



## **Stock Manager Project**

**01286131 Object-oriented Programming**

**Software Engineering Program**

**Faculty of Engineering, KMITL**

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## **Introduction**

The Stock Manager Program is a robust and comprehensive software solution specifically designed to streamline the complex task of inventory management in a store environment. With its intuitive and user-friendly interface, this program empowers store owners and managers to efficiently handle every aspect of their stock, facilitating smooth operations and ensuring optimal customer service. By utilizing the Stock Manager Program, store owners can effectively track and control their inventory, resulting in improved efficiency and reduced costs. The program offers a wide range of key features that address the unique challenges faced by businesses in managing their stock effectively.

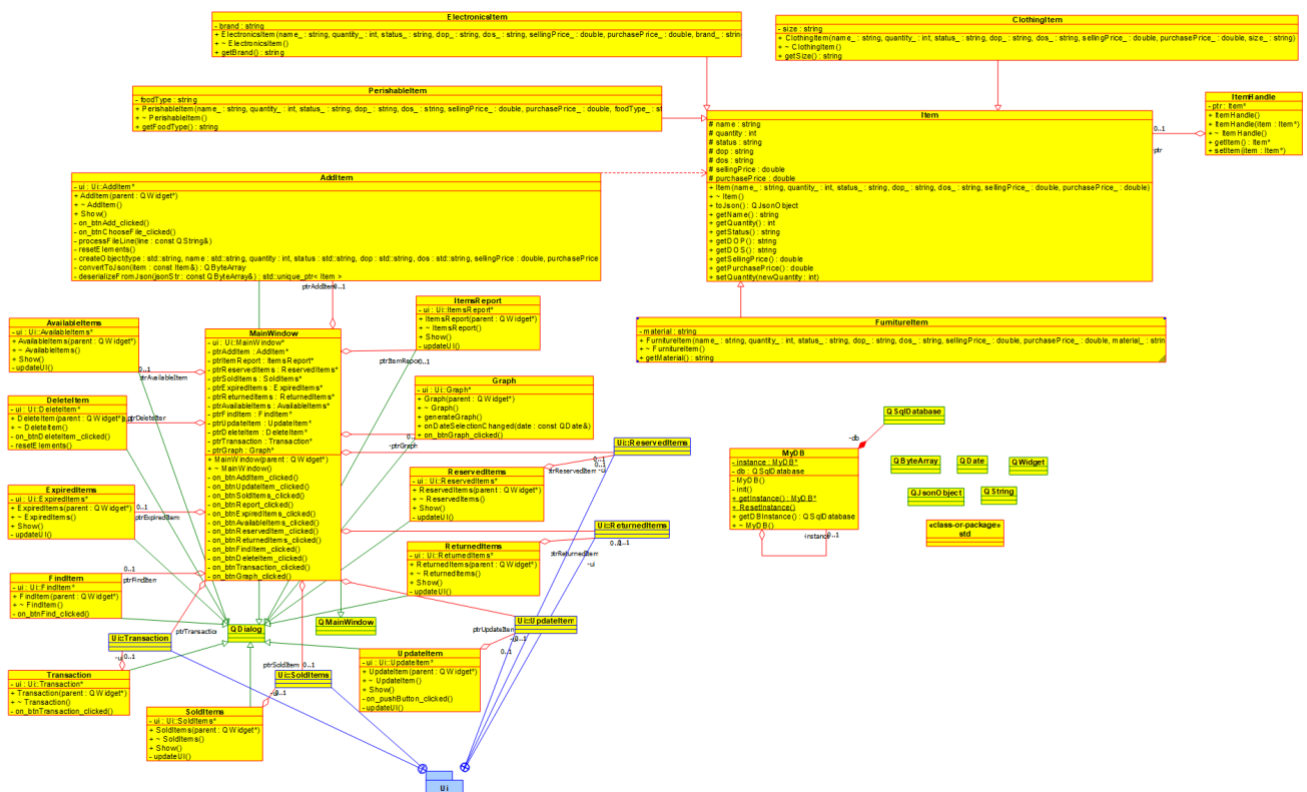
One of the primary features of the program is the ability to easily add new items to the inventory. Plus, the user can also update item whenever necessary and push the find item button to search the specific items within the inventory. The program allows users to remove the item to ensure the inventory organized and up-to-date by eliminating outdated or discontinued products. To provide a clear overview of available items, the program includes a dedicated feature that displays all currently available products, sold products, returned products, reserved products, and tracks expired items. The program offers comprehensive reporting capabilities, allowing users to generate reports on order records and transactions. This also includes a graph that allow user to analyze and visualize trends in selling prices and purchasing prices.

