

Requirements Specification Document

Inventory Management System

Inventoria

March 19th, 2020

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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
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1 Introduction

1.1 Purpose

The purpose of the following Requirements Specification Document (RSD 3.0) 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 with the purpose of showing 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: 25- Feb- 2020].
- [3] *Requirements Specification Document 1.1*, Kevin's Convenience Corner, 2020 [Online]. Available: [RSD1.1Group9.pdf](#). [Accessed: 25- Feb- 2020].

1.5 Overview

This document, RSD 3.0, is the third 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. Finally, the high-fidelity prototype of the interface and storyboards of the Inventory Management System are then outlined to showcase the use of the application.

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.

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.

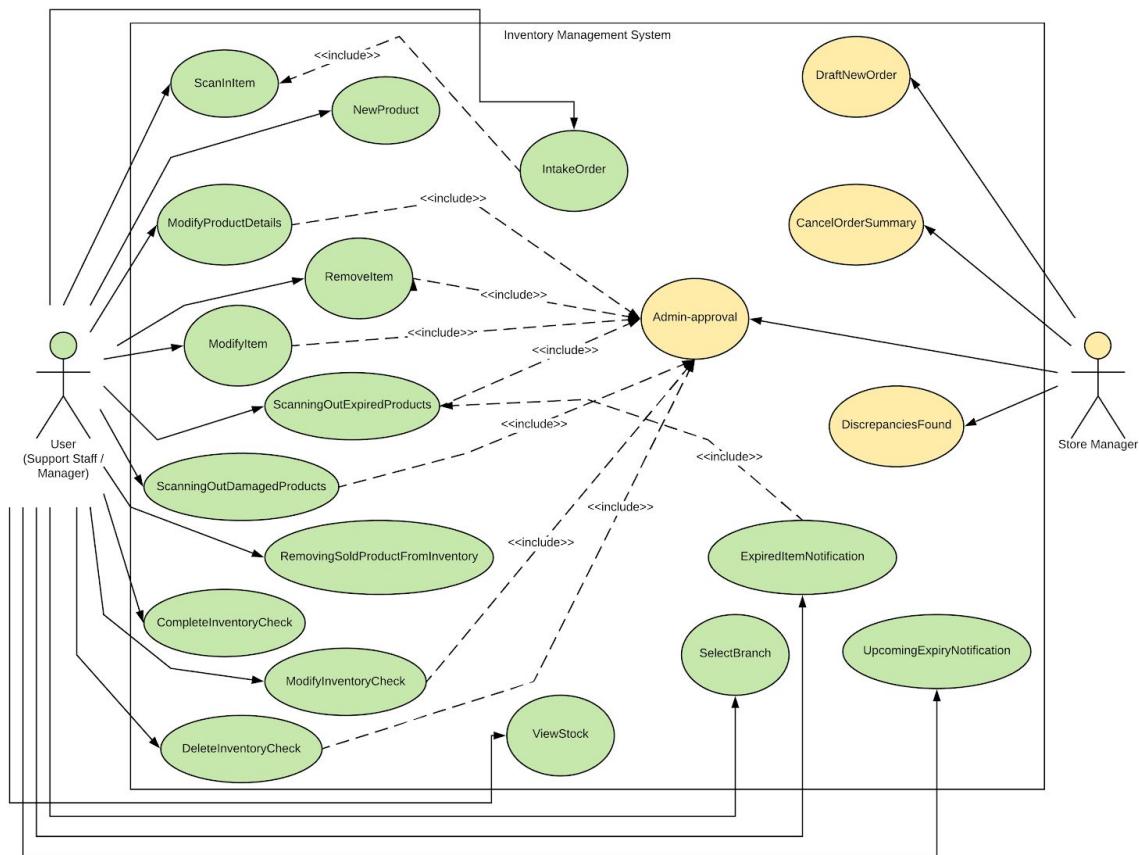


Figure 3.1 Use case diagram

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 products by scanning the product barcode.

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

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

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

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

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

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

3.1.3 Use Cases

UC-1-1: ScanNewItem
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 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.3.1.2. Include(AddNewProduct)Else3.2. User enters in the product information manually

4. 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

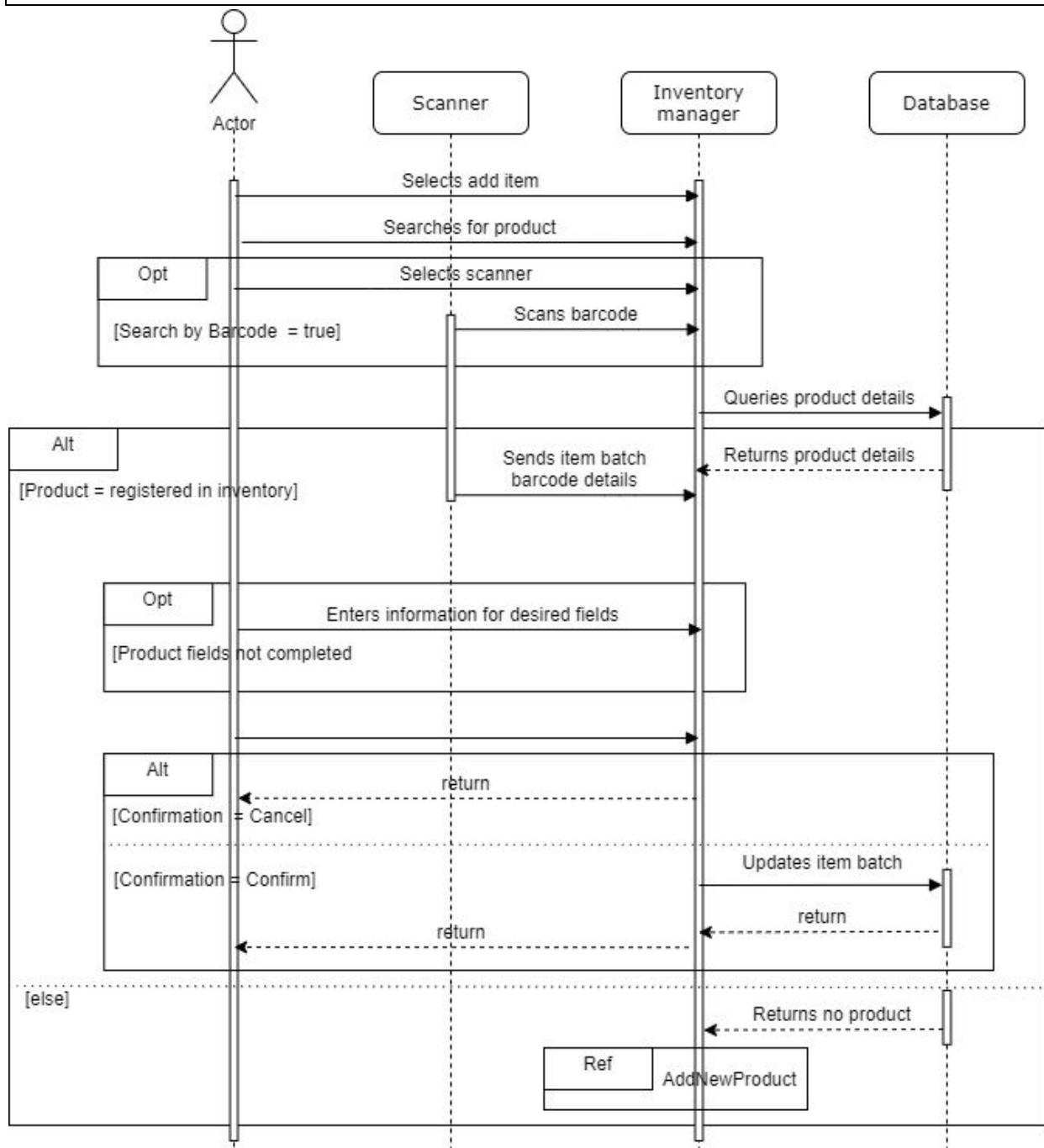


Figure 3.1.1 Scan-In Item Sequence Diagram

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: <ol style="list-style-type: none">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

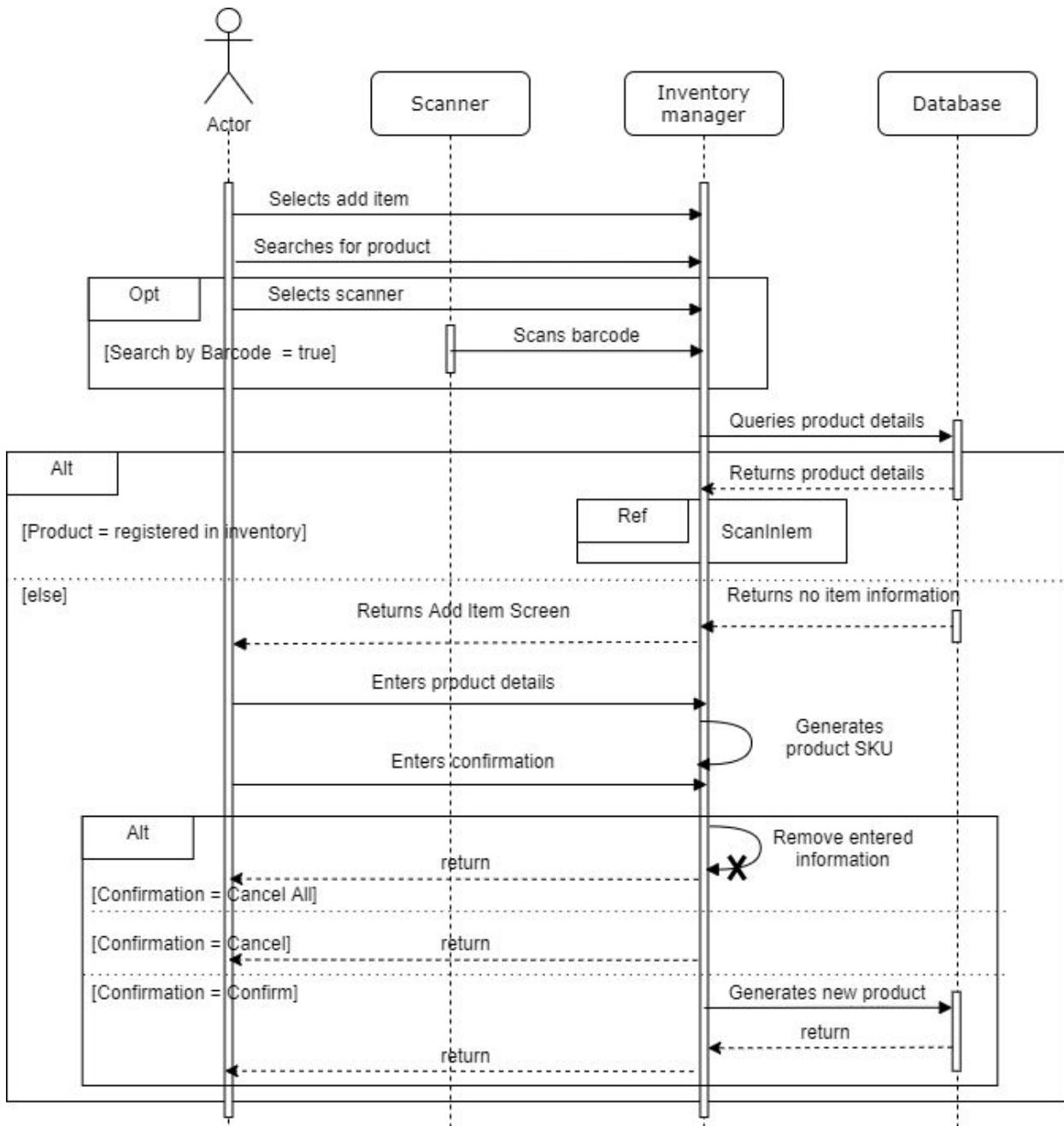


Figure 3.1.2 Add New Product Sequence Diagram

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

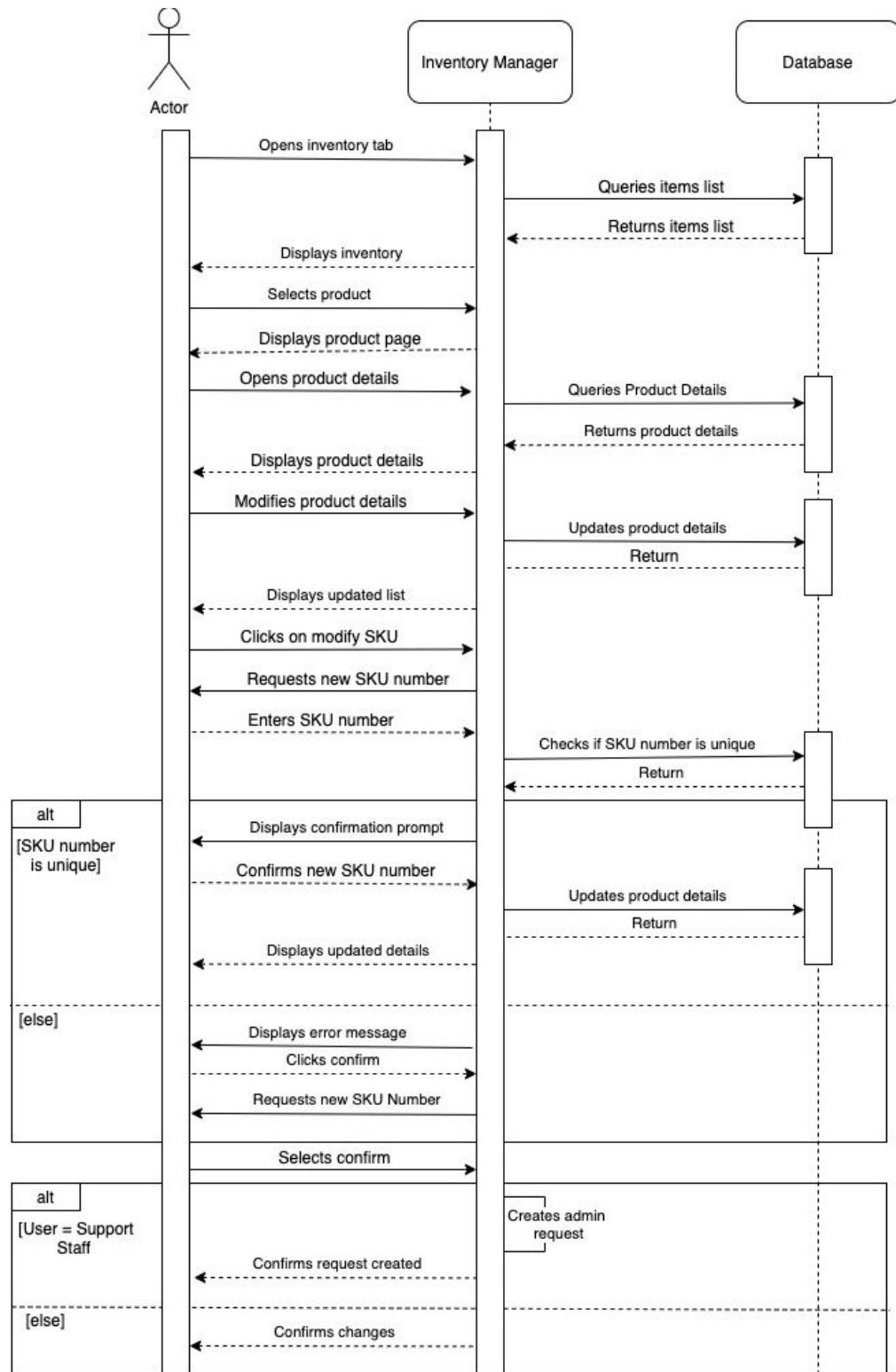


Figure 3.1.3 Modify Product Details Sequence Diagram

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>

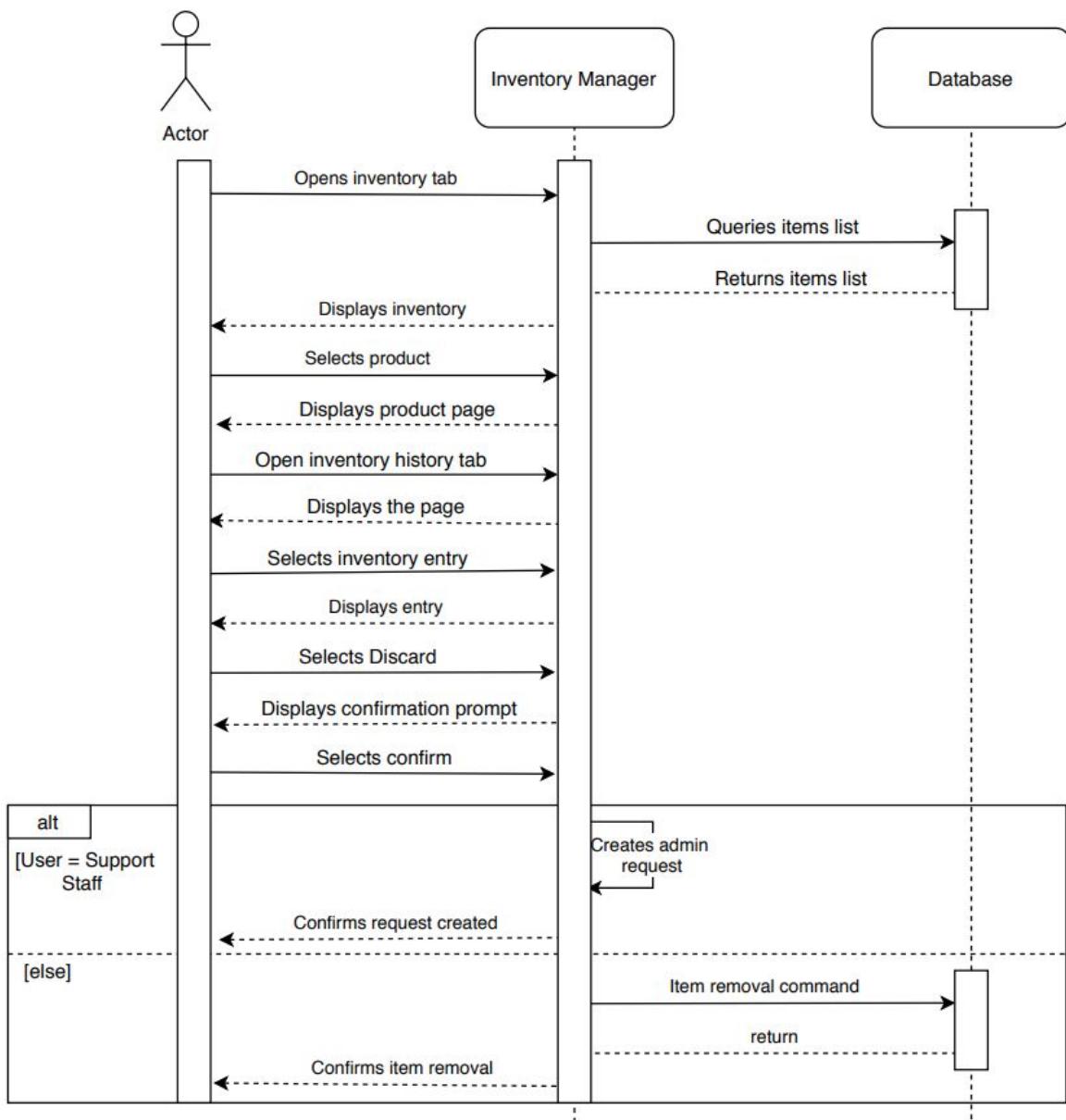


Figure 3.1.4 Remove Item Sequence Diagram

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

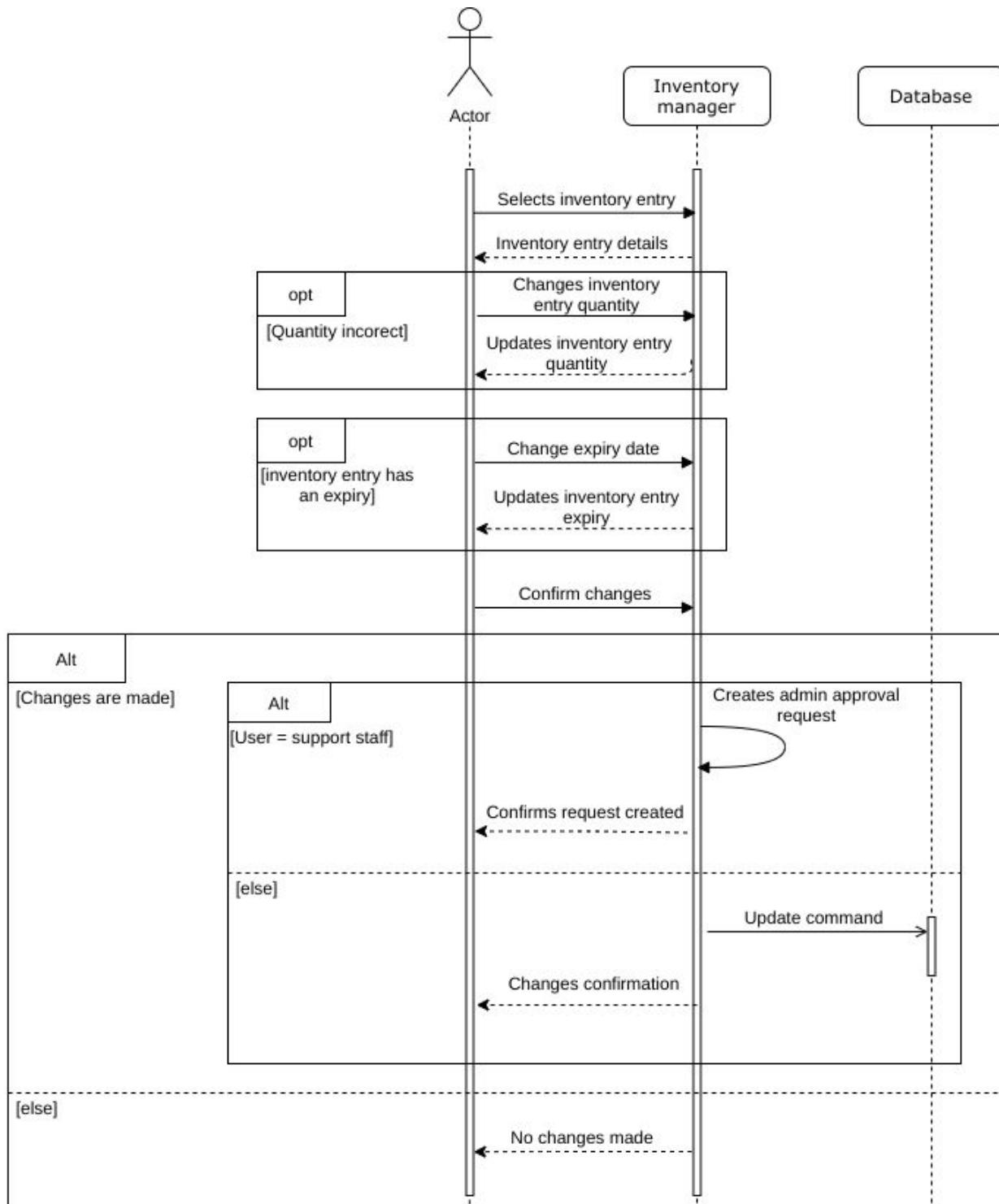


Figure 3.1.4 Modify Item Sequence Diagram

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.

