

Top Shelf

Warehouse Inventory Management System

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CPSC 362 - 07
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Document Revision History Table

REVISION HISTORY TABLE				
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0	Document Creation		Calvin N	02/27/2020
1	User Manual Added	14-24	John G	3/1/2020
2	Corrections To Use-Cases	6-9	Justin P	3/21/2020
3	Project Plan 2nd/3rd Sprint	6	Justin P	5/10/2020
4	CRC Diagram/Cards	23-33	Justin P	5/10/2020
5	Development Process	22	Justin P	5/10/2020

Project Plan

Overview

TopShelf is an inventory management program that will help users organize the extensive list of items found in a distributor warehouse. Item information will be readily available with our intuitive and easy to use application.

Target



Products are first shipped from suppliers to warehouses. From those warehouses the items are then shipped to retailers where the end consumer can purchase the product. We plan on capitalizing on Distributors/Wholesalers by providing our program to enhance their inventory management.

Goals

Provide a program that effectively and efficiently manages items by:

- Adding, removing, and updating products
- Search product information
- Implementing an easy-to-use ordering system
- Secure account management
- Barcode utilization
- Adding, removing, and updating suppliers
- Shipment management
- Printable invoices
- Alerts

Demonstration of the product software will be available for testing within 4 weeks from the start of the project.

Cost

Not all warehouses are the same so estimations can be made based on the information provided by the client. A quote can be given upon contacting us. The average cost per square foot of warehouse space was \$6.53. The average starting hourly rate of warehouse staff was \$11.44, and the average annual pay for a warehouse management staff was \$47,478. The average corporate profit came in at 8.83% This is according to a 2017 warehouse survey.

Project Members

- Leader: Justin Poblete - MySQL
- Juheng Mo - MySQL
- Luis Camacho - C#
- Calvin Nguyen - C#, MySQL
- John Gardner - C#, MySQL

Specifications

TopShelf will be made using C# connected with a SQL database.

The customer will need to first provide all product information including:

- Product
 - ProductId
 - Product Name
 - Product Brand
 - Quantity
 - Price

- Expiration Date
 - Storage Location
- User Information
 - Username
 - Password
- Supplier Information
 - Supplier ID
 - SupplierName
 - Supplier Email
 - Supplier Phone Number
- Shipping Records
 - Shipping ID
 - Departure time
 - Expected Arrival Time
 - Supplier ID

2nd Sprint

Our main objective during our 1st sprint was establishing the base of our program. This included implementing a simple database with some search functionalities we thought warehouse employees would use regularly. For this sprint we added to the database with suppliers but also applied two new user groups. The administrator would be able to secure the system by managing the different types of users interacting with the program, and clients would now be able to order items. The team also thought it was a good idea to give separate users a different GUI to reduce the possibility of lower clearance users from messing with the system. Stockers should not be able to add and remove accounts. Another function we added was barcode searches. Barcodes are an integral part of identifying items in a warehouse.

3rd Sprint

The primary focus of the final sprint was continuing to build upon our ordering system. Previously orders were simply records that kept track of when a client had ordered something, but not what they specifically ordered. The client form was also pretty bare. This time around we managed to include order histories available to both the clients and clerks from their respective forms. From their order forms an invoice can be printed which includes the total cost, tracking information, as well as an itemized list of all the products that were purchased. Clients could now update their personal information within their new account page too. Alerts were also added to notify the user of new orders, low inventory, and expired items.

Functional User Stories

1. As an HR Manager, I want users to login so we can prevent unauthorized users from accessing our information.
2. As an order selector, I want to look up current stock for various products so that I can adjust order quantities for future orders.
3. As a package handler, I want to quickly lookup item locations so that I can fulfill orders efficiently.
4. As a warehouse clerk, I want to be able to add, delete, and update inventory information so that everything will be up to date.
5. As a warehouse clerk, I want to look up the estimated arrival time so that I can properly handle incoming shipments.
6. As a customer/client I want to order from the distributor so I can manage my own stock.
7. As an administrator/HR, I want to create and delete accounts so I can manage employees and client access.
8. As a clerk, I want to be able to add shipment so I can keep track of the orders being sent to us from the supplier.
9. As a stocker, I want to print and read barcodes so I can identify products more efficiently.
10. As a clerk I want to be able to add, delete, and update the suppliers so that I can manage the suppliers that send items to our warehouse.
11. As a client, I want to view my old orders, so I can confirm items that I have purchased
12. As a clerk, I want to have invoices of orders, so I can keep track of shipments and finances.
13. As a client, I want to be able to view and update my personal information, so that I can verify my own account.
14. As a clerk, I want to view and update a new order so I can verify the client's orders and provide information about how the order will be delivered.
15. As a clerk, I want to be notified when products in the warehouse are close to expiring or if there are too few of them, so that I can properly update the inventory.

Non-Functional User Stories

1. As a clerk, I want to be able to maximize and adjust the program window size so that I can view the information better.
2. As a clerk, I want to have a drop down menu of suppliers so that I can more easily identify the suppliers.

3. As any user, I want to be able to hide my password while logging in so that I can prevent unauthorized users from getting my credentials.
4. As a clerk, I want to be able to have a dark mode of the program so that my vision isn't strained during the long hours of working.
5. As a clerk, I want new item identification numbers to auto increment so I don't have to remember which identification numbers are taken.

Use Cases

Use Case: User Login

ID: UC-01

Description:

The user input their designated username and password to access the system.

Primary Actor:

Client, Stocker, Admin, and Clerk

Pre-conditions:

Must have an account.

Post Conditions:

Success end condition:

User logs in and is able to use the program.

Failure end condition:

User is prompted that the username or password is incorrect.

Main Success Scenario:

1. System Displays Login Window on Startup.
2. User enters their username.
3. User enters their password.
4. User clicks on the Login button.
5. System authenticates username and password.

Use Case: Insert Stock

ID: UC-02

Description:

Clerk inputs items into the database.

Primary Actor:

Clerk

Pre-conditions:

Clerk is logged in to the system.

Post-conditions:

Success End Condition:

Item is added to the database

Failure End Condition:

Clerk inputs the wrong or incomplete information and the item is not added.

Main Success Scenario:

1. User clicks “INSERT” button
2. System displays Insert form
3. User enters ProductID
4. User enters ProductBrand
5. User enters ProductName
6. User enters Price of item
7. User enters Quantity of stock
8. User enters Expiration Date of product
9. User enters ProductLocation to be stored in warehouse
10. User enters SupplierID of the Supplier
11. User clicks “INSERT” button
12. System processes input data

Use Case: Search Item Stock

ID: UC-03

Description:

Stocker searches the amount of an item in the warehouse.

Primary Actor:

Stocker

Pre-conditions:

Stocker must be logged in to the system.

Post-conditions:

Success end condition:

Items are found and the amount is displayed to the user.

Failure end condition:

Stocker input an item that was not in the database and nothing is displayed

Main Success Scenario:

1. User clicks on “Search Product Stock” Button
2. User clicks on Product Name drop down menu
3. User clicks Product they want to look up
4. System processes input
5. System displays a pop-up window with stock of the item.
6. User clicks OK to close the window.

Use case: Update item information

ID: UC-04

Description:

Clerk wants to update the information of an item that was misinputed or has changed.

Primary Actor:

Clerk

Pre-conditions:

Clerk must be logged in to the system.

Post-conditions:

Success end condition:

Item is updated with the new correct information.

Failure end condition:

Item was not found in the database and not updated.

Main Success Scenario:

1. User clicks on Update in drop down menu
2. User clicks on Update Product
3. User enters Product ID for product to be edited
4. User enters information into desired field for edited
5. User clicks Update to modify
6. System processes input information
7. System displays pop-up window with new information
8. User presses OK to confirm edit
9. System modifies data inside the database

Use Case: Delete Item

ID: UC-05

Description:

Clerk wants to delete an item that is no longer available in the warehouse.

Primary Actor:

Clerk

Pre-conditions:

Clerk must be logged in to the system.

Post-conditions:

Success end condition:

Item is deleted from the database.

Failure end condition:

Item was not found in the database and not deleted.

Main Success Scenario:

1. User clicks on Delete in drop down menu
2. System displays delete features menu
3. User clicks on Delete Product
4. System displays pop-up window with a product list to be selected
5. User clicks on Product Name drop down menu
6. User selects which Product to delete
7. User clicks Delete
8. System processes input information
9. System displays pop-up window with new information
10. User presses OK to confirm deletion
11. System modifies data inside the database

Use Case: Order Item

ID: UC-06

Description:

Customer adds items to a cart and creates an order. The order is then stored until it is verified and processed.

Primary Actor:

Customer

Pre-conditions:

Customer must be logged in to the system.

Post-conditions:

Success end condition:

Order is created to later be processed by a clerk.

Failure end condition:

Customer is unable to create an order.

Main Success Scenario:

1. Customer must be login first
2. System displays order form
3. User selects quantity of a product from a drop down box
4. User clicks "Order Now" button
5. System processes the order

Use Case: Create Account

ID: UC-07

Description:

the admin creates a account in the system

Primary Actor:

Admin

Pre-conditions:

Admin must be logged in to system

Post-conditions:

Success end condition:

Admin creates an account for clerk,customer,stocker or admin

Failure end condition:

Admin is unable to create an account

Main Success Scenario:

1. User goes to “Admin” drop down box
2. User clicks “Create Account” button
3. System displays create account form
4. User enters username
5. User enters password
6. User enters group from the drop down menu
7. User clicks “Create” button
8. System creates a new entry in the database

Extension:

For step 7: if the username exists in the system

1. System will not allow the creation of the account
2. System will display a message that username already exists
3. User must input a unique username

Use Case: Insert Shipment

ID: UC-08

Description:

When the warehouse clerk makes orders with the supplier, he or she needs to be able to update shipments in the system. The clerk logs in and inserts shipment information: what the order contains, who the supplier is, and the expected arrival time

Primary Actor:

Warehouse Clerk

Pre-conditions:

Clerk must be logged in to system

Post-conditions:

Success end condition:

Clerk has entered shipment information and database is updated

Failure end condition:

Clerk does not have accurate or complete information (maybe the supplier does not have accurate shipment dates).

Main Success Scenario:

1. User login to system.
2. User clicks on the “Insert” drop-down menu.
3. User clicks on the “Insert Shipping Information” button.
4. System displays insert shipping form
5. User enters Departure Date
6. User enters Arrival Date
7. User selects the supplier from the drop-down menu.
8. User selects the quantity of the products from the drop-down menu from the table of products' name.
9. User clicks “Insert” button
10. System creates a new entry in the database

Extension:

For step 7:

1. If the supplier does not exist, it must be entered separately.

For step 8:

1. If a product does not exist, it must be entered separately.

Use Case: Search Barcode

ID: UC-09

Description:

Stocker scans barcodes of products in stock.

Primary Actor:

Stocker

Pre-conditions:

Barcode for item has been generated upon item entry into the database, stocker is logged in.

Post-conditions:

Success end condition:

Barcode is scanned and the system is updated.

Failure end condition:

Barcode is not scanned properly, system is not updated.

Main Success Scenario:

1. Stocker login to system.
2. User clicks the “Product Barcode” button.
3. User clicks the drop-down menu for Select Product.
4. User selects a product in stock.
5. User clicks the “View” button.
6. System displays selected product’s barcode.

Extension:

Stocker can also scan outgoing items.

1. Stocker clicks the “scan” drop down menu.
2. User clicks the “outgoing” button.
3. User scans the item being shipped out.
4. System stock is updated for that item.

Use Case: Insert Supplier

ID: UC-10

Description:

The Clerk inserts a new supplier that is now doing business with the warehouse

Primary Actor:

Clerk

Pre-conditions:

Clerk must be logged in to system

Post-conditions:

Success end condition:

Clerk has entered a supplier information and database is updated

Failure end condition:

Clerk is unable to add the new supplier

Main Success Scenario:

1. User goes to “Insert” drop down box
2. User clicks “Insert Supplier” button
3. System displays the insert form
4. User enters supplier name
5. User enters supplier e-mail
6. User enters supplier phone number
7. User clicks “Insert” button
8. System creates a new entry in the database

Use Case: View Client Order History

ID: UC-11

Description:

The Client checks on their order history of purchases

Primary Actor:

Client

Pre-conditions:

Client must be logged in to system

Post-conditions:

Success end condition:

Client sees their order history

Failure end condition:

Client didn't see no order history

Main Success Scenario:

1. User clicks "Order History" button
2. System displays the Order History form
3. The table set displays the users past order(s).

Extension:

For step 3:

3. If the table set doesn't display past orders, the user must first order item(s).

Use Case: Invoice

ID: UC-12

Description:

The Clerk checks on a orders invoice

Primary Actor:

Clerk

Pre-conditions:

Clerk must be logged in to system

Client has placed an order from the warehouse

Post-conditions:

Success end condition:

Clerk sees the invoice of an order

Failure end condition:

Clerk didn't see the invoice

Main Success Scenario:

1. User clicks “Orders” button
2. System displays the Order Form
3. The table set displays the clients order(s).
4. User clicks on the OrderID of which invoice to see
5. User clicks “View” button
6. System displays the Order info Form

Use Case: View Client Account Page

ID: UC-13

Description:

The Client is able to view and modify their personal information in the account

Primary Actor:

Client

Pre-conditions:

Client must be logged in to system

Post-conditions:

Success end condition:

Client is able to view and update their personal information

Failure end condition:

Client is unable to update the account without the required information.

Main Success Scenario:

1. User clicks “Account” button
2. System displays the Account form
3. User clicks “Update” button
4. User enters phone number if it must be updated
5. User enters E-mail if it must be updated
6. User enters Address if it must be updated
7. User enters account password to authorize the update
8. User clicks “Save” button
9. System updates clients information

Use Case: View All Orders

ID: UC-14

Description:

The Clerk is able to view all the orders from the clients

Primary Actor:

Clerk

Pre-conditions:

Clerk must be logged in to system

Client has placed an order from the warehouse

Post-conditions:

Success end condition:

Clerk is able to see the clients orders

Failure end condition:

Clerk is unable to see the clients orders

Main Success Scenario:

1. User clicks “ Orders” button
2. System displays the Order Form
3. The table set displays the clients orders

Extension:

For step 3:

3. If the table set doesn't display the client orders , there must first be clients that order item(s).

Use Case: Alert Low inventory/Expiration Date

ID: UC-15

Description:

The Clerk is informed in a message automatically if the stock is low or the stock is about to expire

Primary Actor:

Clerk

Pre-conditions:

Clerk must be logged in to system

Post-conditions:

Success end condition:

Clerk is able to see the alert

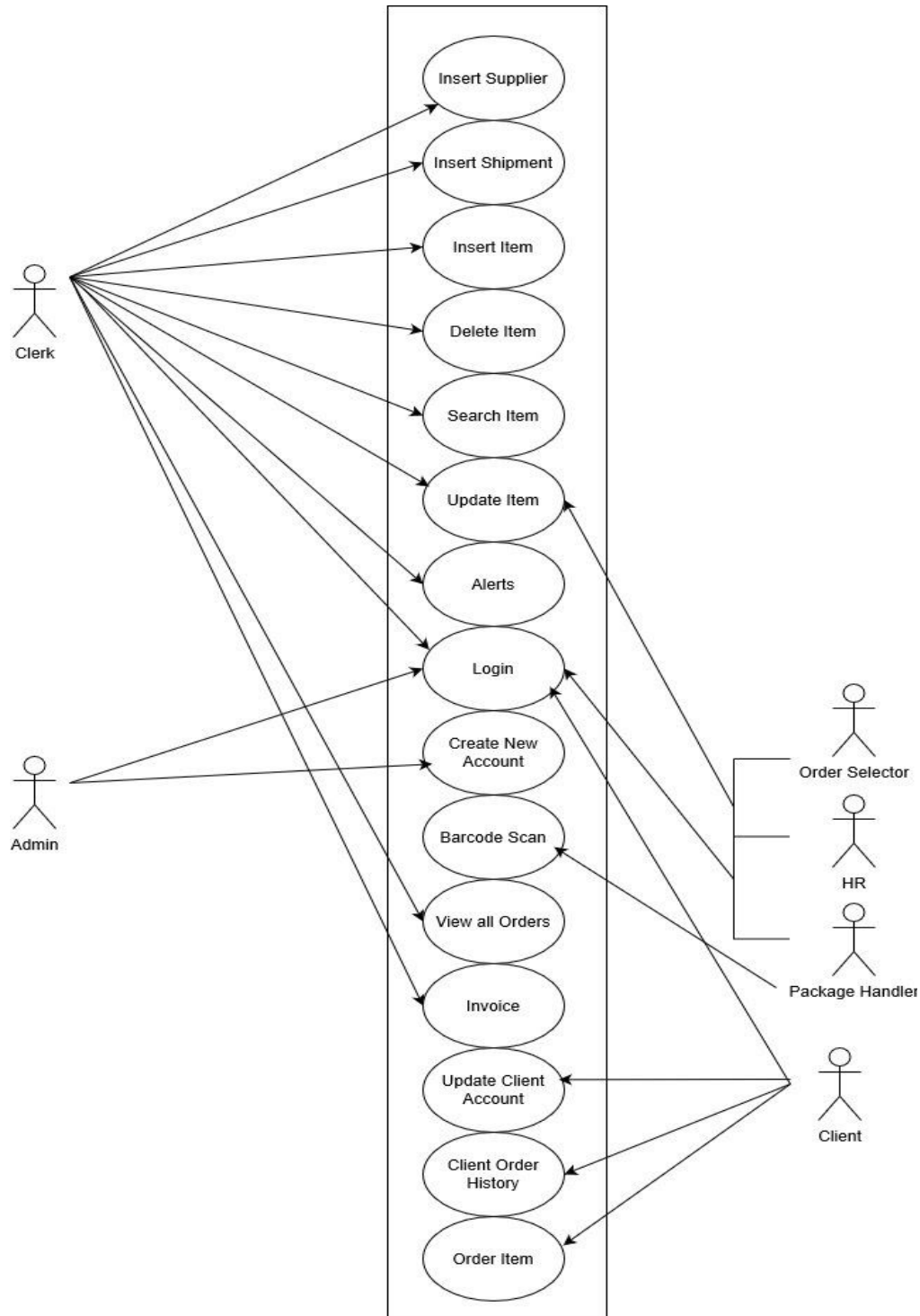
Failure end condition:

