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# **Software Requirements Specification**

**For**

## **TASTES FROM THE GREENS POINT OF SALE SYSTEM**

***Version 1.0 approved***

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**04 / 25 / 2020**

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## Revision History

Theodore Benito C. Coteok II .....	04/10/2020
Reginald Geoffrey L. Bayeta IV .....	04/25/2020

# **1. Introduction**

## **1.1 Purpose**

This software requirements specification describes the software functional and nonfunctional requirements for Tastes from the Greens Point of Sale System (POS system) 1.0. Tastes from the Greens POS system 1.0 serves as a functional POS system for ordering from the tea shop with functionalities such as managing orders, updating shop inventory, and generates daily sales report.

## **1.2 Document Conventions**

This document was created based on the IEEE template for system Requirement Specification.

## **1.3 Intended Audience and Reading Suggestions**

The audiences of this document are the following:

- Mr. Jahmil G. Reyes, the client for this project and one of the owners of Taste from the Greens.
- Engr. Mark Lester F. Padilla, the course instructor for the course SOFDESG.
- Fellow programmers who are interested in working on the project by further improving it or fix existing bugs
- Students who are interested in programming and POS system-type programs

This version — version 1.0 – provides general descriptions of the system. It includes the main functionalities that a simple POS system should have. The client and the course instructor should review the document to affirm that the initial requirements in the proposal were met, and to suggest and/or identify additional features that can be added in the future.

The next version — version 2.0 – will take the suggestions of the readers/users from version 1.0. Version 2.0 will include more detailed requirement analysis, and more useful functions that can aid the client with their promising business.

## **1.4 Project Scope**

Tastes from the Greens POS system is developed for the tea shop Tastes from the Greens. It will be used for processing orders, updating inventory, and generating daily reports for the shop. This software is for the final output for the course SOFDESG and developed for our client Mr. Reyes.

## **1.5 References**

[Taste from the Greens POS system](#)

[Taste from the Greens POS system program manual](#)

[Taste from the Greens POS system Github page](#)

## 2. Overall Description

### 2.1 Product Perspective

The Tastes from the Greens POS system is a system that aims to replace the store's current POS system since the program was said to have random glitches and occasional bugs that needs fix. This program is intended to be a standalone, isolated product only to serve its purpose exclusively, though the code used may be referenced for other future improvements/separate programs.

### 2.2 Product Features

The major features of the expected program are as follows:

#### Cashier Menu

Handles individual order and updates cart per item added.

- Proceed to payment: Proceeding to next order
- Void transaction: Voids selected order

#### Statistics Menu

Shows the general daily sales statistics— statistics per item category and item name category.

- Generate report: Exports an .csv file report to any preferred location in user's computer

#### Inventory Menu

Shows all the items in the shop where user can add, edit, or delete items.

- Add: Add an item in the inventory
- Edit: Edit an existing item in the inventory
- Delete: Delete an existing item in the inventory

### 2.3 User Classes and Characteristics

Since this software is intended for a specific client, it is to be used by those who play as the cashier role for the tea shop Tastes from the Greens. Other developers may also use this software as a reference for their own program.

Some factors that need to be considered are:

- The software is meant to be used by one user at a time.
- It is user-friendly and straightforward enough so that the software product is ready to be used and potentially fully understood without any need for any extensive product manuals and such (since the software includes basic/straightforward front-end functionalities).

Cashier (favored)	The cashier's task is to manage orders for the tea shop. This program can make the cashier's job more efficient and allows for efficient bookkeeping, cash flow tracking, and report generation for statistics.
Store owners	The store owners can sometimes play the cashier role at times, the store owner may use the program to track data on which products are best on what days.

## 2.4 Operating Environment

The primary operating environment of the system are Personal Computers (desktops, laptops, workstations, etc.) with operating systems that supports the JaxaFX software platform (Microsoft Windows, Linux, and macOS), as well as support and installation of Java version 1.8.