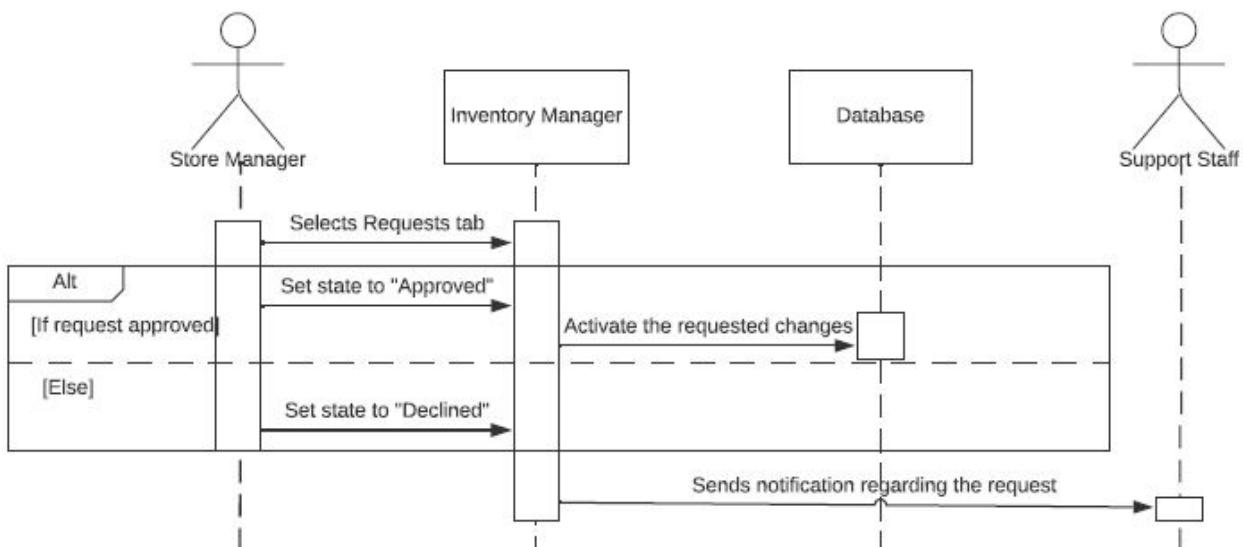


Figure 3.1.6 Admin Approval Sequence Diagram

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.

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

REQ-2-3: Products removed from inventory through scanning must be categorized under either Expired or Damaged.

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

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

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

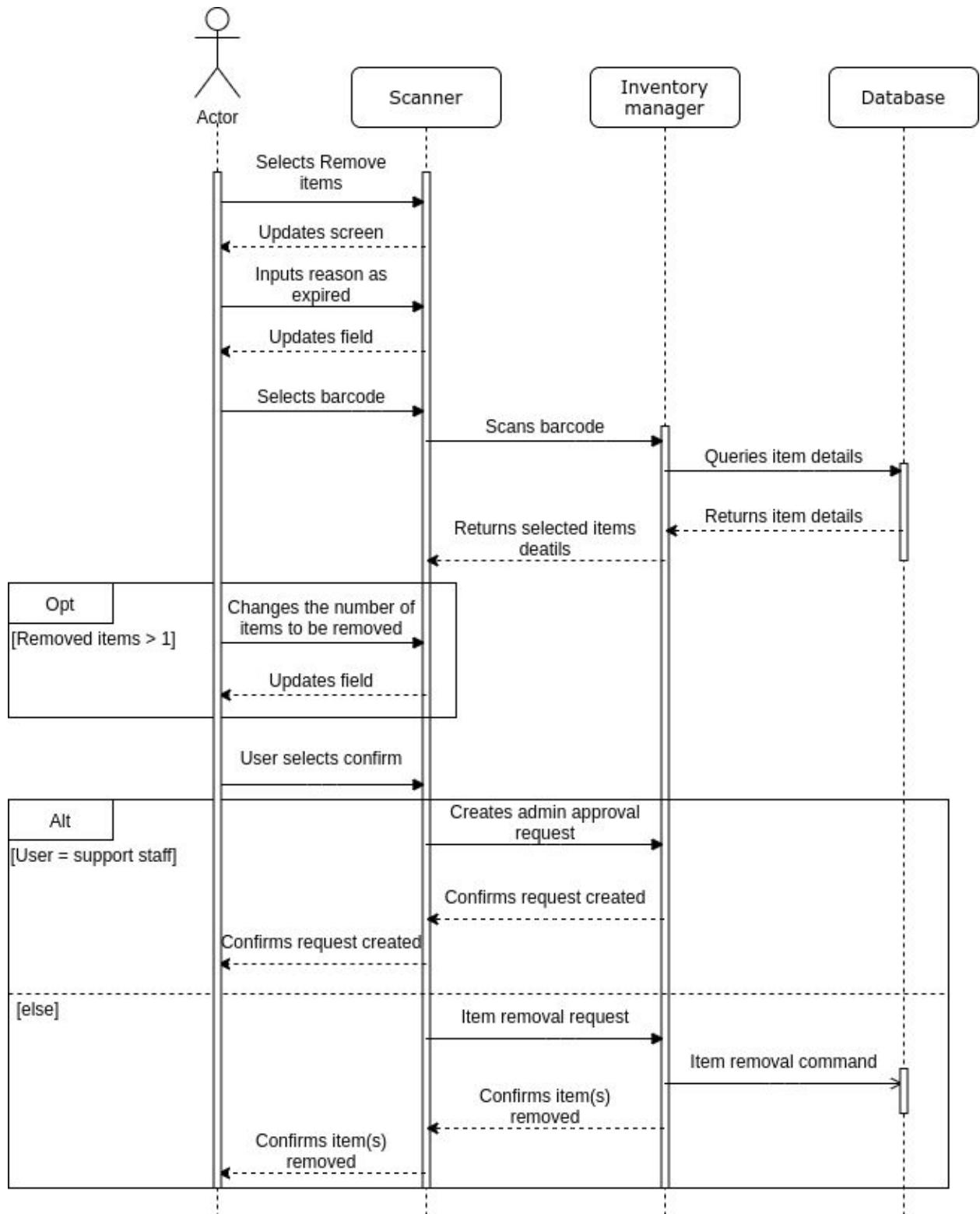


Figure 3.2.1 Scanning Out Expired Item Sequence Diagram

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>

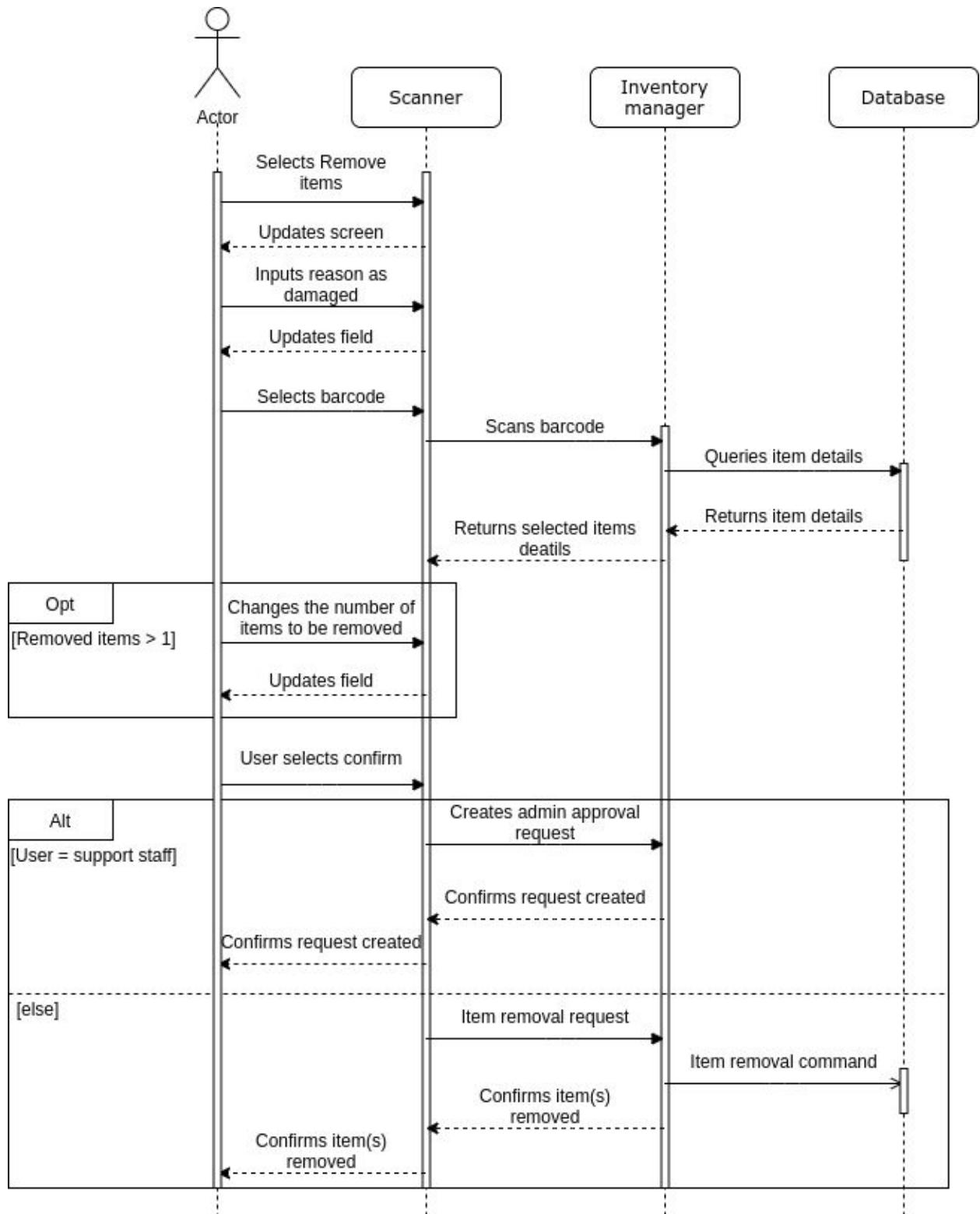


Figure 3.2.2 Scanning Out Damaged Item Sequence Diagram

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.

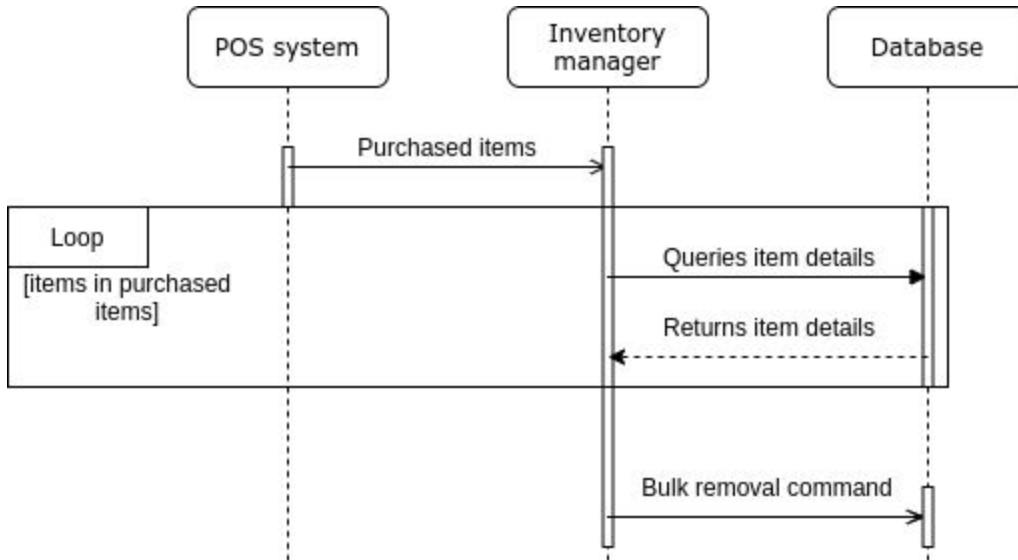


Figure 3.2.3 Remove Sold Item Sequence Diagram

3.3 Manage Orders

3.3.1 Description and Priority

The manage order 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.

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.

REQ-3-3: The estimated arrival date of a product that has been ordered must be indicated on the product's information page, visible to all users.

REQ-3-4: The store manager must be able to manually change the order arrival date in the order summary to improve accuracy. This will help during inventory and discrepancy checks.

REQ-3-5: All the order summaries created will be accessible to the store managers in a section called Order History.

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

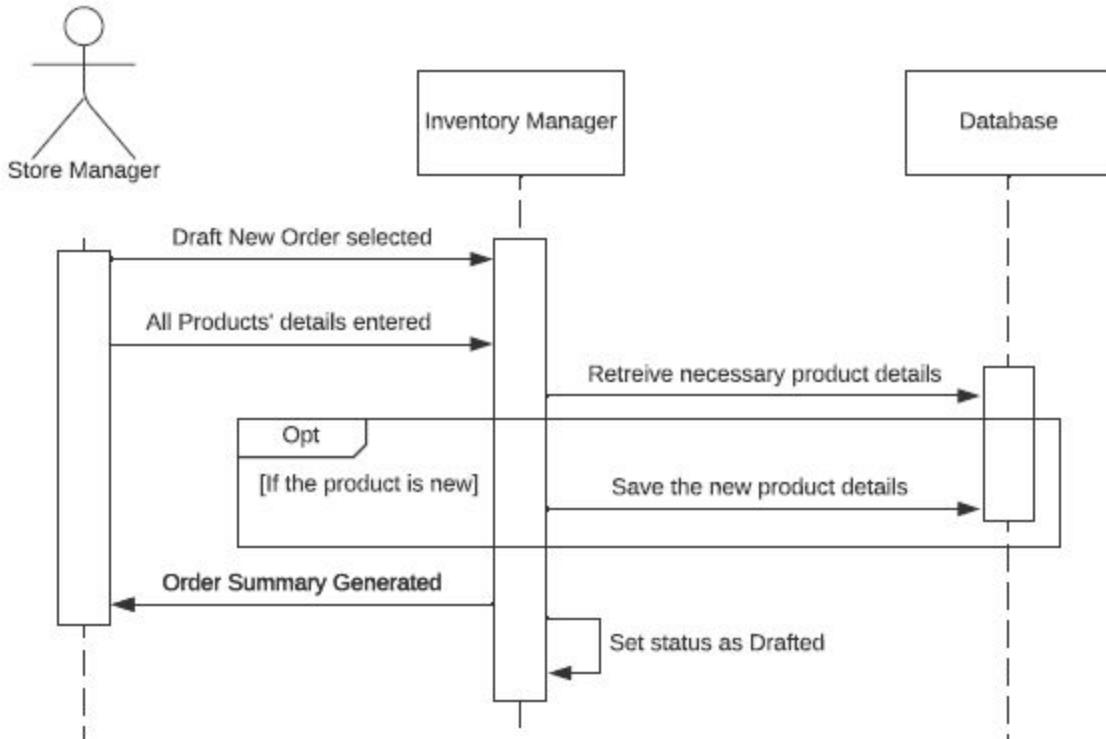


Figure 3.3.1 Draft New Order Sequence Diagram

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.
<p>Main Flow:</p> <ol style="list-style-type: none"> 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, then <ol style="list-style-type: none"> 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

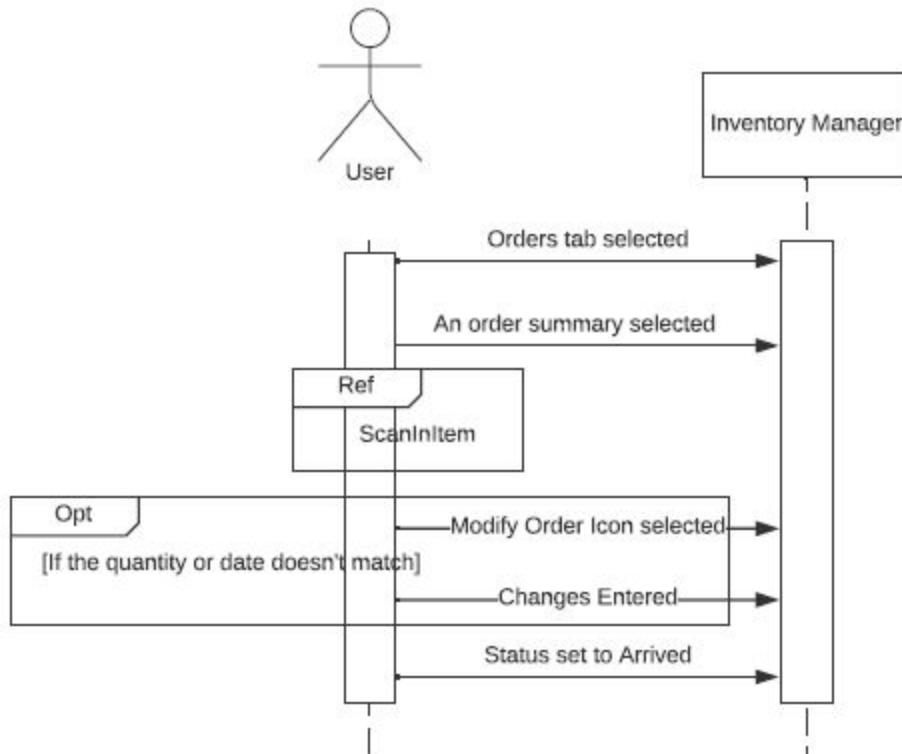


Figure 3.3.2 Intake Order Sequence Diagram

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

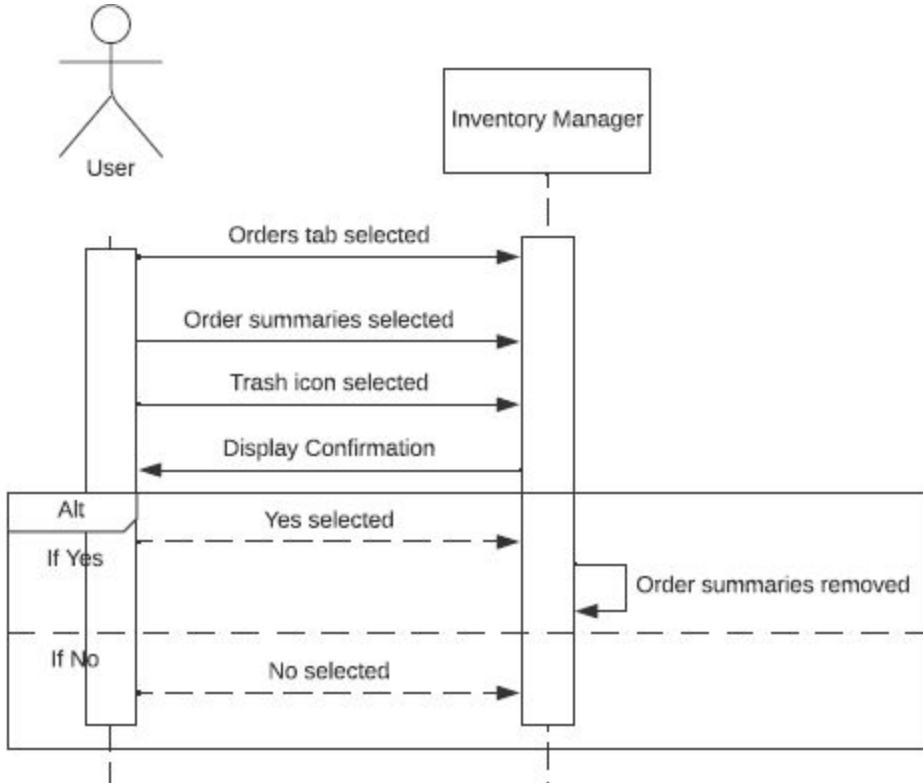


Figure 3.3.3 Delete Order Summary Sequence Diagram

3.4 Manage discrepancies - Discrepancy Sniffer

3.4.1 Description and Priority

The system with the responsibility of alerting the ordering 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 Sections 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.

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

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

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

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<ol style="list-style-type: none">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

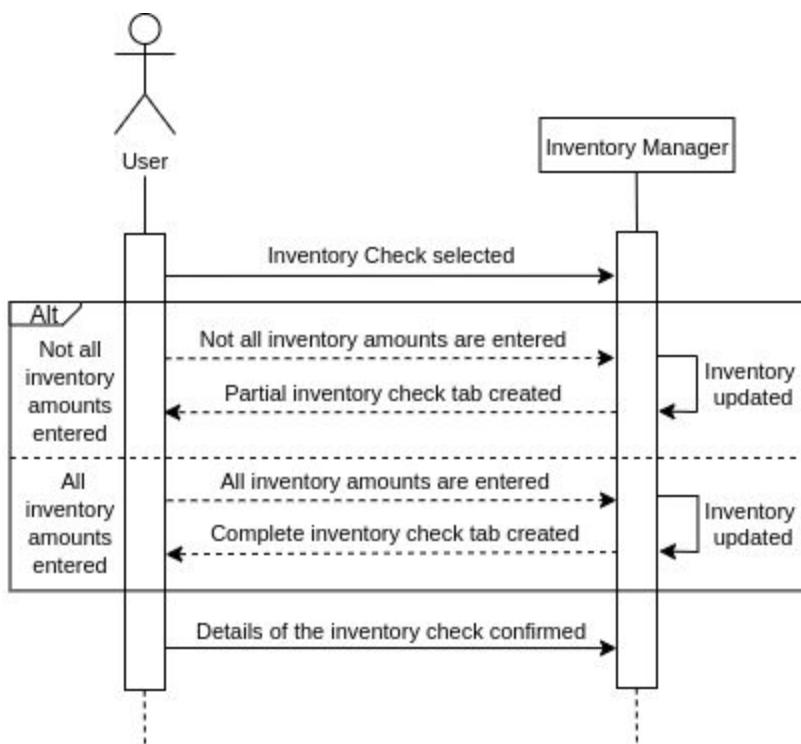


Figure 3.4.1 Complete Inventory Check Sequence Diagram

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: <ol style="list-style-type: none"> 1. The user selects “Completed Inventory Checks”. 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 <ol style="list-style-type: none"> 5.1. Include(AdminApproval).
Postconditions: The Inventory Check history is updated.
Alternative Flow(s): 4 b) Cancel

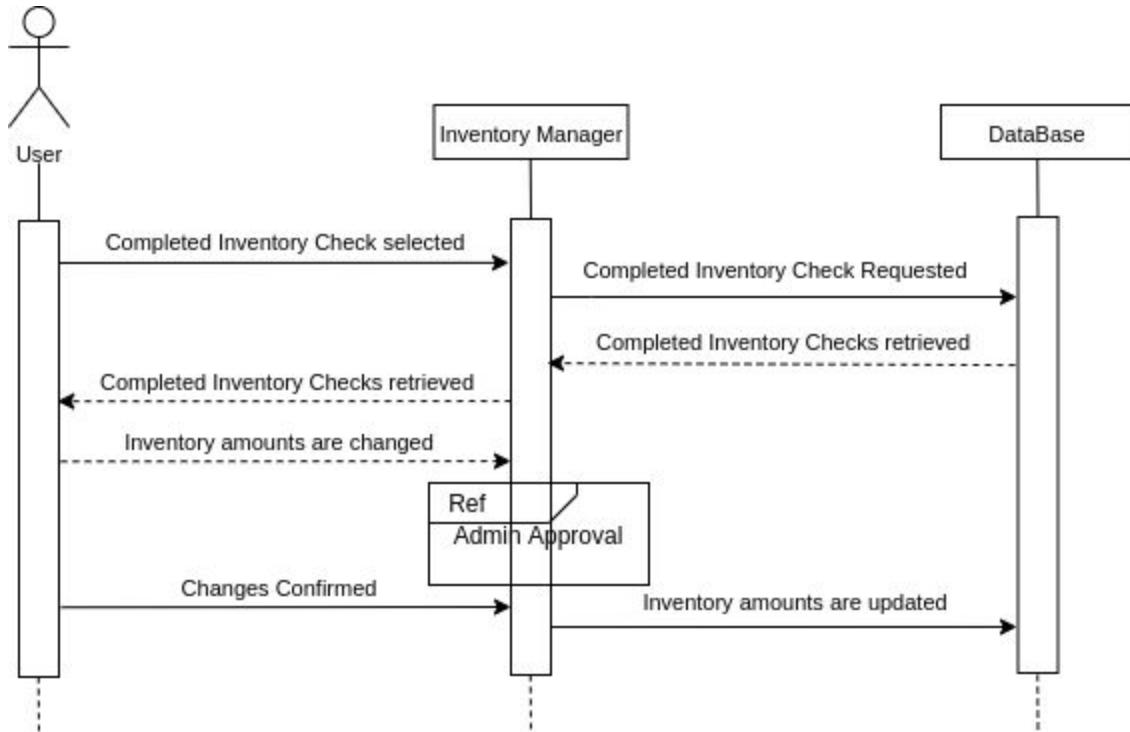


Figure 3.4.2 Modify Inventory Check Sequence Diagram

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:	<ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 4.1. Include(AdminApproval).
Postconditions:	The Inventory Check history is updated.
Alternative Flow(s):	4.1 b) Cancel

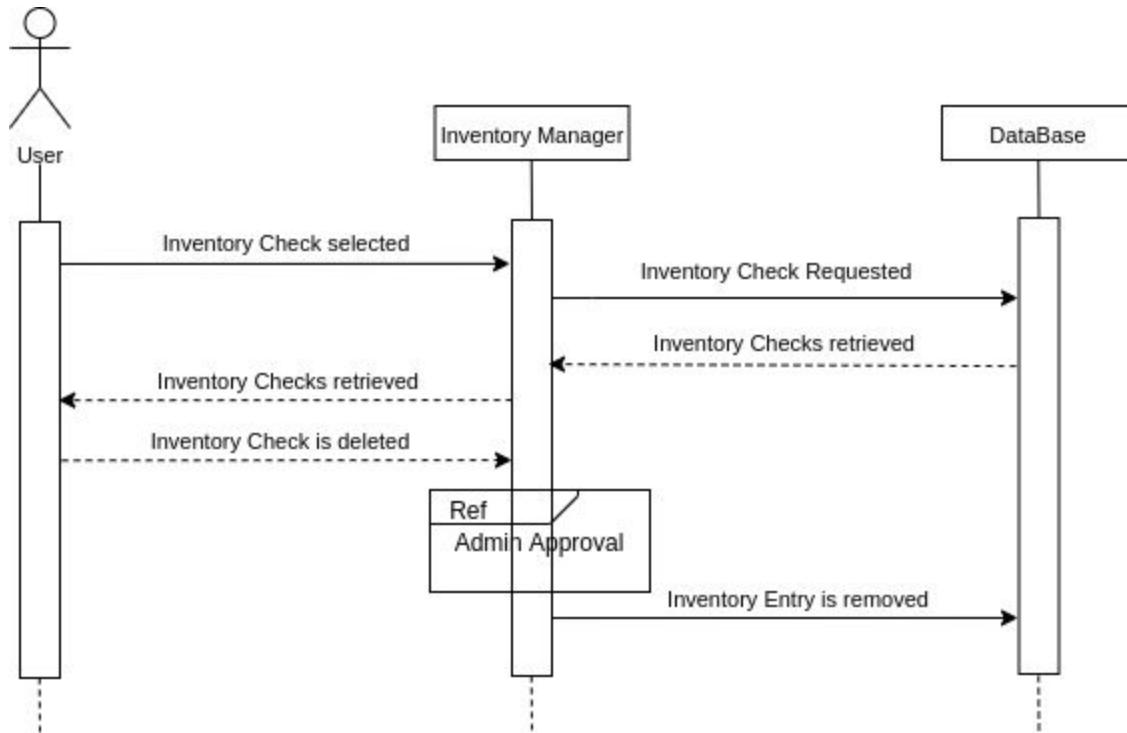


Figure 3.4.3 Delete Inventory Check Sequence Diagram

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: <ol style="list-style-type: none"> 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.