Clerk is unable to see the alert

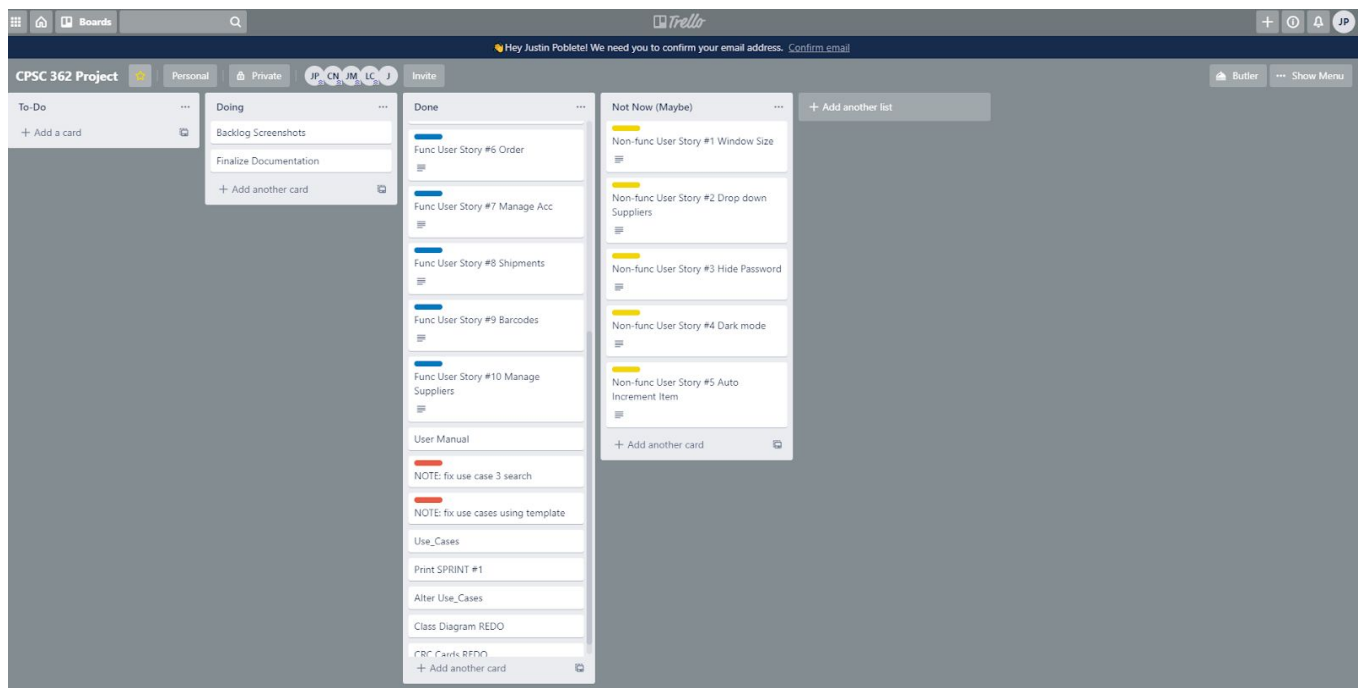
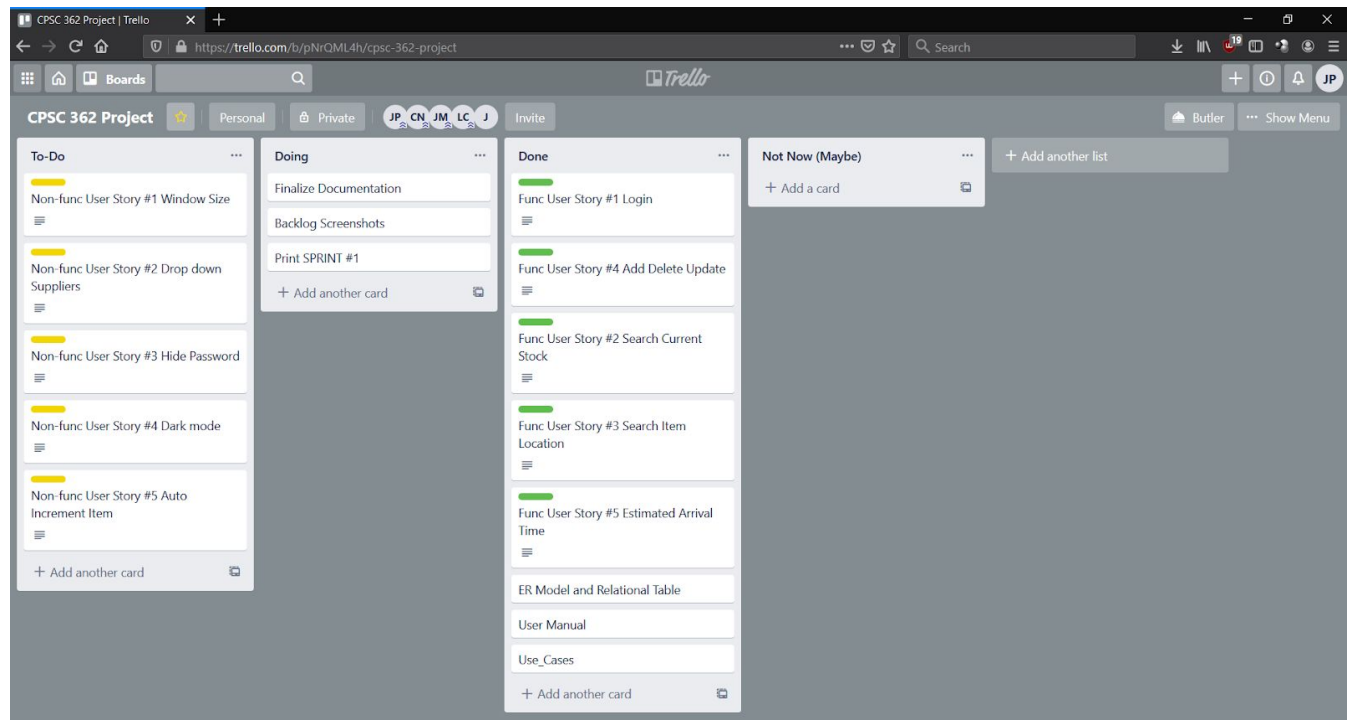
Main Success Scenario:

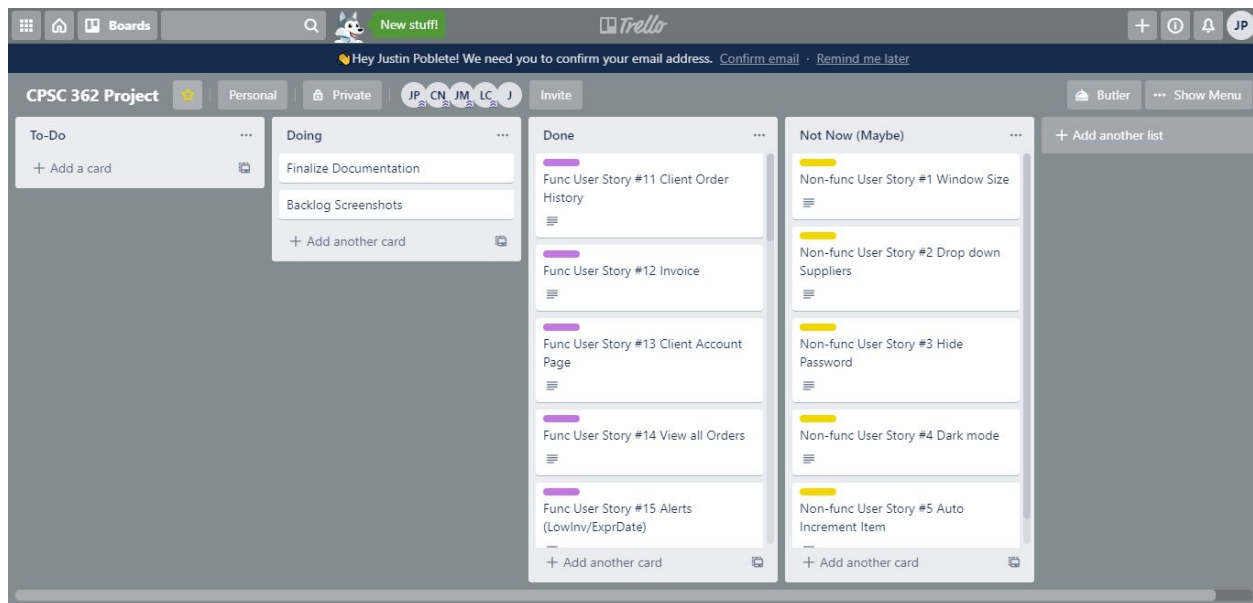
1. System displays the main menu
2. System then displays the alert message of low inventory
3. User clicks “Ok” button to confirm message
4. System then displays the alert message of soon to expire and expired items
5. User clicks “Ok” button to confirm message

Use Cases Diagram



Backlog ScreenShots





Pre-Game Planning

Upon being tasked with creating an application we began to brainstorm. We had come up with review websites, dating applications, and much more. We eventually settled on creating an inventory program for grocery stores. We came to realize that we wanted more functionality so further down the line we decided to move onto a larger scaled warehouse food system similar to Costco. Each member in the project team came up with their own 5 user stories we believed were necessary for the required software.

Justin: The first 5 user stories I had chosen were only from the top of my head. Basic functions I believed to be the top priority in a warehouse inventory program. With this being the case, a few of the other user stories from my group were similar.

John: I chose these 5 user stories by thinking about the needs of individual employees. I tried to think about how different workers with different jobs could all benefit from this software.

Juheng: The first 5 user stories that I came up with are what I believe are the basic functionalities for an inventory program.

Calvin: The first 5 user stores were chosen because user access is the first priority of the warehouse system. Then the other basic functions were for keeping track of the warehouse's inventory and updating necessary details.

Luis: The reason for choosing my 5 user stories is that they will satisfy the user and are key features in the database. The reason for implementing a login account and changing password is

that the user can have peace of mind the database is secure. Also, implementing delete and edit as key features that help maintain a database

Staging/Grooming Plan

We then went on to research actual employees' occupations that pertained to the warehouse system to best emulate what would be useful for our program. After discussion, we chose 10 user stories from the collection and prioritized them accordingly. Among the chosen 10, we utilized the scrum poker game to pick and prioritize the most important functions to fit the first phase of the project.

These are our results from the scrum poker game:

Story #	Story Description	Poker Score	First Sprint (Top 5)
1	HR - Login	76	*
2	Order selector – look up stock	63.33	*
3	Package handler – stock location	72	*
4	Client manager – look up client markets	25.2	
5	Stocker – scan in received items	25.4	
6	Clerk – insert distributor stock	34.6	*
7	Clerk – look up shipment times	34	*
8	Clerk – create and print invoices	17.6	
9	Clerk – look up expiration dates on stock	18.8	
10	HR – employee scheduling	6.2	

Summary of Poker Results:

For our poker game, we assigned scores between 0-100 based on how important each individual member thought the story was. We used www.pointingpoker.com to record our votes. The five user stories we chose from the poker game do not completely match up with our initial planning stage. The first three user stories, #1-3, were our highest priority user stories during initial planning and remained our highest three scoring stories during the game. These three

stories will make it to the first sprint. The next two stories, #4 and #5, which were initially higher priority, actually received lower scores than #6 and #7. Therefore, #6 and #7 will be making it into the first sprint, while #4 and #5 will be addressed later.

Analysis of Poker Results

Login accounts having the highest score makes sense, since the most basic functionality of an inventory system is being able to log in and access the database. Account management also includes basic security, since managers can control who gets accounts.

The next two are also very important features. The order selectors must be able to look up current stock so that they can plan and adjust future orders. This prevents the warehouse from over/under stocking and wasting money. Next, the package handlers must be able to look up package locations for the warehouse to reach basic levels of efficiency. #6 was chosen because the clerk will be handling most database tasks, so their access is essential to populate and manage the database. These four stories, #1-3 and 6, we selected primarily based on their importance for the basic operation of a distributor.

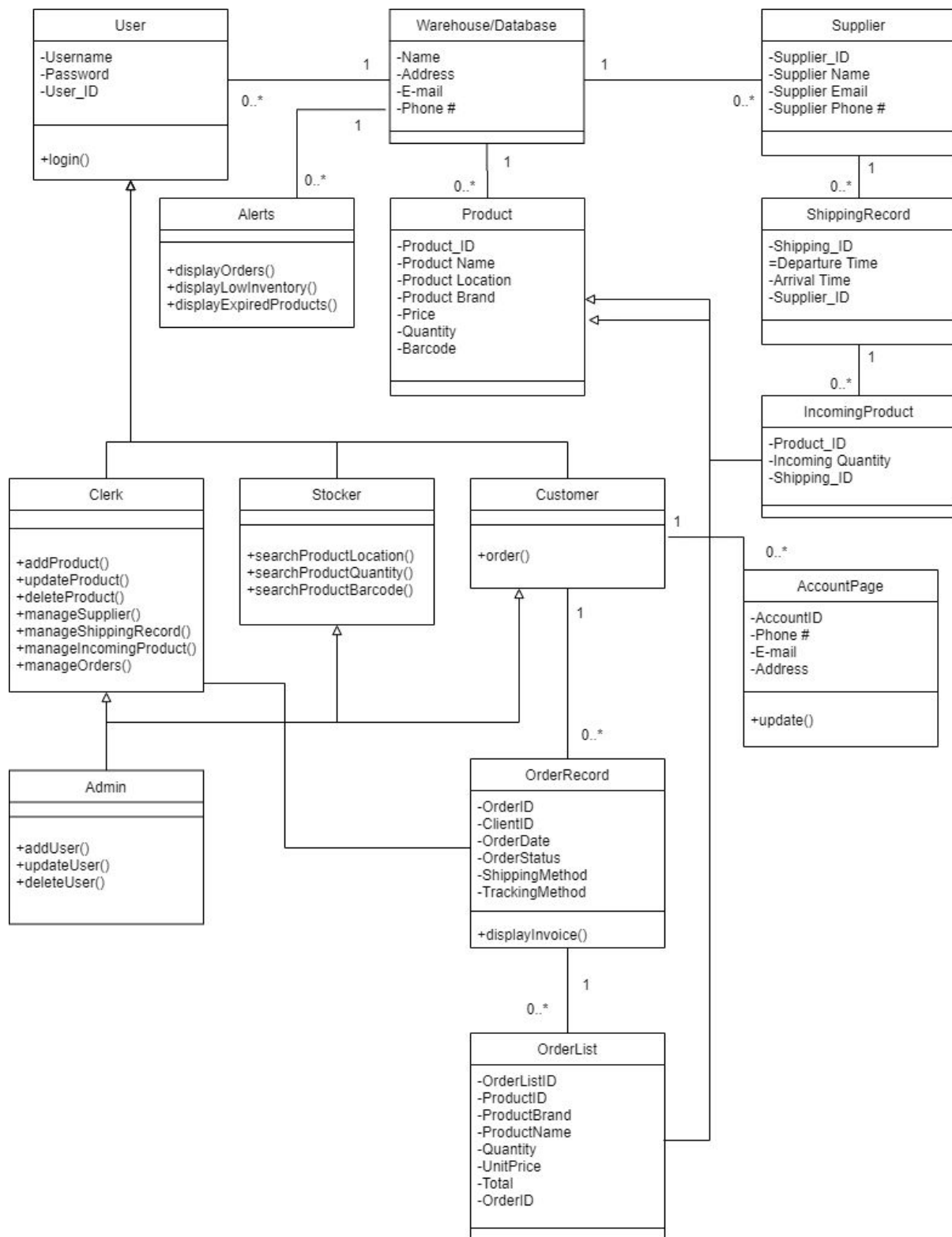
Clerks looking up shipment times received the last spot for our first sprint. Modern distributors work on very tight schedules, so being able to access incoming and outgoing shipment times is another important function of the warehouse.

The remaining stories were deemed non-essential and will either be implemented later, or have their functionality rolled into other portions of the program. #4 and #5 are fairly important and will probably be implemented in full down the line. #8-10 may be handled by other departments or software, so their inclusion or functionality may be adjusted later.

Development Process

When first developing the program, the team created an ER-diagram and Relational-diagram to distinguish all the items that are needed in a database. In this process, we organized the product information and supplier information to their specific tables. As the sprints went on, we added shipments and orders to these diagrams and tables with their corresponding attributes and keys. Search and account management functionalities were later implemented through research from various forums and tutorials. Everything was done in Windows Visual Studio with C# and connected to a SQL server.

Class Diagram



CRC Cards

Class Name: Warehouse	ID: 1	Type:
Description: Manages the entire system.		Associated Use Cases: 10
Responsibilities: Hold Users Hold Products Hold Suppliers Hold Orders		Collaborators: Users Suppliers Product Alerts

Attributes: Name Location Email Phone #
Relationships <ul style="list-style-type: none"> • Generalization: • Aggregation: User, Supplier, Product • Other Associations:

Class Name: User	ID: 2	Type:
Description: Users will be individual account holders that interact with the system, by first logging in.		Associated Use Cases: 10
Responsibilities: Ability to login		Collaborators: Clerk Stocker Customer Admin

Attributes: Username Password
--

User_ID
Relationships <ul style="list-style-type: none"> • Generalization: Clerk, Stocker, Customer, Admin • Aggregation: • Other Associations:

Class Name: Clerk	ID: 3	Type:
Description: User that Manages Products, Suppliers, and Orders.		Associated Use Cases: 7
Responsibilities: Add, delete, update all the products Add delete, update all the suppliers Delete and update orders		Collaborators: Admin

Attributes:
Relationships <ul style="list-style-type: none"> • Generalization: Admin • Aggregation: • Other Associations:

Class Name: Stocker	ID: 4	Type:
Description: User that can view and search the products in order to maintain the warehouse.		Associated Use Cases: 2
Responsibilities: Search product location Search product quantity Search product barcodes		Collaborators: Admin

Attributes:
Relationships <ul style="list-style-type: none"> • Generalization: Admin • Aggregation: • Other Associations:

Class Name: Customer	ID: 5	Type:
Description: User that places orders of items from the warehouse		Associated Use Cases: 1
Responsibilities: Create Order		Collaborators: Admin

Attributes: Customer_ID Customer Name Customer Email Customer Phone #
Relationships <ul style="list-style-type: none"> • Generalization: Admin • Aggregation: • Other Associations:

Class Name: Admin	ID: 6	Type:
Description: User that manages other users and has access to all other user's functions.		Associated Use Cases: 1

Responsibilities: Manage the accounts of each user. Supervise all the actions of each user. Test system functions	Collaborators: Clerk Stocker Customer
---	--

Attributes:
Relationships <ul style="list-style-type: none"> • Generalization: Clerk, Stocker, Customer • Aggregation: • Other Associations:

Class Name: Product	ID: 7	Type:
Description: The items being stored in the warehouse.		Associated Use Cases: 5
Responsibilities: To be received into the warehouse To be sold to customers		Collaborators: Warehouse IncomingProduct

Attributes: Product_Id Product Name Product Location Price Quantity
Relationships <ul style="list-style-type: none"> • Generalization: IncomingProduct • Aggregation: • Other Associations:

Class Name: Supplier	ID: 8	Type:
Description: Companies or individuals that ship out items to the warehouse.		Associated Use Cases:1
Responsibilities: Supply the warehouse.		Collaborators: Warehouse ShippingRecord

Attributes: Supplier_ID Supplier Name Supplier Phone #
Relationships <ul style="list-style-type: none"> • Generalization: • Aggregation: Warehouse, ShippingRecord • Other Associations:

Class Name: ShippingRecord	ID: 9	Type:
Description: A record of a shipment from a supplier that is on its way to the warehouse.		Associated Use Cases:1
Responsibilities: Keep track of shipments		Collaborators: Supplier IncomingProduct

Attributes: Shipping_ID Departure Time Arrival Time Supplier_ID
--

Relationships

- **Generalization:**
- **Aggregation:** Supplier, IncomingProduct
- **Other Associations:**

Class Name: IncomingProduct	ID: 10	Type:
Description: Items that are being shipped and added to the warehouse.		Associated Use Cases: 1
Responsibilities: To be added to the warehouse		Collaborators: ShippingRecord Product

Attributes:

Product_ID
Incoming Quantity
Shipping_ID

Relationships

- **Generalization:** Product
- **Aggregation:** Shipping Record
- **Other Associations:**

Class Name: Alerts	ID: 11	Type:
Description: Alerts let the user know what orders have been placed, low inventory quantity, and expired products.		Associated Use Cases: 1
Responsibilities: Notify the user Display orders Display low inventory Display expired products		Collaborators: Warehouse

Attributes:
Relationships <ul style="list-style-type: none"> • Generalization: • Aggregation: Warehouse • Other Associations:

Class Name: OrderRecord	ID: 12	Type:
Description: A record that an order that has been placed by a client.		Associated Use Cases:2
Responsibilities: Keep track of the order that has been placed for both the employees and clients Display invoice of selected order		Collaborators: Customer OrderList

Attributes: -OrderID -ClientID -OrderDate -OrderStatus -ShippingMethod -TrackingMethod
Relationships <ul style="list-style-type: none"> • Generalization: Product • Aggregation: Shipping Record • Other Associations:

Class Name: OrderList	ID: 13	Type:
--	---------------	--------------

Description: An itemized list of all the products within an order placed by the client	Associated Use Cases: 1
Responsibilities: Keep track of all the items in an order and be retrieved through the invoice	Collaborators: OrderRecord

Attributes: -OrderListID -ProductID -ProductBrand -ProductName -Quantity -UnitPrice -Total -OrderID
Relationships <ul style="list-style-type: none"> • Generalization: Product • Aggregation: OrderRecord • Other Associations:

Class Name: AccountPage	ID: 14	Type:
Description: Display the personal information of the client with the added ability to update their own information.	Associated Use Cases: 1	
Responsibilities: Display account information to clients Update information	Collaborators: Customer	

Attributes:

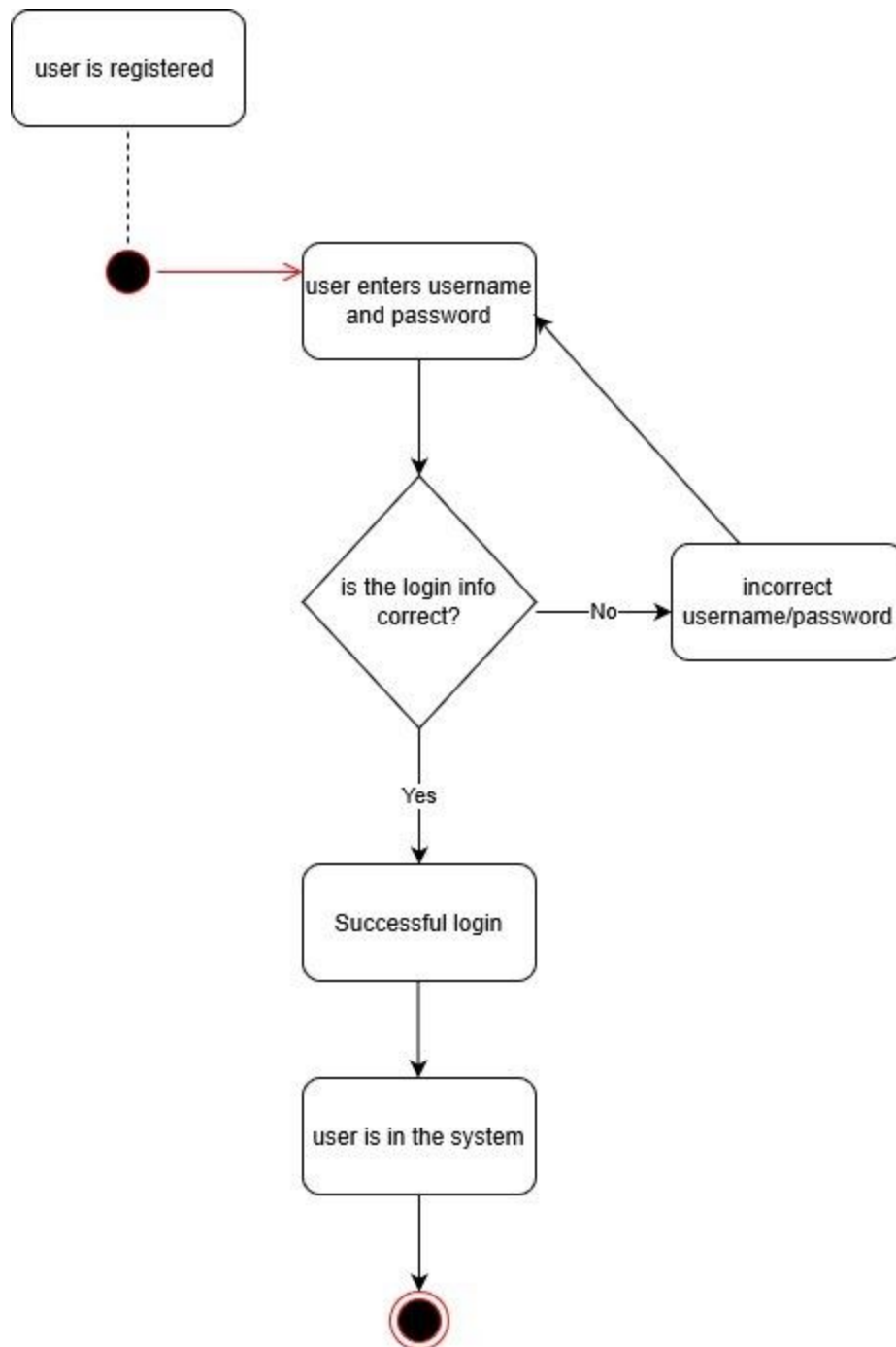
-AccountID
-Phone #
-E-mail
-Address

Relationships

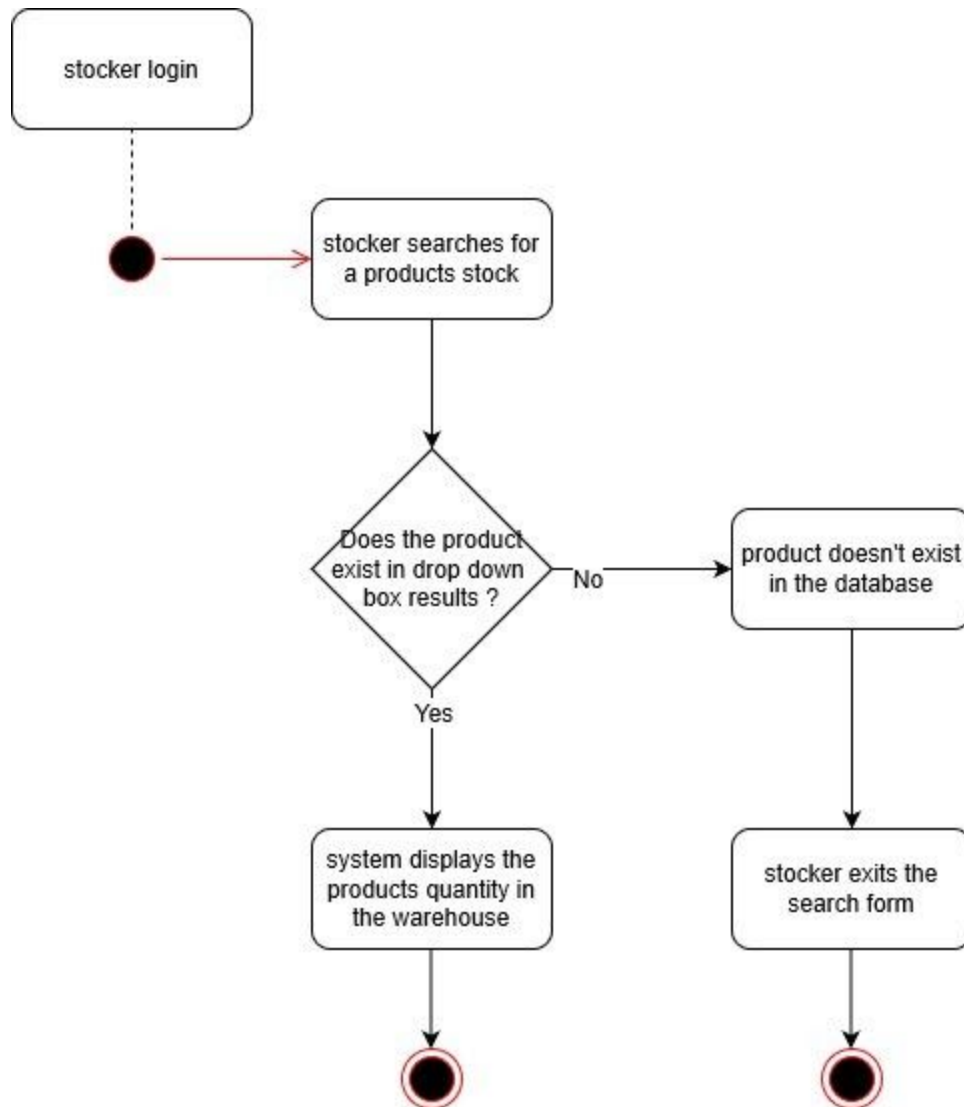
- **Generalization:**
- **Aggregation: Customer**
- **Other Associations:**

Activity Diagrams

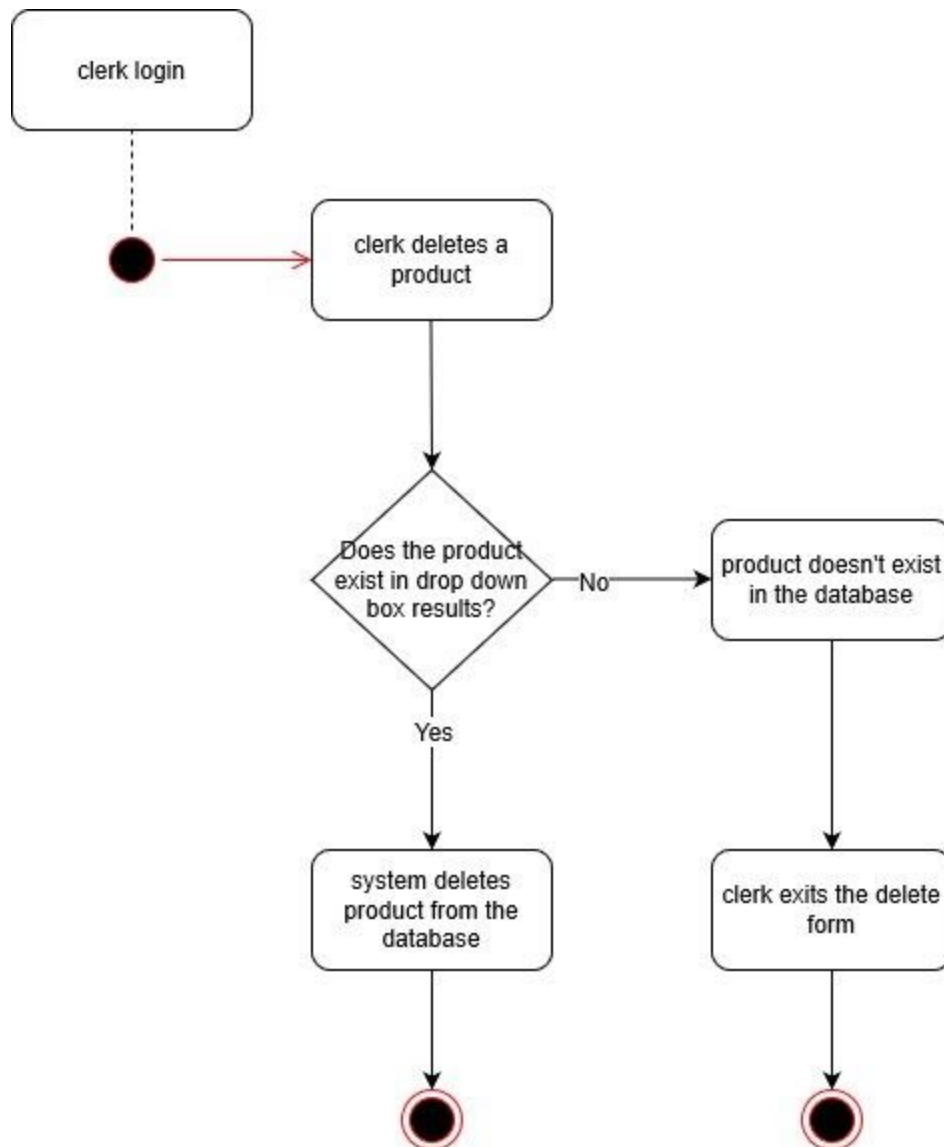
UC-01



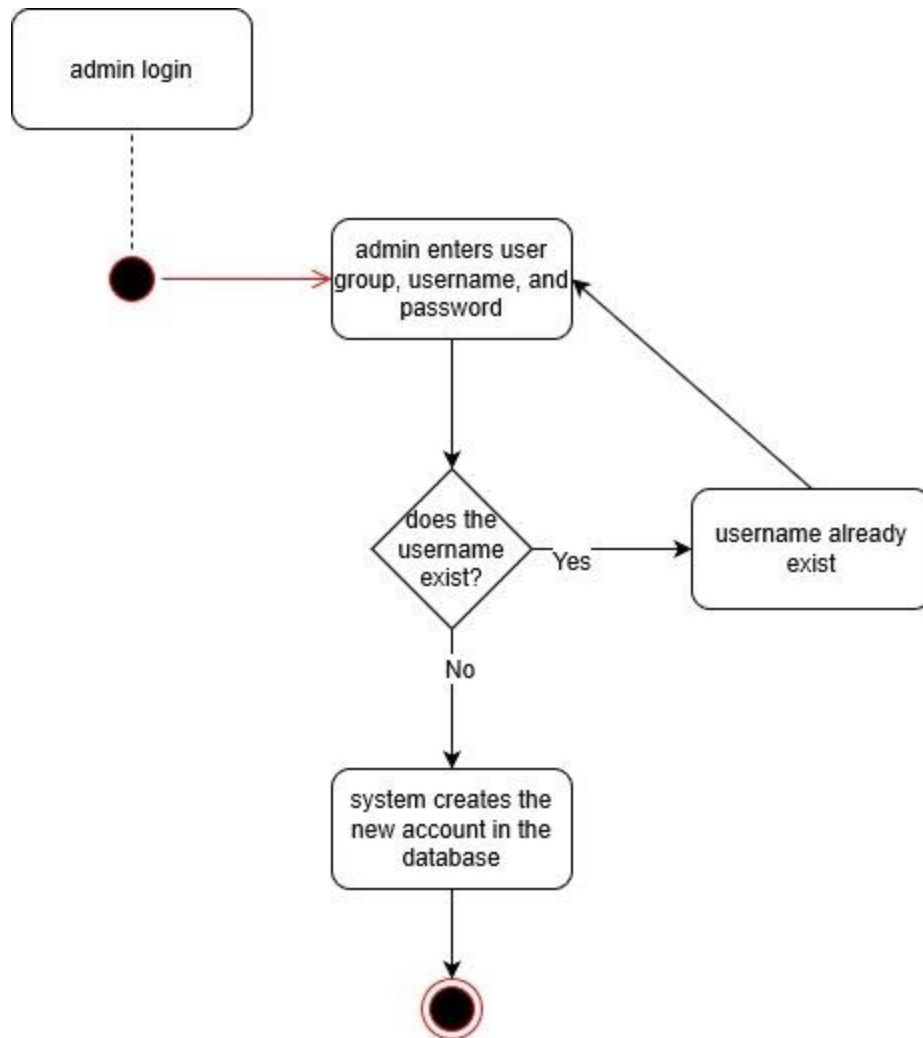
UC-03



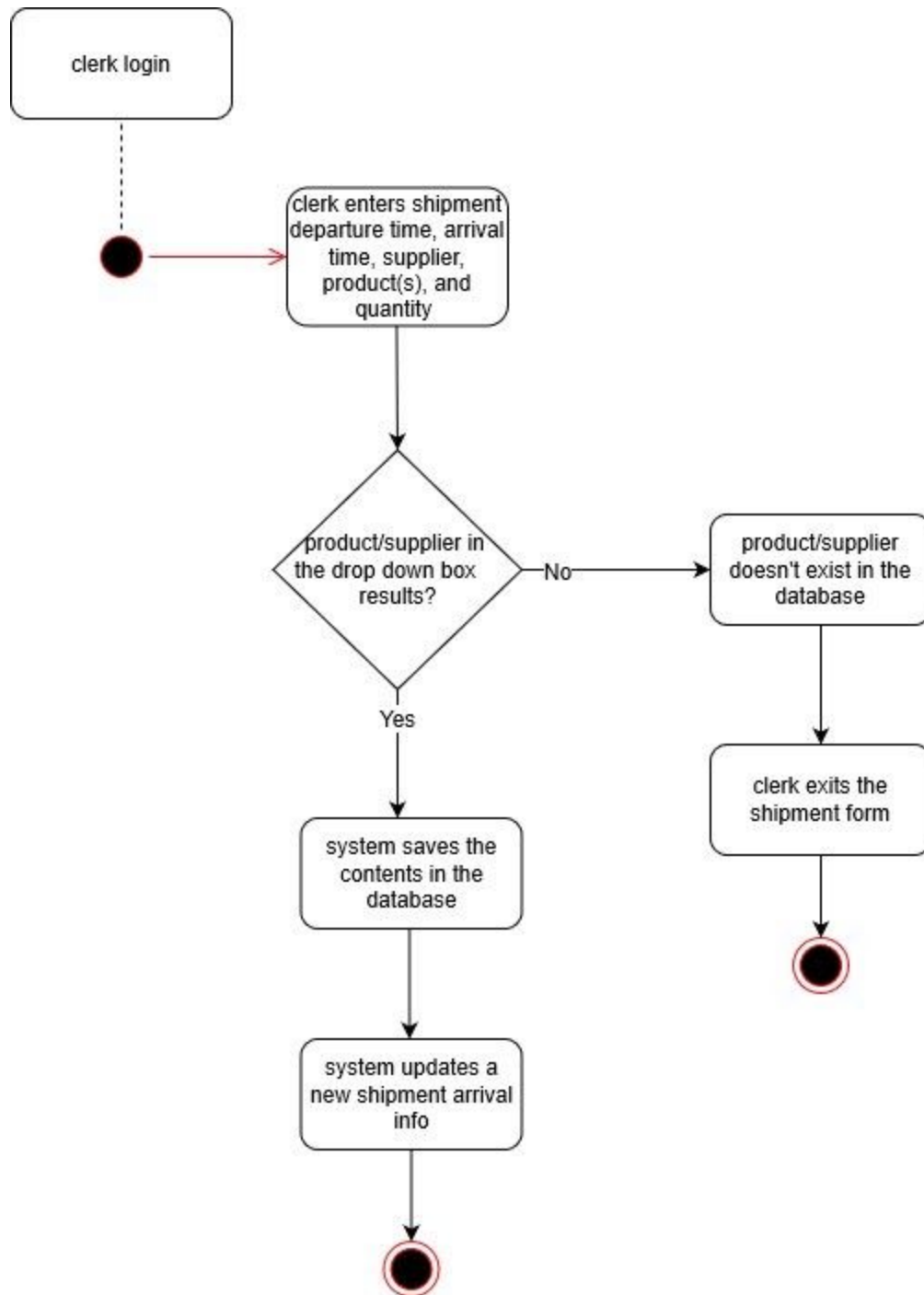
UC-05



UC-07



UC-08



Test Case #: 1 System: Warehouse Inventory Program Designed by: Juheng Mo Executed by: Short Description: Test the Warehouse Inventory Program login function	Test Case Name: Login Subsystem: Login Table Design Date: 4/21/2020 Execution Date:
--	--

Pre-Conditions:

Username "calvin" and password "123" are in the database
 The system displays the login menu.