## 2.5 Design and Implementation Constraints

Software Used	Description
Operating system	During the creation of the software, the programmers used Microsoft Windows as the operating system of choice, as it is the operating system that the programmers are accustomed to, and that is readily available.
Integrated development environment	The programmers used IntelliJ IDEA as the IDE of choice. This is the IDE that the programmers are accustomed to when programming with the Java programming language and utilizing the JavaFX software platform.
Visual Layout Tool	The programmers used Scene Builder as it is easier for the programmers to create a visual layout of the graphical user interface with this software.

## 2.6 User Documentation

[Taste from the Greens POS system](#)

[Taste from the Greens POS system program manual](#)

[Taste from the Greens POS system Github page](#)

## 2.7 Assumptions and Dependencies

Taste from the Greens POS system is developed in Java and therefore it needs Java to be installed in the user's computer. The current version of the software — version 1.0 requires Java version 8 or higher.

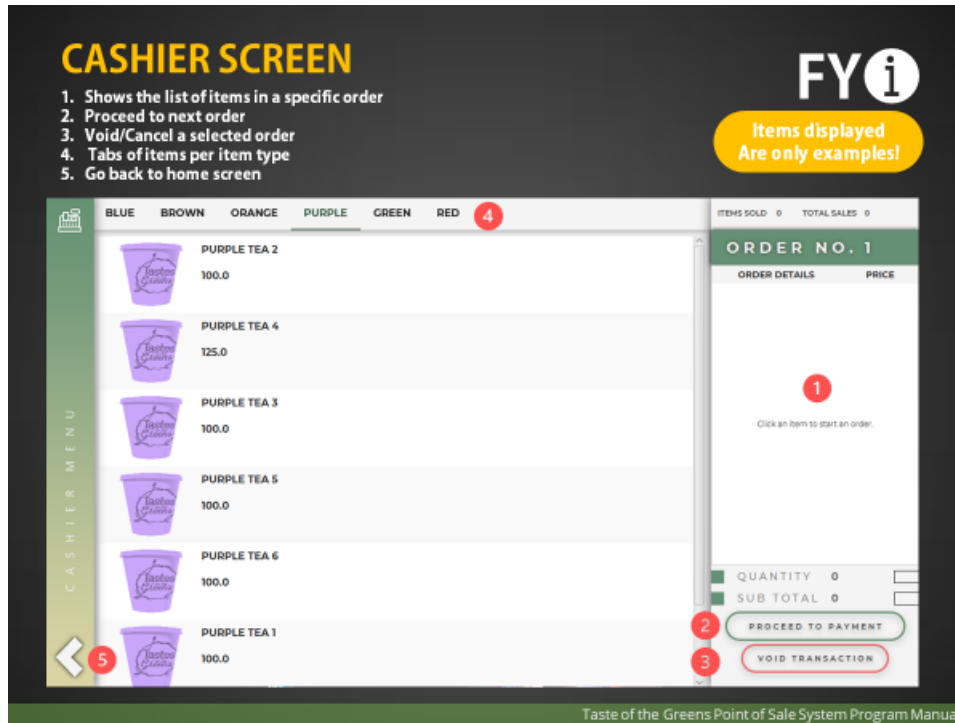
## 3. System Features

This section demonstrates the functionalities of the Taste from the Greens POS system. The following images used in this section are extracted from the Taste from the Greens POS system program manual that can be found in section 2.6 of this document.

