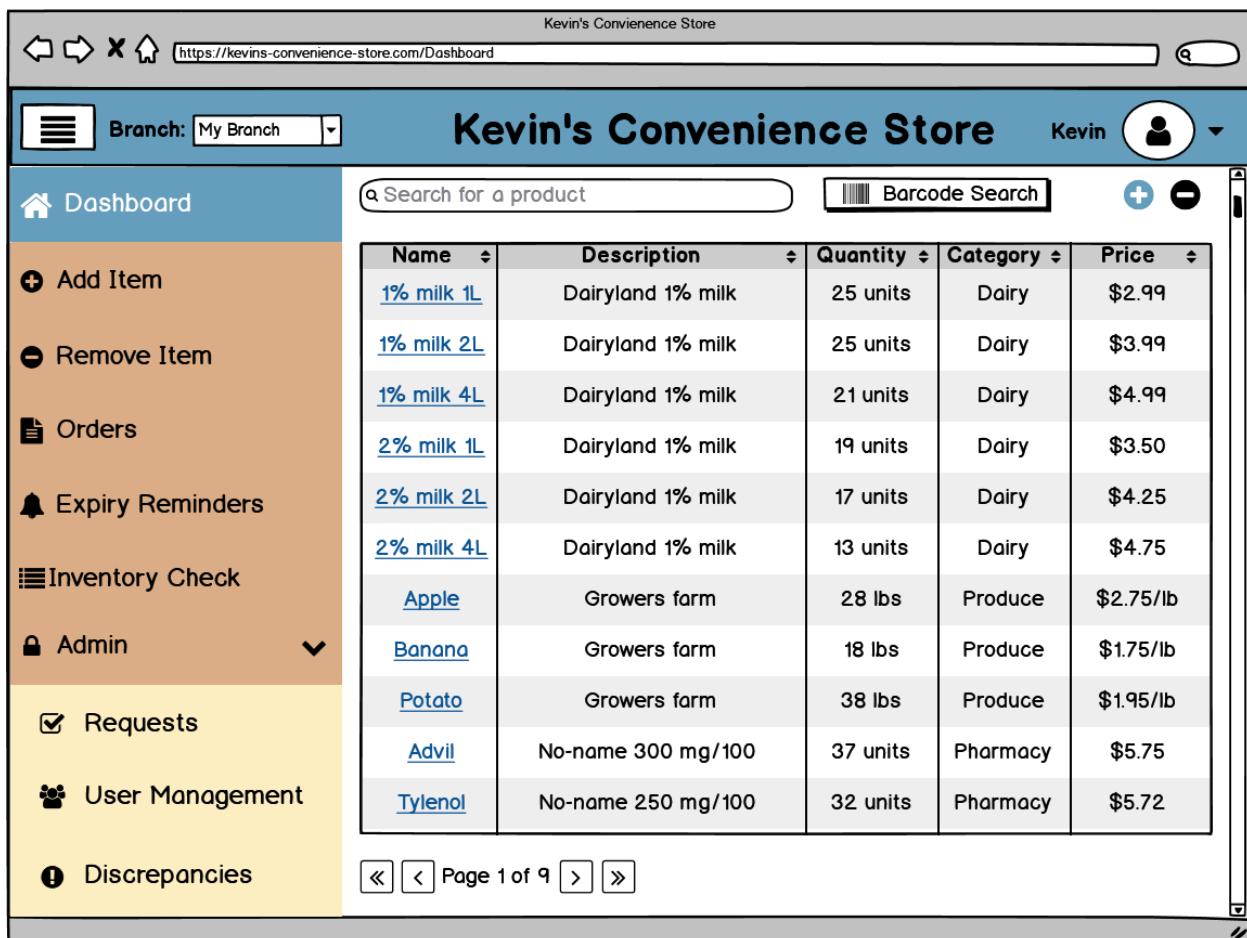
Name	SKU	Expected/Actual Quantity	Discrepancy	Amount Lost
Advil	1256dq	37/32 units	5 units	\$26.29
Tylenol	1256d1	32/30 units	2 units	\$8.29

Below the table, there is a search bar with the placeholder "Search for a product" and a "Barcode Search" button. At the bottom of the page, there are navigation links: «, <, Page 1 of 1, >, ».