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click "Login" button	The system displays the message "You did not enter username and password!"	Pass	
2	Enter "calvin"	The username textbox shows "calvin"	Pass	
3	Click "Login" button	The system displays the message "You did not enter a password!"	Pass	
4	Clear the username textbox	The username textbox is empty	Pass	
5	Enter "123"	The password textbox shows "****"	Pass	
6	Click "Login" button	The system displays the message "You did not enter a username!"	Pass	

7	Enter "calvin"	The username textbox shows "calvin"	Pass	
8	Click "Login" button	The system displays the main menu	Pass	
9	Check post-condition 1		Pass	
Post-Conditions: 1. The user sees the main menu				

Test Case #: 2 System: Warehouse Inventory Program Designed by: John Gardner Executed by: Short Description: Look up stock for products.	Test Case Name: Lookup Subsystem: Inventory Database Design Date: 4/21/2020 Execution Date:
---	--

Pre-Conditions: Username "calvin" and password "123" are in the database Inventory database is populated with some products and product amounts. For this test case, database has 10 Diet Coke, product ID # 0003. The System displays main menu				
Step	Action	Expected System Response	Pass/Fail	Comment
1	Click "search product stock" button	Display search box	Pass	

2	View drop down menu	Products are displayed in drop down menu, including "Coca Cola Diet Coke"	Pass	
3	Select "Diet Coke" from drop down menu and click "search"	Display dialogue box with product ID "#0003", name "Diet Coke", and stock "10"	Pass	
4	Click "OK" in dialogue box	Dialogue box closes, return to search box	Pass	
5	Click "Exit" in search box	Search box closes, return to main menu	Pass	
6	Check post-condition 1		Pass	

Post-Conditions:

1. Return to the main menu. Inventory contents should not be changed by this test.

<p>Test Case #: 3</p> <p>System: Warehouse Inventory Program</p> <p>Designed by: Luis Camacho</p> <p>Executed by:</p> <p>Short Description: Test to create a new account for a user</p>	<p>Test Case Name: Create Account</p> <p>Subsystem: Users</p> <p>Design Date: 4/21/2020</p> <p>Execution Date:</p>
--	--

<p>Pre-Conditions:</p> <p>Username "calvin" and password "123" are in the database</p> <p>There is no user that uses the username "Bob"</p> <p>The System displays main menu</p>

Step	Action	Expected System Response	Pass/Fail	Comment
1	Click "Create Account" button	System displays the Create Account form	Pass	
2	Enter username "Bob"	Username shows "Bob"	Pass	
3	Enter Password "321"	Password Shows "321"	Pass	
4	Choose User Group "Admin"	User Group shows "Admin"	Pass	
8	Click "Create" button	The system displays message of the account was created	Pass	
9	Select the "Ok" button from the confirmation message	The system displays the new User menu with an updated gridview of users	Pass	
10	Check post-condition 1.		Pass	
Post-Conditions: 1. New user account of "Bob" is saved in the user database				

Test Case #: 4 System: Warehouse Inventory Program Designed by: Calvin Nguyen Executed by: Short Description: Test the Update product information	Test Case Name: Update Product Info Subsystem: Update Product Table Design Date: 4/21/2020 Execution Date:
--	---

Pre-Conditions:

Username "calvin" and password "123" are in the database

The Product "Coca Cola" is in the database and the current quantity is 10. Product Id #0009

The system displays the main menu

Step	Action	Expected System Response	Pass/Fail	Comment
1	User clicks on "Update" in drop down menu	The system displays drop down menu for User to select	Pass	
2	User clicks "Update Product"	The system displays the update form for User.	Pass	
3	User clicks on ProductID drop down menu to select the Product to be updated	The system displays all current products in the system.	Pass	
4	User clicks ProductID 9 for Coca Cola	The system selects ProductID 9	Pass	
5	User enters "50" in Quantity field and press Update	The system displays a message to notify user about the update	Pass	
6	User clicks OK to finish the update	The system empty all the fields for user to update next product	Pass	

7	Check post-condition 1		Pass	
Post-Conditions: 1. The new Quantity for the product Coca Cola is 50 in the database.				

Test Case #: 5 System: Warehouse Inventory Program Designed by: John Gardner Executed by: Short Description: Delete an item from the database.	Test Case Name: Delete Item Subsystem: Inventory Database Design Date: 4/21/2020 Execution Date:
---	---

Pre-Conditions: Username "calvin" and password "123" are in the database Inventory is populated with some products, including name, amount, and IDs For this test, inventory will have "Coca Cola Diet Coke", ProductID #0003, quantity 10				
Step	Action	Expected System Response	Pass/Fail	Comment
1	Click "Delete" drop down menu	"Delete Product" is displayed in the drop down menu	Pass	
2	Click "Delete Product"	"Delete Product" box is displayed	Pass	
3	User searches through product drop down menu	"Coca Cola Diet Coke" is among the products listed	Pass	

4	User selects "Coca Cola Diet Coke" and presses delete	Display dialogue box that says ProductID "#0003", name "Diet Coke" has been deleted, "Diet Coke" deleted from inventory	Pass	
5	User exits "Delete" box	Return to main menu	Pass	
6	User checks inventory for post conditions	"Diet Coke" not found	Pass	
7	Check post-condition 1		Pass	

Post-Conditions:

- Product "Diet Coke" is no longer in the inventory.

Test Case #: 6 System: Warehouse Inventory Program Designed by: Calvin Nguyen Executed by: Short Description: Test the client's ability to order items.	Test Case Name: Order Item Subsystem: Order Design Date: 4/21/2020 Execution Date:
--	---

Pre-Conditions: Username "traderjoe" and password "123" are in the database The Product "Pepsi, Sierra Mist" is available in the database with more than 10 quantity. The system displays the login menu
--

Step	Action	Expected System Response	Pass/Fail	Comment
1	The user enters "traderjoe" and "123" for username and password respectively	The system authenticates username and password then displays the Order Form for client	Pass	
2	User selects 10 quantities of "Pepsi Sierra Mist."	The display saves the Quantity 10 for "Pepsi Sierra Mist"	Pass	
3	User selects "USPS" from the Shipping method dropdown menu.	Shipping Method shows "USPS"	Pass	
4	The User clicks "Order Now" to finalize the order to be placed.	The system displays a message of successful operation	Pass	
5	The User clicks OK to confirm the purchase order.	The system saves the order and subtract product quantity that was purchased from the database.	Pass	
6	Check post-condition 1 and 2		Pass	
Post-Conditions: <ol style="list-style-type: none">1. The system saves the order that was placed into the database.2. The system updates the quantity of the product that was purchased.				

Test Case #: 7 System: Warehouse Inventory Program Designed by: Luis Camacho Executed by: Short Description: Test the functionality to delete an account.	Test Case Name: Delete Account Subsystem: Users Design Date: 4/21/2020 Execution Date:
--	---

Pre-Conditions:

Username "calvin" and password "123" are in the database

User account by the username "Bob" is in the database

System displays main menu

Step	Action	Expected System Response	Pass/Fail	Comment
1	Click "Delete account" button	System displays delete account form	Pass	
2	View drop down menu	Usernames are displayed in drop down menu, including "Bob"	Pass	
3	Select "Bob" from drop down menu	Drop down box shows "Bob"	Pass	
4	Click "delete" button	System displays message that account has been deleted	Pass	
5	Select the "Ok" button from the confirmation message	The system displays the Delete User menu with an updated gridview of users	Pass	
6	Check post-condition 1		Pass	

Post-Conditions:

1. The old user account “Bob” has been deleted in the user database

Test Case #: 8**System:** Warehouse Inventory Program**Designed by:** Juheng Mo**Executed by:****Short Description:** Test the Insert Shipment function**Test Case Name:** Insert Shipment**Subsystem:** Shipping Record Table**Design Date:** 4/21/2020**Execution Date:****Pre-Conditions:**

Username “calvin” and password “123” are in the database

The product “Coca Cola” is in the database

The system displays the main menu

Step	Action	Expected System Response	Pass/Fail	Comment
1	Click “Insert ” button in drop down menu	The system displays the drop down menu for “insert”	Pass	
2	Click “Insert Shipping Information”	The system displays the insert shipment menu	Pass	
3	Enter “04/22/2020” for departure date	The departure date textbox shows “04/22/2020”	Pass	
4	Enter “04/23/2020” for arrival date	The departure date textbox shows “04/23/2020”	Pass	

5	Click the drop down box for supplier name	The dropdown box shows a list of supplier name in database	Pass	
6	Click "Coca-Cola Company" in drop down box	The supplier name dropdown box shows "Coca-Cola Company"	Pass	
7	Click the drop down box in the row that has a product brand "Coca Cola" and a product name "Coca Cola"	The dropdown box shows option 1 to 10	Pass	
8	Select "1" in the dropdown box	The dropdown box shows "1"	Pass	
9	Click "Insert" button	The system shows a messaging saying that shipment information is inserted	Pass	
10	Check-post condition 1		Pass	
Post-Conditions: <ol style="list-style-type: none"> Shipment information for 1 case of Coca Cola from The Coca-Cola Company is saved in the database 				

Test Case #: 9 System: Warehouse Inventory Program Designed by: Justin Poblete Executed by: Short Description: Test the Warehouse Inventory Program search barcode function	Test Case Name: Search Barcode Subsystem: Product Design Date: 04/21/2020 Execution Date:
--	--

Pre-Conditions:

Username "calvin" and password "123" are in the database

The product "Coca Cola" is in the database.

The barcode # for Coca Cola is 827369192

The system displays the main menu.

Step	Action	Expected System Response	Pass /Fail	Comment
1	Select "Product Barcode" Button.	The system displays the Product Barcode menu.	Pass	
2	Select the product "Coca Cola Coca Cola" using the dropdown menu.	The system expands the dropdown menu and Coca Cola is available.	Pass	
3	Select "View"	The system displays the barcode and number	Pass	
4	Check post-condition 1		Pass	

Post-Conditions:

1. The product barcode and barcode number as displayed.

Test Case #: 10 System: Warehouse Inventory System Designed by: Justin Poblete Executed by: Short Description: Test the Warehouse Inventory Program insert supplier function	Test Case Name: Insert Supplier Subsystem: Supplier Design Date: 04/21/2020 Execution Date:
---	--

Pre-Conditions:

The user is logged in

The test supplier information inputted will be "Test, test@gmail.com, (555) 555-5555" with the Supplier ID 0003

The system displays the main menu

Step	Action	Expected System Response	Pass/Fail	Comment
1	Select "Insert Supplier" tab	The system displays the Insert Supplier menu	Pass	
2	Enter "Test" into Supplier Name	Supplier Name Shows "Test"	Pass	
3	Enter " test@gmail.com " into E-Mail	Phone Number shows " test@gmail.com "	Pass	
4	Enter "(555) 555-5555" into Phone Number	Phone Number shows "(555) 555-5555"	Pass	
5	Select "Insert" Button	The system displays a confirmation message with the Supplier ID	Pass	

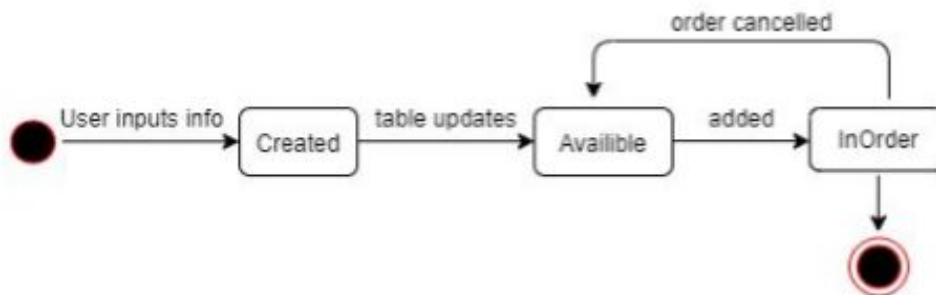
6	Select the “Ok” button from the confirmation message	The system displays the Insert Supplier menu with an updated gridview of Suppliers	Pass	
7	Check post-condition 1		Pass	

Post-Conditions:

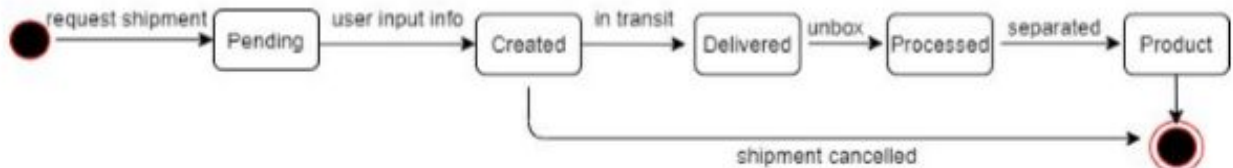
1. The new supplier “Test” is saved onto the database.