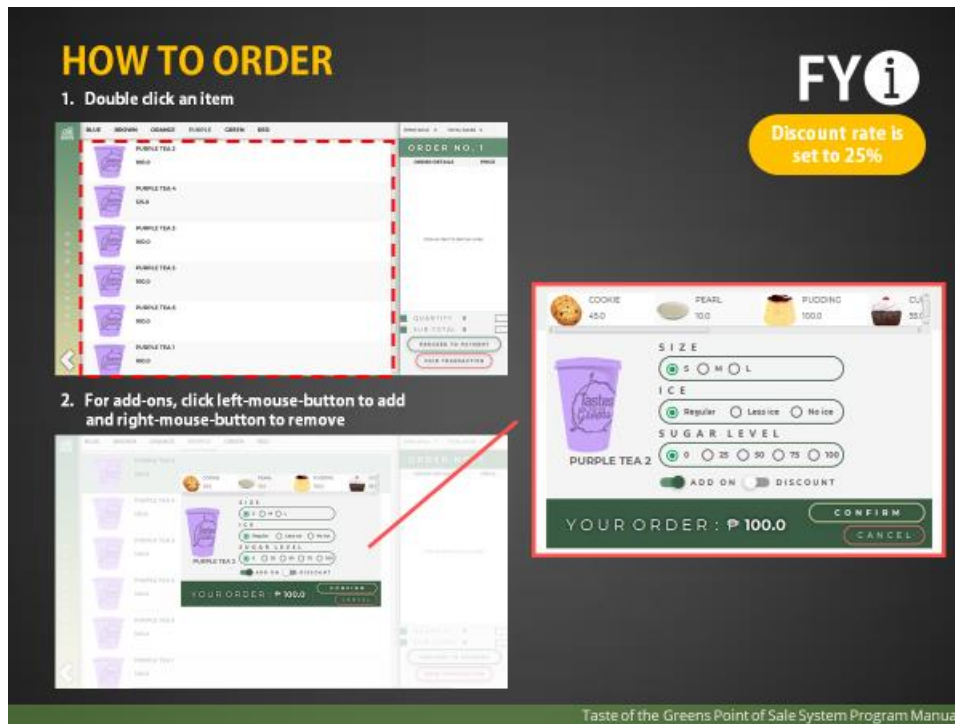
### 3.1 Cashier mode

Function: Capability to process orders by adding orders to cart for finalization of purchase.

#### 1. Cashier Screen

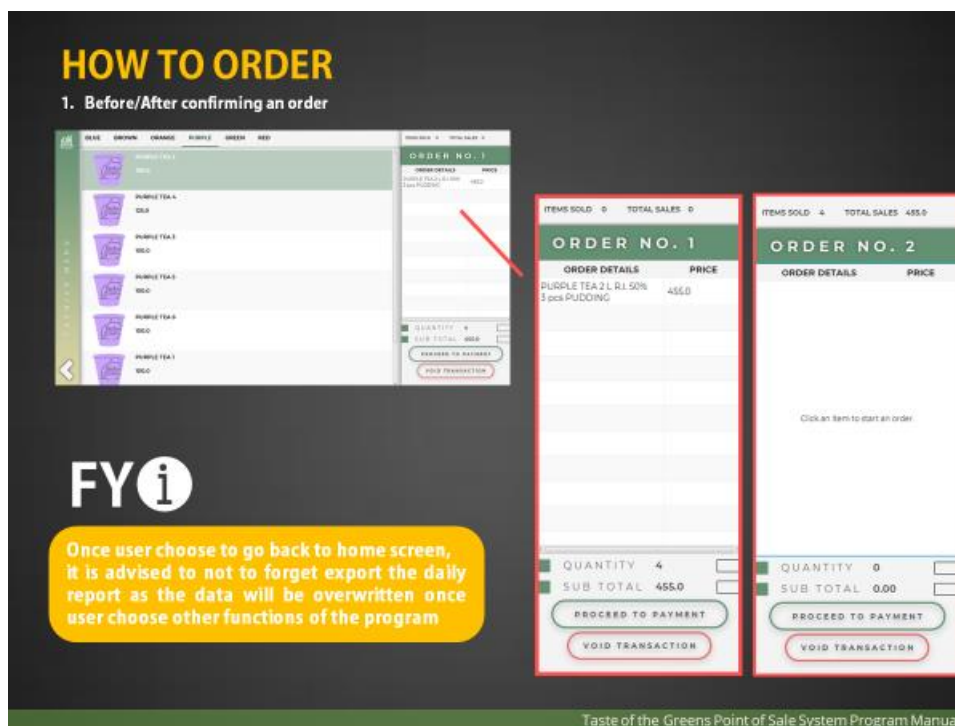


#### 2. How to Order 2/2



To order an item, user needs to double click the item and a window will pop-up. User will be required to select the size of the tea, quantity of ice, sugar level, and the add-ons per order. Discount can also be applied to the order. The constant discount rate in the program is set to 25%.