Figure 8.2.24 Viewing Discrepancies

8.2.25 Changing Branches

A User can Change branches to view another store's inventory by choosing the desired store from the presented drop-down menu. Support staff can only view the Dashboard, but store managers can have access to all menu items.



The screenshot shows the Kevin's Convenience Store dashboard. The left sidebar has a 'Dashboard' button and several collapsed sections: 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', 'Admin' (with dropdown), 'Requests' (with checked checkbox), 'User Management', and 'Discrepancies'. The main area displays a table of inventory items with columns: Name, Description, Quantity, Category, and Price. The table includes rows for various dairy products like 1% milk in different sizes, produce items like Apple and Banana, and pharmaceutical items like Advil and Tylenol. A search bar and barcode search button are at the top right, and navigation links are at the bottom.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 2% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 2% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 2% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

Kevin's Convenience Store

https://kevins-convenience-store.com/Dashboard

Branch: My Branch

Downtown Branch

Search for a product

Barcode Search

Add Item Remove Item Orders Expiry Reminders Inventory Check Admin Requests User Management Discrepancies

Name	Description	Quantity	Category	Price
% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

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Kevin's Convenience Store

https://kevins-convenience-store.com/Dashboard

Branch: My Branch

Downtown Branch

Search for a product

Barcode Search

Add Item Remove Item Orders Expiry Reminders Inventory Check Admin Requests User Management Discrepancies

Name	Description	Quantity	Category	Price
% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

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Kevin's Convienence Store

Branch: Quadra Branch

Kevin's Convenience Store

Kevin

Dashboard

- Add Item**
- Remove Item**
- Orders**
- Expiry Reminders**
- Inventory Check**
- Admin**
- Requests**
- User Management**
- Discrepancies**

Search for a product

Barcode Search

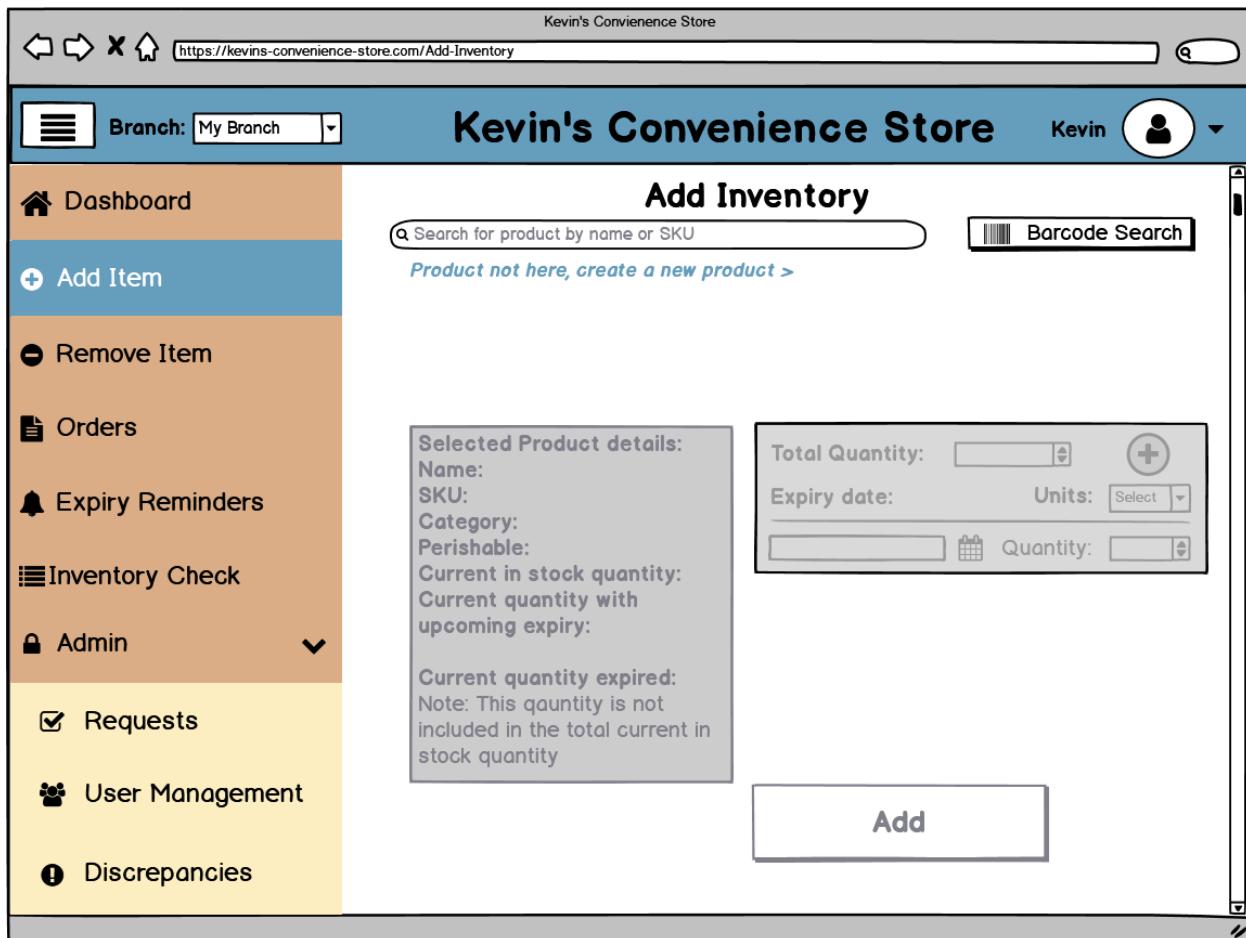
Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25 units	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25 units	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21 units	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19 units	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17 units	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13 units	Dairy	\$4.75
Apple	Growers farm	28 lbs	Produce	\$2.75/lb
Banana	Growers farm	18 lbs	Produce	\$1.75/lb
Potato	Growers farm	38 lbs	Produce	\$1.95/lb
Advil	No-name 300 mg/100	37 units	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32 units	Pharmacy	\$5.72