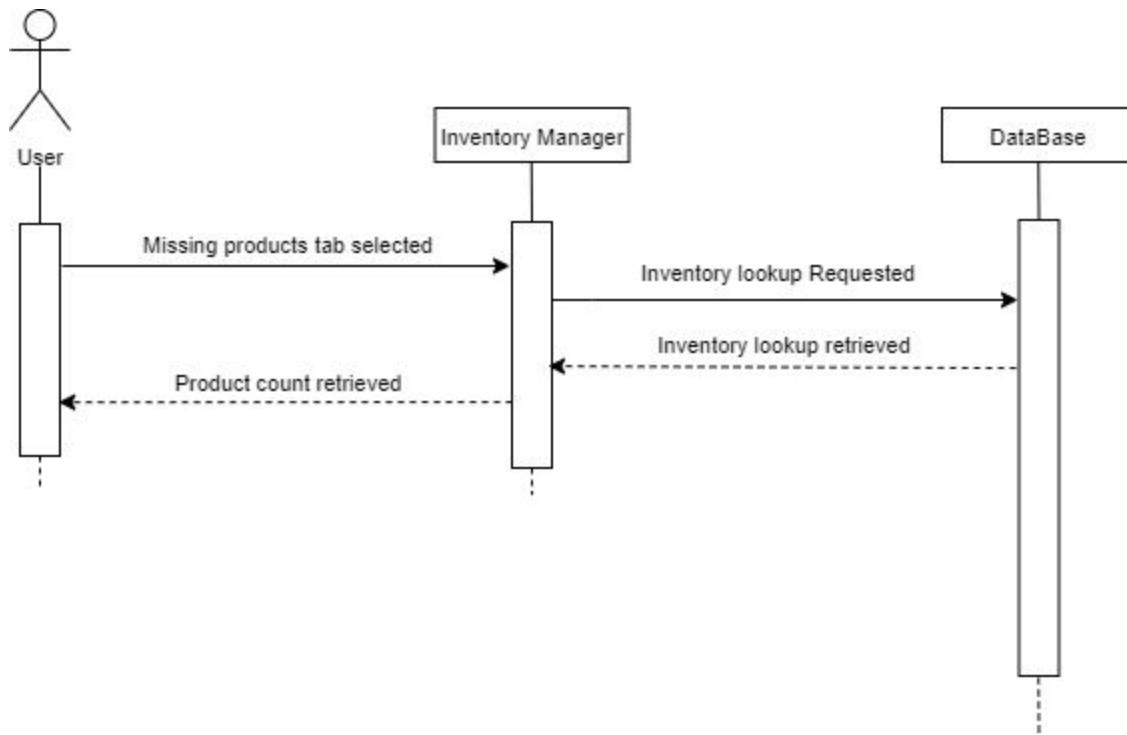


Figure 3.4.4 Discrepancies Found Sequence Diagram

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.

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

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

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:	
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 moved to the “Expired” tab.	
Alternative Flow(s): None.	

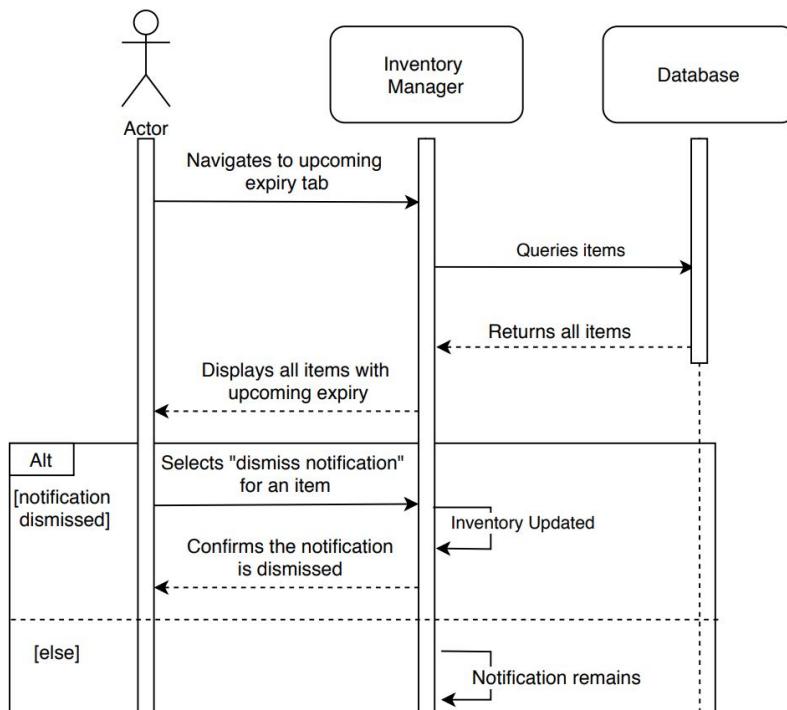


Figure 3.5.1 Upcoming Expiry Notification Sequence Diagram

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:

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:
 - 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.

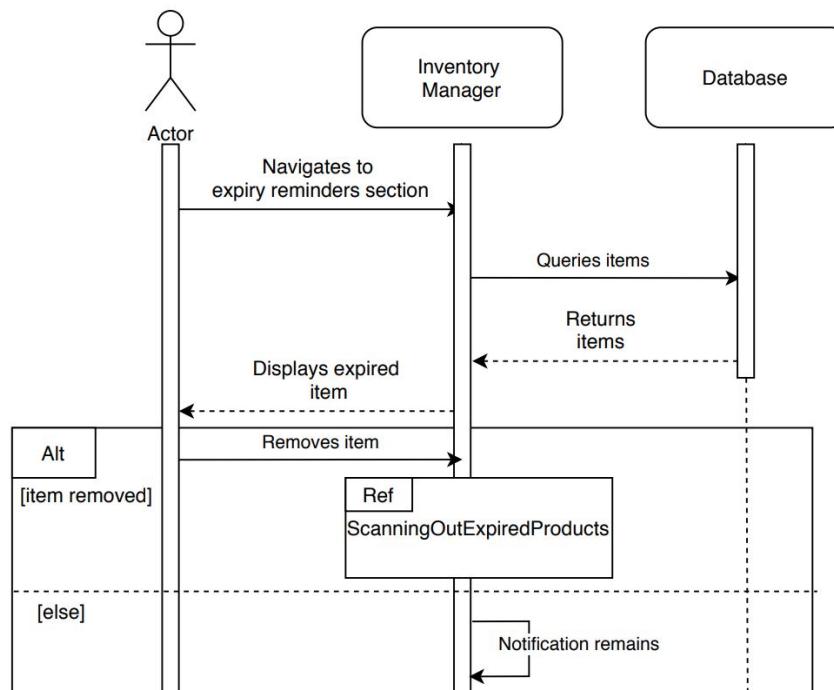


Figure 3.5.2 Expired Item Notification Sequence Diagram

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.

REQ-6-2: Users will be able to sort the inventory view by keyword, expiry date, or a section.

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

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

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.

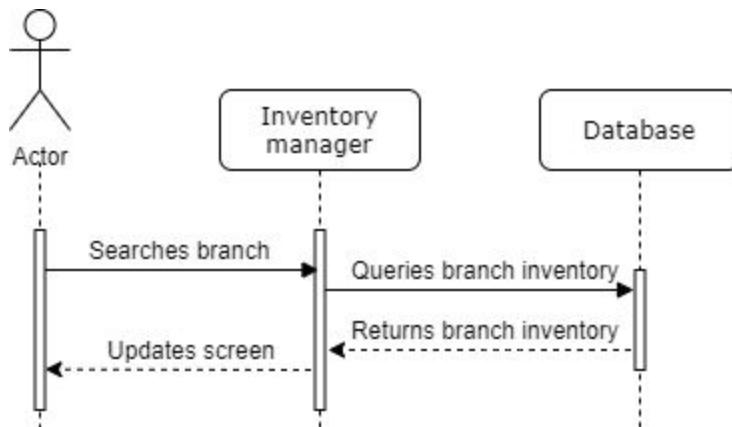


Figure 3.6.1 Select Branch Sequence Diagram

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:	<ol style="list-style-type: none"> 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.

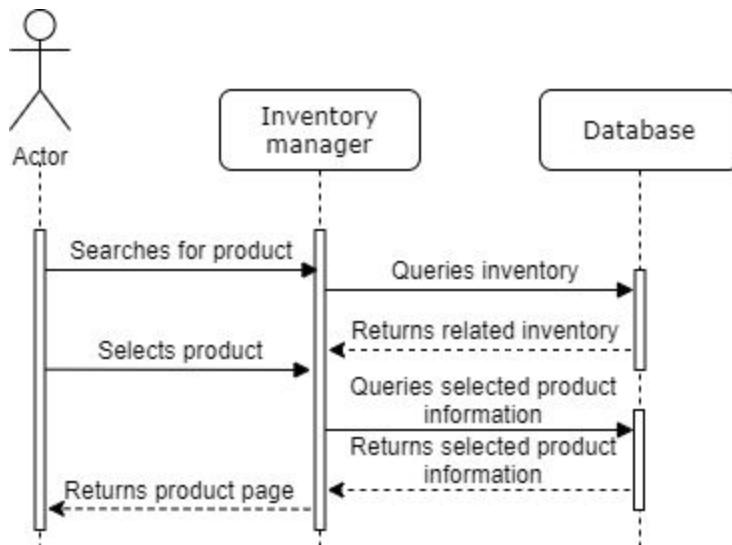


Figure 3.6.2 View Inventory Sequence Diagram

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

The web-based application places a heavy emphasis on mobile hardware that requires a touch-screen style input, where a user will be able to interact with the application through standardized digit motions across the device's screen. However, desktop users are expected to use the application as well, thereby necessitating standard mouse and keyboard input. Upon starting the application, the user will be required to log in through the company website. Two separate user types, store managers and support staff will have slightly varied options. Store managers will be able to draft orders to distributors through the application as well as change prices. The support staff will only be able to enter and view inventory/product information into the store database. A "menu" button will allow easy switching between windows. To scan information from product shelves/shipments, the user will hit a button from the app to bring up the scanner. The user will scan-in the barcode which automatically populates the product page with the appropriate information. The user will make any additions or changes where appropriate. The UI will avoid the use of colors to convey context. Additionally, larger buttons will be implemented as part of the standard UI to accommodate the members of Kevin's Convenience Corner with physical disabilities.

4.2 Hardware Interfaces

The application is web-based and focuses on mobile devices with a functional scanner peripheral. Desktop access will share the same features and UI. Navigation through the application will be accessible through touch-screen interface or, if on desktop, mouse, and keyboard. The device must also be able to maintain a constant internet connection to allow for real-time updating of the inventory database. However, in the event of an internet connection being unavailable, the application will require access to the device's local storage to ensure user input is maintained. Data entered will be uploaded as soon as a connection becomes available.

4.3 Software Interfaces

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.

4.3.1 Product Scanning

Upon entering the scanning menu, the user will press a button to prompt the scanning functionality. The user will scan the product's barcode whereby the software will bring up the appropriate product from the database. The scanning menu will close automatically, and barcode information will auto-populate the product's information page. The user will be able to manually enter data for fields where information is unavailable or inaccurate (expiry, quantity, etc.). Once the user submits the completed page, the application will upload the new product information to the inventory database and display an empty product page.

4.3.2 Inventory Management

The application will connect to the inventory database whereby the user will be able to scroll through product data tables containing immediately pertinent information. Inventories of alternate stores are viewable through a menu. A product search function via manually entering key terms or through a product scanner will be available to the user. Should the user wish to investigate the details of a product further, they can either touch or double click on the product of interest to bring up the product page. End of day inventory checks will identify discrepancies and notify management.

4.3.3 Product Ordering and Tracking

Order numbers, distributor, and estimated delivery dates will be summarized and displayed in a data table like that displayed in 4.3.2 (Inventory Management). Creating a new order or modifying an existing order requires the user to either touch or double click on the create new order button/order of interest to bring up the order information page. The user will be able to manually change all data except 'communication history' on this page should they have the appropriate administrative privileges. Due to the inability to interact with distributor databases, the quality of information on this page will be the responsibility of the user. Should the distributor

have an associated email that accepts product orders, the user will be able to email the pdf directly to the company's email. The email will have a new message composed containing a pdf copy of the order in addition to the distributor's email auto populated. Once sent, the page will return to the orders data table containing a newly populated date of last communication.

4.4 Communications Interfaces

The application will have a constant internet connection to maintain real-time database management as well as access to the device's local storage for temporary storage should the event of an internet connection failure occur. Additionally, the application will require direct access to both the third-party POS system and inventory databases to ensure logged inventory and prices are maintained in real-time. Interaction with the company website and email is required for security, product ordering, and tracking features. The ability to print specific pages of interest requires a connection to a local network printer.

5 Other Non-Functional Requirements

5.1 Performance Requirements

The system will be capable of handling a request such as summarizing an inventory report with up to 5000 varying products. Each listed product will contain an associated count as well as any other pertinent information. Requests of this size are likely to occur every time the system is used and must be responsive within 500 ms. When edits are being made by the user, the system will be capable of updating the database within 100 ms. 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. The store is open up to 128 hours a week, requiring round-the-clock runtimes. Therefore, the application should be run and tested for 140 hours before release.

5.2 Safety Requirements

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

5.3 Security Requirements

Access to data is restricted to the employees of Kevin's Convenience Store. This may be implemented using a login feature. The login feature will require staff to enter their user ID and password for authentication. Financial security is of low concern as the current POS system prevents access to payment information. This system will only convey product sales. The system must have a daily end-of-day scan for any bugs and vulnerabilities. If any unusual activity is discovered, the store manager and an Inventoria security engineer will be notified with the error type. In addition to the error type, Inventoria's security engineer will receive a detailed

event history to better address the issue. The system will also be subjected to regular system updates.

5.4 Software Quality Attributes

Our system is concerned with three primary quality attributes:

Accessibility - The system must be accessible for physically disabled employees as well as support for color blindness.

Learnability - Since the system simplifies the current procedure for the employees, the system must be learned by the employees within one workday.

Scalability - The system must be able to accommodate and integrate the databases of new branches, as the company expands.

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)

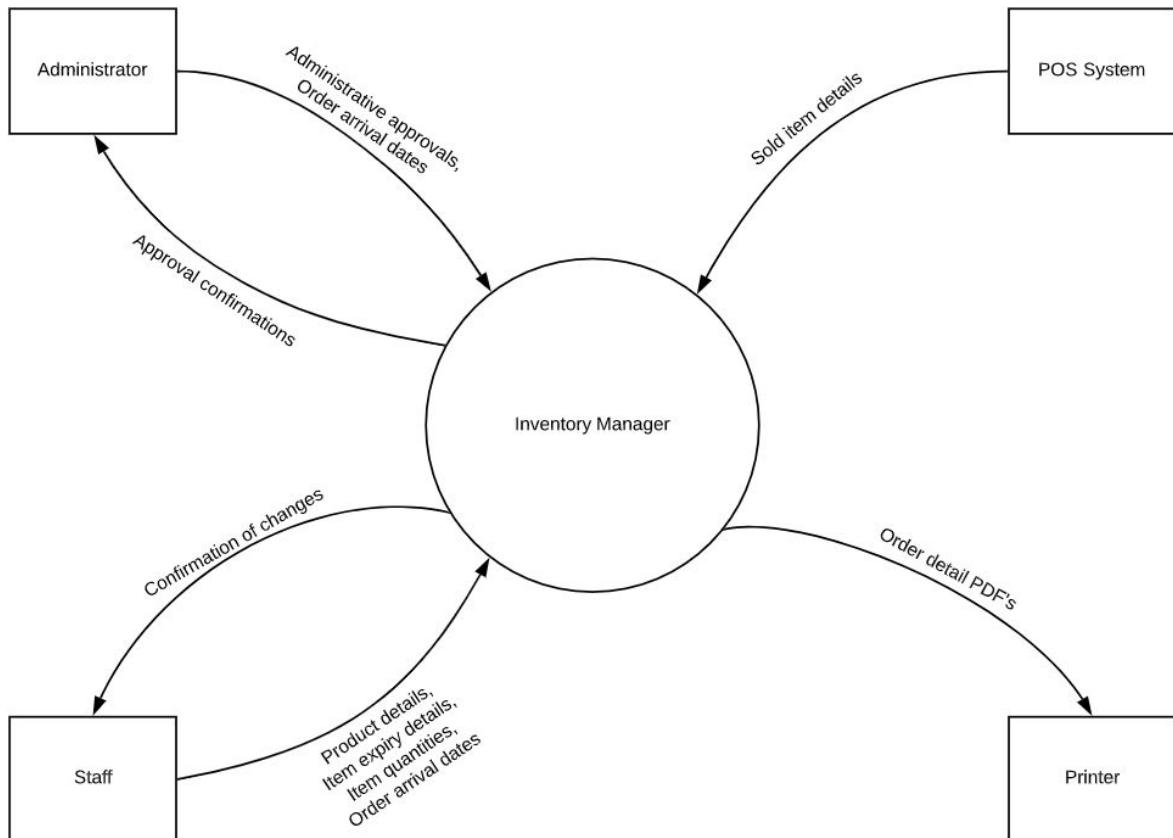


Figure 6.1.1 Context Diagram:

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

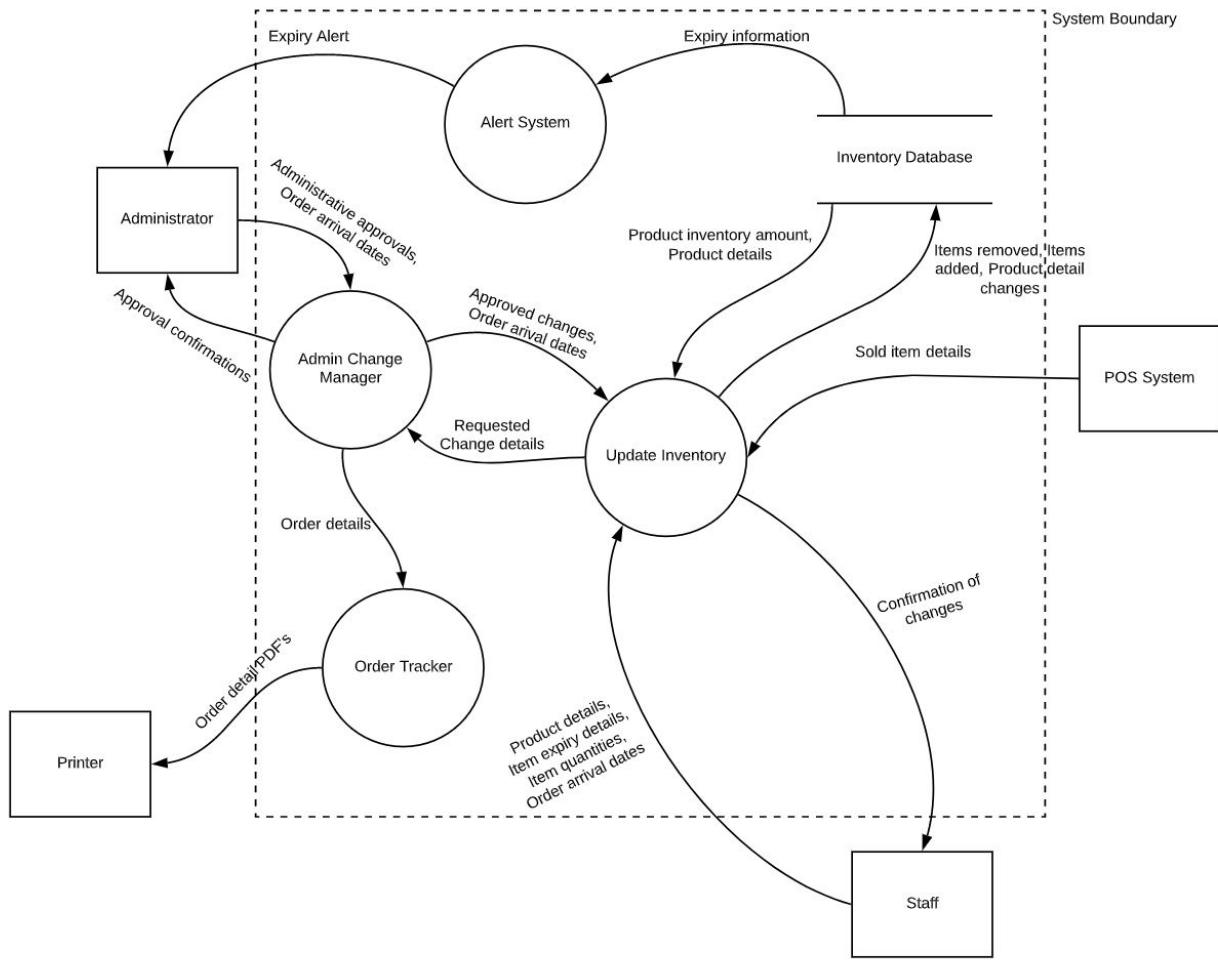


Figure 6.2.1 DFD Level 1:

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

6.3 DFD Level 2

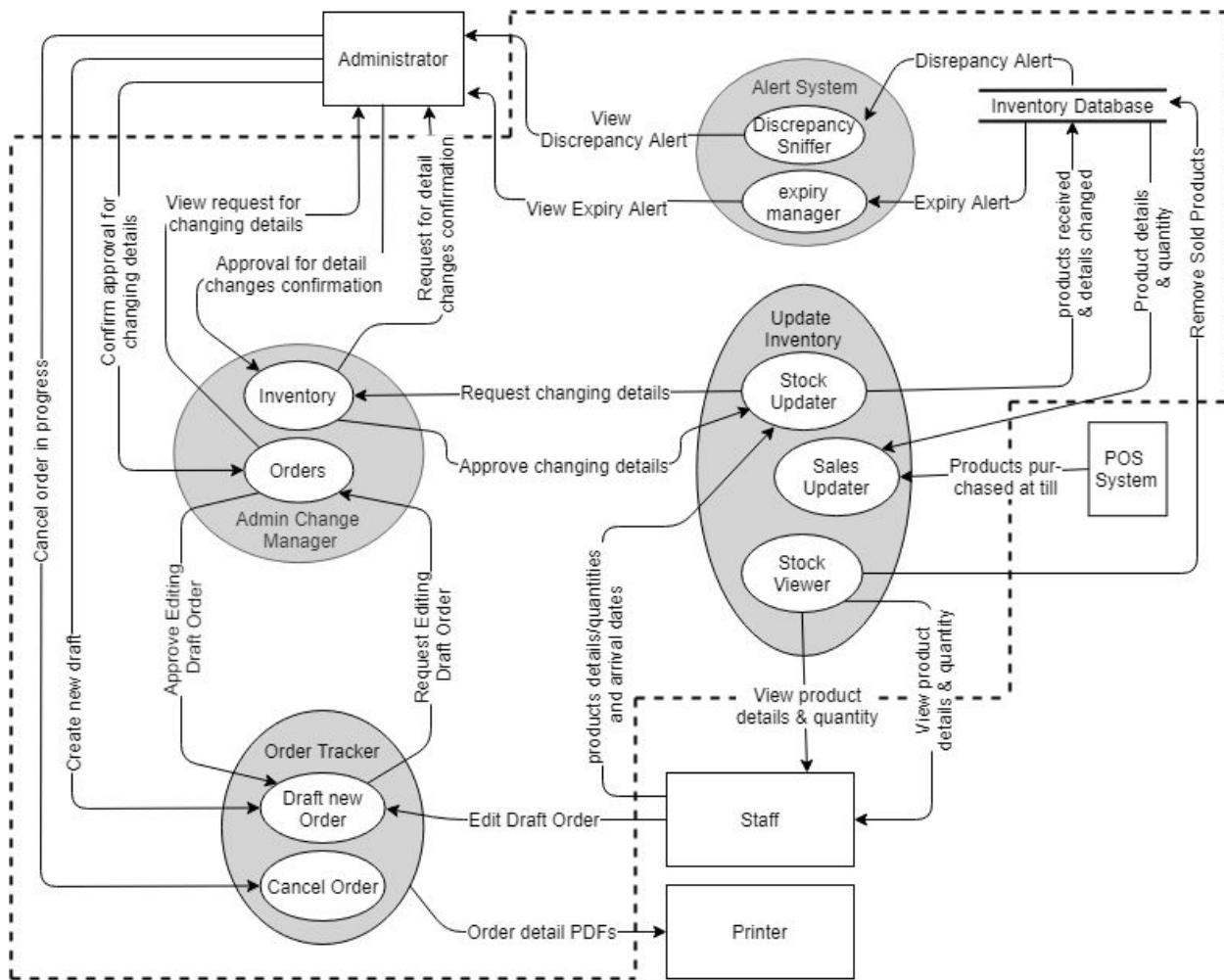


Figure 6.3.1 DFD Level 2:

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

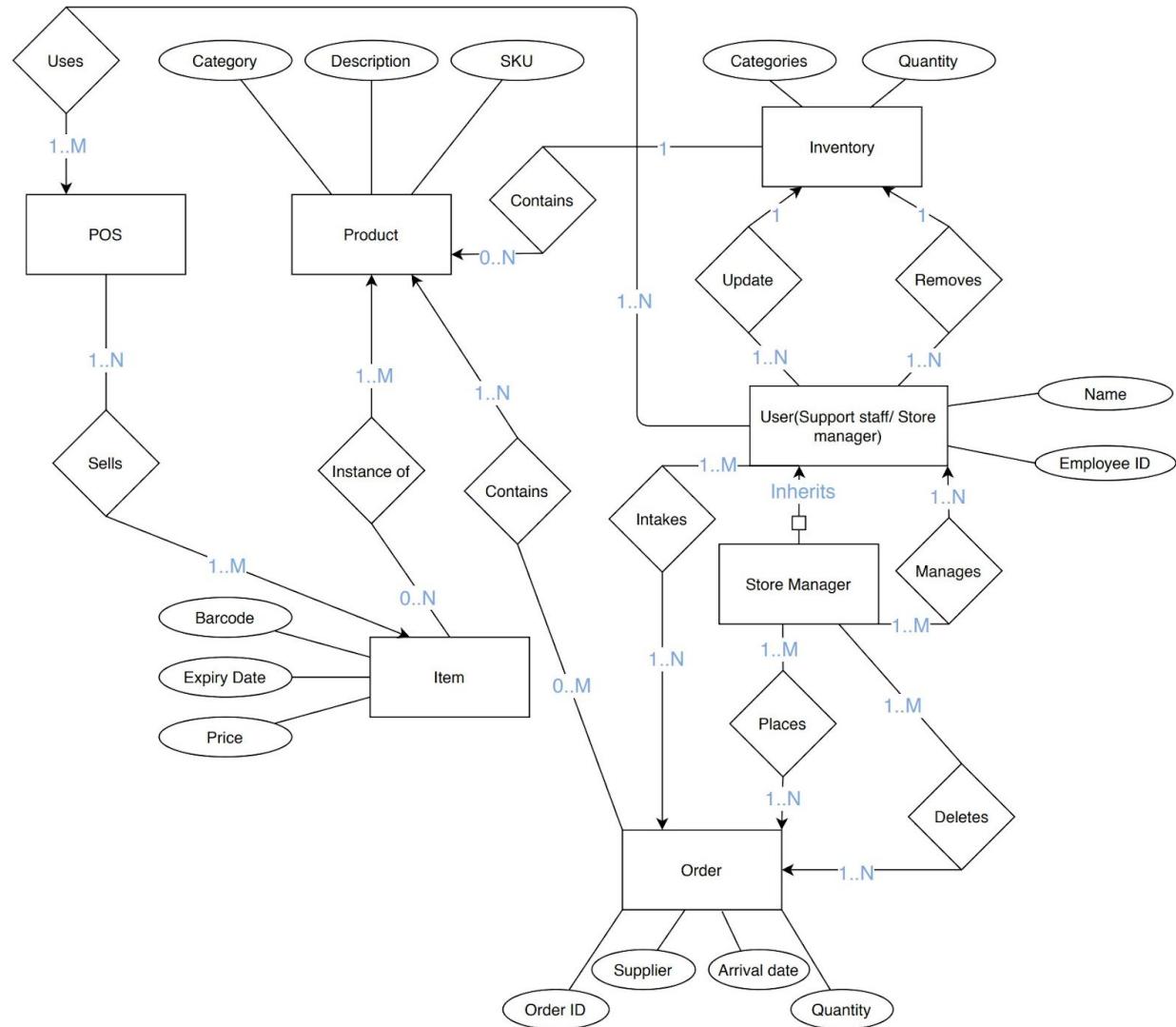


Figure 7.1.1 Entity-Relationship Diagram

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 in nature, 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. In addition, to support for 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**.

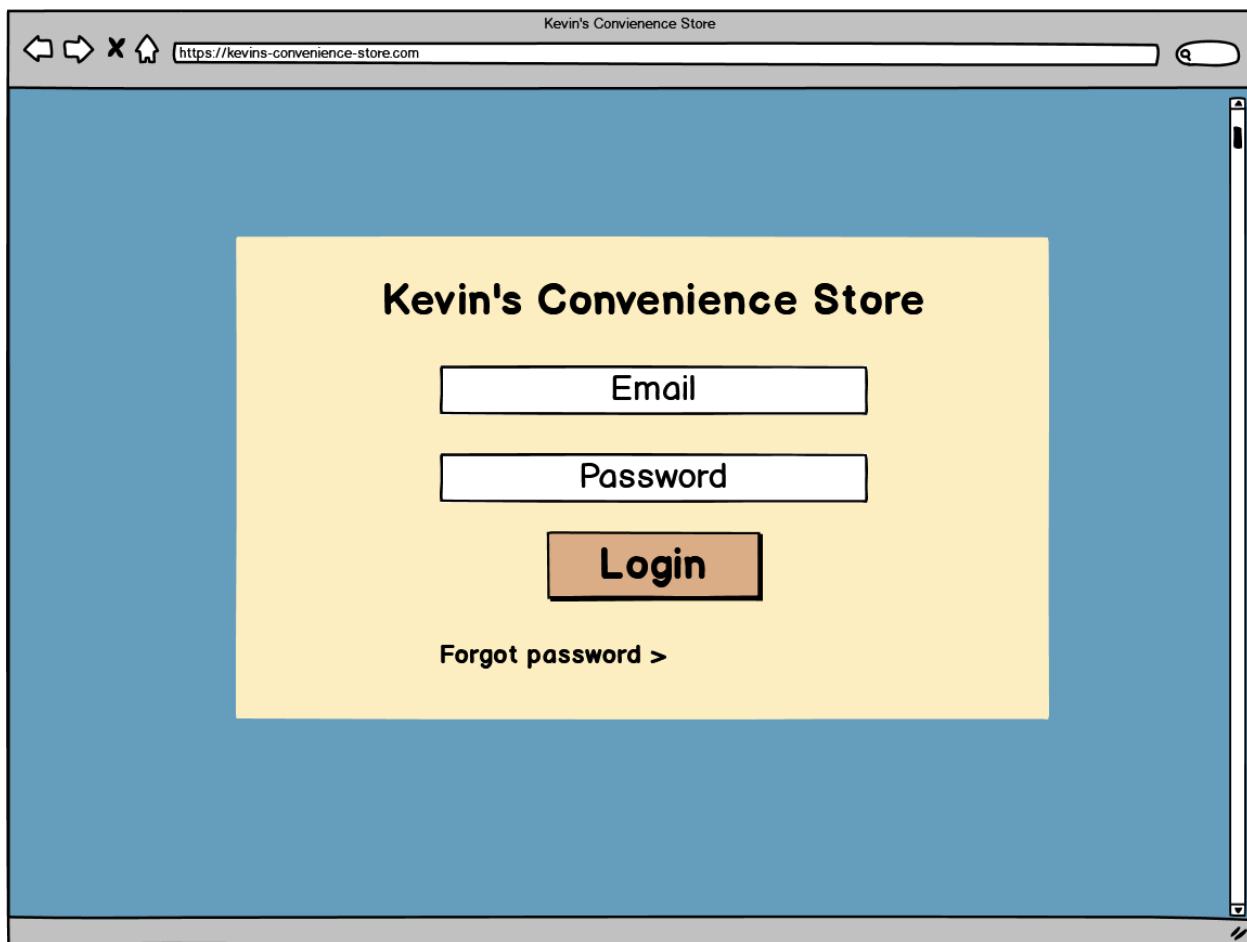


Figure 8.1.2 Login Page

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.

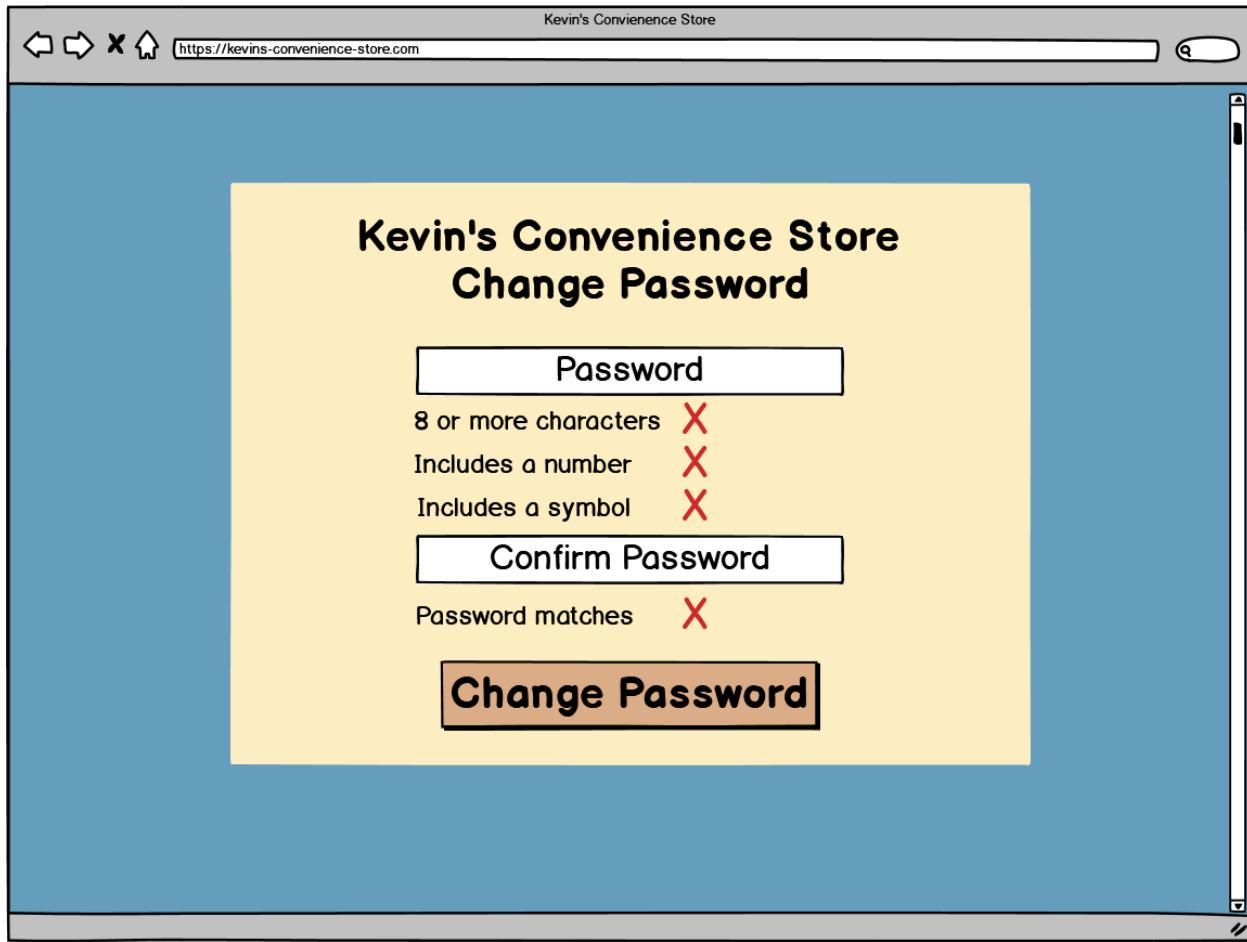


Figure 8.1.4 Change Password

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 screenshot shows a web-based dashboard for 'Kevin's Convenience Store'. The top navigation bar includes a back button, forward button, refresh button, and a URL field showing 'https://kevins-convenience-store.com'. The title 'Kevin's Convenience Store' is centered above a search bar with placeholder 'Search for a product' and a barcode search icon. A user profile for 'Alvin' is visible on the right. The left sidebar, titled 'Dashboard', contains links for 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', and 'Requests'. The main content area displays an inventory table with columns: Name, Description, Quantity, Category, and Price. The table lists various items including different types of milk (1% and 2% in 1L, 2L, and 4L containers) and other products like Apples, Bananas, Potatoes, Advil, and Tylenol. The inventory table has a total of 12 rows. At the bottom of the table are navigation buttons for page control.

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

Figure 8.1.5.1 Support Staff Dashboard

This screenshot shows the same dashboard structure as Figure 8.1.5.1, but with a different sidebar navigation. The sidebar now includes 'Admin' (with a dropdown arrow), 'Requests', 'User Management', and 'Discrepancies'. The rest of the interface, including the title, search bar, and inventory table, remains identical to the first screenshot. The inventory table also contains 12 rows of product information.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13	Dairy	\$4.75
Apple	Growers farm	28	Produce	\$2.75/LB
Banana	Growers farm	18	Produce	\$1.75/LB
Potato	Growers farm	38	Produce	\$1.95/LB
Advil	No-name 300 mg/100	37	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32	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 in this product page. To navigate to this page, select a product in the Dashboard and its respective product page will be presented.

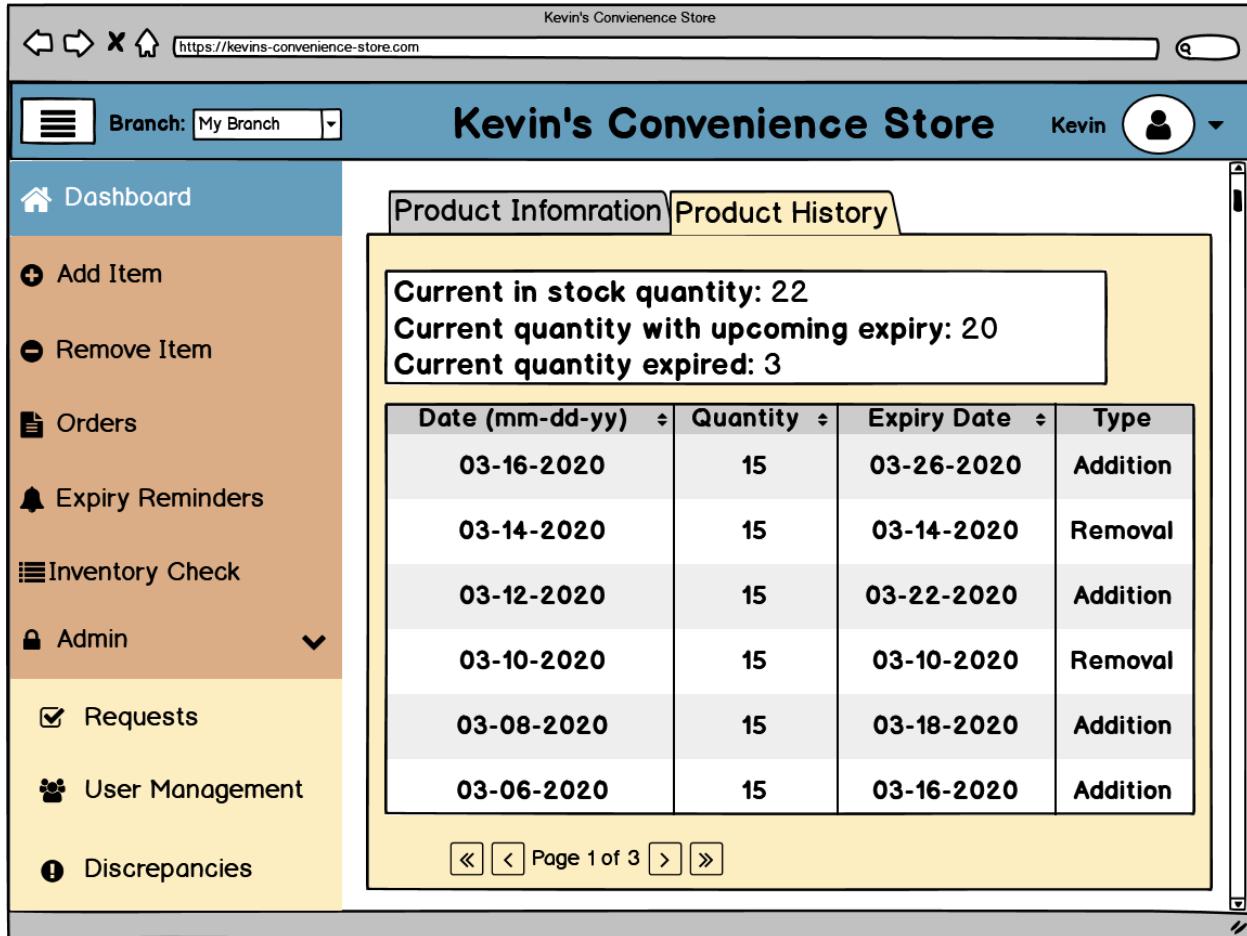
The screenshot shows a web browser window for 'Kevin's Convenience Store' at the URL <https://kevins-convenience-store.com>. The page has a blue header bar with the store name and a user profile for 'Kevin'. A navigation sidebar on the left includes links for Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with dropdown), Requests, User Management, and Discrepancies. The main content area is titled 'Product Details' and displays a product card for 'Dairyland 1% milk'. The product card includes a thumbnail image of the milk carton, a 'Modify Product' button, and a 'Remove Product' button. To the right of the card is a table with the following data:

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

Figure 8.1.6 Product Details

8.1.7 Product History

A products history including quantities, additions, and removals is shown in 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 interface. The top navigation bar includes a back button, forward button, close button, and a URL bar showing <https://kevins-convenience-store.com>. The main header is "Kevin's Convenience Store" with a user profile for "Kevin". On the left, a sidebar menu lists: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with dropdown), Requests, User Management, and Discrepancies. The "Product History" tab is selected in the center navigation. A summary box displays: Current in stock quantity: 22, Current quantity with upcoming expiry: 20, and Current quantity expired: 3. Below is a table of historical stock movements:

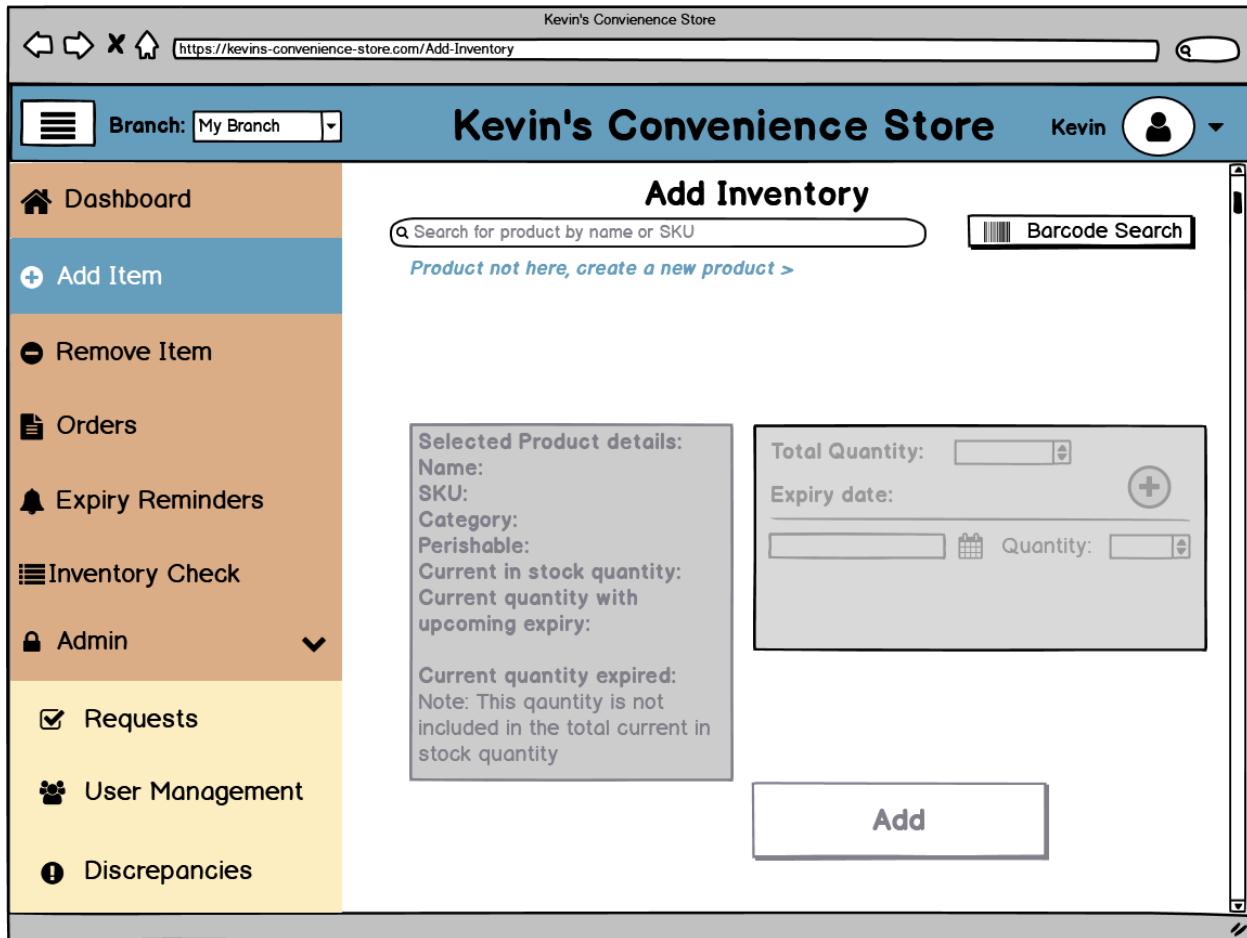
Date (mm-dd-yy)	Quantity	Expiry Date	Type
03-16-2020	15	03-26-2020	Addition
03-14-2020	15	03-14-2020	Removal
03-12-2020	15	03-22-2020	Addition
03-10-2020	15	03-10-2020	Removal
03-08-2020	15	03-18-2020	Addition
03-06-2020	15	03-16-2020	Addition

Pagination controls at the bottom indicate "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, entering the product name, category, or SKU. After finding a product the user may enter the quantity of the item and the expiry date.