### 3. How to Order 2/2



After processing atleast one (1) order, user can choose to 1.) Add more orders in the cart 2.) Proceed to payment 3.) Void a selected order. It must be noted that this program does not covered printing a receipt since it's still in its first version where it still needs feedback primarily from the client, and also from the course instructor.

## 3.2 Generating a daily report

Shows the daily sales statistics for the shop that can be exported to a .csv file.

### 1. Statistics Screen

**STATISTICS SCREEN**

- Shows the general daily statistics
- Shows the statistics per item category
- Shows the statistics per item name
- Export an excel file report to any preferred location
- Go back to home screen menu

**TASTE OF THE GREENS** 2020-04-22

TOTAL AMOUNT	455.0
TOTAL CUPS SOLD	0.5   0 M   1 L
TOTAL ITEMS SOLD	4
TOTAL ADD-ON SOLD	3

**TEA CATEGORY** **QUANTITY**

ADD-ON	3
PURPLE	1

**TEA NAME** **QUANTITY**

PURPLE TEA 2	1
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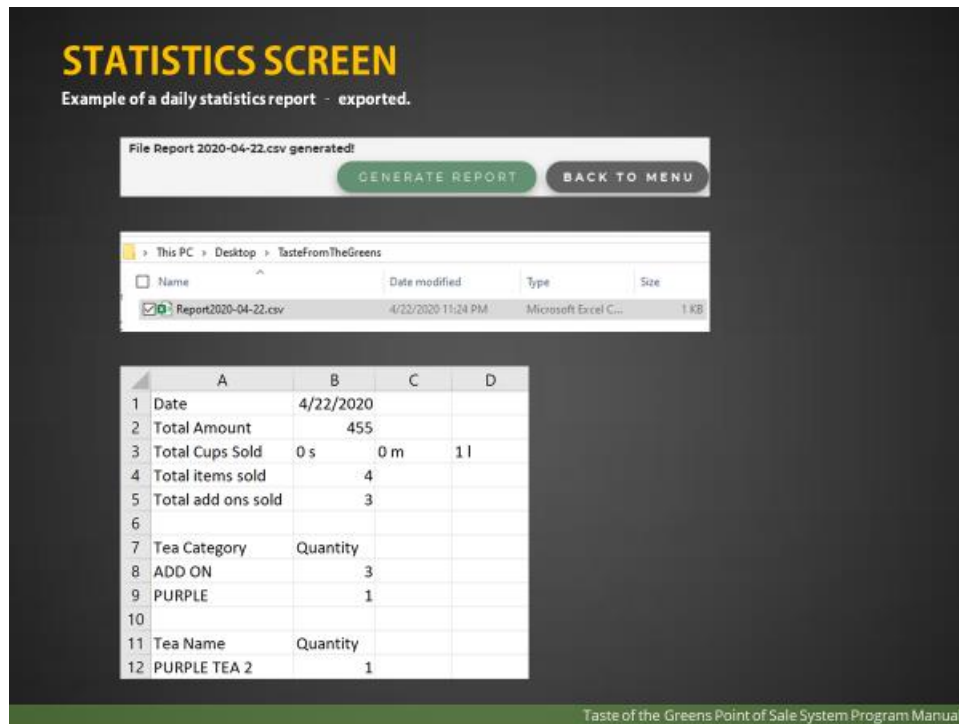
Displaying daily statistics

[GENERATE REPORT](#) [BACK TO MENU](#)

Taste of the Greens Point of Sale System Program Manual

### 2. Exporting a daily report in user's preferred location





### 3.3 Updating the inventory

Capability to add, edit, or delete item in the shop's inventory.