In summary, the Stock Manager Program offers a comprehensive set of features and functionalities tailored to streamline inventory management in a store environment. Its user-friendly interface, coupled with its ability to handle key tasks such as adding, updating, and finding items, as well as providing visibility into available, expired, and sold items, makes it an indispensable tool for store owners and managers seeking to optimize their operations and deliver exceptional customer service.

## Objective

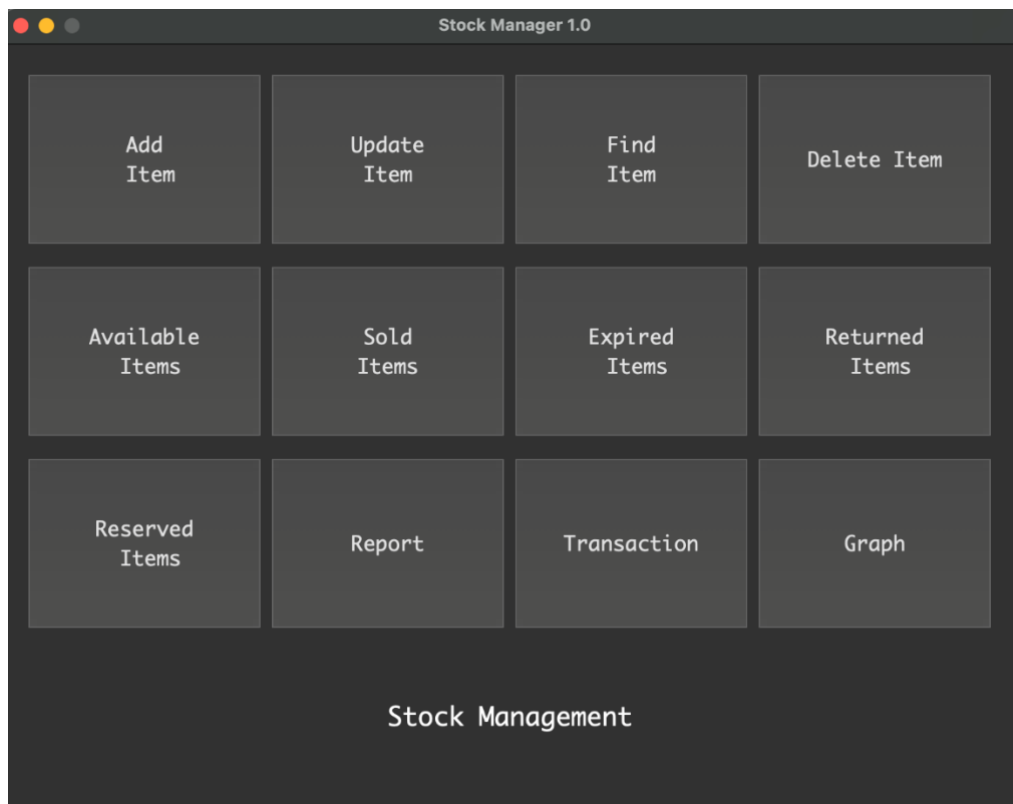
This project aims to provide an effective C++ implementation for a Stock Manager system that is user-friendly and can be utilized by anyone interested in running their own store.