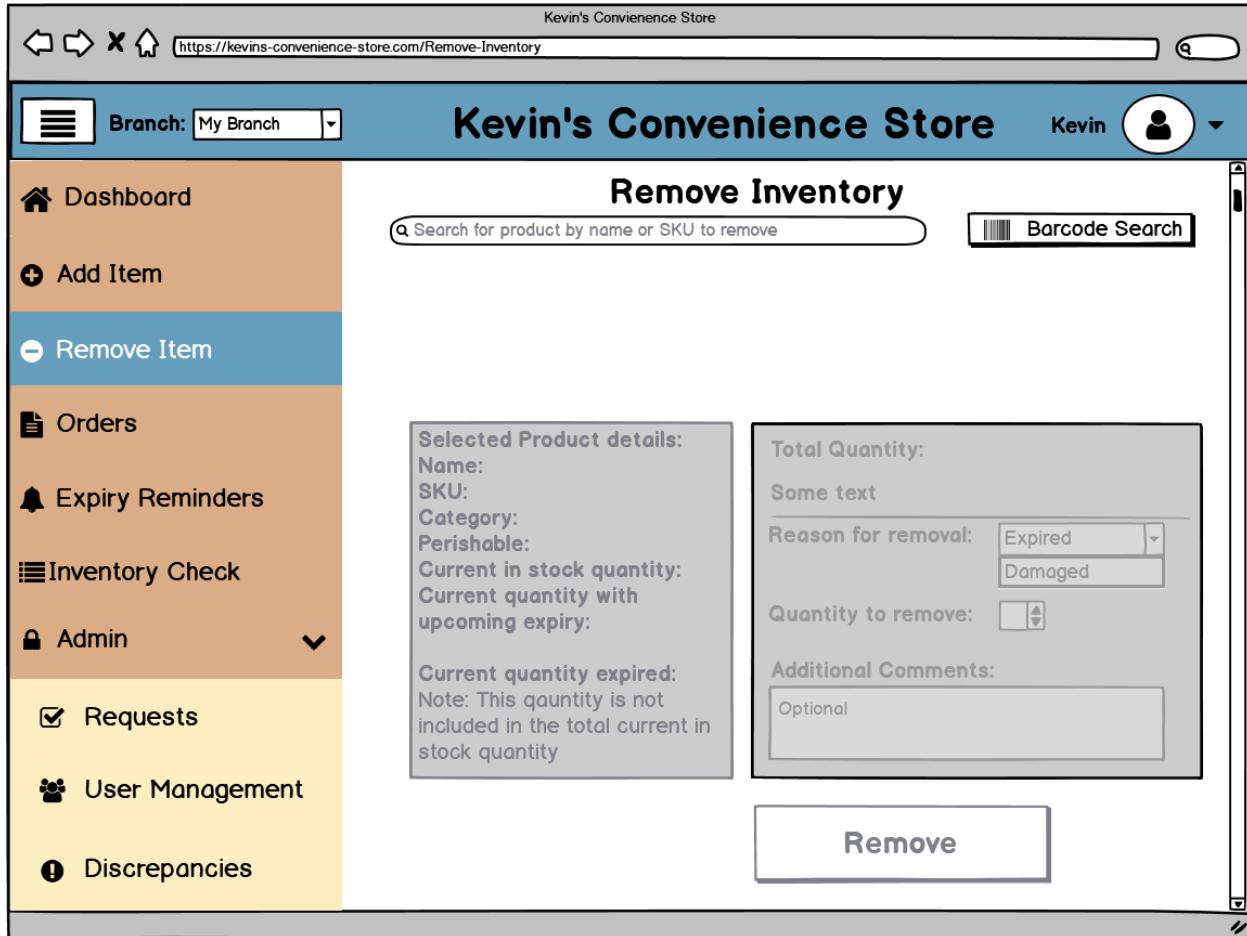


The screenshot shows the 'Add Inventory' page of the Kevin's Convenience Store application. The left sidebar has a 'Branch: My Branch' dropdown and links for Dashboard, Add Item (selected), Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with Requests, User Management, and Discrepancies),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

Total Quantity:

Some text

Reason for removal:

Quantity to remove:

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 'Order History' section of the Kevin's Convenience Store web application. The left sidebar has 'Orders' selected. The main area displays a table of order summaries with columns for Date, Cost (\$), Status, and Select. A search bar and a '+ Intake Order' button are also present.

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 'Order History' section, but the left sidebar includes 'Admin' and 'User Management' under a dropdown menu, and 'Discrepancies' is listed at the bottom. The '+ Intake Order' button has been replaced by a 'Draft New Order' button with associated icons.

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"/>

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.

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

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

The main area is titled "Expiry" and contains a table with the following data:

Item	Quantity	Expiry Date	Days until expiry	Dismiss
3.25 % milk 4L	25	03-12-2020	3 days	
RG Apples	30	03-11-2020	2 days	
Banana Bunch	12	03-11-2020	2 days	
1 % Milk 1L	15	03-12-2020	3 days	

A search bar at the top right says "Search by item, date, or quantity".

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 8.2.5**.

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 highlighted in blue), 'Inventory Check', and an 'Admin' dropdown menu with 'Requests', 'User Management', and 'Discrepancies'. The main content area is titled 'Expiry' and shows a table of items. The table has columns: Item, Quantity, Expiry Date, Time Since Expiry, and Remove Item. The table data is as follows:

Item	Quantity	Expiry Date	Time Since Expiry	Remove Item
2.5 % Milk 2L	25	03-08-2020	1 day(s)	Remove Item
Blueberries	20	03-07-2020	2 day(s)	Remove Item
Banana Bunch	12	03-08-2020	1 day(s)	Remove Item
Strawberries	15	03-04-2020	5 day(s)	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' dashboard. On the left sidebar, under the 'Inventory Check' section, 'Admin' is selected. Below it, 'Requests' is checked, while 'User Management' and 'Discrepancies' are unchecked. The main content area is titled 'Inventory Check History' and displays a table with two rows of data. The table columns are: Order Summary, Date (mm-dd-yy), Status, Employee, and Select. The data is as follows:

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"/>

Figure 8.2.13 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.

The screenshot shows a web browser window for "Kevin's Convenience Store". The left sidebar has a "Requests" section selected. The main content 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 selected, which includes a "Requests" section. The main content 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.

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

- Dashboard
- Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Admin
- Requests** (selected, indicated by a blue background)
- User Management
- Discrepancies

The main content area has a blue header bar with the store name "Kevin's Convenience Store" and a user profile for "Kevin". Below the header is a navigation bar with tabs: All Requests, Approved Requests (selected, highlighted in blue), Declined Requests, and Pending Requests. The main content is a table titled "Requests" with the following data:

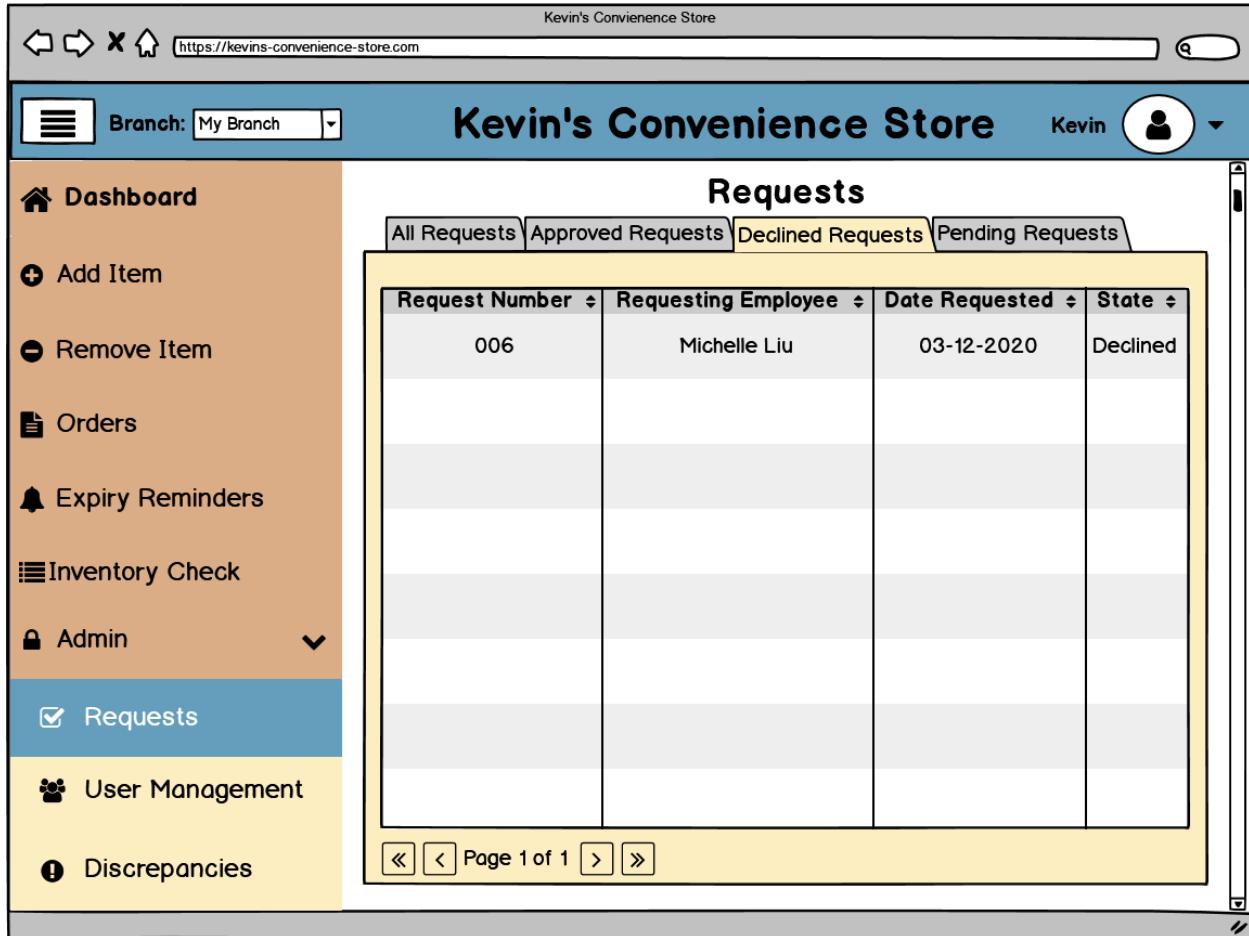
Request Number	Requesting Employee	Date Requested	State
001	Luke Hobbs	03-01-2020	Approved
002	Luke Hobbs	03-03-2020	Approved
003	Mathew Crab	03-05-2020	Approved
004	Michelle Liu	03-06-2020	Approved
005	Luke Hobbs	03-07-2020	Approved
007	Michelle Liu	03-16-2020	Approved

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

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.



The screenshot shows the Kevin's Convenience Store software interface. The left sidebar has a brown background with various menu items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (selected), Requests (selected), User Management, and Discrepancies. The main content area has a blue header with the store name and a user profile for Kevin. Below the header is a navigation bar with tabs: All Requests, Approved Requests, Declined Requests (selected), and Pending Requests. A table titled 'Requests' displays one row of data:

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

At the bottom of the main content area, there are navigation buttons: <<, <, 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.

The screenshot shows the Kevin's Convenience Store dashboard. On the left, there is a sidebar with various menu items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (selected), Requests (selected), User Management, and Discrepancies. The main content area is titled "Requests" and shows a table with one row of data. The table has columns for Request Number, Requesting Employee, Date Requested, and State. The data in the table is:

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

At the bottom of the table, there are navigation buttons: <<, <, Page 1 of 1, >, >>. The URL in the browser bar is https://kevins-convenience-store.com.

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 contains a table of employee data. The table has columns for Name, Job Title, Preferred name, Employee ID, and Options (with delete and edit icons). 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	
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.

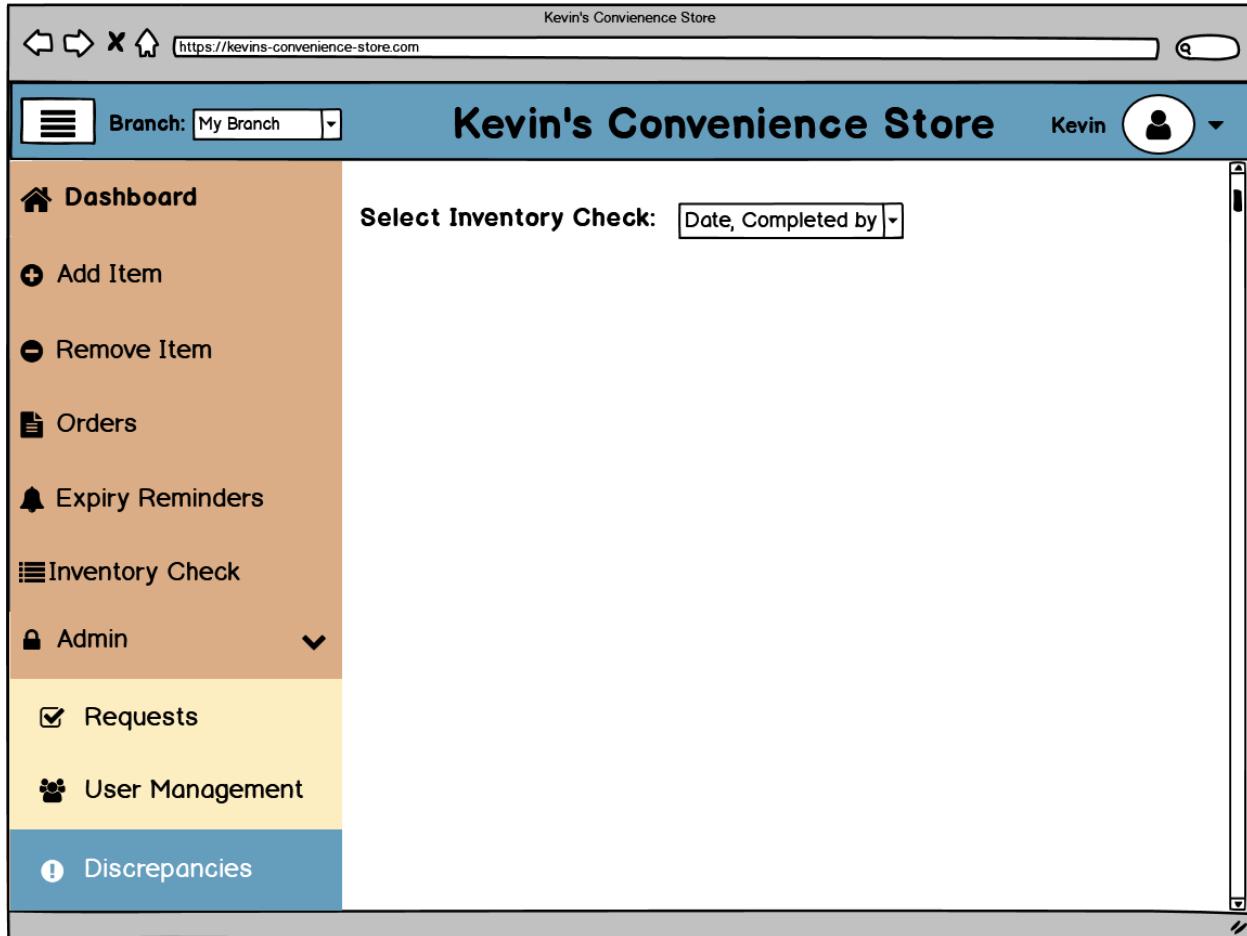


Figure 8.1.19 Discrepancies page

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.

Kevin's Convenience Store
Account Creation

Password

8 or more characters

Includes a number

Includes a symbol

Confirm Password

Password matches

Phone Number

Create

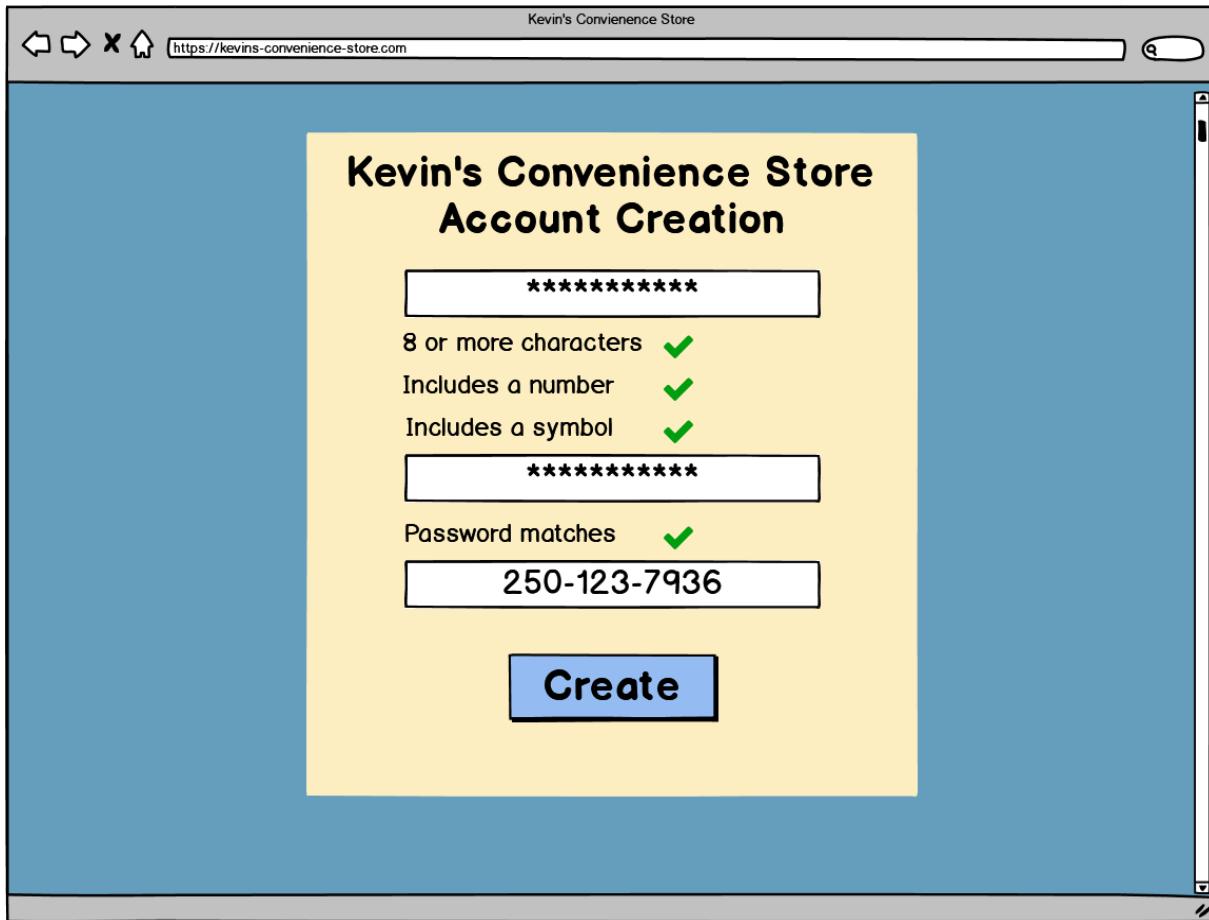


Figure 8.2.1 Create an Account

8.2.2 Login

The user enters their account information to login to the Information Management System.

The image consists of two vertically stacked screenshots of a web browser window. Both screenshots show the same login page for "Kevin's Convenience Store".

Screenshot 1 (Top): This shows the initial state of the login form. It contains three fields: a white input field labeled "Email", a white input field labeled "Password", and a brown rectangular button labeled "Login". Below the "Email" field is a small black link that says "Forgot password >". The browser's address bar at the top shows the URL <https://kevins-convenience-store.com>.

Screenshot 2 (Bottom): This shows the state of the login form after the user has entered their credentials. The "Email" field now contains the text "Alvin@gmail.com". The "Password" field contains a series of asterisks ("*****"). The "Login" button has turned blue. The "Forgot password >" link remains visible below the "Email" field. The browser's address bar still shows the URL <https://kevins-convenience-store.com>.

Kevin's Convenience Store

https://kevins-convenience-store.com

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

« < Page 1 of 9 > »

The screenshot shows a web-based application for managing a convenience store. The top navigation bar includes a back button, forward button, refresh button, close button, and a search bar with the URL https://kevins-convenience-store.com. The title 'Kevin's Convenience Store' is displayed prominently. A user profile for 'Alvin' is shown on the right. The left sidebar, titled 'Dashboard', contains links for 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', and 'Requests'. The main content area features a search bar and a barcode search button. Below these is a table listing products with columns for Name, Description, Quantity, Category, and Price. The table includes ten rows of data, with the first row being the header. At the bottom of the table is a page navigation bar with icons for '«', '<', 'Page 1 of 9', '>', and '»'.

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

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 'Change Password' form on a blue background. The top screenshot shows validation errors, while the bottom screenshot shows validation successes.

Top Screenshot (Validation Errors):

- Input field: Password
- Validation message: 8 or more characters X
- Validation message: Includes a number X
- Validation message: Includes a symbol X
- Input field: Confirm Password
- Validation message: Password matches X
- Large button: Change Password

Bottom Screenshot (Validation Successes):

- Input field: Password (filled with asterisks: ******)
- Validation message: 8 or more characters ✓
- Validation message: Includes a number ✓
- Validation message: Includes a symbol ✓
- Input field: Confirm Password (filled with asterisks: ******)
- Validation message: Password matches ✓
- Large button: Change Password

Figure 8.2.3 Recovering the Users password

8.2.4 Create a Product

In order 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' (selected), 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', 'Admin' (with dropdown), 'Requests' (with checked checkbox), 'User Management', and 'Discrepancies'. The main area has a search bar ('Search for product by name or SKU') and a 'Barcode Search' button. A message says 'Product not here, create a new product >'. To the right, a box displays 'Selected Product details:' with fields for Name, SKU, Category, Perishable, Current in stock quantity, Current quantity with upcoming expiry, and Current quantity expired. Below this is a note: 'Note: This quantity is not included in the total current in stock quantity'. At the bottom is an 'Add' button.