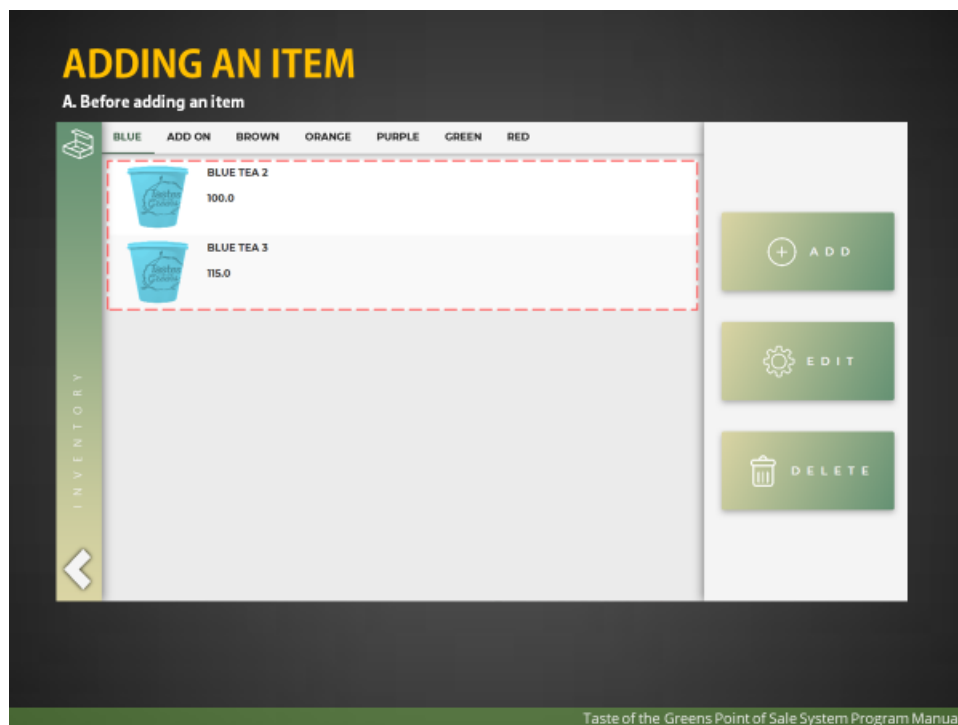


## 1. Adding an item

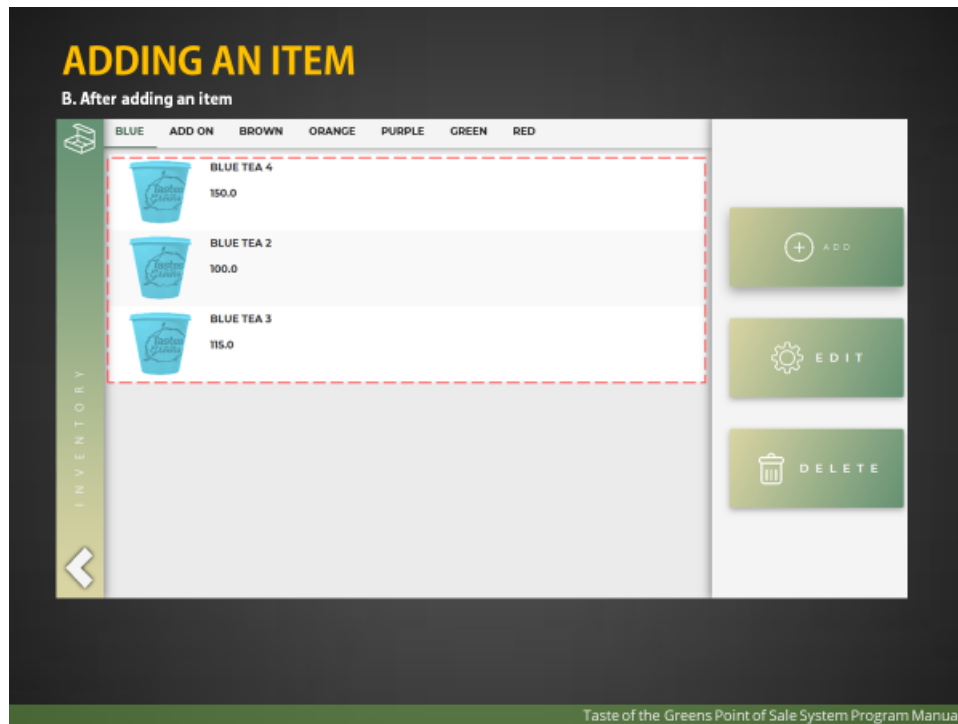
## 1.1 Fill out necessary details for the new item