State Diagrams

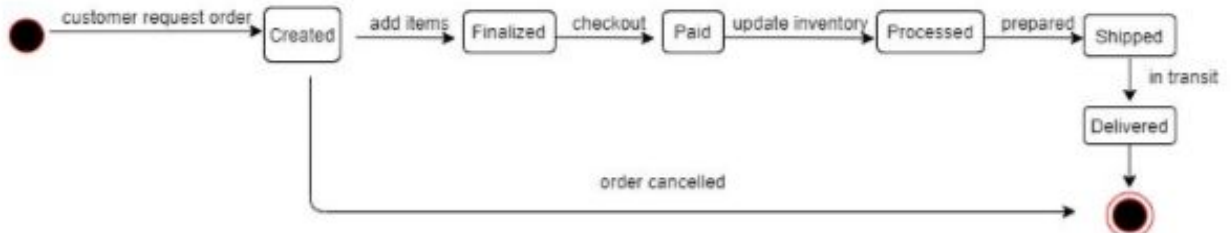
Product



Shipment

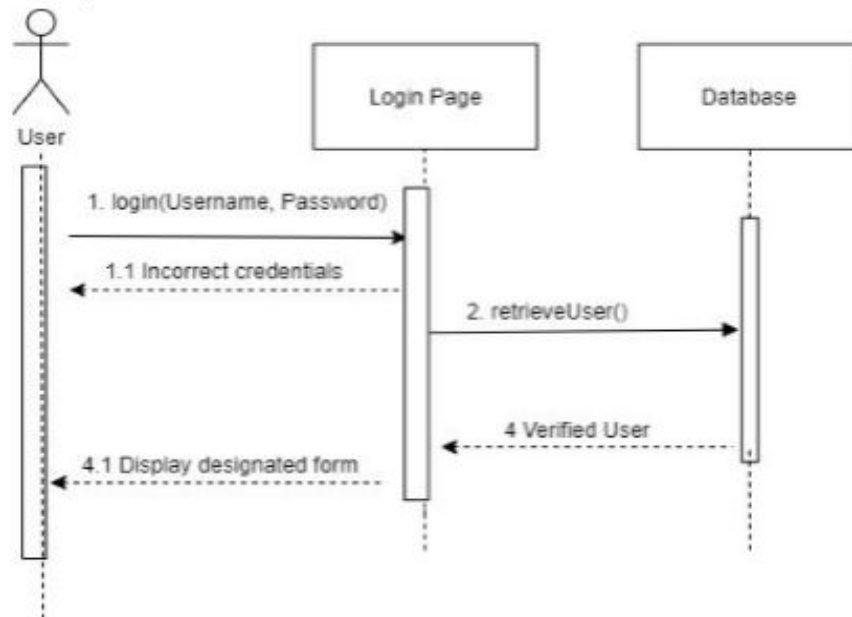


Order

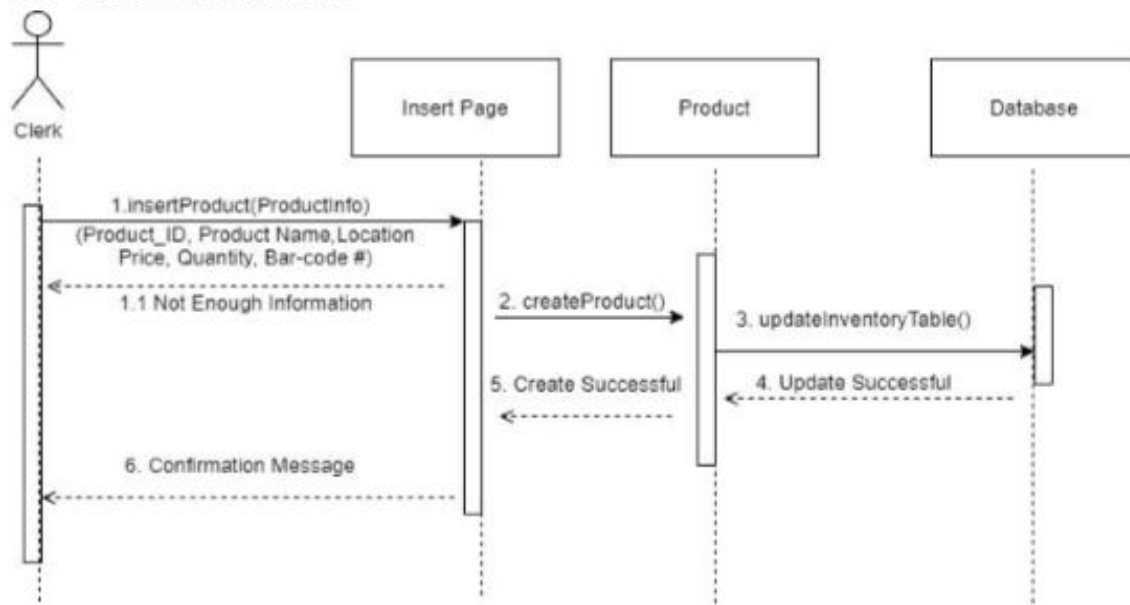


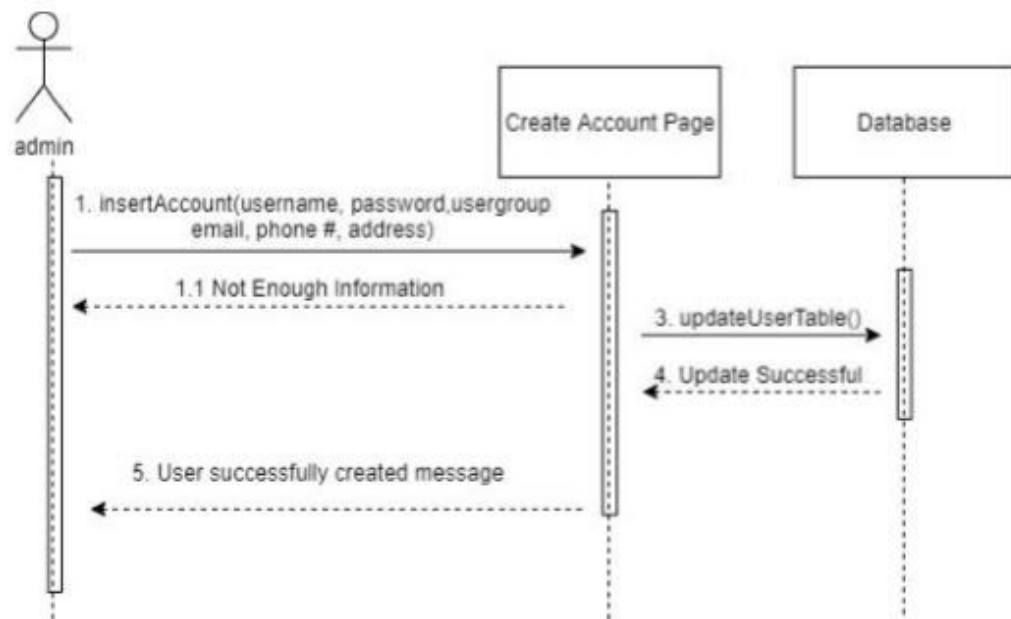
Sequence Diagrams

Use Case: User Login



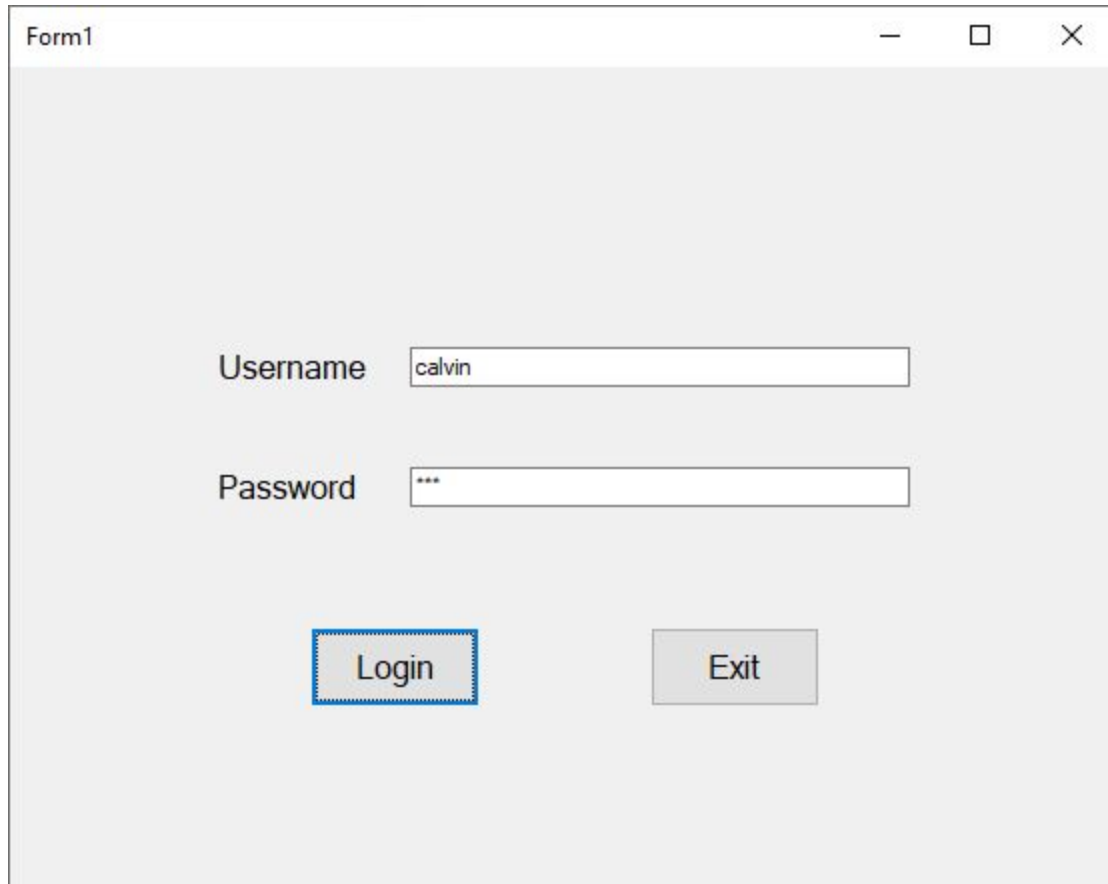
Use Case: Insert Product



Use Case: Insert User

User Manual

User Story 1: Login

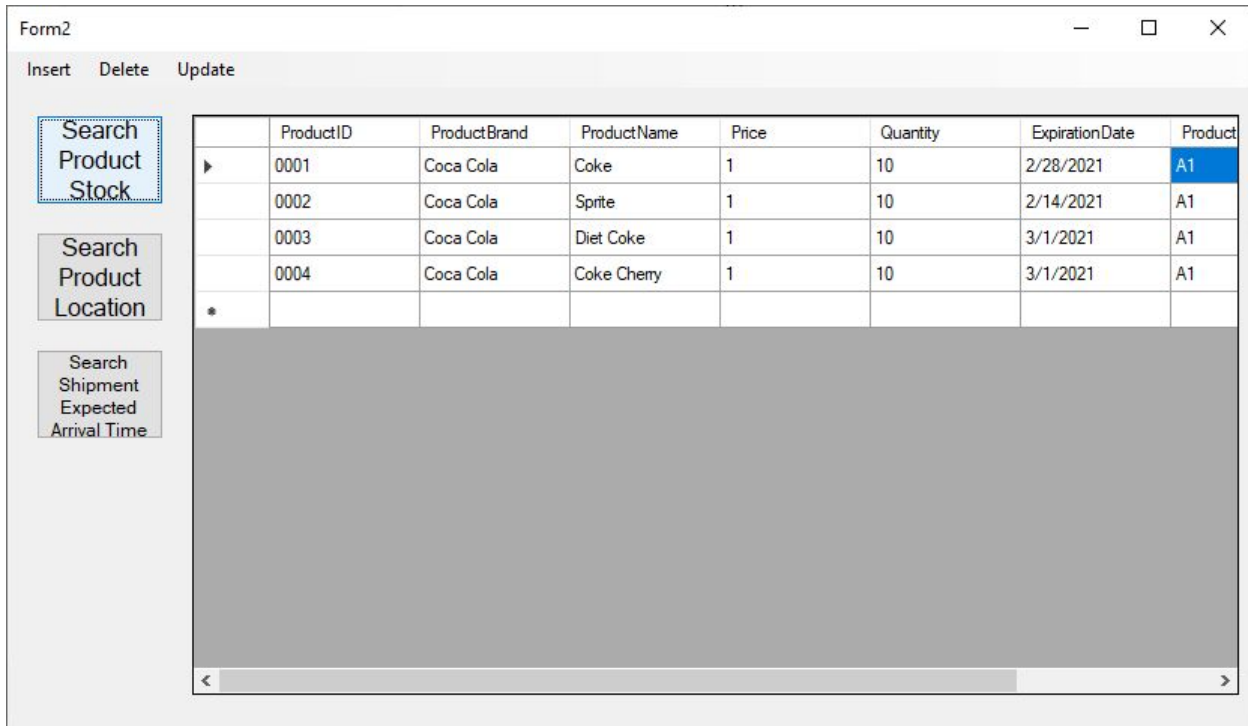


The screenshot shows a Windows-style window titled "Form1" with standard minimize, maximize, and close buttons. The form has a light gray background. It contains two text input fields: "Username" with the text "calvin" and "Password" with three asterisks "***". Below the fields are two buttons: "Login" (highlighted with a blue dotted border) and "Exit".

1. Input username in “Username” field.
2. Input password in “Password” field.
3. Click the “Login” button.
4. If the login was successful, the program will proceed to the main menu. Otherwise an error message will appear.

User Story 2: Search Product Stock

1. Click the “Search Product Stock” button on the main inventory screen.



Form2

Insert Delete Update

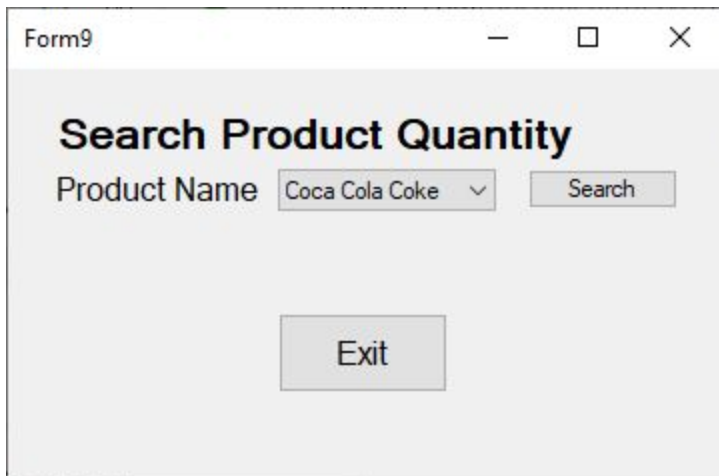
Search Product Stock

Search Product Location

Search Shipment Expected Arrival Time

	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
▶	0001	Coca Cola	Coke	1	10	2/28/2021	A1
	0002	Coca Cola	Sprite	1	10	2/14/2021	A1
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
	0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1
*							

2. Select the product to lookup in the drop down menu.



Form9

Search Product Quantity

Product Name Coca Cola Coke ▼ Search

Exit

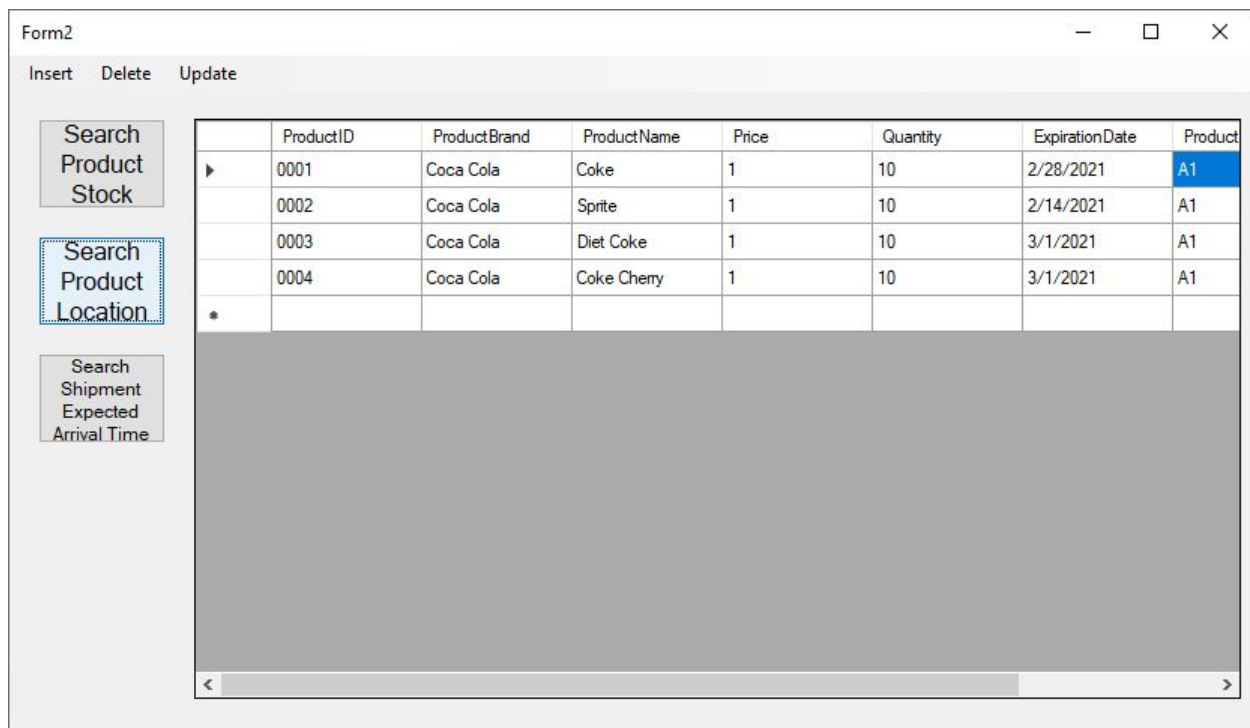
3. Click the “Search” button.

4. A dialogue box will appear displaying the item's current stock.



User Story 3: Search Product Location

1. Click the “Search Product Location” button on the main menu.



Form2

Insert Delete Update

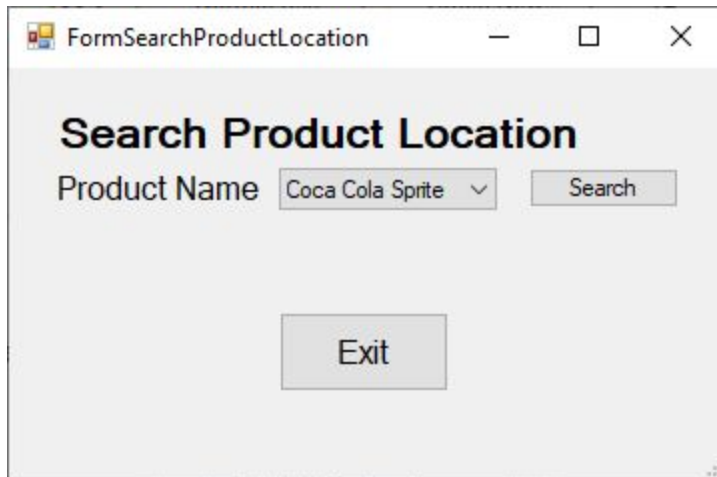
Search Product Stock

Search Product Location

Search Shipment Expected Arrival Time

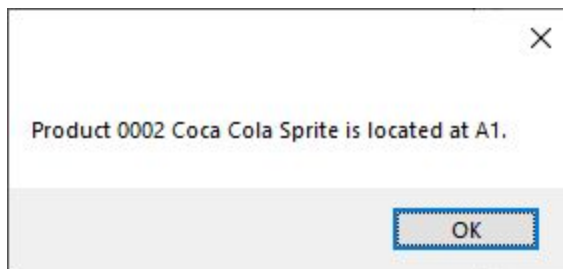
	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
▶	0001	Coca Cola	Coke	1	10	2/28/2021	A1
	0002	Coca Cola	Sprite	1	10	2/14/2021	A1
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
	0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1
*							

2. Select the product to look up in the drop down menu.



The image shows a Windows application window titled "FormSearchProductLocation". The window has a standard title bar with minimize, maximize, and close buttons. The main content area has a light gray background. At the top, the text "Search Product Location" is displayed in a bold, black font. Below this, there is a label "Product Name" followed by a dropdown menu showing "Coca Cola Sprite" with a downward arrow. To the right of the dropdown is a "Search" button. Below these elements is a large "Exit" button. The window is centered on the screen.

3. Click the "Search" button.
4. A dialogue box will appear displaying the item's current location.



The image shows a small dialog box with a white background and a gray border. It has a close button (X) in the top right corner. The text inside the dialog box reads "Product 0002 Coca Cola Sprite is located at A1." Below the text is an "OK" button. The dialog box is centered on the screen.

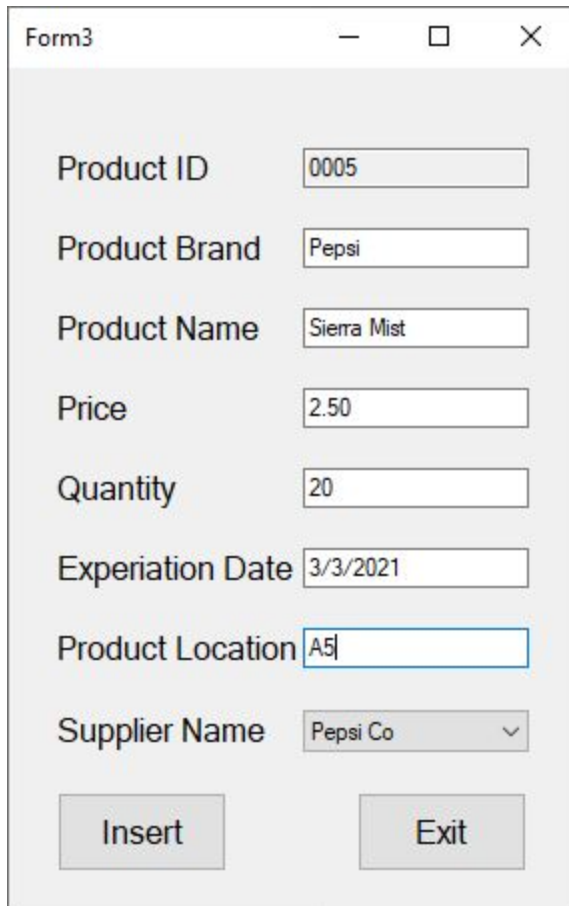
User Story 4: Add Product

1. Click “Insert” drop down menu at the top left of the main inventory screen.

The screenshot shows a software application window titled "Form2". At the top left, there is a menu bar with "Insert", "Delete", and "Update" options. The "Insert" menu is open, showing a dropdown list with "Insert Product" (highlighted in blue) and "Insert Supplier". Below the menu, on the left side, there are three buttons: "Product Stock", "Search Product Location", and "Search Shipment Expected Arrival Time". The main area of the window contains a table with the following columns: ProductID, ProductBrand, ProductName, Price, Quantity, ExpirationDate, and Product. The table has four rows of data, with the first row (ProductID 0001) highlighted in blue. Below the table, there is a large grey rectangular area, likely a placeholder for a form or additional data. A scrollbar is visible at the bottom of the table area.

ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
0001	Coca Cola	Coke	1	10	2/28/2021	A1
0002	Coca Cola	Sprite	1	10	2/14/2021	A1
0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1

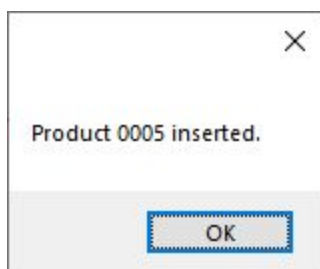
2. Click “Insert Product”.



A screenshot of a Windows application window titled "Form3". The window contains several text input fields and a dropdown menu, each with a label to its left. The fields are: "Product ID" with "0005", "Product Brand" with "Pepsi", "Product Name" with "Sierra Mist", "Price" with "2.50", "Quantity" with "20", "Experation Date" with "3/3/2021", "Product Location" with "A5", and "Supplier Name" with a dropdown menu showing "Pepsi Co". At the bottom of the form are two buttons: "Insert" and "Exit".

Field	Value
Product ID	0005
Product Brand	Pepsi
Product Name	Sierra Mist
Price	2.50
Quantity	20
Experation Date	3/3/2021
Product Location	A5
Supplier Name	Pepsi Co

3. Fill in each field with the appropriate information.
4. Supplier Name is filled with a drop down menu.
5. When all fields have been filled, click "Insert".
6. If everything was inputted correctly, a confirmation pop-up will appear:



A screenshot of a small confirmation dialog box. It has a close button (X) in the top right corner. The text inside reads "Product 0005 inserted." At the bottom is an "OK" button.

Product 0005 inserted.

OK

7. The product will now appear in the database:

Form2

Insert Delete Update

Search Product Stock

Search Product Location

Search Shipment Expected Arrival Time

	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
▶	0001	Coca Cola	Coke	1	10	2/28/2021	A1
	0002	Coca Cola	Sprite	1	10	2/14/2021	A1
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
	0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1
➡	0005	Pepsi	Sierra Mist	2.50	20	3/3/2021	A5
*							

User Story 4: Delete Product

1. Click on the “Delete” drop down menu.
2. Click “Delete Product”.

Form2

Insert Delete Update

Delete Product

Delete Supplier

Search Product Stock

Search Product Location

Search Shipment Expected Arrival Time

	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
▶	0001	Coca Cola	Coke	1	10	2/28/2021	A1
	0002	Coca Cola	Sprite	1	10	2/14/2021	A1
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
	0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1
	0005	Pepsi	Sierra Mist	2.50	20	3/3/2021	A5
*							

3. The “Delete Product” page will appear:

The screenshot shows a window titled 'Form4' with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there is a label 'Product Name' followed by a drop-down menu currently displaying 'Pepsi Sierra Mist'. Below the drop-down menu are two buttons: 'Delete' on the left and 'Exit' on the right.

4. Select the name of the product to be deleted in the drop-down menu.
5. Click the “Delete” button.
6. A confirmation box will appear if the deletion is successful, and the item is removed from the database.

The screenshot shows a larger window titled 'Form2' with a menu bar containing 'Insert', 'Delete', and 'Update'. On the left side, there are three search buttons: 'Search Product Stock', 'Search Product Location', and 'Search Shipment Expected Arrival Time'. The main area contains a table with the following data:

	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
▶	0001	Coca Cola	Coke	1	10	2/28/2021	A1
	0002	Coca Cola	Sprite	1	10	2/14/2021	A1
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	
	0004	Coca Cola	Coke Cherry	1	10	3/1/2021	
*							

Below the table is a large grey rectangular area. Overlaid on the bottom right of the 'Form2' window is the 'Form4' window from the previous screenshot. A small confirmation dialog box titled 'Product Deleted.' with an 'OK' button is also overlaid on top of the 'Form4' window.

User Story 4: Update Product

1. Click on the “Update” dropdown menu.
2. Select “Update Product”.

ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
0001	Coca Cola	Coke	1	10	2/28/2021	A1
0002	Coca Cola	Sprite	1	10	2/14/2021	A1
0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1
*						

3. Input the Product ID for the product that will be modified.
4. Fill in any fields that need to be modified in the product entry. Fields can be left blank if no change is to be made for that portion of the product's entry.

Form7

Product ID: 0004

Product Brand:

Product Name:

Price:

Quantity: 5

Expiration Date:

Distributor ID:

Edit Exit

5. Click the “Update” button, and the entry for that product will be modified.

Form2

Insert Delete Update

Search Product Stock

Search Product Location

Search Shipment Expected Arrival Time

	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	ProductLocation	SupplierID
▶	0001	Coca Cola	Sprite	10	10	2/28/2021	A1	0001
	0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1	0001
	0004	Coca Cola	Coke Cherry	1	5	3/1/2021	A1	0001
	0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
*								

Product ID: 0004 successfully updated.