The screenshot shows the 'Add Inventory' page with the 'Create a New Product' dialog box open. The dialog contains fields for 'Name' (text input), 'Description' (text input), 'Category' (dropdown menu with options: Select, Dairy, Produce, Household supplies, Dry goods, Pharmacy, Other), 'SKU' (text input), 'Generate unique SKU' (button), 'Quantity' (text input), 'Expiry notification time frame' (dropdown menu with options: Days, Weeks), and 'Cancel' and 'Create' buttons. The sidebar and main interface are identical to the first screenshot.

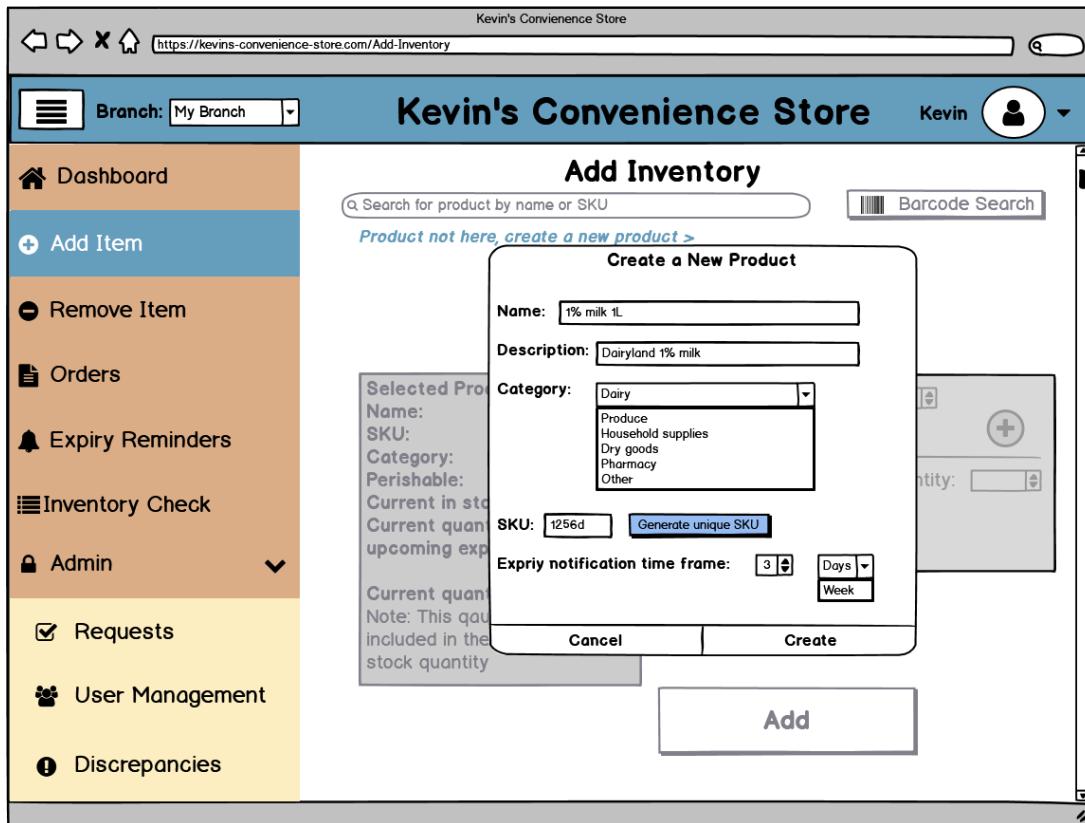
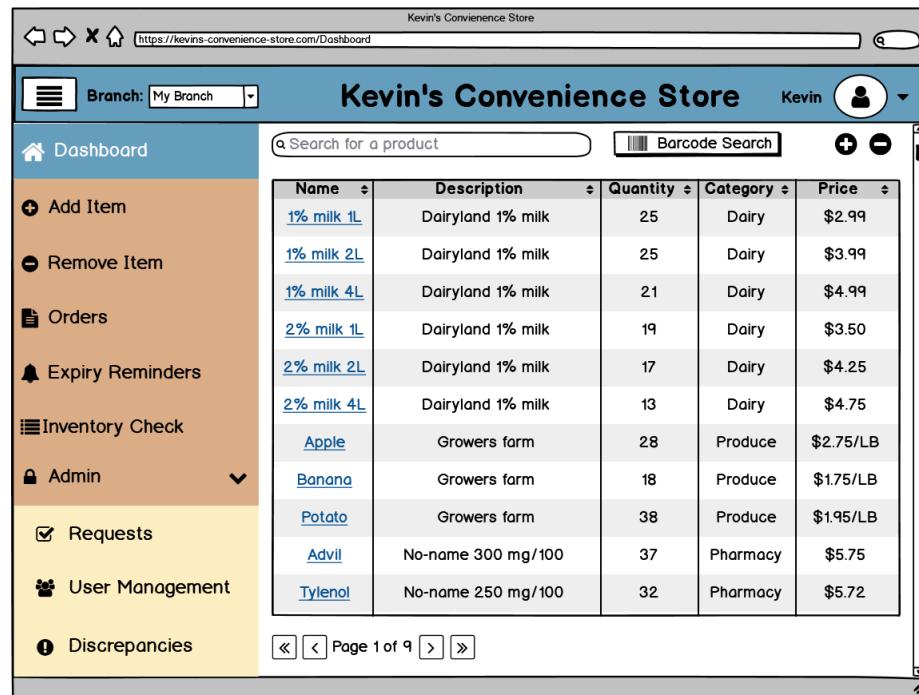


Figure 8.2.4.1 Add a Product

8.2.5 Remove a Product

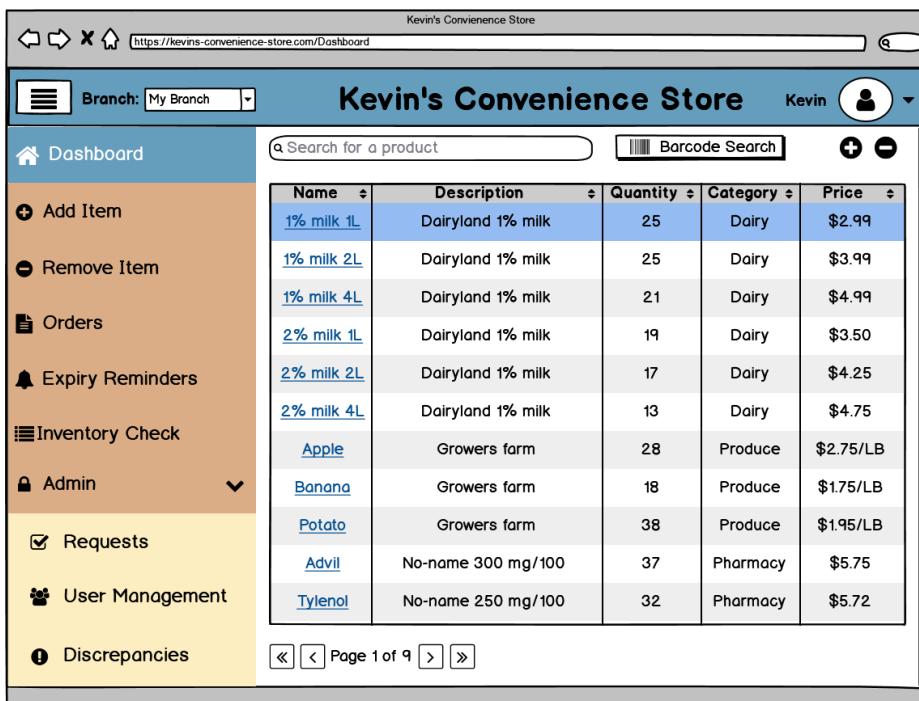
The user navigates to the product page by selecting or searching for the product in the dashboard. The user selects “remove product” and is prompted to confirm the product’s removal. If the product is being removed by support staff, they will be prompted to create a request to remove the product. The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



This screenshot shows the Kevin's Convenience Store dashboard. The left sidebar contains navigation links: Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin (with dropdown), Requests (selected), User Management, and Discrepancies. The main area displays a table of products with columns: Name, Description, Quantity, Category, and Price. The table includes rows for various items like milk, produce, and pharmaceuticals.

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

Page 1 of 9 < > >>



This screenshot shows the Kevin's Convenience Store dashboard, identical to the one above but with a specific row highlighted in blue. The highlighted row corresponds to the '1% milk 1L' entry in the previous screenshot. The rest of the interface and data are the same.

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

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Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Dashboard

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

Requests
User Management
Discrepancies

Product Infomration Product History

Product Details

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

Modify Product
Remove Product

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Dashboard

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

Requests
User Management
Discrepancies

Product Infomration Product History

Product Details

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

Modify Product
Remove Product

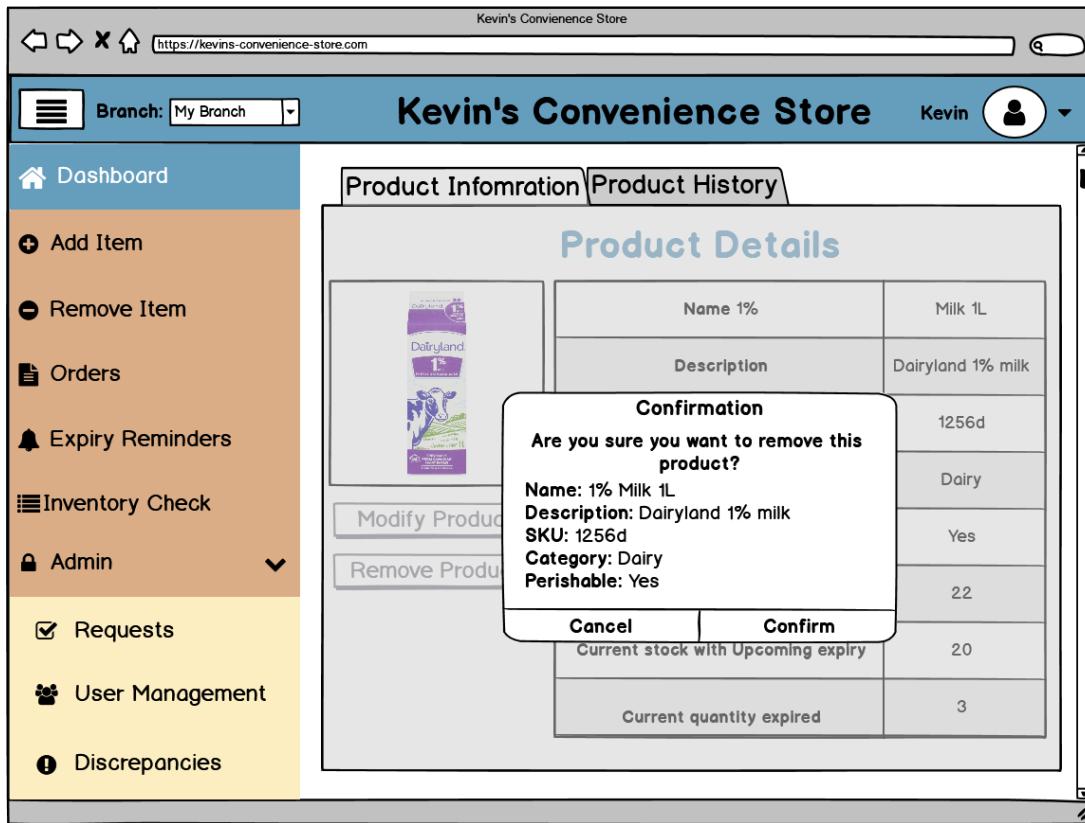


Figure 8.2.5.1 Store Manager Removing a Product

Kevin's Convenience Store																																																																
Dashboard	<input type="text" value="Search for a product"/> <input type="button" value="Barcode Search"/> + -																																																															
Add Item	<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</td><td>Dairy</td><td>\$2.99</td></tr> <tr><td>1% milk 2L</td><td>Dairyland 1% milk</td><td>25</td><td>Dairy</td><td>\$3.99</td></tr> <tr><td>1% milk 4L</td><td>Dairyland 1% milk</td><td>21</td><td>Dairy</td><td>\$4.99</td></tr> <tr><td>2% milk 1L</td><td>Dairyland 1% milk</td><td>19</td><td>Dairy</td><td>\$3.50</td></tr> <tr><td>2% milk 2L</td><td>Dairyland 1% milk</td><td>17</td><td>Dairy</td><td>\$4.25</td></tr> <tr><td>2% milk 4L</td><td>Dairyland 1% milk</td><td>13</td><td>Dairy</td><td>\$4.75</td></tr> <tr><td>Apple</td><td>Growers farm</td><td>28</td><td>Produce</td><td>\$2.75/LB</td></tr> <tr><td>Banana</td><td>Growers farm</td><td>18</td><td>Produce</td><td>\$1.75/LB</td></tr> <tr><td>Potato</td><td>Growers farm</td><td>38</td><td>Produce</td><td>\$1.95/LB</td></tr> <tr><td>Advil</td><td>No-name 300 mg/100</td><td>37</td><td>Pharmacy</td><td>\$5.75</td></tr> <tr><td>Tylenol</td><td>No-name 250 mg/100</td><td>32</td><td>Pharmacy</td><td>\$5.72</td></tr> </tbody> </table>				Name	Description	Quantity	Category	Price	1% milk 1L	Dairyland 1% milk	25	Dairy	\$2.99	1% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99	1% milk 4L	Dairyland 1% milk	21	Dairy	\$4.99	2% milk 1L	Dairyland 1% milk	19	Dairy	\$3.50	2% milk 2L	Dairyland 1% milk	17	Dairy	\$4.25	2% milk 4L	Dairyland 1% milk	13	Dairy	\$4.75	Apple	Growers farm	28	Produce	\$2.75/LB	Banana	Growers farm	18	Produce	\$1.75/LB	Potato	Growers farm	38	Produce	\$1.95/LB	Advil	No-name 300 mg/100	37	Pharmacy	\$5.75	Tylenol	No-name 250 mg/100	32	Pharmacy	\$5.72
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Remove Item	<input type="button" value=""/> < < > >>																																																															
Orders	<input type="text" value="Page 1 of 9"/>																																																															

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	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21	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

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
	Current stock with Upcoming expiry	20
	Current quantity expired	3

Modify Product | Remove Product

Kevin's Convenience Store

https://kevins-convenience-store.com

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
	Current stock with Upcoming expiry	20
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Modify Product Remove Product

Kevin's Convenience Store

https://kevins-convenience-store.com

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
	Current stock with Upcoming expiry	20
	Current quantity expired	3

Confirmation

Are you sure you want to remove this product?

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

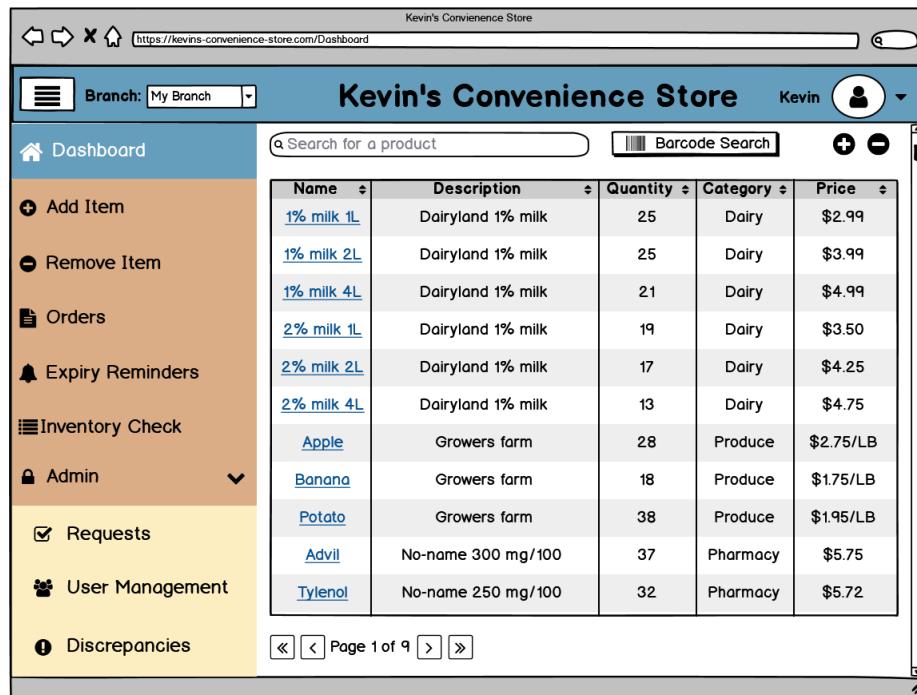
Cancel Confirm

The screenshot shows the Kevin's Convenience Store application interface. On the left is a sidebar with a blue header 'Dashboard' and a tan body containing several menu items: 'Add Item', 'Remove Item', 'Orders', 'Expiry Reminders', 'Inventory Check', and 'Requests'. The 'Requests' item has a checked checkbox next to it. The main area has a blue header 'Kevin's Convenience Store' with a user icon for 'Kevin'. Below the header are two tabs: 'Product Information' and 'Product History', with 'Product Information' selected. The central part of the screen is titled 'Product Details' and displays a product card for 'Milk 1L'. The card includes an image of a milk carton, the name 'Name 1%', and a brief description: '1% milk', '256d', and 'Dairy'. Below the card is a warning dialog box with the message: 'Requested changes require admin approval, would you like to automatically create a request to modify this product?'. The dialog has two buttons: 'No' and 'Yes'. At the bottom of the main screen, there are three data rows: 'Current In stock quantity' (22), 'Current stock with Upcoming expiry' (20), and 'Current quantity expired' (3). The URL in the browser bar is <https://kevins-convenience-store.com>.

Figure 8.2.5.2 Support Staff Removing a Product

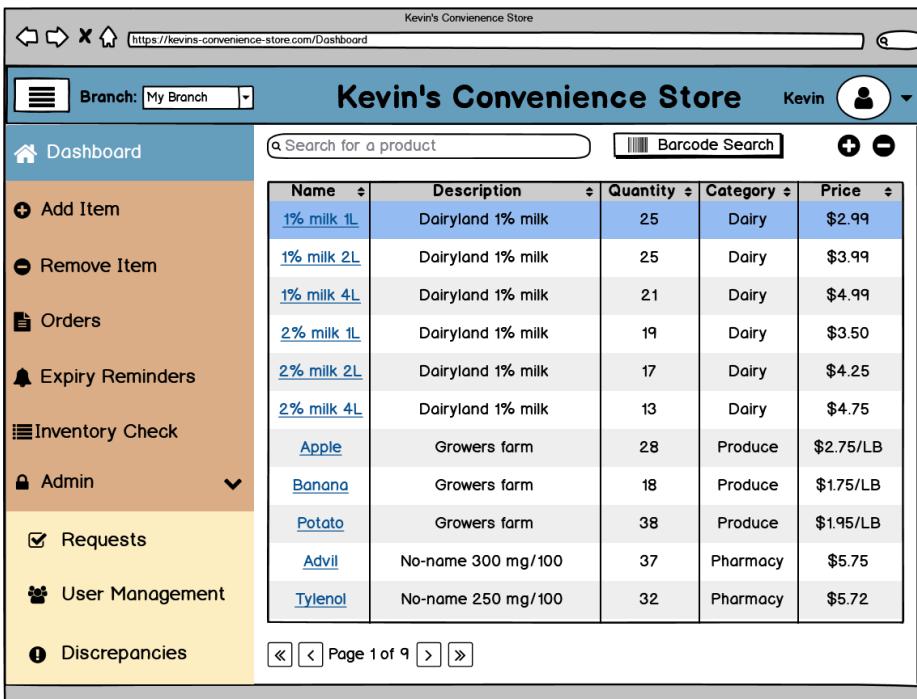
8.2.6 Modify a Product

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 (checked), User Management, and Discrepancies. The main area displays a table of products with columns for Name, Description, Quantity, Category, and Price. The table includes rows for various items like milk, produce, and pharmaceuticals.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17	Dairy	\$4.25
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Advil	No-name 300 mg/100	37	Pharmacy	\$5.75
Tylenol	No-name 250 mg/100	32	Pharmacy	\$5.72



This screenshot shows the same Kevin's Convenience Store dashboard as the previous one, but with a specific row highlighted in blue. The highlighted row corresponds to the '1% milk 1L' entry in the table, indicating it has been selected for modification.