## 1.2 Before adding an item

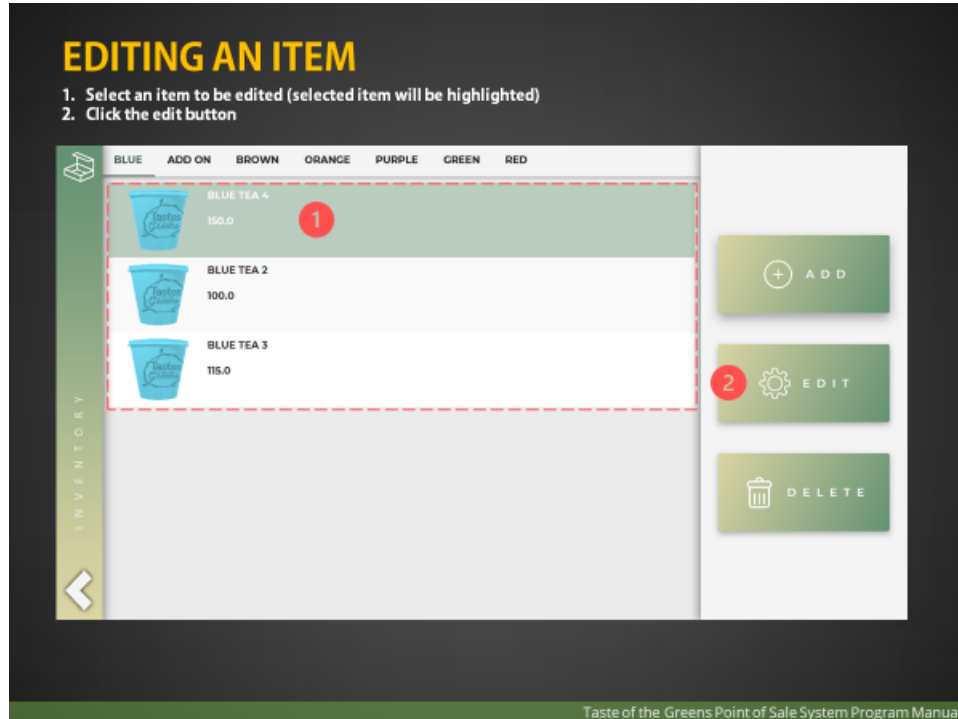


## 1.3 After adding an item



## 2. Editing an item

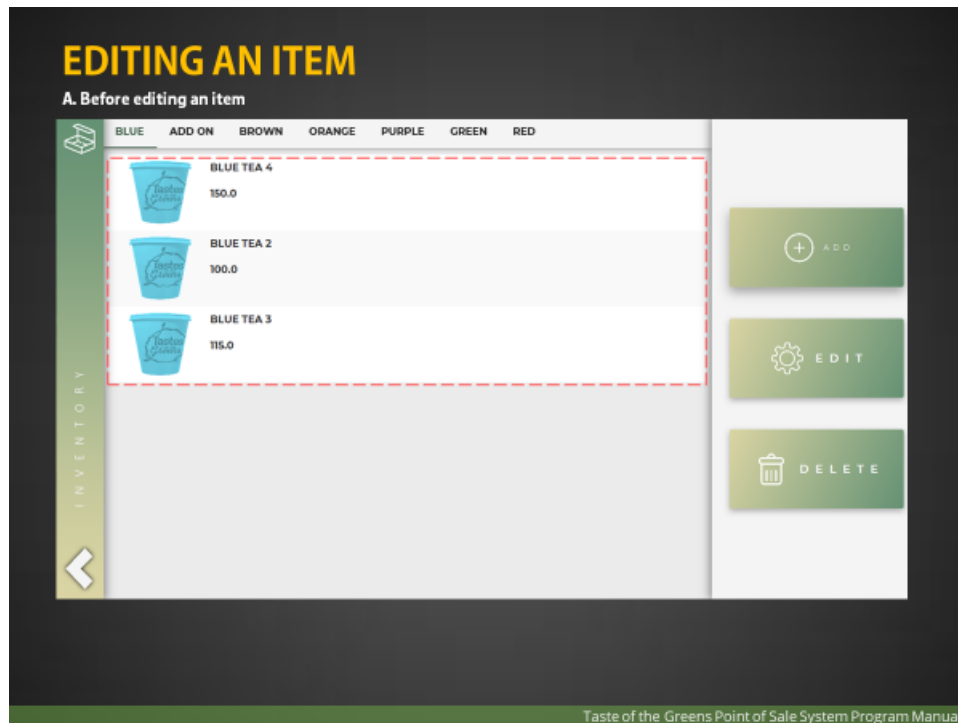