## Class Diagram

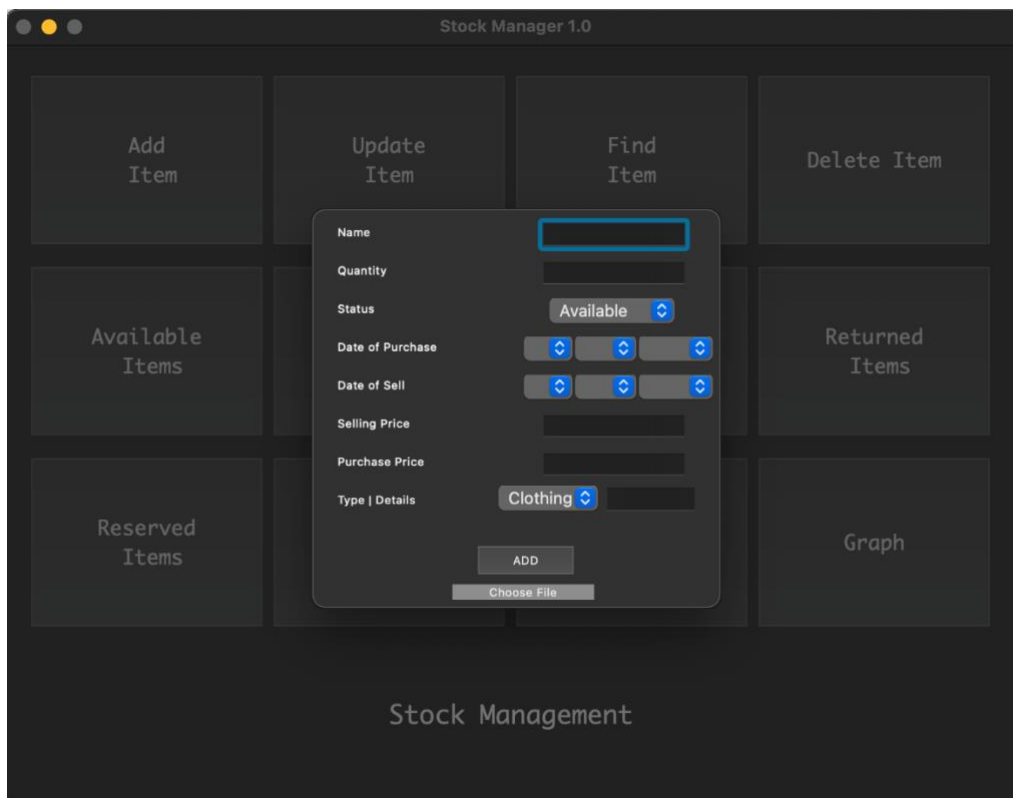


## Interface

### Main window



### Add Item



## Update Item

The screenshot shows the 'Update Item' dialog box in the 'Stock Manager 1.0' application. The dialog is centered over a grid of buttons: 'Add Item', 'Update Item', 'Find Item', 'Delete Item', 'Available Items', 'Returned Items', 'Reserved Items', and 'Graph'. The dialog itself has a title bar with three colored dots (red, yellow, green). Inside, it features a 'Select Criteria' section with three radio buttons: 'Name' (selected), 'Id', and 'Quantity'. Below this is an 'Enter Value:' text input field with a blue border. Underneath is a 'Set Status' section with a dropdown menu currently showing 'Expired'. At the bottom of the dialog is an 'Update' button. The background application window has a title bar 'Stock Manager 1.0' and a footer 'Stock Management'.

## Find Item

The screenshot shows the 'Find Item' dialog box in the 'Stock Manager 1.0' application. The dialog is centered over the same grid of buttons as the previous screenshot. The dialog has a title bar with three colored dots (red, yellow, green). Inside, it features a text input field with a blue border and a 'Find' button to its right. Below the input field is a 'Select Criteria' section with four radio buttons: 'Name' (selected), 'Id', 'Quantity', and 'Selling Price'. Below the radio buttons is a large, empty rectangular area, likely for displaying search results. The background application window has a title bar 'Stock Manager 1.0' and a footer 'Stock Management'.