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	25	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17	Dairy	\$4.25
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Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Dashboard

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

Requests
User Management
Discrepancies

Product Information Product History

Product Details



Modify Product
Remove Product

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

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Dashboard

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

Requests
User Management
Discrepancies

Product Information Product History

Product Details



Modify Product
Remove Product

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

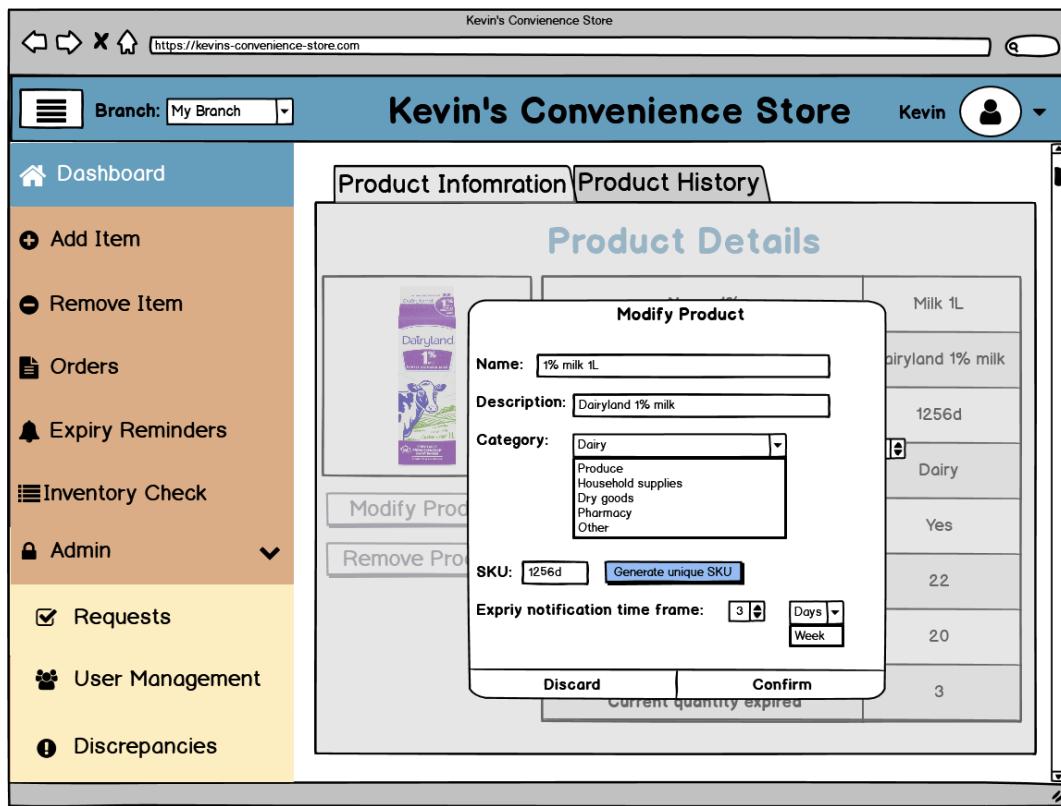


Figure 8.2.6.1 Store Manager Modifying a Product

Kevin's Convenience Store																																																																	
Dashboard		<input type="text" value="Search for a product"/> <input type="button" value="Barcode Search"/> + -																																																															
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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	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	21	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19	Dairy	\$3.50
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Banana	Growers farm	18	Produce	\$1.75/LB
Potato	Growers farm	38	Produce	\$1.95/LB
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<< < 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
	Current stock with Upcoming expiry	20
	Current quantity expired	3

Modify Product | Remove Product

Kevin's Convenience Store

https://kevins-convenience-store.com

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
	Current stock with Upcoming expiry	20
	Current quantity expired	3

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Product Details

Modify Product

Name: 1% milk 1L	Milk 1L
Description: Dairyland 1% milk	Dairyland 1% milk
Category: <input type="button" value="Dairy"/>	1256d
Produce	Dairy
Household supplies	1256d
Dry goods	Dairy
Pharmacy	Yes
Other	22

SKU: 1256d

Expiry notification time frame:

Current quantity expired	3
--------------------------	---

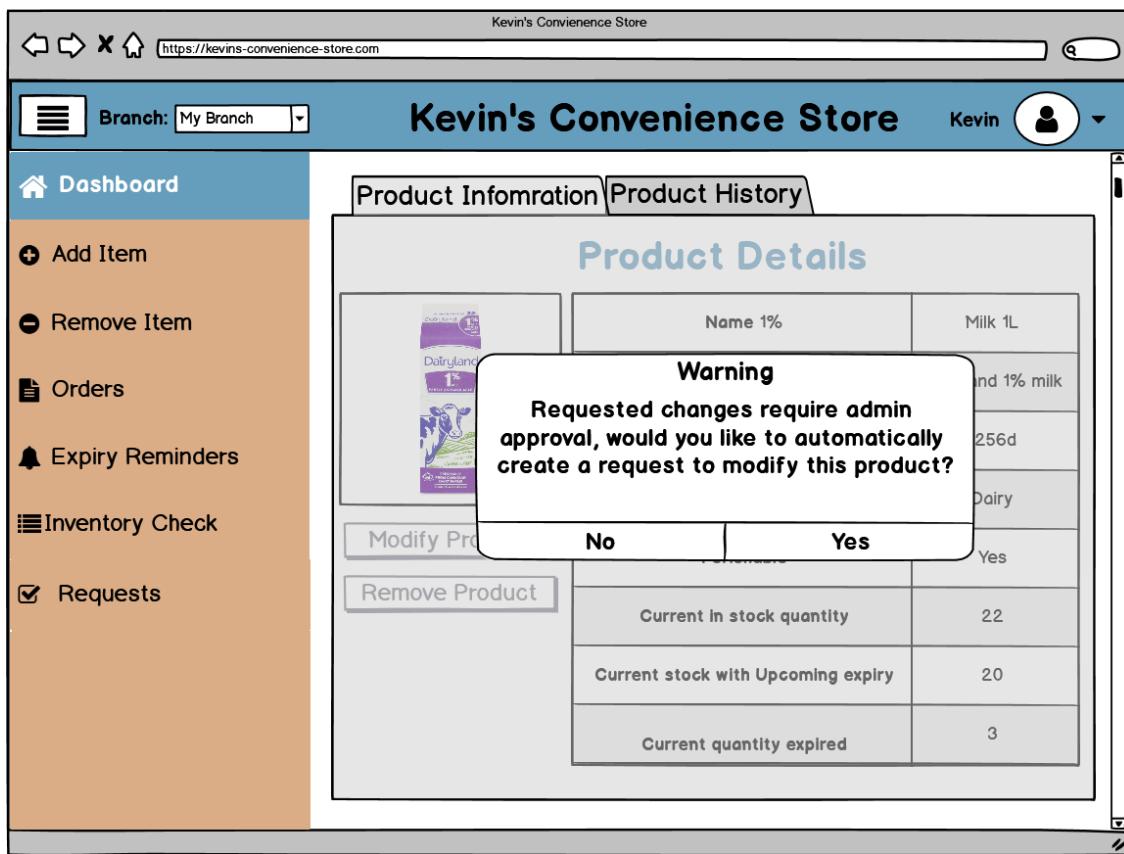
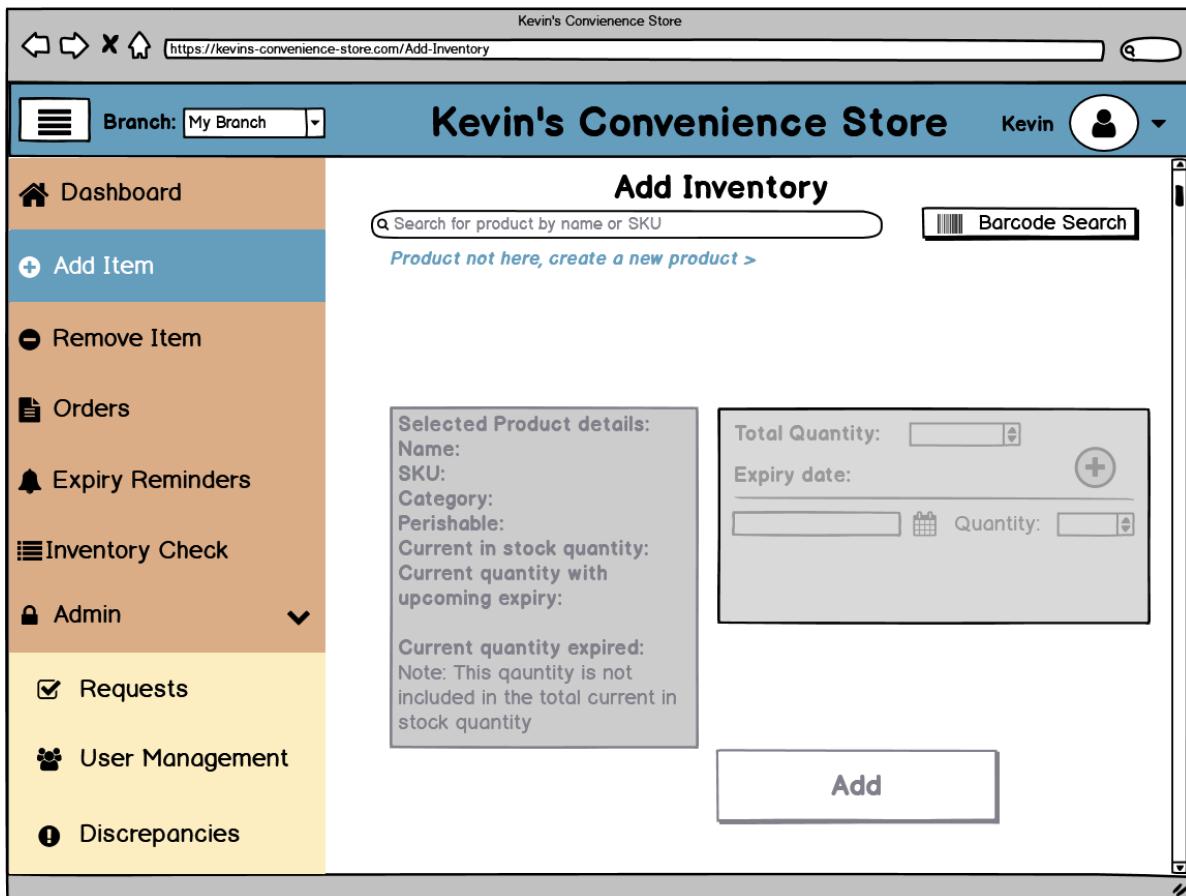


Figure 8.2.6.2 Support Staff Modifying a Product

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 blue header 'Add Item' and a light orange body with the following menu items:

- Dashboard
- + Add Item
- Remove Item
- Orders
- Expiry Reminders
- Inventory Check
- Admin
- Requests
- User Management
- 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 message 'Product not here, create a new product >'. A 'Barcode Search' button is also present. To the right, there are two boxes: one for 'Selected Product details' (Name, SKU, Category, Perishable, Current in stock quantity, Current quantity with upcoming expiry) and another for 'Total Quantity' (input field with a plus sign) and 'Expiry date' (input field with a calendar icon). At the bottom is a large 'Add' button.

Kevin's Convenience Store

Branch: My Branch

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:

Quantity:

Add

Kevin's Convenience Store

Branch: My Branch

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:

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

Barcode Search

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 Quantity: 50
01/03/2021 Quantity: 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 quantity 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 'Remove Item' button highlighted in blue. The main content area has a title 'Remove Inventory' and a search bar. On the right, there are sections for 'Selected Product details' (Name, SKU, Category, Perishable, Current in stock quantity, Current quantity with upcoming expiry), 'Total Quantity' (Some text), 'Reason for removal' (Expired, Damaged), 'Quantity to remove' (input field), 'Additional Comments' (Optional), and a 'Remove' button.

Kevin's Convenience Store

Remove Inventory

Selected Product details:

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

Total Quantity:

Some text

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: 2

Expiry date: 01/03/2021

Reason for removal: Expired Damaged

Quantity to remove:

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:

Some text

Reason for removal: Expired
Damaged

Quantity to remove:

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: 2

Expiry date: 01/03/2021

Reason for removal: Expired
Damaged

Quantity to remove: 3

Additional Comments:
Optional

Remove

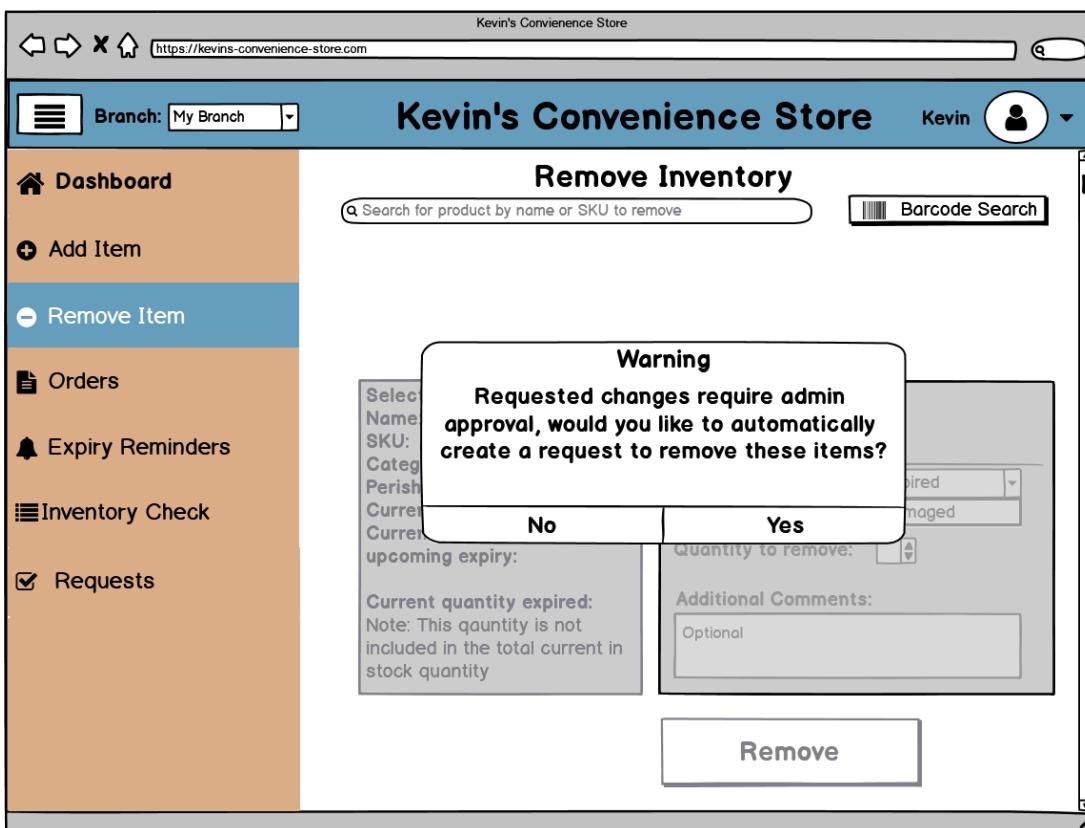
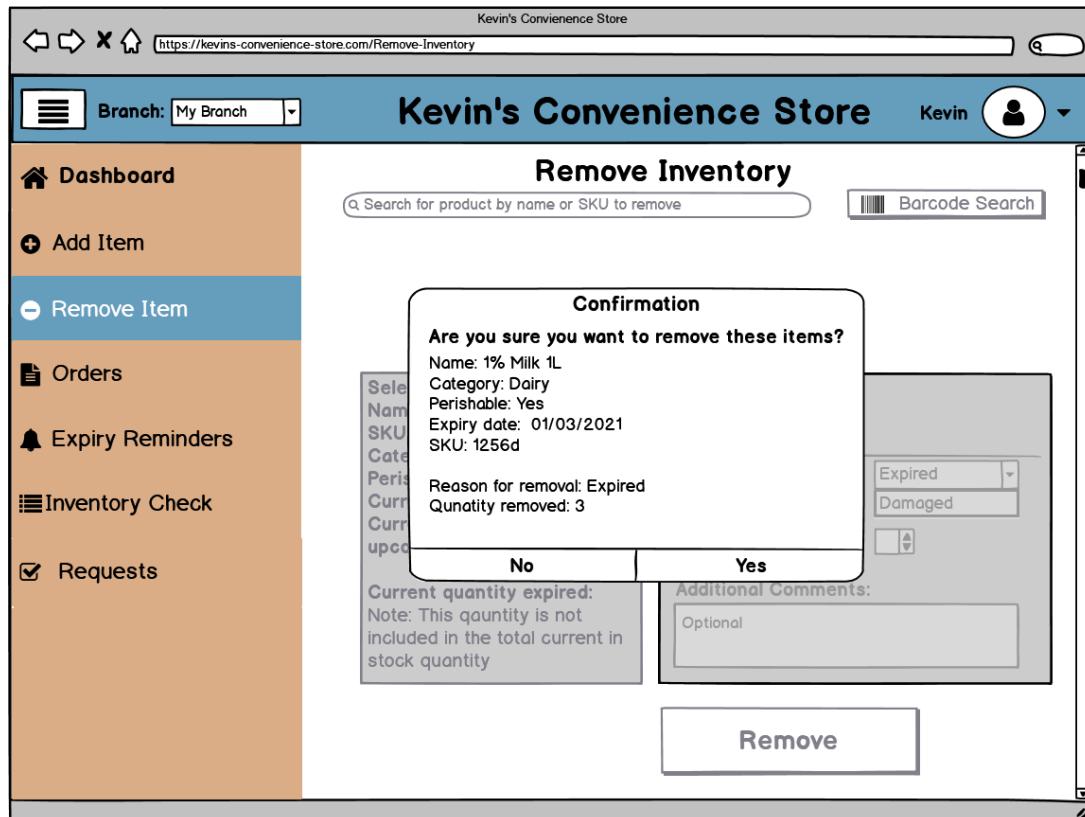


Figure 8.2.8.2 Support Staff Removing an Item

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 screenshot shows the Kevin's Convenience Store software interface. The left sidebar has a brown 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 area has a blue header with the store name and a user profile for "Kevin". Below the header is a search bar and several buttons: "Draft New Order" (highlighted in blue), a print icon, a trash icon, an edit icon, and "+ Intake Order". The central part of the screen is titled "Order History" and contains a table with the following data:

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"/>

The image displays two screenshots of the Kevin's Convenience Store software interface, illustrating the process of drafting a new order.

Screenshot 1: Initial Order Draft

The 'Order History' screen is shown. On the left, the navigation menu includes: Dashboard, Add Item, Remove Item, Orders (selected), Expiry Reminders, Inventory Check, Admin, Requests, User Management, and Discrepancies. The main area shows the 'Draft New Order' dialog box. It contains fields for Distributor's address, Product name (Enter product name or scan barcode), Quantity (Quantity: 1), Price per unit (\$0.00), Subtotal (\$0.00), GST (\$0.00), and Total (\$0.00). There is also a field for Estimated date of arrival (03/30/20) and buttons for Draft Order and Cancel.

Screenshot 2: Order Draft with Products

The same interface is shown, but now with two products added to the draft:

- 1% milk 1L: Quantity 50, Price per unit \$2.99, Subtotal \$324.50, GST \$38.94, Total \$363.44.
- 2% milk 1L: Quantity 50, Price per unit \$3.50, Subtotal \$324.50, GST \$38.94, Total \$363.44.

The dialog box also includes a 'Add more products' button and a calendar icon for the estimated arrival date.

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. Once all the items are intaken the order then changes to the status of added.

The screenshot shows the Kevin's Convenience Store Order History page. The left sidebar has a 'Branch: My Branch' dropdown and links for Dashboard, Add Item, Remove Item, Orders (which is selected), Expiry Reminders, Inventory Check, and Requests. The main area has a search bar and a '+ Intake Order' button. A table lists five orders with columns for Order Summary, Date, Cost (\$), Status, and Select. The orders are:

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

+ 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

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:

Expiry date: Quantity:

Add

Kevin's Convenience Store

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

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: 52

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 'Order History' section of the Kevin's Convenience Store web application. The left sidebar has a 'Branch: My Branch' dropdown and links for Dashboard, Add Item, Remove Item, Orders (which is selected and highlighted in blue), Expiry Reminders, Inventory Check, Admin (with a dropdown menu for Requests, User Management, and Discrepancies), and a checked checkbox for Requests. The main area has a search bar and buttons for Draft New Order, Print, Delete, Edit, and + Intake Order. A table lists five orders with columns for Order Summary (links to PDFs), Date (mm-dd-yy), Cost (\$), Status, and Select (checkboxes). The orders are:

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"/>

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

Kevin's Convenience Store

Order History

[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"/>

Modify Order

Distributor's address:

Enter product name or scan barcode: Quantity: Price per unit: \$2.99

Enter product name or scan barcode: Quantity: Price per unit: \$3.50

[Add more products](#)

Estimated date of arrival: 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 software interface. The left sidebar has a blue header "Orders" and a list of items: Dashboard, Add Item, Remove Item, Expiry Reminders, Inventory Check, Admin (with a dropdown arrow), Requests, User Management, and Discrepancies. The main area is titled "Order History" with a search bar and buttons for "Draft New Order", "Print", "Delete", "Edit", and "+ Intake Order". A table titled "Order Summary" lists five orders with columns for Order ID (linking to PDFs), Date, Cost (\$), Status, and a Select checkbox. The orders are:

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 | Print | Delete | Edit | + 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 | Print | Delete | Edit | + 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 Convenience Store

Branch: My Branch Kevin

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

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"/>

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 "Kevin's Convenience Store" and a "Branch: My Branch" dropdown. The 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" (represented by a printer icon), "Delete" (represented by a trash bin icon), 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

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"/>

Print

General

Select Printer

- CaseView PDF 2011
- CaseView PDF 2014
- Fax
- Fax (redir)
- HP Laser.
- HP Laser.

Status: Ready Location: Comment:

Print to file Preferences Find Printer...

Page Range

All Selection Current Page

Pages: For example 1,5-12

Skip annotations and commentary text Skip collapsed text

Number of copies: Collate

Print Cancel Apply

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 sidebar with navigation links: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders (which is selected and highlighted in blue), Inventory Check, Admin (with a dropdown arrow), Requests, User Management, and Discrepancies. The main content area is titled "Expiry" and contains two tabs: "Upcoming Expiry" (selected) and "Expired". A search bar says "Search by item, date, or quantity". Below is a table with columns: Item, Quantity, Expiry Date, Days until expiry, and a "Dismiss" button. The table lists four items: "3.25 % milk 4L" (Quantity 25, Expiry 03-12-2020, 3 days), "RG Apples" (Quantity 30, Expiry 03-11-2020, 2 days), "Banana Bunch" (Quantity 12, Expiry 03-11-2020, 2 days), and "1 % Milk 1L" (Quantity 15, Expiry 03-12-2020, 3 days). Each row has a "Dismiss" button at the end.

Item	Quantity	Expiry Date	Days until expiry	Dismiss
3.25 % milk 4L	25	03-12-2020	3 days	
RG Apples	30	03-11-2020	2 days	
Banana Bunch	12	03-11-2020	2 days	
1 % Milk 1L	15	03-12-2020	3 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	25	03-12-2020	3 days	
RG Apples	30	03-11-2020	2 days	
Banana Bunch	12	03-11-2020	2 days	
1 % Milk 1L	15	03-12-2020	3 days	

Kevin's Convenience Store

Branch: My Branch Kevin

Expiry

Upcoming Expiry Expired

Item	Quantity	Expiry Date	Days until expiry	Dismiss
RG Apples	30	03-11-2020	2 days	
Banana Bunch	12	03-11-2020	2 days	
1 % Milk 1L	15	03-12-2020	3 days	

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 screenshot shows the Kevin's Convenience Store software interface. The left sidebar has a 'Branch: My Branch' dropdown and links for Dashboard, Add Item, Remove Item, Orders, Expiry Reminders (which is highlighted in blue), Inventory Check, Admin (with a dropdown arrow), Requests, User Management, and Discrepancies. The main 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 items: 1 % Milk 1L (25 units, expiring 03-08-2020, 1 day(s) since), Blueberries (20 units, expiring 03-07-2020, 2 day(s) since), Banana Bunch (12 units, expiring 03-08-2020, 1 day(s) since), and Strawberries (15 units, expiring 03-04-2020, 5 day(s) since). Each row has a 'Remove Item' button.