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Figure 8.2.25 Changing Branches

8.2.26 Search for Item by barcode

Items can be found by scanning in the item's barcode. This process can be similarly completed in other locations in the application where the barcode search feature is available.



The screenshot shows the 'Add Inventory' page of the Kevin's Convenience Store application. The left sidebar has a 'Branch: My Branch' dropdown and links for Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with a dropdown menu for Requests, User Management, and Discrepancies), and Requests. The main content area has a title 'Add Inventory' and a search bar. A note says 'Product not here, create a new product >'. On the right, there's a 'Barcode Search' button. A box on the left lists 'Selected Product details:' with fields for Name, SKU, Category, and Perishable. It also shows 'Current in stock quantity:', 'Current quantity with upcoming expiry:', and 'Current quantity expired:'. A note states 'Note: This quantity is not included in the total current in stock quantity'. On the right, there are fields for 'Total Quantity:' (with a plus sign button), 'Expiry date:', 'Units:' (with a 'Select' dropdown), and 'Quantity:' (with a minus/plus/zero button). At the bottom right is a large 'Add' button.

Kevin's Convenience Store

Add Inventory

Product found
Is this the product you want?

Name:	1% milk 1L
Category:	Dairy
Perishable:	Yes
SKU:	1256d

[See other options>](#)
[Product not here, create a new product >](#)

Cancel
Confirm

Current quantity expired:
Note: This quantity is not included in the total current in stock quantity

Add

Kevin's Convenience Store

Add Inventory

Name	Category	Perishable	SKU
1% Milk 1L	Dairy	Yes	1256d
1% Milk 2L	Dairy	Yes	1256e
1% Milk 4L	Dairy	Yes	1256f

Product not here, create a new product >

Selected Product details:

Name: 1% Milk 1L
SKU: 1256d
Category: Dairy
Perishable: Yes
Current in stock quantity: 22
Current quantity with upcoming expiry: 20

Current quantity expired: 3
Note: This quantity is not included in the total current in stock quantity

Total Quantity: +

Expiry date: Units:

Quantity:

Add

Figure 8.2.26 Finding an Item using its Barcode

9 Testing

This section establishes how the Inventory Management System's requirements will be tested.