OK

Form7

Product ID*: 0004

Product Brand:

Product Name:

Price:

Quantity: 5

Expiration Date:

Product Location:

Supplier ID:

Update Exit

User Story 5: Search Shipment Times

1. Click the “Search Shipment Expected Arrival Time” on the main inventory screen.

The screenshot shows a window titled "Form2" with a menu bar containing "Insert", "Delete", and "Update". On the left is a sidebar with three buttons: "Search Product Stock", "Search Product Location", and "Search Shipment Expected Arrival Time" (which is highlighted with a red dashed border). The main area contains a table with the following data:

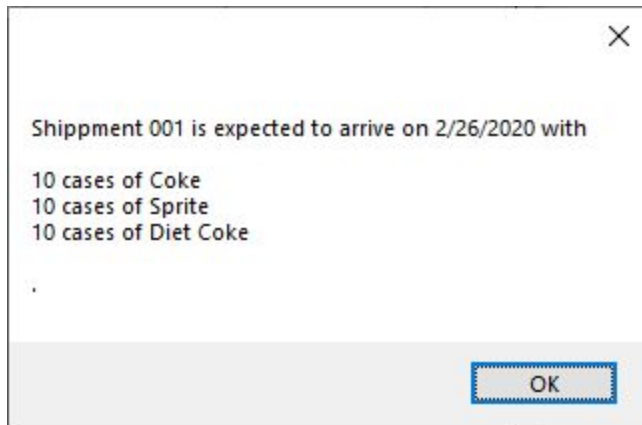
	ProductID	ProductBrand	ProductName	Price	Quantity	ExpirationDate	Product
▶	0001	Coca Cola	Coke	1	10	2/28/2021	A1
	0002	Coca Cola	Sprite	1	10	2/14/2021	A1
	0003	Coca Cola	Diet Coke	1	10	3/1/2021	A1
	0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1
•							

Below the table is a large grey rectangular area, and at the bottom is a horizontal scrollbar.

2. Select the shipment ID to look up in the drop down menu.

The screenshot shows a window titled "FormSearchShipmentTime". It has a title bar with a standard icon, a minimize button, a maximize button, and a close button. The main content area has the title "Search Shipment Arrival Time" in bold. Below the title, there is a label "Shipping ID" followed by a dropdown menu showing "001" and a "Search" button. At the bottom center is an "Exit" button.

3. Click the “Search” button.
4. A dialogue will appear displaying the contents and arrival time for that shipment ID.



User Story 6: Customer Order

1. Users must login using a customer account.

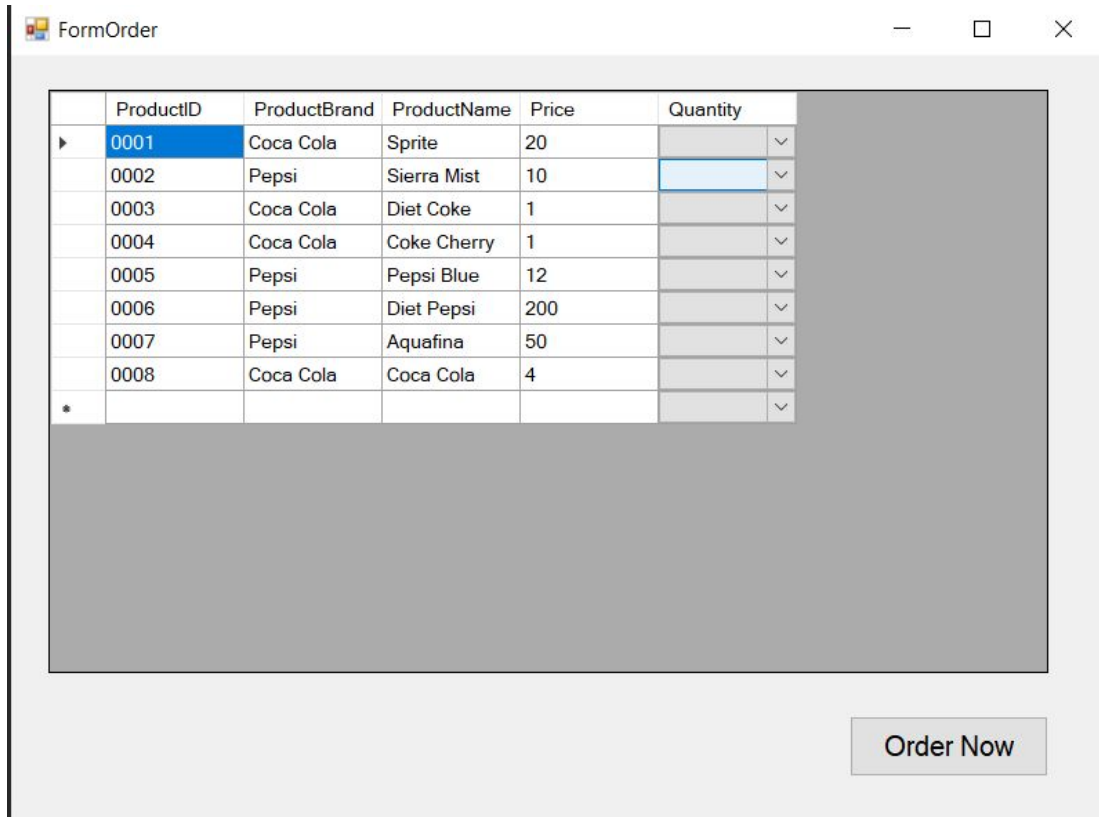
Form1

Username

Password

Login Exit

2. If the login was successful then the system will prompt the user with the FormOrder. The Form will have all the products available within the warehouse.

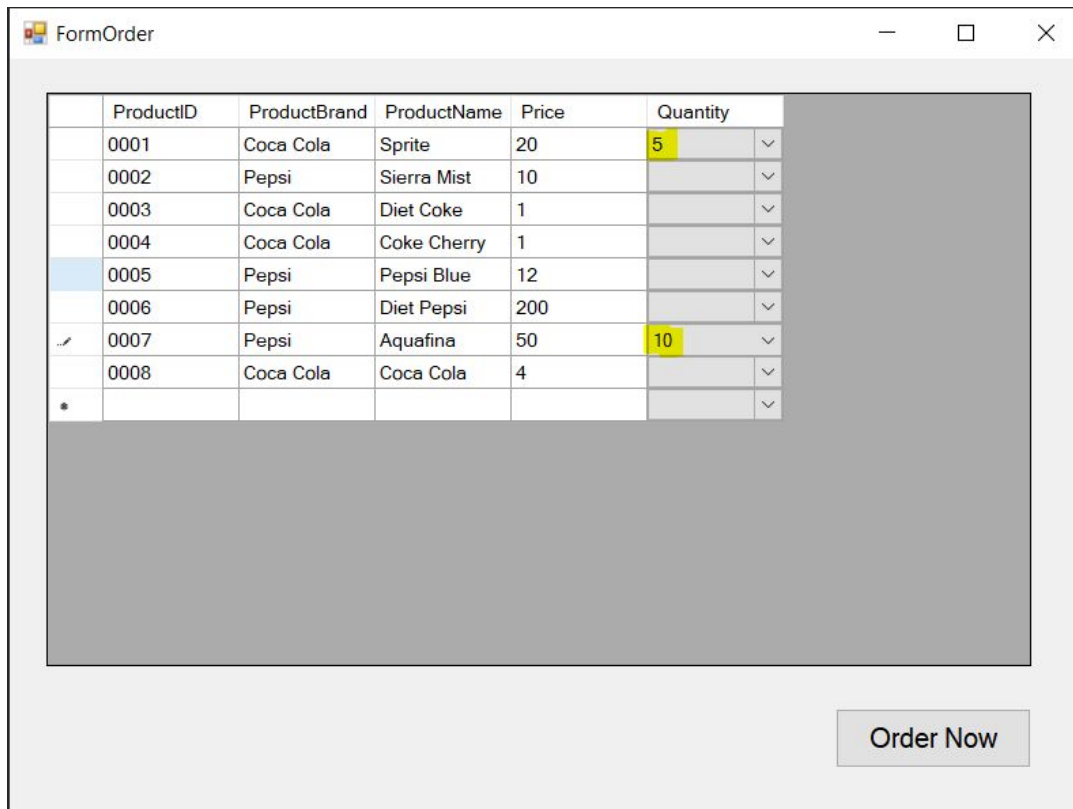


The image shows a software window titled "FormOrder" with standard Windows window controls (minimize, maximize, close). Inside the window is a table with the following columns: ProductID, ProductBrand, ProductName, Price, and Quantity. The table contains 8 rows of product data. The first row is highlighted in blue. Below the table is a large gray rectangular area. At the bottom right of the window is a button labeled "Order Now".

	ProductID	ProductBrand	ProductName	Price	Quantity
▶	0001	Coca Cola	Sprite	20	▼
	0002	Pepsi	Sierra Mist	10	▼
	0003	Coca Cola	Diet Coke	1	▼
	0004	Coca Cola	Coke Cherry	1	▼
	0005	Pepsi	Pepsi Blue	12	▼
	0006	Pepsi	Diet Pepsi	200	▼
	0007	Pepsi	Aquafina	50	▼
	0008	Coca Cola	Coca Cola	4	▼
*					▼

Order Now

- The user will then select the amount of each product they are willing to buy, but clicking on the quantity dropdown.

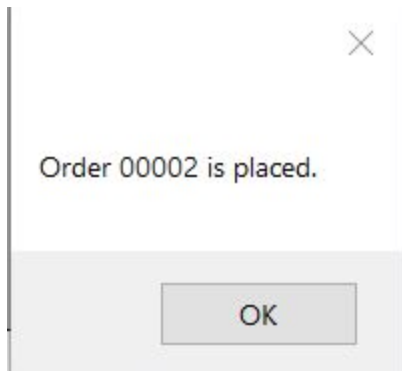


The screenshot shows a window titled "FormOrder" with a table of products. The table has columns: ProductID, ProductBrand, ProductName, Price, and Quantity. The Quantity column has a dropdown menu open, showing the value 5 selected. The table contains 8 rows of data. Below the table is a large gray area and an "Order Now" button.

ProductID	ProductBrand	ProductName	Price	Quantity
0001	Coca Cola	Sprite	20	5
0002	Pepsi	Sierra Mist	10	
0003	Coca Cola	Diet Coke	1	
0004	Coca Cola	Coke Cherry	1	
0005	Pepsi	Pepsi Blue	12	
0006	Pepsi	Diet Pepsi	200	
0007	Pepsi	Aquafina	50	10
0008	Coca Cola	Coca Cola	4	

Order Now

- Once the user is satisfied with their choices, they may click "Order Now." Then the system will prompt the customer with a confirmation message.



The screenshot shows a small dialog box with a close button (X) in the top right corner. The text inside the dialog box reads "Order 00002 is placed." Below the text is an "OK" button.

Order 00002 is placed.

OK

User Story 7: Add Accounts

- Users must login with an administrator account.

2. Select “Admin” and Click on “Create Account”

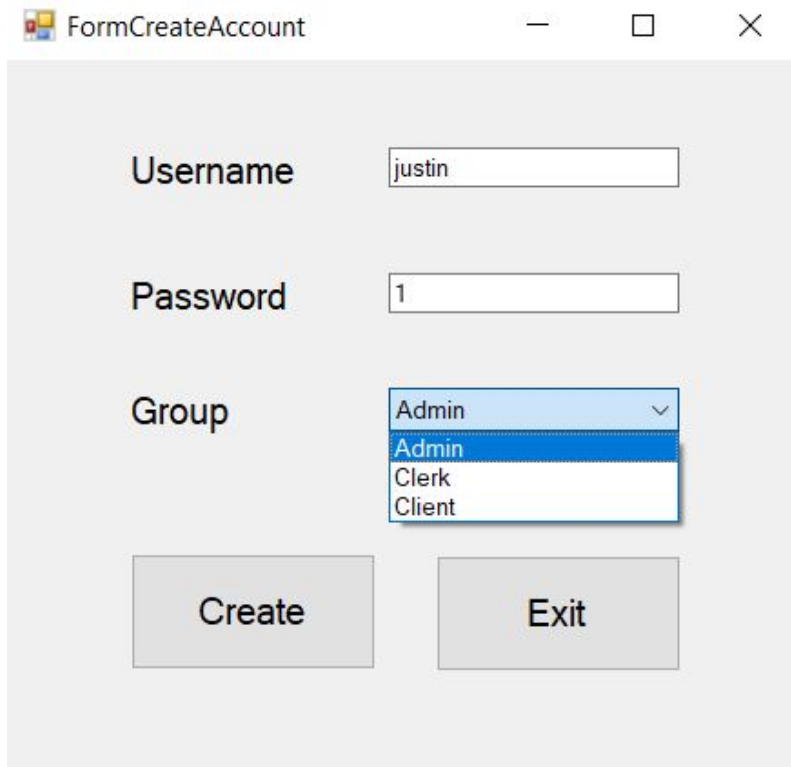
The screenshot shows the 'Form2' application window. On the left, there are four buttons: 'Search Product Stock', 'Search Product Location', 'Shipment Expected Arrival Time', and 'Product Barcode'. The main area features a menu bar with 'Insert', 'Delete', 'Update', and 'Admin'. The 'Admin' menu is open, displaying three options: 'Create Account' (highlighted), 'Delete Account', and 'View Users'. Below the menu is a table with the following columns: Product Brand, Product Name, Price, Quantity, Expiration Date, Product Location, and Supplier ID. The table contains eight rows of product data.

	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

3. System will then display the FormCreateAccount

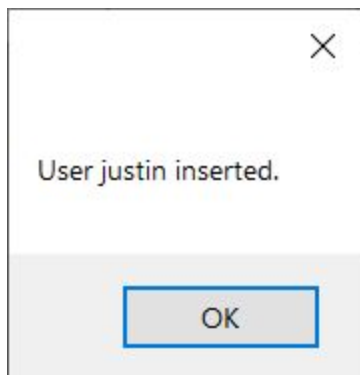
The screenshot shows the 'FormCreateAccount' window. It contains three input fields: 'Username' (a text box), 'Password' (a text box), and 'Group' (a dropdown menu). Below these fields are two buttons: 'Create' and 'Exit'.

4. User then inputs the username, password and selects the type of user group.



The screenshot shows a Windows application window titled "FormCreateAccount". It contains three input fields: "Username" with the text "justin", "Password" with the text "1", and "Group" which is a dropdown menu currently showing "Admin" and a list of options: "Admin", "Clerk", and "Client". Below the input fields are two buttons: "Create" and "Exit".

5. User then selects "Create" and the system prompts the user with a confirmation message.



The screenshot shows a small dialog box with a close button (X) in the top right corner. The text inside the dialog box reads "User justin inserted." Below the text is an "OK" button.

User Story 7: Delete User

1. Users must login with an administrator account.

2. Select “Admin” and Click on “Delete Account”

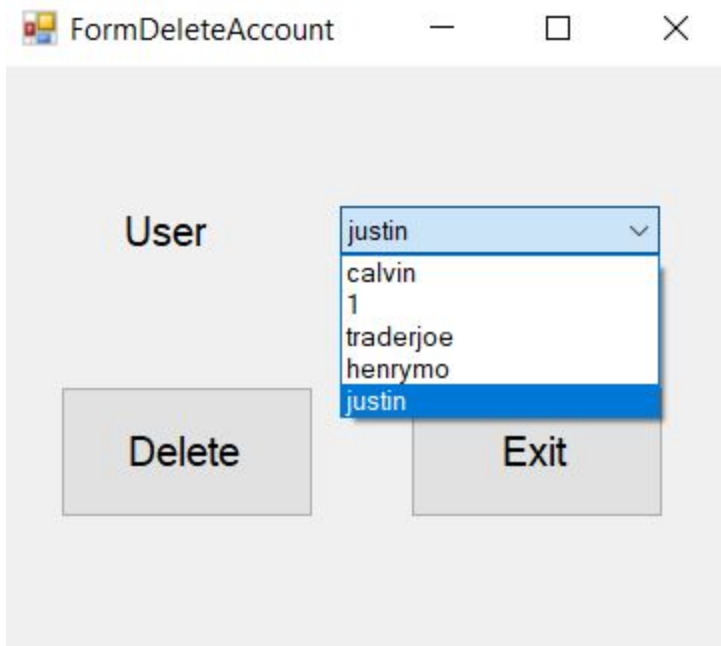
The screenshot shows the 'Form2' application window. On the left, there are four buttons: 'Search Product Stock', 'Search Product Location', 'Shipment Expected Arrival Time', and 'Product Barcode'. The top menu bar includes 'Insert', 'Delete', 'Update', and 'Admin'. The 'Admin' menu is open, showing options: 'Create Account', 'Delete Account', and 'View Users'. The 'Delete Account' option is highlighted. Below the menu is a table with the following columns: Product Brand, Product Name, Price, Quantity, Expiration Date, Product Location, and Supplier ID. The table contains eight rows of product data.

	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

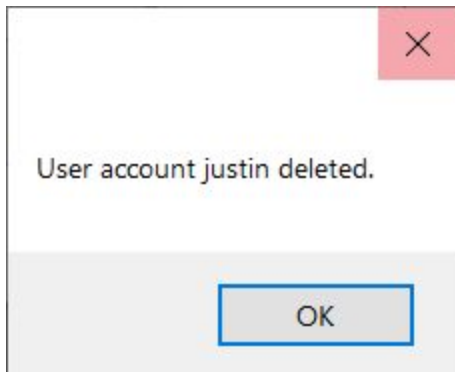
3. System will then display the FormDeleteAccount

The screenshot shows the 'FormDeleteAccount' application window. It features a 'User' label followed by a dropdown menu. Below these are two buttons: 'Delete' and 'Exit'.

4. User then selects the user they want to delete using the dropdown box.



5. User selects "Delete" and the system prompts them with a confirmation message.



User Story 7: View Users

1. Users must login with an administrator account

2. Select “Admin” and Click on “View Users”

The screenshot shows a window titled "Form2" with a menu bar containing "Insert", "Delete", "Update", and "Admin". The "Admin" menu is open, showing options: "Create Account", "Delete Account", and "View Users". On the left side of the window, there are four buttons: "Search Product Stock", "Search Product Location", "Shipment Expected Arrival Time", and "Product Barcode". The main area of the window displays a table with the following columns: Product Brand, Product Name, Price, Quantity, Expiration Date, Product Location, and Supplier ID. The table contains 8 rows of data.

Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID	
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

3. The system will display the FormViewAccounts where you can see all the users apart of the system.

The screenshot shows a window titled "FormViewAccounts" with a table containing user information. The table has columns: loginID, Username, Password, and Usergroup. The first row is highlighted. Below the table is a large gray rectangular area, and at the bottom center is an "Exit" button.

loginID	Username	Password	Usergroup
1	calvin	123	Admin
3	1	1	Clerk
4	traderjoe	123	Client
5	henrymo	henrymo	Admin

Exit

User Story 8: Insert Shipments

1. Users must login with a clerk or administrator account.

2. Select “Insert” and click on “Insert Shipping Information”

Form2

Insert Delete Update Admin

Insert Product
Insert Supplier
Insert Shipping Information

Search Product Location

Shipment Expected Arrival Time

Product Barcode

Product ID	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

3. The system will display FormShipping where the user will input the Departure Date, Arrival Date, and Supplier.

Form1

Shipping ID: 001

Departure Date:

Arrival Date:

Supplier Name:

Insert Exit

Products

Product ID	Product Brand	Product Name	Product Quantity
0001	Coca Cola	Sprite	
0002	Pepsi	Sierra Mist	
0003	Coca Cola	Diet Coke	
0004	Coca Cola	Coke Cherry	
0005	Pepsi	Pepsi Blue	
0006	Pepsi	Diet Pepsi	
0007	Pepsi	Aquafina	
0008	Coca Cola	Coca Cola	

4. The user will also select the amount of a product that is being sent to the warehouse.

Form1

Shipping ID: 001

Departure Date: 4/10/2020

Arrival Date: 4/21/2020

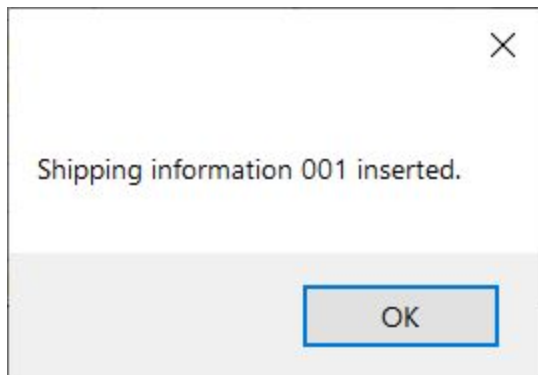
Supplier Name: Coca-Cola Comp

Insert Exit

Products

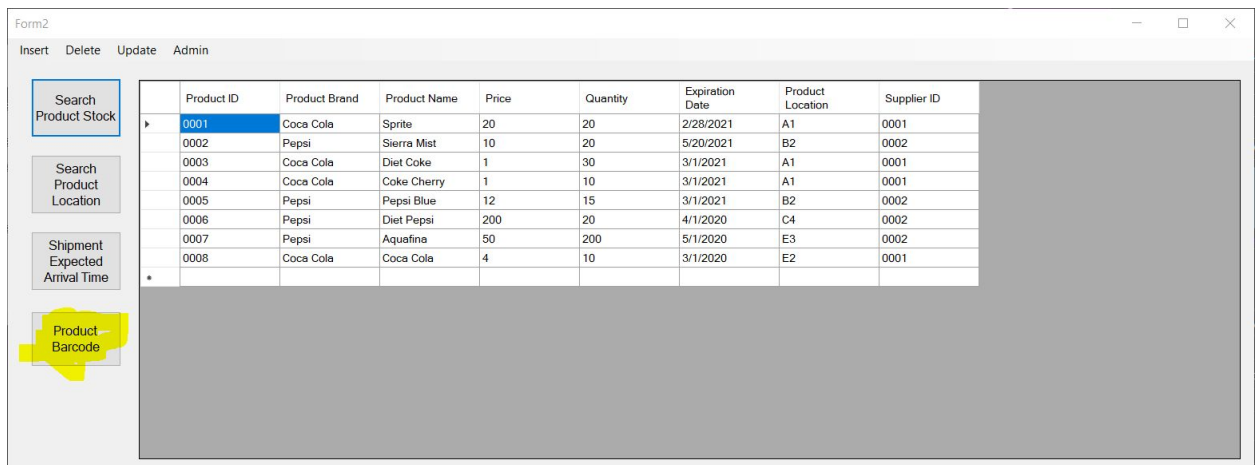
Product ID	Product Brand	Product Name	Product Quantity
0001	Coca Cola	Sprite	5
0002	Pepsi	Sierra Mist	
0003	Coca Cola	Diet Coke	5
0004	Coca Cola	Coke Cherry	5
0005	Pepsi	Pepsi Blue	
0006	Pepsi	Diet Pepsi	
0007	Pepsi	Aquafina	
0008	Coca Cola	Coca Cola	

- When the user is satisfied with their shipment information, they can click insert and the system will prompt them with a confirmation message.

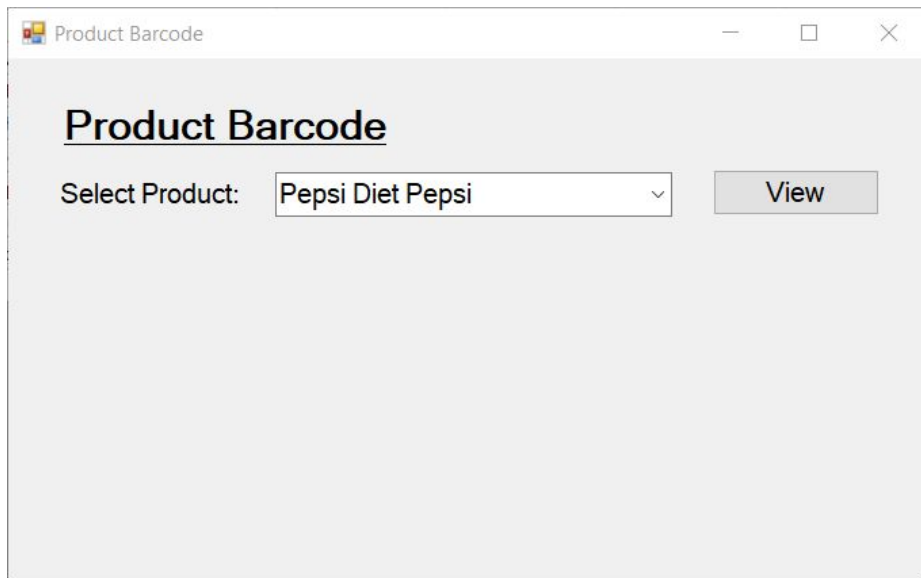


User Story 9: Barcodes

- Users must login with a stocker/picker, clerk, or administrator account.
- Click on "Product Barcode"

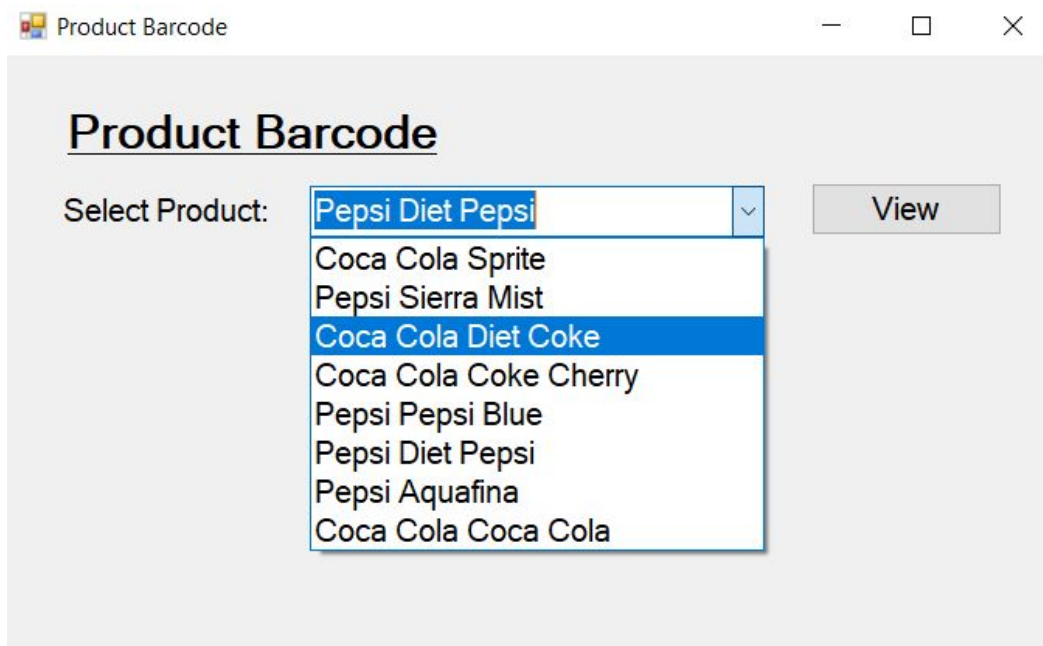


3. System will display FormProductBarcode.



The screenshot shows a window titled "Product Barcode". Inside, the title "Product Barcode" is underlined. Below it, the text "Select Product:" is followed by a dropdown menu displaying "Pepsi Diet Pepsi". To the right of the dropdown is a button labeled "View".

4. Users will then select the desired product using the dropdown box.



The screenshot shows the same "Product Barcode" window, but the dropdown menu is now open, displaying a list of products. The list includes: "Pepsi Diet Pepsi", "Coca Cola Sprite", "Pepsi Sierra Mist", "Coca Cola Diet Coke", "Coca Cola Coke Cherry", "Pepsi Pepsi Blue", "Pepsi Diet Pepsi", "Pepsi Aquafina", and "Coca Cola Coca Cola". The "Coca Cola Diet Coke" option is highlighted in blue. The "View" button remains to the right of the dropdown.

- Click “View” and the system will prompt them with the associated barcode.

The screenshot shows a window titled "Product Barcode". Inside, there is a section titled "Product Barcode" with a "Select Product:" label and a dropdown menu currently showing "Coca Cola Diet Coke". To the right of the dropdown is a blue button labeled "View". Below these elements is a large barcode. Underneath the barcode, the number "675354168" is displayed.

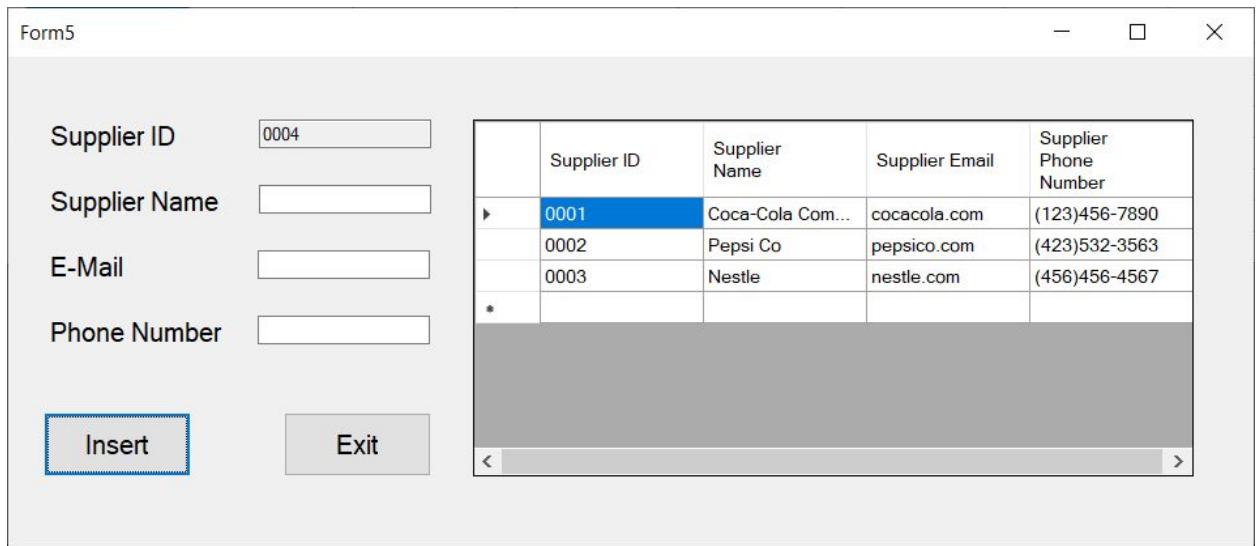
User Story 10: Add Suppliers

- Users must login with a clerk or administrator account.
- Select “Insert” and Click on “Insert Supplier”.

The screenshot shows a window titled "Form2". On the left is a sidebar with several buttons: "Search Product Location", "Shipment Expected Arrival Time", and "Product Barcode". The main area of the window contains a table with the following columns: Product ID, Product Brand, Product Name, Price, Quantity, Expiration Date, Product Location, and Supplier ID. The table contains 8 rows of data. A menu is open at the top left of the table area, showing options: "Insert", "Delete", "Update", "Admin", "Insert Product", "Insert Supplier" (which is highlighted), and "Insert Shipping Information".

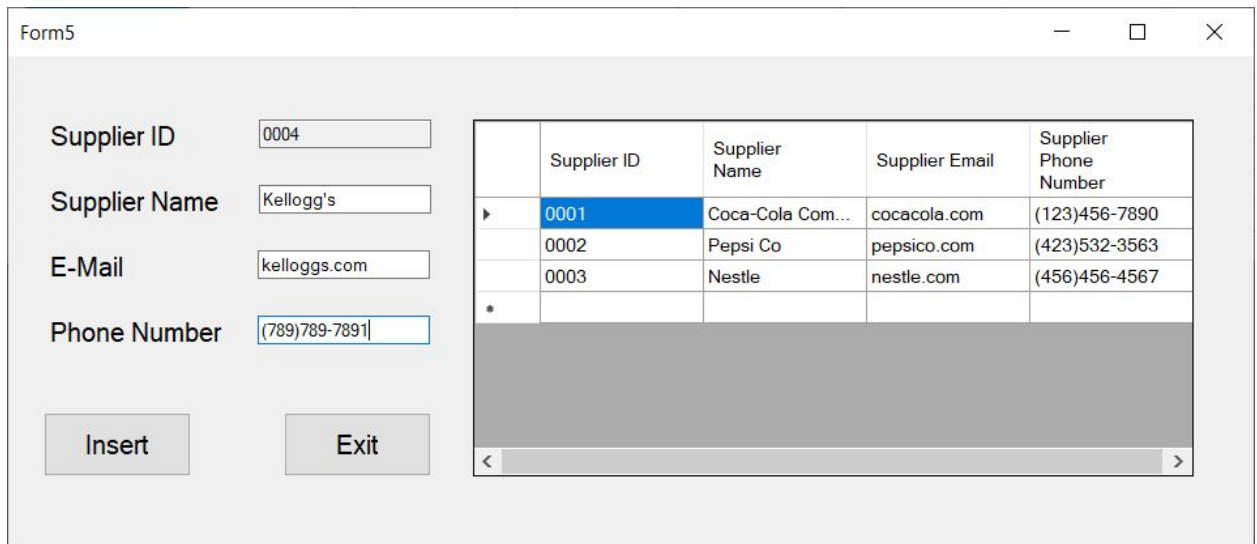
Product ID	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

3. System will display the FormInsertSupplier.



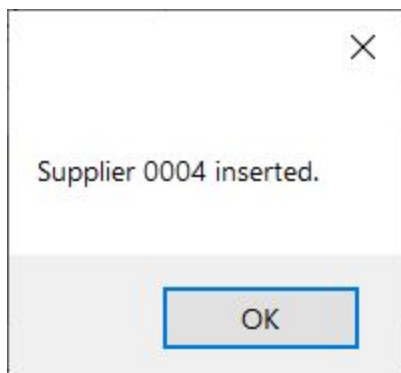
	Supplier ID	Supplier Name	Supplier Email	Supplier Phone Number
▶	0001	Coca-Cola Com...	cocacola.com	(123)456-7890
	0002	Pepsi Co	pepsico.com	(423)532-3563
	0003	Nestle	nestle.com	(456)456-4567
*				

4. User will input the Supplier name, Email, and Phone Number.



	Supplier ID	Supplier Name	Supplier Email	Supplier Phone Number
▶	0001	Coca-Cola Com...	cocacola.com	(123)456-7890
	0002	Pepsi Co	pepsico.com	(423)532-3563
	0003	Nestle	nestle.com	(456)456-4567
*				

5. Click "Insert" and the system will prompt the user with a confirmation message,



Supplier 0004 inserted.

OK

User Story 10: Delete Suppliers

1. Users must login with a clerk or administrator account.
2. Select “Delete” and Click on “Delete Supplier”.

Form2

Insert Delete Update Admin

Delete Product

Delete Supplier

Search Product Stock

Search Product Location

Shipment Expected Arrival Time

Product Barcode

Product ID	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

3. System will display FormDeleteSupplier.

Form6

Supplier Name

Delete Exit

Supplier ID	Supplier Name	Supplier Email	Supplier Phone Number
0001	Coca-Cola Com...	cocacola.com	(123)456-7890
0002	Pepsi Co	pepsico.com	(423)532-3563
0003	Nestle	nestle.com	(456)456-4567
0004	Kellogg's	kelloggs.com	(789)789-7891

4. Users will select the desired supplier to be deleted with the dropdown box.

Form6

Supplier Name Kellogg's ▼

Delete Exit

	Supplier ID	Supplier Name	Supplier Email	Supplier Phone Number
▶	0001	Coca-Cola Com...	cocacola.com	(123)456-7890
	0002	Pepsi Co	pepsico.com	(423)532-3563
	0003	Nestle	nestle.com	(456)456-4567
	0004	Kellogg's	kelloggs.com	(789)789-7891
*				

5. Click "Delete" and the system will prompt the user with a confirmation message.

×

Supplier Deleted.

OK

User Story 10: Update Suppliers

1. Users must login with a clerk or administrator account.
2. Select “Update” and Click on “Update Supplier”.

Form2

Insert Delete Update Admin

Update Product
Update Supplier

Search Product Stock

Search Product Location

Shipment Expected Arrival Time

Product Barcode

	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location	Supplier ID
0001	Coca Cola	Sprite	20	20	2/28/2021	A1	0001
0002	Pepsi	Sierra Mist	10	20	5/20/2021	B2	0002
0003	Coca Cola	Diet Coke	1	30	3/1/2021	A1	0001
0004	Coca Cola	Coke Cherry	1	10	3/1/2021	A1	0001
0005	Pepsi	Pepsi Blue	12	15	3/1/2021	B2	0002
0006	Pepsi	Diet Pepsi	200	20	4/1/2020	C4	0002
0007	Pepsi	Aquafina	50	200	5/1/2020	E3	0002
0008	Coca Cola	Coca Cola	4	10	3/1/2020	E2	0001

3. System will display FormUpdateSupplier.

Form8

Supplier ID

Supplier Name

E-Mail

Phone Number

Update Exit

	Supplier ID	Supplier Name	Supplier Email	Supplier Phone Number
0001	0001	Coca-Cola Com...	cocacola.com	(123)456-7890
0002	0002	Pepsi Co	pepsico.com	(423)532-3563
0003	0003	Nestle	something.com	(777)777-7777

- Users will select the supplier with a dropdown box. Users can then input a new Name, Email, or Phone Number.

The screenshot shows a window titled 'Form8' with a light gray background. On the left, there are four input fields: 'Supplier ID' with a dropdown menu showing '0003', 'Supplier Name' with a text box containing 'Kelloggs', 'E-Mail' with a text box containing 'keloggs.com', and 'Phone Number' with a text box containing '(888)888-8888'. Below these fields are two buttons: 'Update' (highlighted with a blue border) and 'Exit'. To the right of the form is a table with four columns: 'Supplier ID', 'Supplier Name', 'Supplier Email', and 'Supplier Phone Number'. The table contains three rows of data, with the first row highlighted in blue. Below the table is a large gray rectangular area.

	Supplier ID	Supplier Name	Supplier Email	Supplier Phone Number
▶	0001	Coca-Cola Com...	cocacola.com	(123)456-7890
	0002	Pepsi Co	pepsico.com	(423)532-3563
	0003	Nestle	something.com	(777)777-7777

- Click "Update" and the system will prompt the user with a confirmation message.

The screenshot shows a small dialog box with a close button (X) in the top right corner. The text inside the dialog box reads: 'Supplier ID: 0003 successfully updated.' At the bottom right of the dialog box is an 'OK' button.