## Delete Item

The screenshot shows the 'Stock Manager 1.0' application window. The main interface has a dark background with several buttons: 'Add Item', 'Update Item', 'Find Item', 'Delete Item', 'Available Items', 'Reserved Items', 'Return Items', and 'Graph'. A modal dialog box titled 'Form' is open in the center. It contains a 'Select Criteria' section with three radio buttons: 'Name', 'Id', and 'Quantity'. The 'Name' radio button is selected. Below this is an 'Enter:' label followed by a text input field. A blue 'Delete Item' button is at the bottom of the dialog.

Stock Manager 1.0

Add Item Update Item Find Item Delete Item

Available Items Return Items

Reserved Items Graph

Form

Select Criteria

☒ Name ☐ Id ☐ Quantity

Enter:

Delete Item

Stock Management

## Available Item

The screenshot shows the 'Stock Manager 1.0' application window. The main interface has a dark background with several buttons: 'Add Item', 'Update Item', 'Find Item', 'Delete Item', 'Available Items', 'Reserved Items', 'Return Items', and 'Graph'. A modal dialog box titled 'Dialog' is open in the center. It contains a table with 7 rows of data. The table has columns for 'Id', 'Name', and 'Quantity'.

Stock Manager 1.0

Add Item Update Item Find Item Delete Item

Available Items Return Items

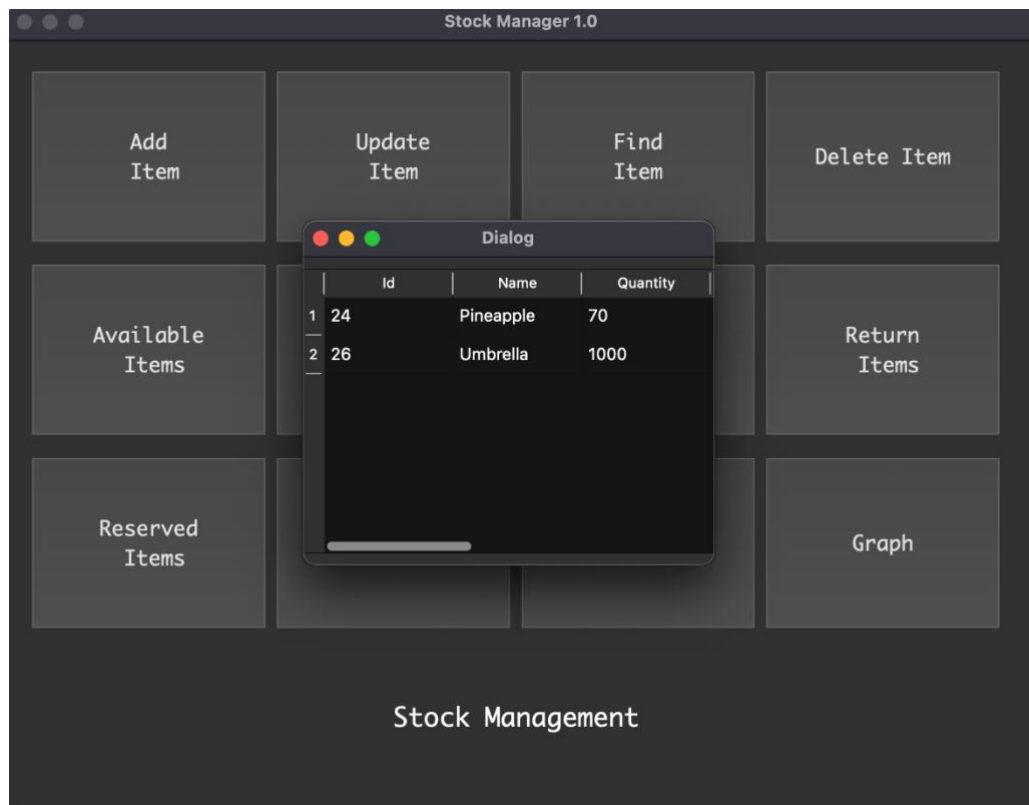
Reserved Items Graph

Dialog

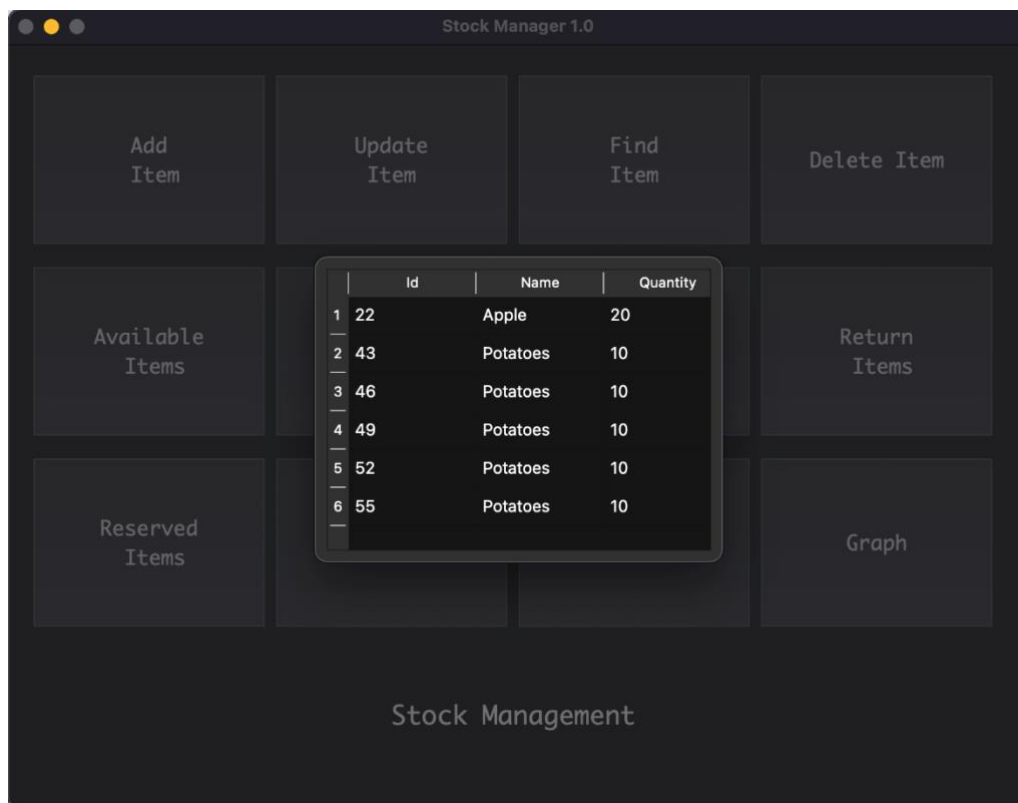
	Id	Name	Quantity
1	16	Eraser	100
2	19	Bomb	8
3	21	Pen	50
4	24	Pineapple	70
5	25	Watermelon	30
6	26	Umbrella	1000
7	27	Apple	9