9.1 Test Scenarios

9.1.1 Selling an Item

TC-1: The scenario begins when a sale is being made using the POS system. Bring up the current inventory amount of the items being sold. Wait for the items to finish going through the POS system process. Check the current inventory numbers again and confirm they are updated.

REQ-2-1, REQ-6-3, REQ-6-4, REQ-CI-3

9.1.2 Removing a Damaged or Expired Item

TC-2: The scenario begins with either a damaged or expired item that must be removed from inventory. Bring up the current inventory amount of the items being removed. Complete the removal process for either expired or damaged items. Check the current inventory numbers again and confirm they are within the either expired or damaged items category depending on the removal process followed to remove it.

REQ-2-2, REQ-2-3, REQ-2-4, REQ-2-5

9.1.3 Notification Created for Products Nearing Expiry

TC-3: The scenario begins when the Inventory Management System generates a notification for a product that is nearing its expiry. Bring up the "Upcoming Expiry" tab of the "Expiry Reminders" section after the user is notified. All the products within 3 days of their expiry are displayed in a tabular form. Confirm that the product that was specified in the notification is displayed in the table.

REQ-5-1 REQ-5-2

9.1.4 Confirmation of Removal for Expired Products

TC-4: The scenario begins when the Inventory Management System generates a notification for a product that has expired. Bring up the "Expired" tab of the "Expiry Reminders" section after the user is notified. Select "Remove Item" for the product after it has been physically removed from the inventory. When the system redirects to the "Remove Item" section, choose the product to remove and the reason for its removal as "Expired". Select "Remove" and ensure that the user is asked for confirmation. Confirm that the product has been removed from the "Expired" tab.

REQ-5-1, REQ-5-2, REQ-5-3

9.1.5 Searching for a Product by Keyword

TC-5: From a page containing a valid search function, the user selects the “Search” field and types the keyword they want to use to find the product of interest followed by the “Search” button. The system will refresh the page with an inventory list with products containing the keyword. If the product exists, the user can select the desired product, or the user can select to create a product and the system will redirect the user to the “Create Product” page.

REQ-1-2, REQ-2-1, REQ-SI-8

9.1.6 Searching for a Product by Barcode

TC-6: The user then selects the “Search by Barcode” button which prompts the scanner peripheral to initialize. The user scans the products barcode and the system searches the database for the product using information received from the scan. If the product exists, the system will redirect the user to the product information page, otherwise, it will redirect the user to the “Create Product” page.

REQ-1-1, REQ-6-4, REQ-HI-5, REQ-SI-2, REQ-SI-3, REQ-SI-8

9.1.7 Sorting Inventory

TC-7: The scenario begins at the inventory screen of the user’s local branch. The user can sort the products by a heading of their choosing by clicking on the heading title. By clicking on the heading title, the products will be sorted in ascending or descending order according to the heading.

REQ-1-2, REQ-6-2

9.1.8 Adding a New Product

TC-8: The user is either redirected to the “Create Product” page following the performance of TC-5, TC-6 or selects “Product not Here, Create New Product” from the “Add Item” page. If scanned, barcode fields should be filled automatically, and remaining fields are filled by the user. Otherwise, the user will fill all the fields. Following this, the “Generate Unique SKU” button is selected. A unique SKU is created for the product and the user selects the “Create” button to request the addition of the newly created product to the database or “Cancel” to cancel the new product generation.

REQ-1-3, REQ-1-4, REQ-1-5, REQ-SI-3, REQ-SI-4

9.1.9 Modifying an Existing Product

TC-9: From the “Add Item” page, the user performs TC-5 or TC-6 and selects the product of interest’s information page. From the “Product Information” page they select the “Modify Product” button and make any adjustments to the fields. When finished, the user selects “Confirm” to send a request for modifications to the product or “Discard” to discard the changes

made to the product. A Store Manager can approve the product modification to the database by addressing any pending requests.