Item	Quantity	Expiry Date	Time Since Expiry	Remove Item
1 % Milk 1L	25	03-08-2020	1 day(s)	<button>Remove Item</button>
Blueberries	20	03-07-2020	2 day(s)	<button>Remove Item</button>
Banana Bunch	12	03-08-2020	1 day(s)	<button>Remove Item</button>
Strawberries	15	03-04-2020	5 day(s)	<button>Remove Item</button>

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	03-08-2020	1 day(s)	<button>Remove Item</button>
Blueberries	20	03-07-2020	2 day(s)	<button>Remove Item</button>
Banana Bunch	12	03-08-2020	1 day(s)	<button>Remove Item</button>
Strawberries	15	03-04-2020	5 day(s)	<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: 2
Expiry date: 01/03/2021
Reason for removal: Expired Damaged
Quantity to remove:
Additional Comments:

Remove

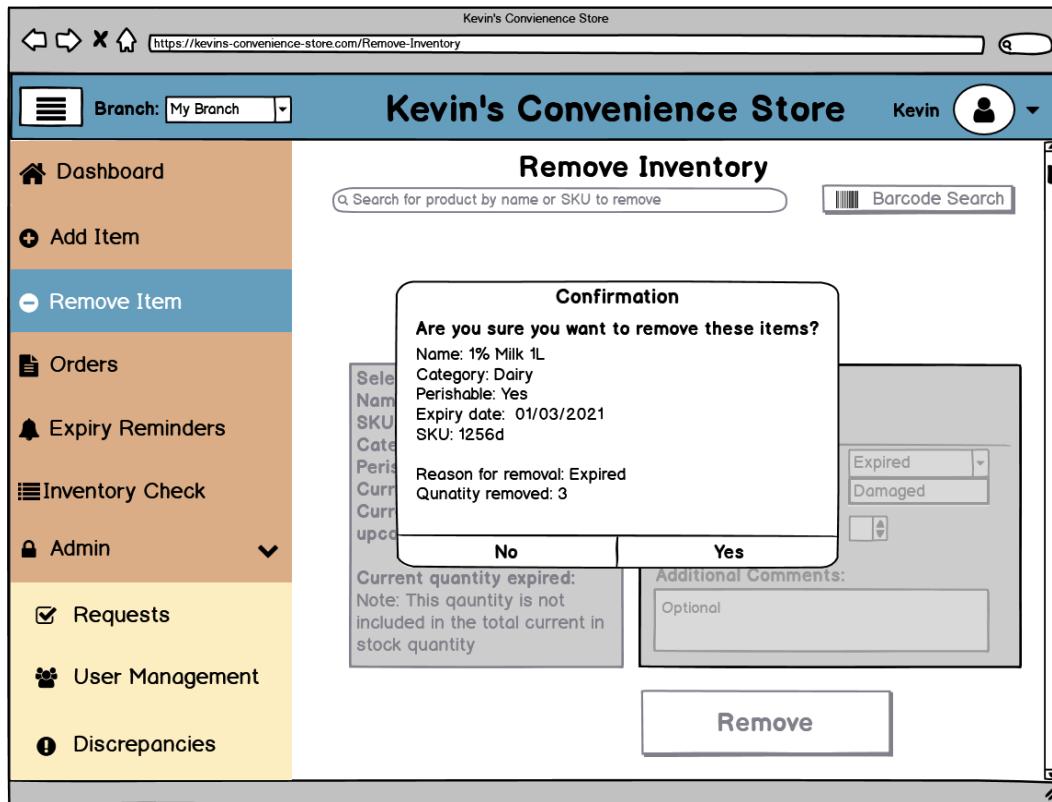


Figure 8.2.15.1 Store Manager Removing an Expired Item

Expiry					
		Upcoming Expiry		Expired	
<input type="text"/> Search by item, date, or quantity					
Item	Quantity	Expiry Date	Time Since Expiry	Remove Item	
1 % Milk 1L	25	03-08-2020	1 day(s)	<input type="button" value="Remove Item"/>	
Blueberries	20	03-07-2020	2 day(s)	<input type="button" value="Remove Item"/>	
Banana Bunch	12	03-08-2020	1 day(s)	<input type="button" value="Remove Item"/>	
Strawberries	15	03-04-2020	5 day(s)	<input type="button" value="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	03-08-2020	1 day(s)	<button>Remove Item</button>
Blueberries	20	03-07-2020	2 day(s)	<button>Remove Item</button>
Banana Bunch	12	03-08-2020	1 day(s)	<button>Remove Item</button>
Strawberries	15	03-04-2020	5 day(s)	<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

Total Quantity: 2
Expiry date: 01/03/2021
Reason for removal:
Quantity to remove:

Additional Comments:

Remove

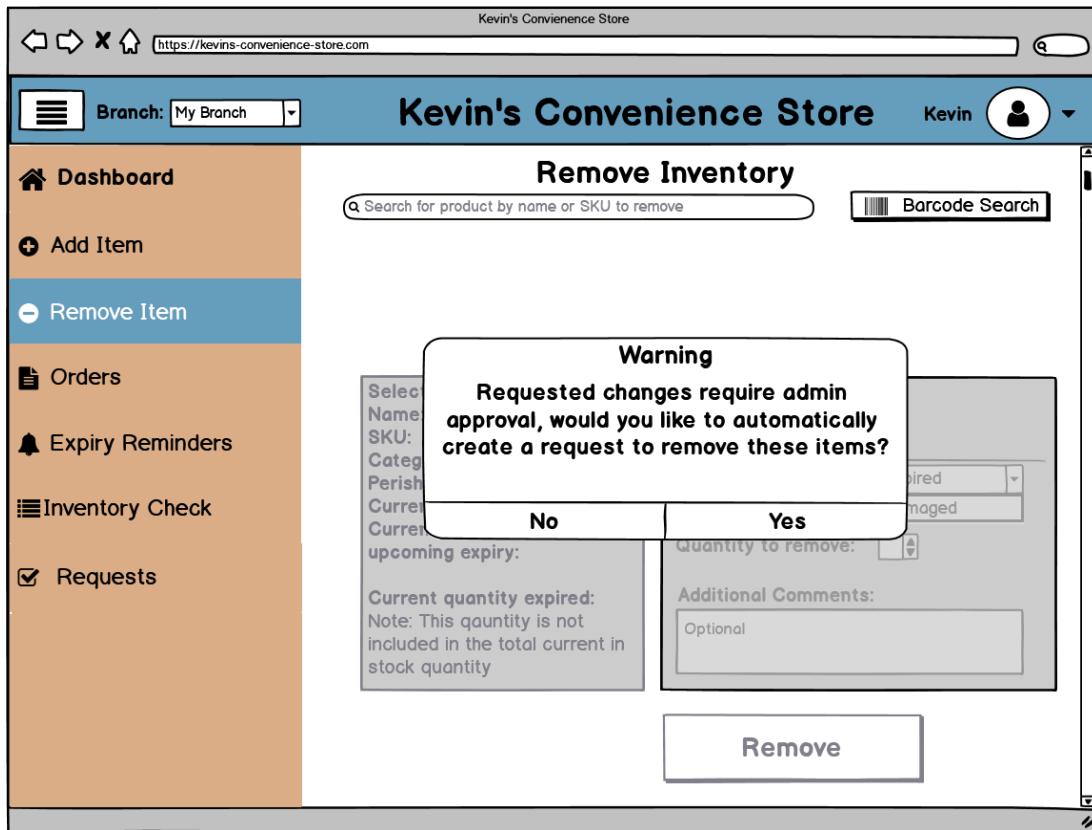


Figure 8.2.15.2 Support Staff Removing an Expired Items

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.

The screenshot shows the Kevin's Convenience Store software interface. The top navigation bar includes a back button, forward button, close button, and a URL bar with <https://kevins-convenience-store.com>. The title bar says "Kevin's Convenience Store" and shows a user profile for "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 (with a checked checkbox), 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, >, >>.

The screenshot shows the Kevin's Convenience Store application. 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 "Kevin's Convenience Store" is displayed prominently. A user profile for "Kevin" is visible on the right.

The left sidebar, titled "Dashboard", contains the following menu items:

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

The main content area is titled "Requests". It features a modal window for a specific request:

Request

Request Number	Created	State
008	2020-03-18	Pending

Details for Request #008:

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

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

Buttons: Decline (disabled), Approve

Page navigation: << < Page 1 of 1 > >>

Kevin's Convenience 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	Approved

« < Page 1 of 1 > »

Dashboard

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

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.

The screenshot shows the Kevin's Convenience Store dashboard. On the left, there is a sidebar with various menu items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders (which is currently selected), Inventory Check, Admin, Requests (which has a checked checkbox), User Management, and Discrepancies. The main content area is titled "Requests" and displays a table of pending requests. The table has columns for Request Number, Requesting Employee, Date Requested, and State. The data is as follows:

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

The screenshot shows the Kevin's Convenience Store application. The top navigation bar includes a back button, forward button, refresh button, a home icon, and the URL <https://kevins-convenience-store.com>. A user profile icon for 'Kevin' is also present.

The left sidebar has a 'Dashboard' section with icons for Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check, Admin, Requests (which is selected), User Management, and Discrepancies. The 'Admin' section has a dropdown arrow.

The main content area has a title 'Kevin's Convenience Store' and a sub-section 'Requests'. Below this are tabs for 'All Requests', 'Approved Requests', 'Declined Requests', and 'Pending Requests'. A modal window is open, titled 'Request', showing details for Request Number 008. The details are:

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

Below these details, it says:

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

At the bottom of the modal are 'Decline' and 'Approve' buttons. The background shows a table with columns 'Requested' and 'State'.

Pagination at the bottom indicates 'Page 1 of 1'.

Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

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

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 software interface. The left sidebar has a brown background with the following menu items:

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

The main content area has a blue header "Kevin's Convenience Store" with a user profile for "Alvin". Below the header is a toolbar with icons for "Complete Inventory Check" (a plus sign), Print, Delete, and Edit.

The central part of the screen is titled "Inventory Check History" and displays a table of completed inventory checks. The table has the following columns:

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

Kevin's Convenience Store

Barcode Search

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

Page 1 of 9

Kevin's Convenience Store

Branch: My Branch

Search for a product | Barcode Search

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

« « Page 1 of 9 » » Cancel Save Draft Complete Inventory Check

Kevin's Convenience Store

Branch: My Branch

Search for a product | Barcode Search

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

Confrim

Are you sure you want to complete the inventory check?

No **Yes**

« « Page 1 of 9 » » Cancel Save Draft Complete Inventory Check

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 'Branch' dropdown set to 'My Branch'. The 'Inventory Check' tab is selected. The main area is titled 'Inventory Check History' and contains a table with two rows of data. The columns are 'Order Summary', 'Date (mm-dd-yy)', 'Status', 'Employee', and 'Select'. The first row has 'IC0224201.pdf' in 'Order Summary', '02/24/20' in 'Date', 'Completed' in 'Status', 'Alvin' in 'Employee', and an empty checkbox in 'Select'. The second row has 'IC0226201.pdf' in 'Order Summary', '02/26/20' in 'Date', 'Completed' in 'Status', 'Alvin' in 'Employee', and an empty checkbox in 'Select'. There are also 'Complete Inventory Check', 'Print', 'Delete', and 'Edit' buttons above 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"/>

Kevin's Convenience Store

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="23 ▲▼"/>	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="32 ▲▼"/>	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

Figure 8.2.19.1 Store Manager Modifying an Inventory Check

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 "Kevin's Convenience Store" is displayed prominently, along with the user "Alvin" and a profile icon.

The left sidebar menu has the following items:

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

The main content area is titled "Inventory Check History". It features a toolbar with icons for "Complete Inventory Check" (with a plus sign), "Print" (document icon), "Delete" (trash can icon), and "Edit" (pencil icon).

A table displays the "Order Summary" 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"/>

Kevin's Convenience Store

Branch: My Branch Kevin

Search for a product Barcode Search

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="button" value="23"/>	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$4.75
Apple	Growers farm	<input type="button" value="32"/>	Produce	\$2.75/LB
Banana	Growers farm	<input type="button" value="1"/>	Produce	\$1.75/LB
Potato	Growers farm	<input type="button" value="1"/>	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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Kevin's Convenience Store

Branch: My Branch Kevin

Search for a product Barcode Search

Name	Description	Quantity	Category	Price
1% milk 1L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$2.99
1% milk 2L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$3.99
1% milk 4L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	<input type="button" value="1"/>	Dairy	\$4.75
Apple	Growers farm	<input type="button" value="32"/>	Produce	\$2.75/LB
Banana	Growers farm	<input type="button" value="1"/>	Produce	\$1.75/LB
Potato	Growers farm	<input type="button" value="1"/>	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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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 an 'Inventory Check' section with Admin dropdown, Requests (checked), User Management, and Discrepancies. The main area is titled 'Inventory Check History' and contains a table with columns: Order Summary, Date (mm-dd-yy), Status, Employee, and Select. Two rows are visible: 'IC0224201.pdf' (02/24/20, Completed, Alvin) and 'IC0226201.pdf' (02/26/20, Completed, Alvin). Action buttons for Complete Inventory Check, Print, Delete, and Edit are at the top of 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"/>

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

Screenshot 1 (Top): This shows the 'Inventory Check History' page. On the left is a sidebar menu with the following items:

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

The main content area displays 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"/>

Screenshot 2 (Bottom): This screenshot shows the same interface after a selection has been made. A modal dialog box appears in the center of the page with the following content:

Warning
The inventory check will be deleted.

At the bottom of the dialog are two buttons: 'Cancel' and 'Delete'.

Figure 8.2.20.1 Store Manager Deleting an Inventory Check

The screenshot shows the Kevin's Convenience Store application. The left sidebar has a light orange background with a vertical list of menu items: Dashboard, Add Item, Remove Item, Orders, Expiry Reminders, Inventory Check (which is highlighted in blue), and Help. The main content area has a white background with a blue header bar containing the store name and a user profile icon. Below the header is a sub-header 'Inventory Check History' with a 'Complete Inventory Check' button and three icons: a printer, a trash can, and a pencil. The main content is a table titled 'Order Summary' with columns for Order ID, Date, Status, Employee, and Selection (with a checked checkbox). There are two rows of data in the table.

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"/>

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

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

The main content area has a blue header bar with the store name and a user profile for "Alvin". Below the header is a title "Inventory Check History" and a toolbar with icons for "Complete Inventory Check", "Print", "Delete", and "Edit".

A table titled "Order Summary" displays two rows of 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 titled "Warning" contains the message: "Requested changes require admin approval, would you like to automatically create a request to remove these items?". It has two buttons: "No" and "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, User Management (selected), and Discrepancies. The 'User Management' item is highlighted with a blue background. The main area is titled 'User Management' and contains a table with 11 rows of employee data. Each row includes columns for 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

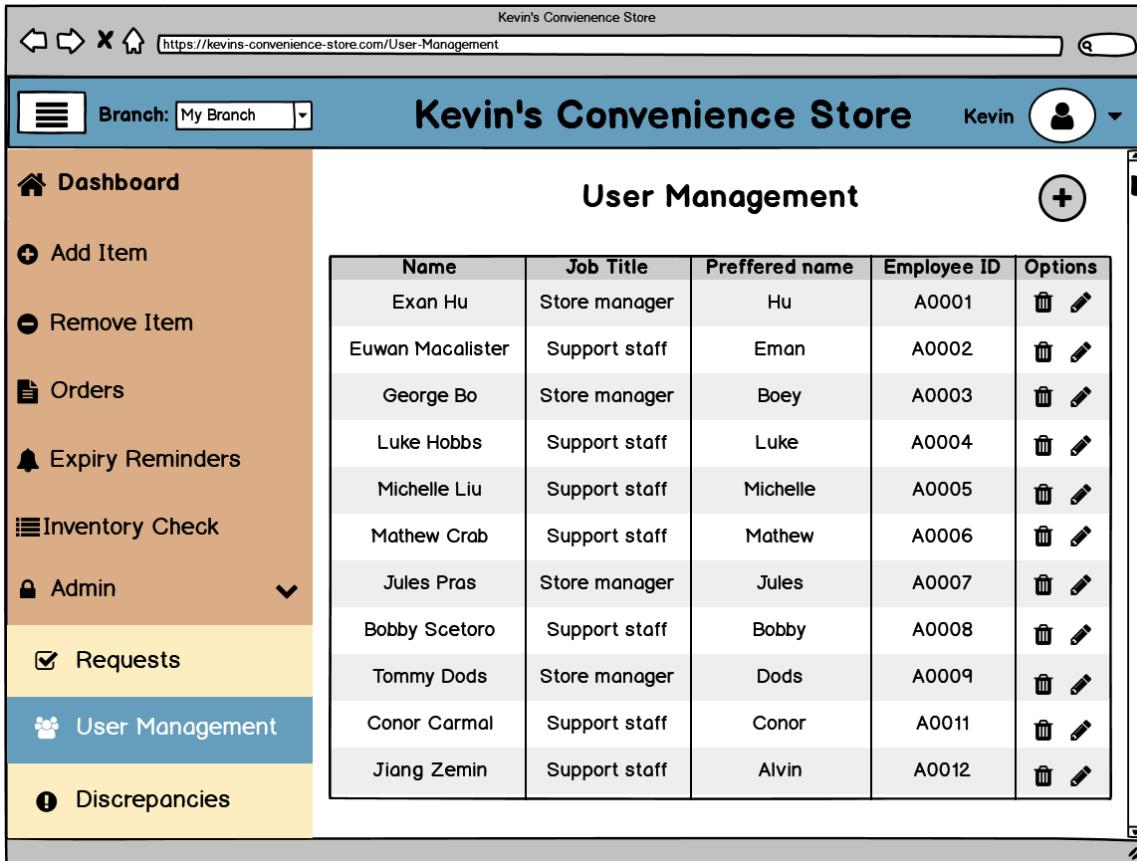
User Management

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 (with icons for trash and edit). The data in the table 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	
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	Employee ID: A0012	A0006	
Jules Pras	Support staff	Cancel Remove	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	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.

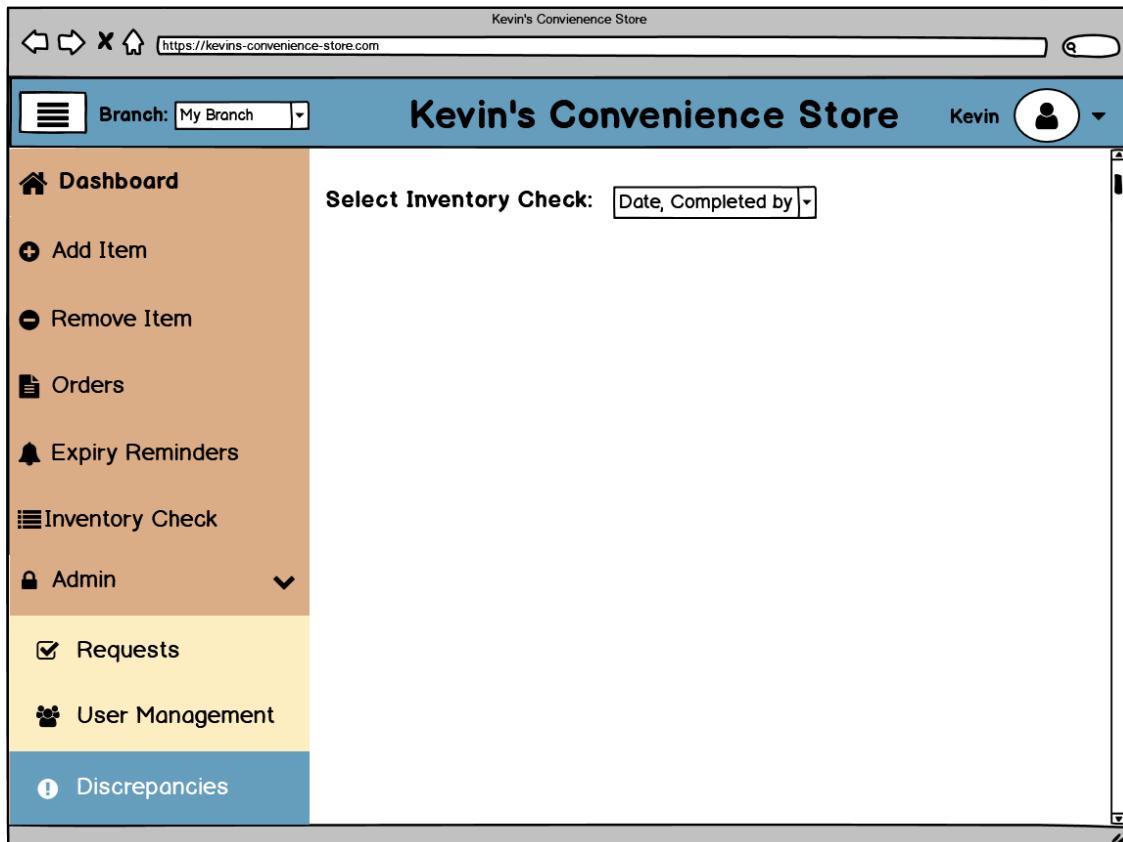
Name	Job Title	Preferred name	Employee ID	Options
Exan Hu	Store manager	Hu	A0001	
Euwan Macalister	Support staff	Eman	A0002	
George Bo	Store manager	Boey	A0003	
Luke Hobbs	Support staff	Luke	A0004	
Michelle Liu	Support staff	Michelle	A0005	
Mathew Crab	Support staff	Mathew	A0006	
Jules Pras	Store manager	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	

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 8.2.23 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.



Kevin's Convenience Store

https://kevins-convenience-store.com

Branch: My Branch Kevin

Kevin's Convenience Store

Dashboard

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

Select Inventory Check: 02/24/20, Completed by Alvin

Search for a product | Barcode Search

Name	SKU	Expected Quantity	Actual Quantity	Discrepancy
Advil	1256dq	37	32	5
Tylenol	1256d1	32	30	2

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 are able to have access to all menu items.

The screenshot shows the Kevin's Convenience Store dashboard. The left sidebar has a 'Branch' dropdown set to 'My Branch'. The main content area displays a table of inventory items:

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

Page navigation: << < Page 1 of 9 > >>

The screenshot shows the Kevin's Convenience Store dashboard. The left sidebar has a 'Branch' dropdown with three options: 'Downtown Branch' (highlighted), 'Quadra Branch', and 'UVIC Branch'. The main content area displays a table of inventory items, identical to the first screenshot:

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

Page navigation: << < Page 1 of 9 > >>

Kevin's Convenience Store

Branch: My Branch

Downtown Branch Quadra Branch UVIC Branch

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

Page 1 of 9

Kevin's Convenience Store

Branch: Quadra Branch

Downtown Branch Quadra Branch UVIC Branch

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

Search for a product Barcode Search

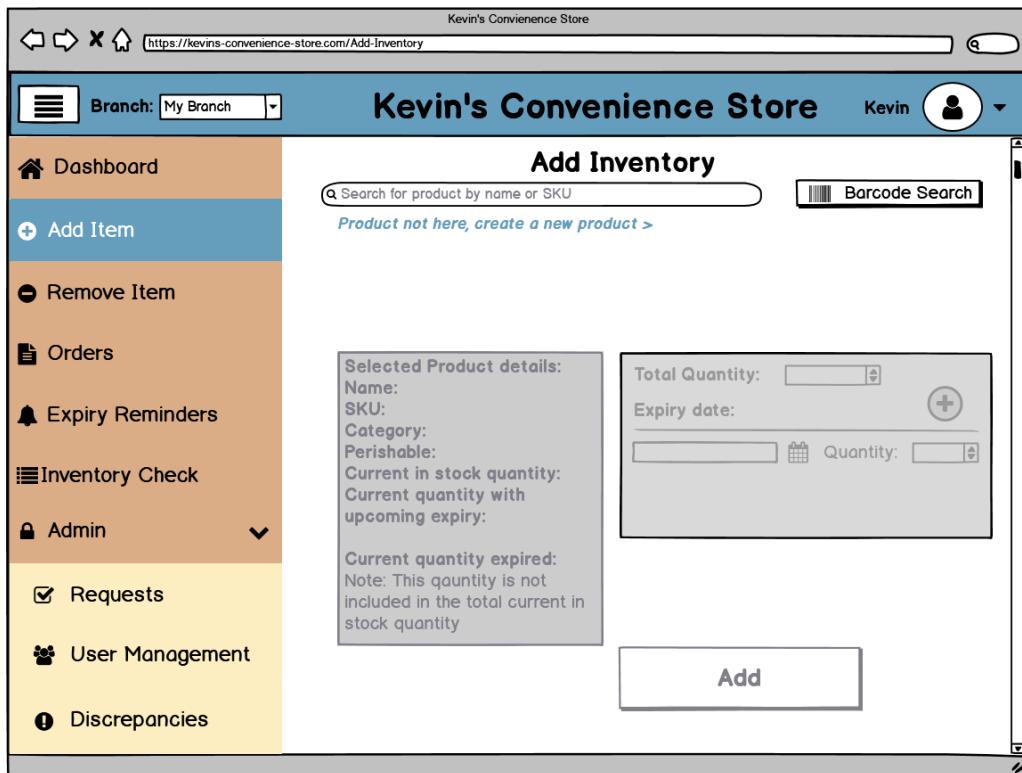
Name	Description	Quantity	Category	Price
% milk 1L	Dairyland 1% milk	25	Dairy	\$2.99
% milk 2L	Dairyland 1% milk	25	Dairy	\$3.99
% milk 4L	Dairyland 1% milk	21	Dairy	\$4.99
2% milk 1L	Dairyland 1% milk	19	Dairy	\$3.50
2% milk 2L	Dairyland 1% milk	17	Dairy	\$4.25
2% milk 4L	Dairyland 1% milk	13	Dairy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

Page 1 of 9

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 (highlighted in blue), 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 sub-instruction 'Product not here, create a new product >'. It features a search bar ('Search for product by name or SKU') and a 'Barcode Search' button. A 'Selected Product details:' box lists fields: Name, SKU, Category, Perishable, Current in stock quantity, and Current quantity with upcoming expiry. Below it is a note about current quantity expired. To the right is a 'Total Quantity:' input field with a plus sign, an 'Expiry date:' calendar input, and a 'Quantity:' input field. At the bottom is a large 'Add' button.

Kevin's Convenience Store

Branch: My Branch Kevin

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:

Add

Kevin's Convenience Store

Branch: My Branch Kevin

Add Inventory

Product not here, create a new product >

Product found
Is this the product you want?

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

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

Figure 8.2.26 Finding an Item using its Barcode

9 Appendix

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

9.1 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.