User Story 11: Client Order History

- Users must login with a client account
- Click on "Order History"

FormOrder

Account

Order History

	ProductID	ProductBrand	ProductName	Price	Instock Quantity	Select Quantity
▶	0002	Pepsi	Sierra Mist	10	10	▼
	0003	Coca Cola	Diet Coke	1	30	▼
	0004	Coca Cola	Coke Cherry	1	10	▼
	0005	Pepsi	Pepsi Blue	12	15	▼
	0006	Pepsi	Diet Pepsi	200	20	▼
	0007	Pepsi	Aquafina	50	178	▼
	0008	Coca Cola	Coca Cola	4	10	▼
	0009	Coca Cola	Sprite	1	0	▼
	0010	Pepsi	Pepsi Zero Sugar	1	1	▼
*						▼

Total \$0.00

Order Now

3. System will display FormOrder

Order History

	OrderID	OrderDate	OrderStatus	ShippingMethod	TrackingNumber
▶	00001	4/20/2020	Shipped	USPS	123456
	00002	4/21/2020	Shipped	USPS	123456789
	00007	4/20/2020	New		
	00008	4/21/2020	New		
*					

View

User Story 12: Invoice

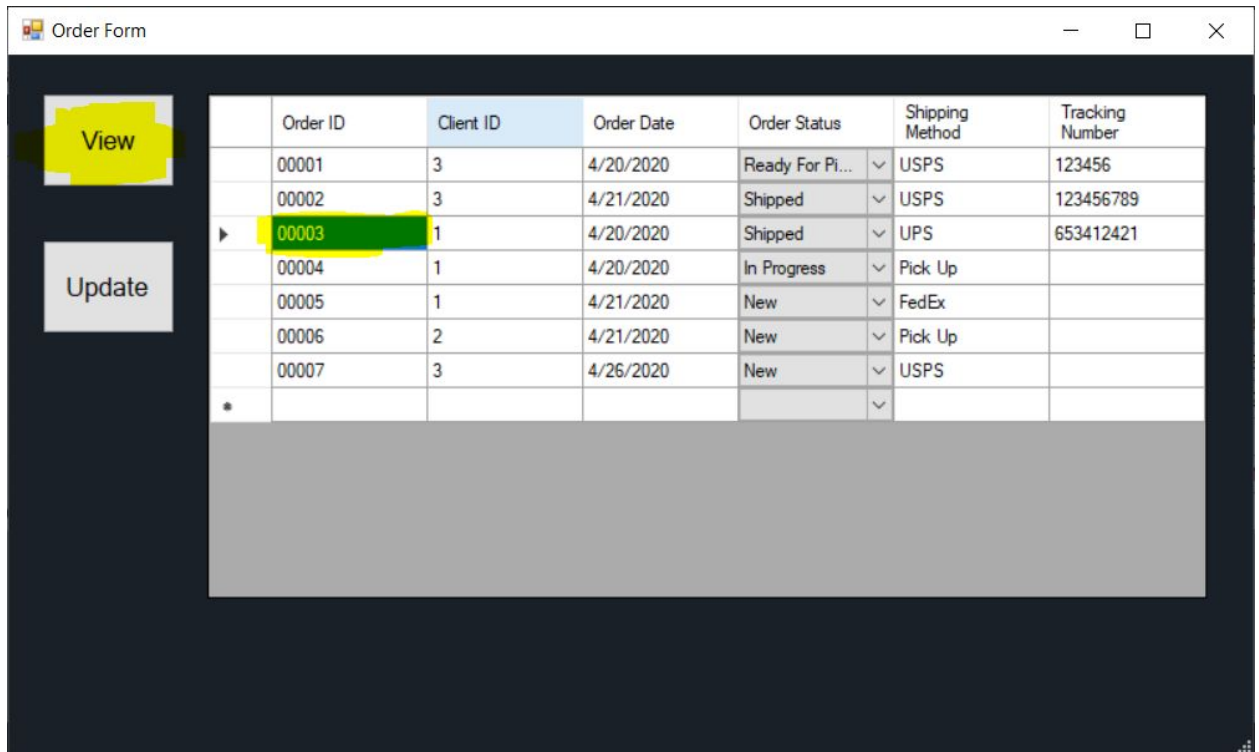
1. Users must login with a clerk or administrator account.
2. Click on “Orders”

Product ID	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location
0002	Pepsi	Sierra Mist	10	1021	5/20/2021	B2
0003	Coca Cola	Diet Coke	1	16	3/1/2021	A1
0004	Coca Cola	Coke Cherry	1	16	3/1/2021	A1
0005	Pepsi	Pepsi Blue	12	23	3/1/2021	B2
0006	Pepsi	Diet Pepsi	200	13	4/1/2020	C4
0007	Pepsi	Aquafina	50	180	5/1/2020	E3
0008	Coca Cola	Coca Cola	4	13	3/1/2020	E2
0009	Coca Cola	Sprite	1	0	4/30/2020	1
0010	Pepsi	Pepsi Zero Sugar	1	1	4/20/2020	A1

3. System will display Order Form

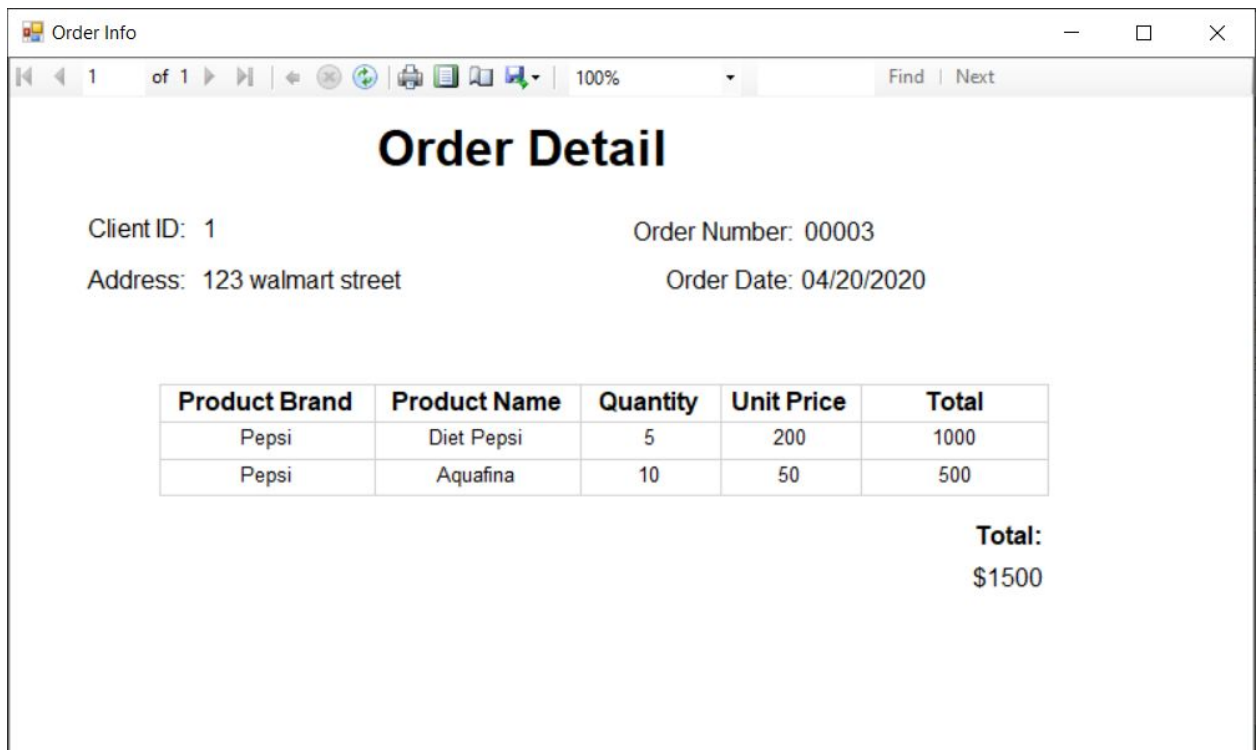
Order ID	Client ID	Order Date	Order Status	Shipping Method	Tracking Number
00001	3	4/20/2020	Ready For Pi...	USPS	123456
00002	3	4/21/2020	Shipped	USPS	123456789
00003	1	4/20/2020	Shipped	UPS	653412421
00004	1	4/20/2020	In Progress	Pick Up	
00005	1	4/21/2020	New	FedEx	
00006	2	4/21/2020	New	Pick Up	
00007	3	4/26/2020	New	USPS	

4. User clicks the OrderID number from the column to view an order
5. User clicks “View”



Order ID	Client ID	Order Date	Order Status	Shipping Method	Tracking Number
00001	3	4/20/2020	Ready For Pi...	USPS	123456
00002	3	4/21/2020	Shipped	USPS	123456789
00003	1	4/20/2020	Shipped	UPS	653412421
00004	1	4/20/2020	In Progress	Pick Up	
00005	1	4/21/2020	New	FedEx	
00006	2	4/21/2020	New	Pick Up	
00007	3	4/26/2020	New	USPS	
*					

6. System will display the Order info Form



Order Detail

Client ID: 1 Order Number: 00003
Address: 123 walmart street Order Date: 04/20/2020

Product Brand	Product Name	Quantity	Unit Price	Total
Pepsi	Diet Pepsi	5	200	1000
Pepsi	Aquafina	10	50	500

Total:
\$1500

User Story 13: Client Account

1. Users must login with a client account
2. Click on "Account"

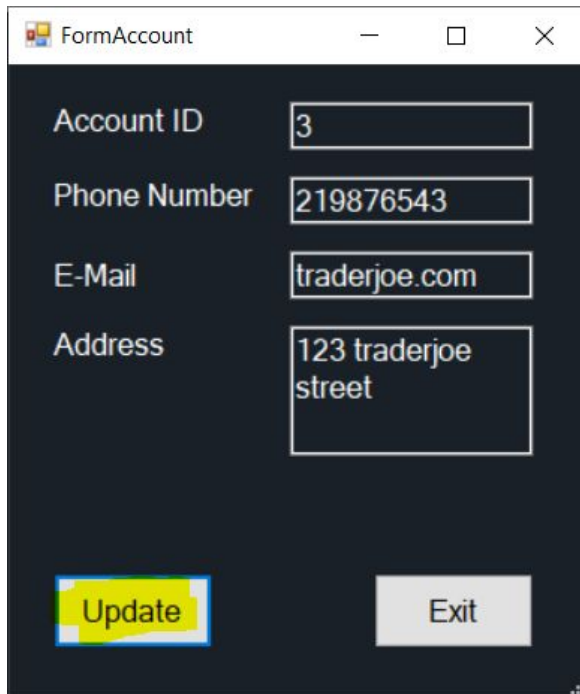
The screenshot shows a web application window titled "FormOrder". On the left, there are two buttons: "Account" (highlighted in yellow) and "Order History" (highlighted in blue). The main area displays a table of products with columns: ProductID, ProductBrand, ProductName, Price, Instock Quantity, and Select Quantity. The table lists 10 products, with the first row (0002, Pepsi, Sierra Mist) selected. Below the table is a greyed-out section. At the bottom right, the "Total" is \$0.00, and there is an "Order Now" button.

ProductID	ProductBrand	ProductName	Price	Instock Quantity	Select Quantity
0002	Pepsi	Sierra Mist	10	10	<input type="text"/>
0003	Coca Cola	Diet Coke	1	30	<input type="text"/>
0004	Coca Cola	Coke Cherry	1	10	<input type="text"/>
0005	Pepsi	Pepsi Blue	12	15	<input type="text"/>
0006	Pepsi	Diet Pepsi	200	20	<input type="text"/>
0007	Pepsi	Aquafina	50	178	<input type="text"/>
0008	Coca Cola	Coca Cola	4	10	<input type="text"/>
0009	Coca Cola	Sprite	1	0	<input type="text"/>
0010	Pepsi	Pepsi Zero Sugar	1	1	<input type="text"/>
*					<input type="text"/>

Total \$0.00

Order Now

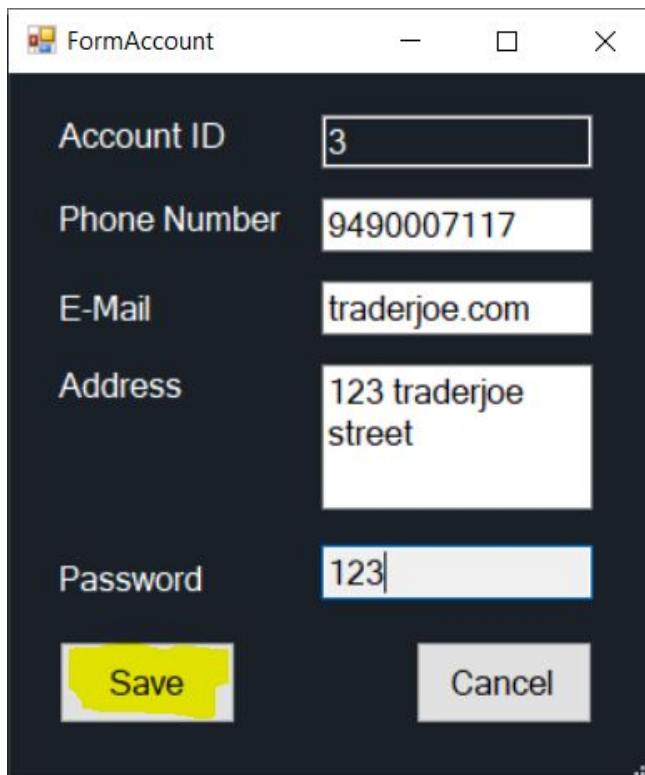
3. System will display the FormAccount
4. Click on "Update"



A screenshot of a Windows application window titled "FormAccount". The window has a dark blue background and contains four text input fields. The first field is labeled "Account ID" and contains the number "3". The second field is labeled "Phone Number" and contains "219876543". The third field is labeled "E-Mail" and contains "traderjoe.com". The fourth field is labeled "Address" and contains "123 traderjoe street". At the bottom of the window, there are two buttons: a yellow "Update" button on the left and a grey "Exit" button on the right. The window has standard Windows window controls (minimize, maximize, close) in the title bar.

Field	Value
Account ID	3
Phone Number	219876543
E-Mail	traderjoe.com
Address	123 traderjoe street

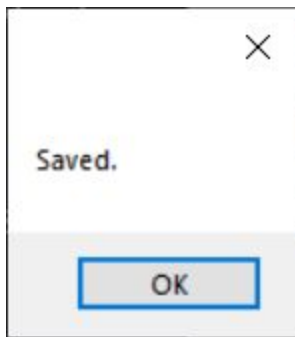
5. System will unlock the information to be modified
6. Users can then input a new phone number, e-mail, or address that is associated with the account
7. User enters the account's password
8. User clicks "Save"



A screenshot of the same "FormAccount" window. The "Account ID" field still contains "3". The "Phone Number" field now contains "9490007117". The "E-Mail" field still contains "traderjoe.com". The "Address" field still contains "123 traderjoe street". A new "Password" field has been added at the bottom, containing "123". The buttons at the bottom are now a yellow "Save" button on the left and a grey "Cancel" button on the right. The window controls remain the same.

Field	Value
Account ID	3
Phone Number	9490007117
E-Mail	traderjoe.com
Address	123 traderjoe street
Password	123

9. system will prompt the user with a confirmation message.



User Story 14: View all orders

1. Users must login with a clerk or administrator account.
2. Click on “Orders”

Main Menu

Insert Delete Update

Product ID	Product Brand	Product Name	Price	Quantity	Expiration Date	Product Location
0002	Pepsi	Sierra Mist	10	1021	5/20/2021	B2
0003	Coca Cola	Diet Coke	1	16	3/1/2021	A1
0004	Coca Cola	Coke Cherry	1	16	3/1/2021	A1
0005	Pepsi	Pepsi Blue	12	23	3/1/2021	B2
0006	Pepsi	Diet Pepsi	200	13	4/1/2020	C4
0007	Pepsi	Aquafina	50	180	5/1/2020	E3
0008	Coca Cola	Coca Cola	4	13	3/1/2020	E2
0009	Coca Cola	Sprite	1	0	4/30/2020	1
0010	Pepsi	Pepsi Zero Sugar	1	1	4/20/2020	A1

Search Product Stock

Search Product Location

Shipments

Product Barcode

Orders

3. System will display the Order Form

Order Form

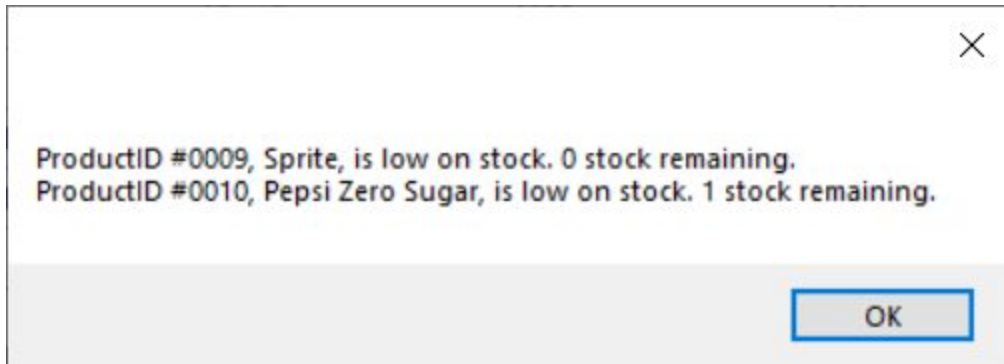
View

Update

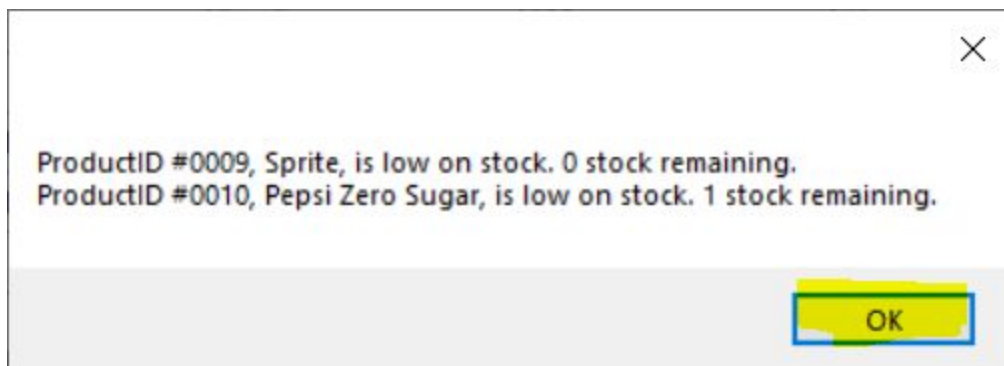
Order ID	Client ID	Order Date	Order Status	Shipping Method	Tracking Number
00001	3	4/20/2020	Ready For Pl...	USPS	123456
00002	3	4/21/2020	Shipped	USPS	123456789
00003	1	4/20/2020	Shipped	UPS	653412421
00004	1	4/20/2020	In Progress	Pick Up	
00005	1	4/21/2020	New	FedEx	
00006	2	4/21/2020	New	Pick Up	
00007	3	4/26/2020	New	USPS	

User Story 15: Alerts

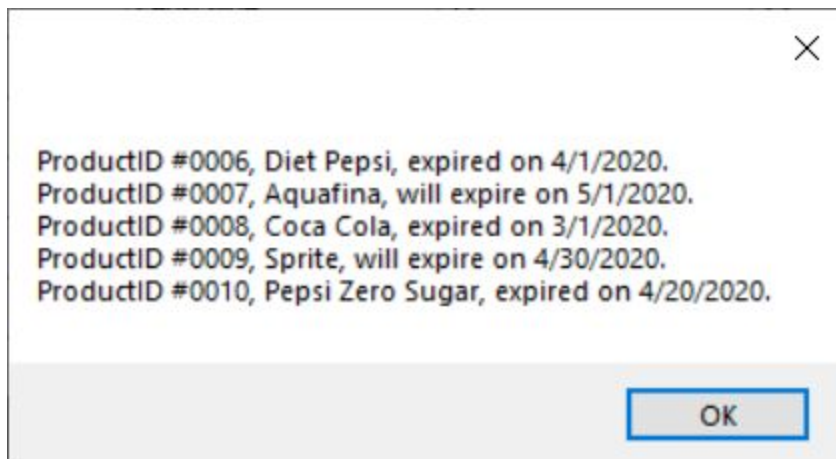
1. Users must login with a clerk or administrator account.
2. After system displays main menu, system will display message of items in low inventory



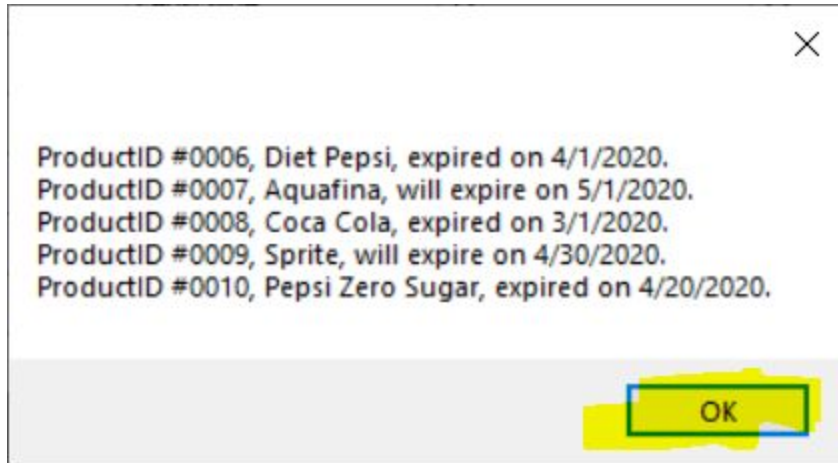
3. Click on "OK" to confirm message



4. System will then display message of items that are soon to expire or expired



5. Click on "OK" to confirm message



References

<https://www.indeed.com/> - Used to look up various warehouse/distributor roles to get a better idea of who would be using what parts of the software.