REQ-1-3, REQ-1-5, REQ-1-6, REQ-1-7, REQ-SI-4, REQ-SI-9

9.1.10 Viewing Inventory of a Different Branch

TC-10: The scenario begins at the inventory screen of the user's local branch. To select the branch of interest, the user selects the branch of interest from the "Branch" dropdown menu. Once selected, the system loads the inventory information from the selected branch from the database.

REQ-6-1, REQ-6-3, REQ-SI-6, REQ-SI-7

9.1.11 Processing Intake from a Received Order

TC-11: The scenario begins with a user receiving a new order from a distributor. The user selects the "Orders" tab and the system redirects to the "Orders" page. Finding the order that just arrived, the user selects the appropriate box and then the "Intake Order" button. The system then redirects the user to the "Add Item" page with the product of the first item in the order. If the product does not exist, then TC-8 is performed, else TC-9. The "Add Item" page is then populated with the next item in the order. This process continues until the order is completed whereby the systems redirects to the "Orders" page with the order's status changed to "Arrived".
REQ-1-2, REQ-1-4, REQ-3-3, REQ-3-4, REQ-6-2

9.1.12 Approving and Declining a Request

TC-12: The scenario begins with a store manager looking to view any pending requests made by users. The store manager selects the "Requests" tab and finds a pending request via the "All Requests" tab or the "Pending Requests" tab. The store manager selects the request of interest and sees the requested information. If the store manager wants to approve and finalize the database changes then he/she selects "Approve" and the system changes the request's status to "Approved" and modifies the database appropriately. If the store manager wants to decline the database changes then he/she selects "Decline" and the system changes the request's status to "Declined".

REQ-1-6, REQ-1-7

9.1.13 Drafting an Order Summary

TC-13: The scenario begins when the store manager receives low inventory reminders from existing inventory and new products are determined to be needed. Visit the "Orders" page. Select the "Draft New Order" option on top of the web page. Fill in the form prompting for necessary details. Save the changes. Confirm that a new order summary with the correct information has been created on the Orders page with the status "Drafted".

REQ-3-1, REQ-3-2

9.1.14 Retrieving PDF Order Summaries for a Distributor

TC-14: The scenario begins when the store manager wants to place an order to a distributor. Visit the “Orders” page. Select one of the order summaries from the “Order History” whose status is “Drafted” and then select the print icon. Confirm that a pop-up appears that provides the options to “Save as PDF” or connect to a nearby printer for printing.

REQ-3-2, REQ-SI-11, REQ-SI-12, REQ-CI-4

9.1.15 Performing an Inventory Check

TC-15: The scenario begins when the store manager begins to perform his weekly inventory checks. The store manager visits the “Inventory Check” page and selects “Complete Inventory Check”. A form is populated with all products that the store offers for sale with a modifiable value representing the amount of stock for a specific product. At this point, the form is available for the support staff to edit should they receive approval from the store manager. Once the store manager is satisfied with the completeness of the form, it is published and stored in the database. If any discrepancies have surfaced, separate notifications are issued to the store manager to attend to the matter.

REQ-4-1, REQ-4-2, REQ-4-3, REQ-4-4, REQ-SI-10

9.1.16 Notify Store Manager of Inventory Discrepancies

TC-16: An error in the logged inventory is introduced by the store manager. Following TC-15, the store manager selects the “Discrepancies” tab and from the dropdown menu selects the appropriate date of the inventory check. Once selected, the system updates the page and displays the discrepancies introduced by the store manager.

REQ-4-1, REQ-4-2, REQ-4-4, REQ-SI-10

9.1.17 Consistent User Interfaces

TC-17: Open the web application on a computer and complete TC- to TC- ensure all the views use consistent user interface elements. Open the web application on a computer and complete TC-1 to TC-6 ensure all the views use consistent user interface elements. Select all menu bar pages available to the user are loaded correctly.