Stock Management

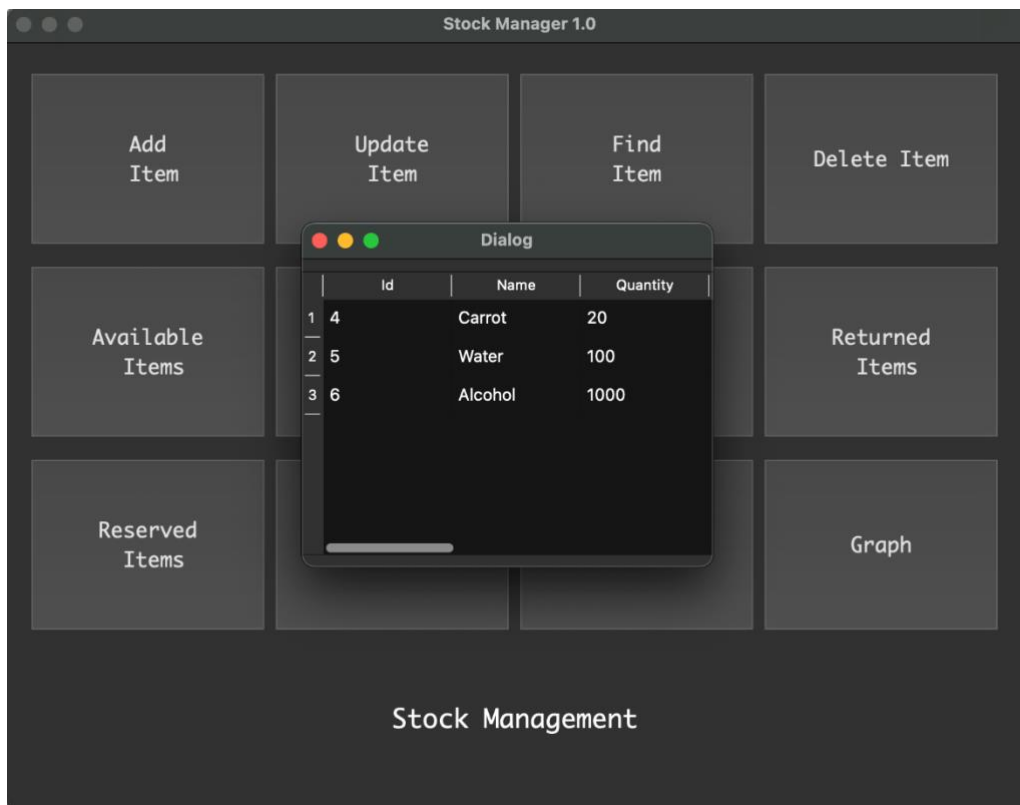
## Expired Item



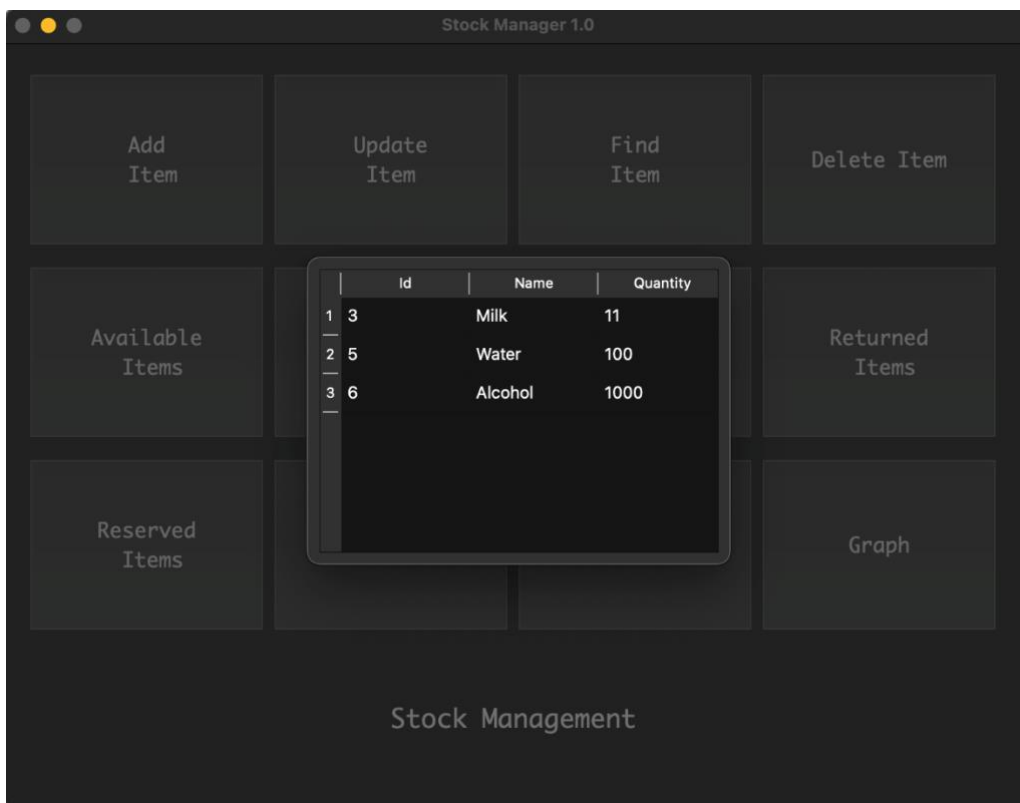
## Sold Item



## Returned Item

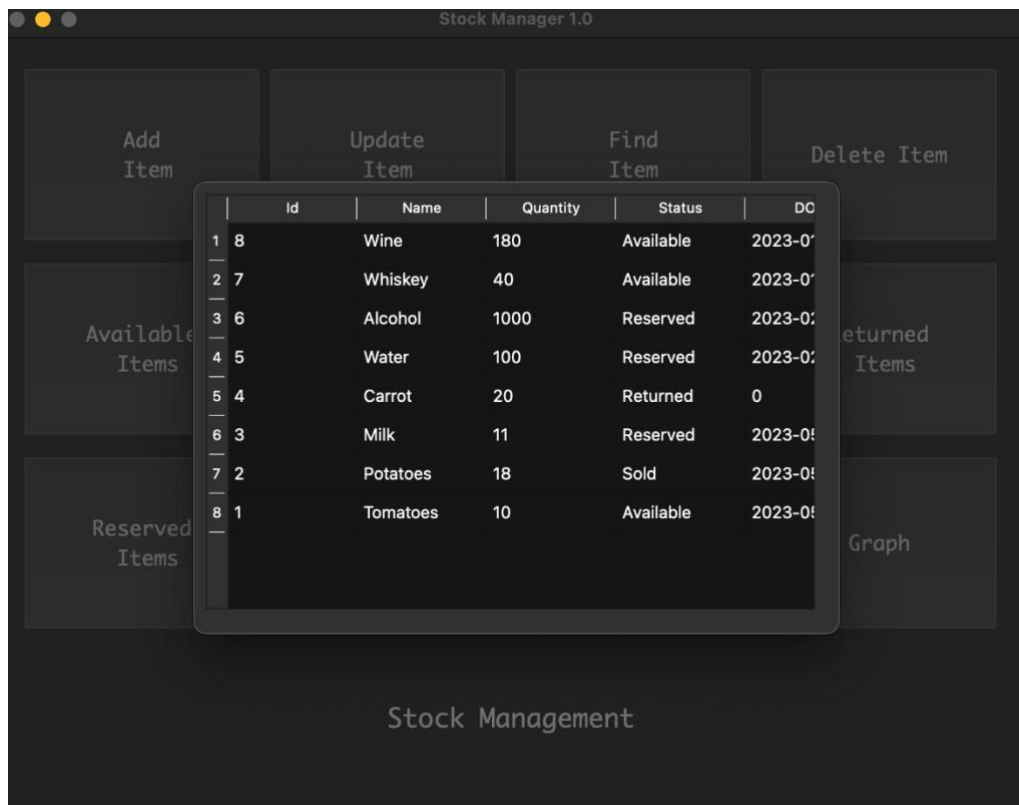


## Reserved Item





## Report

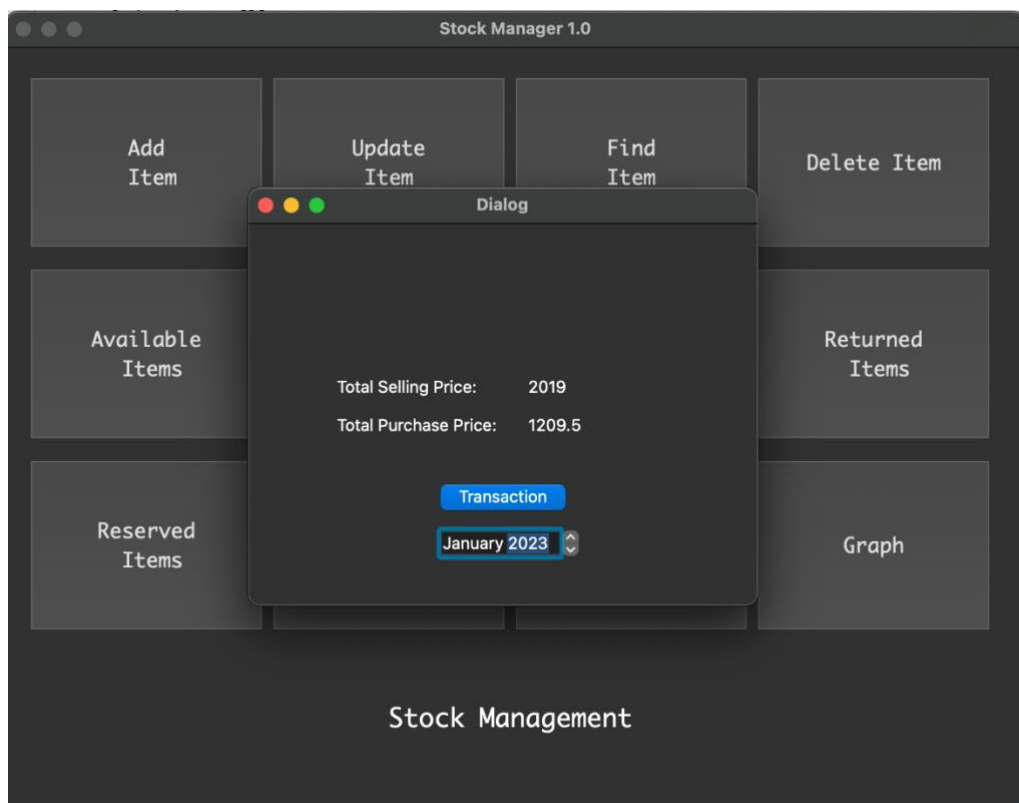


The screenshot shows the 'Stock Manager 1.0' application with a report window open. The report window displays a table with the following data:

	Id	Name	Quantity	Status	DC
1	8	Wine	180	Available	2023-01-01
2	7	Whiskey	40	Available	2023-01-01
3	6	Alcohol	1000	Reserved	2023-01-01
4	5	Water	100	Reserved	2023-01-01
5	4	Carrot	20	Returned	0
6	3	Milk	11	Reserved	2023-01-01
7	2	Potatoes	18	Sold	2023-01-01
8	1	Tomatoes	10	Available	2023-01-01

The background interface includes buttons for 'Add Item', 'Update Item', 'Find Item', 'Delete Item', 'Available Items', 'Returned Items', 'Reserved Items', and a 'Graph' section. The title 'Stock Management' is at the bottom.

## Transaction



The screenshot shows the 'Stock Manager 1.0' application with a 'Dialog' window open. The dialog displays the following information:

Total Selling Price: 2019  
Total Purchase Price: 1209.5

Below the prices, there is a blue button labeled 'Transaction' and a date selector showing 'January 2023' with a dropdown arrow.

The background interface is the same as the previous screenshot, with buttons for 'Add Item', 'Update Item', 'Find Item', 'Delete Item', 'Available Items', 'Returned Items', 'Reserved Items', and a 'Graph' section. The title 'Stock Management' is at the bottom.

# Graph