REQ-UI-4, REQ-HI-2, REQ-SI-1, REQ-SI-6

9.1.18 Log in

TC-18: Have the user access the company website and select the “Login” button. The page will be redirected to the “Login” page. The user will enter their assigned username and password which will bring them to their inventory page. If the user incorrectly enters their login information, the page will redirect to a “Login” page with an error message claiming the user has incorrectly entered their username or password.

REQ-UI-1, REQ-UI-2, REQ-CI-4, REQ-S-1

9.1.19 System availability

TC-19: Run the Inventory Management System for 140 hours. Confirm that no service outages occur and TC-1 to TC-6 can be completed.

REQ-P-5

9.1.20 Administrator Privileges

TC-20: Let the store manager visit the Login page. Input correct credentials. See that the logged in store manager has access to the “Admin” tab that contains Requests, User management and Discrepancies. They also have access to the Draft New Order option in the Orders section.

REQ-UI-2, REQ-UI-3

9.1.21 Support Staff Privileges

TC-21: Let the support staff visit the Login page. Input correct credentials. See that the logged-in support staff don't have access to the Admin tab and has only the “Intake Order” option visible to them.

REQ-UI-2

9.1.22 Print an Order Summary

TC-22: Print an order summary. Confirm the printer produces the correct order summary.

REQ-CI-5

9.1.23 Saved Changes Following Internet Outage

TC-23: Perform TC-1. Cut off the internet connection from the device for 5 minutes. During this period make a few sales in the POS system. The system will not be updated to these changes. After 5 minutes, reconnect the device to the internet. See that the products that had been sold during the internet outage have now been removed from the inventory system.

REQ-HI-3, REQ-HI-4, REQ-CI-1, REQ-CI-2

9.1.24 Database Updated Appropriately Following Requests

TC-24: Perform TC-12. Ensure that the database has made the correct changes in the database, else ensure product info hasn't changed.

REQ-SI-5

9.1.25 Correct Bugs and Vulnerabilities

TC-25: Before the scheduled end of the day security scan, Inventoria software engineers will introduce a small but easily correctable error into the application. The standard end of day scan will be performed where it will notify a dummy email to represent potential store managers as well as Inventoria's security engineers. Notifications should include the type of error found and,

for Inventoria security engineers, a detailed event history outlining the issue found. The update with the known correction will be applied and the end of day security scan will be performed again. No notification should occur.

REQ-S-2, REQ-S-3, REQ-S-4

9.1.26 Learnability and Accessibility

TC-26: Allow three support staffs to learn using the Inventory Management System for 2 hours. With a stopwatch, time the support staffs in the completion of TC- 8 and TC -11. Confirm that each support staff can complete each test scenario within one minute. These support staff users should preferably include staffs with physical disabilities and color blindness to improve accuracy.

REQ-UI-6, REQ-SQA-1, REQ-SQA-2

9.1.27 Scalability

TC-27: Extend the Inventory Management System's database to include a new branch. Confirm that the new branch can be integrated, and the system can be deployed to the branch within a week without post-production errors.

REQ-SQA-3

9.1.28 Database Updates Timely

TC-28: Calculate the time it takes to perform TC-1 and TC-2. Confirm that the database is updated within 10 ms after performing TC-1 and within 100 ms for TC-2.

REQ-P-3, REQ-P-4

9.1.29 System Responsiveness

TC-29: Perform TC-1 through TC-27. With each test case, ensure all system processing occurs within 500 ms or less. For test cases which involve accessing the database, the processing time can exceed 500 ms while having an upper bound of 750 ms.

REQ-P-2

9.1.30 System Robustness

TC-30: Request an inventory report with 5000 unique products. Confirm that the products contain the correct information and associated counts.

REQ-P-1

9.2 Traceability Matrix

Requirement		Use Case	Test Case
Requirement ID	Priority	Use Case ID	Test Case ID
REQ-1-1	High	UC-1-1	TC-6
REQ-1-2	High	UC-1-1, UC-1-2	TC-5, TC-7, TC-11
REQ-1-3	High	UC-1-1	TC-8, TC-9
REQ-1-4	High	UC-1-1	TC-8, TC-11
REQ-1-5	High	UC-1-2, UC-1-4	TC-8, TC-9
REQ-1-6	High	UC-1-3, UC-1-4, UC-1-5	TC-9, TC-12
REQ-1-7	High	UC-1-5	TC-9, TC-12
REQ-2-1	High	UC-2-3	TC-1, TC-5
REQ-2-2	High	UC-2-1, UC-2-2	TC-2
REQ-2-3	High	UC-2-1, UC-2-2	TC-2
REQ-2-4	Medium	UC-2-1, UC-2-2	TC-2
REQ-2-5	High	UC-2-1, UC-2-2	TC-2
REQ-3-1	High	UC-3-1	TC-13
REQ-3-2	Medium	UC-3-1	TC-13, TC-14
REQ-3-3	Low	UC-3-2	TC-11
REQ-3-4	Low	UC-3-2	TC-11
REQ-4-1	High	UC-4-4	TC-15, TC-16
REQ-4-2	High	UC-4-1	TC-15, TC-16
REQ-4-3	Low	UC-4-1, UC-4-4	TC-15
REQ-4-4	Low	UC-4-1, UC-4-4	TC-15, TC-16
REQ-5-1	Medium	UC-5-1, UC-5-2	TC-3, TC-4
REQ-5-2	High	UC-5-1, UC-5-2	TC-3, TC-4

REQ-5-3	Low	UC-5-2	TC-4
REQ-6-1	High	UC-6-1, UC-6-2	TC-10
REQ-6-2	High	UC-6-2	TC-7, TC-11
REQ-6-3	High	UC-6-1, UC-6-2	TC-1, TC-10
REQ-6-4	High	UC-6-2	TC-1, TC-6
REQ-UI-1	High	N/A	TC-18
REQ-UI-2	High	N/A	TC-18, TC-20, TC-21
REQ-UI-3	High	N/A	TC-20
REQ-UI-4	Medium	N/A	TC-17
REQ-UI-5	Medium	N/A	TC-6
REQ-UI-6	High	N/A	TC-26
REQ-HI-1	Medium	N/A	TC-6
REQ-HI-2	High	N/A	TC-17
REQ-HI-3	High	N/A	TC-23
REQ-HI-4	Medium	N/A	TC-23
REQ-SI-1	High	N/A	TC-17
REQ-SI-2	Medium	N/A	TC-6
REQ-SI-3	High	N/A	TC-6, TC-8
REQ-SI-4	High	N/A	TC-8, TC-9
REQ-SI-5	High	N/A	TC-24
REQ-SI-6	Low	N/A	TC-10, TC-17
REQ-SI-7	Low	N/A	TC-10
REQ-SI-8	High	N/A	TC-5, TC-6
REQ-SI-9	Medium	N/A	TC-9
REQ-SI-10	High	N/A	TC-15, TC-16

REQ-SI-11	Medium	N/A	TC-14
REQ-SI-12	High	N/A	TC-14
REQ-CI-1	High	N/A	TC-23
REQ-CI-2	Medium	N/A	TC-23
REQ-CI-3	High	N/A	TC-1
REQ-CI-4	High	N/A	TC-14, TC-18
REQ-CI-5	Low	N/A	TC-22
REQ-P-1	Medium	N/A	TC-30
REQ-P-2	High	N/A	TC-29
REQ-P-3	High	N/A	TC-28
REQ-P-4	High	N/A	TC-28
REQ-P-5	High	N/A	TC-19
REQ-S-1	High	N/A	TC-18
REQ-S-2	High	N/A	TC-25
REQ-S-3	High	N/A	TC-25
REQ-S-4	High	N/A	TC-25
REQ-SQA-1	High	N/A	TC-26
REQ-SQA-2	High	N/A	TC-26
REQ-SQA-3	Medium	N/A	TC-27

10 Appendix

This appendix includes additional information regarding hardware and software specifications, specifically, what is unknown as of this report.

10.1 Issues List

- The scanner to be used for scanning barcodes is yet to be determined. The current systems for scanning barcodes have not been investigated enough to make an informed choice.
- The printer to be used for printing orders/pages is yet to be determined. Similar functionality across printers allows for a generalized term ‘printer’ to be used.