### 2.1 Selecting an item to be edited



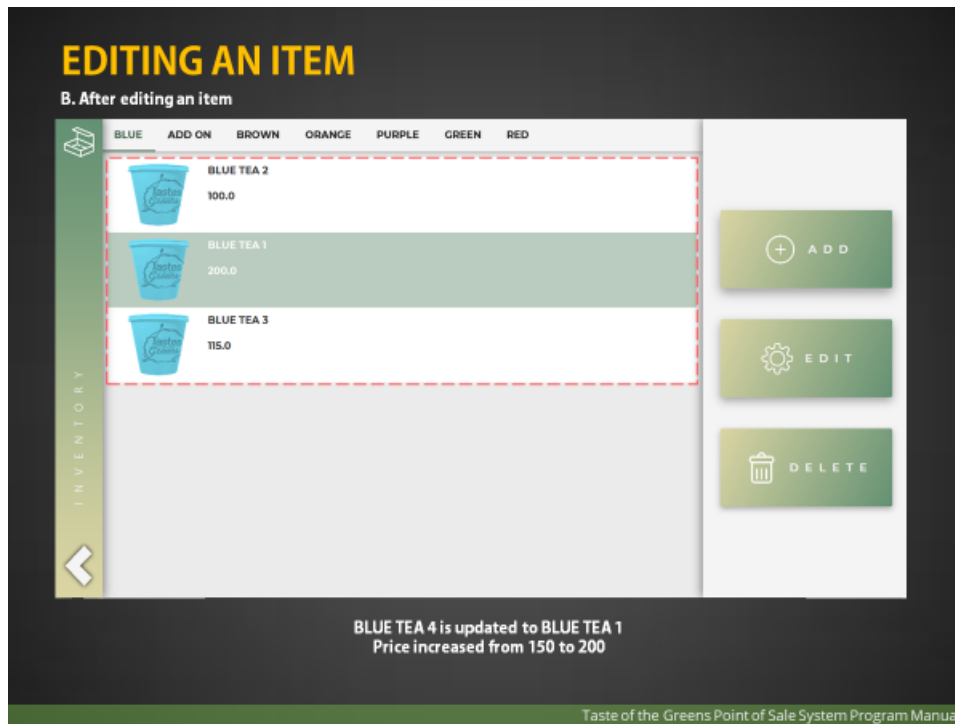
### 2.2 Fill-out the details for the selected item



## 2.3 Before editing an item

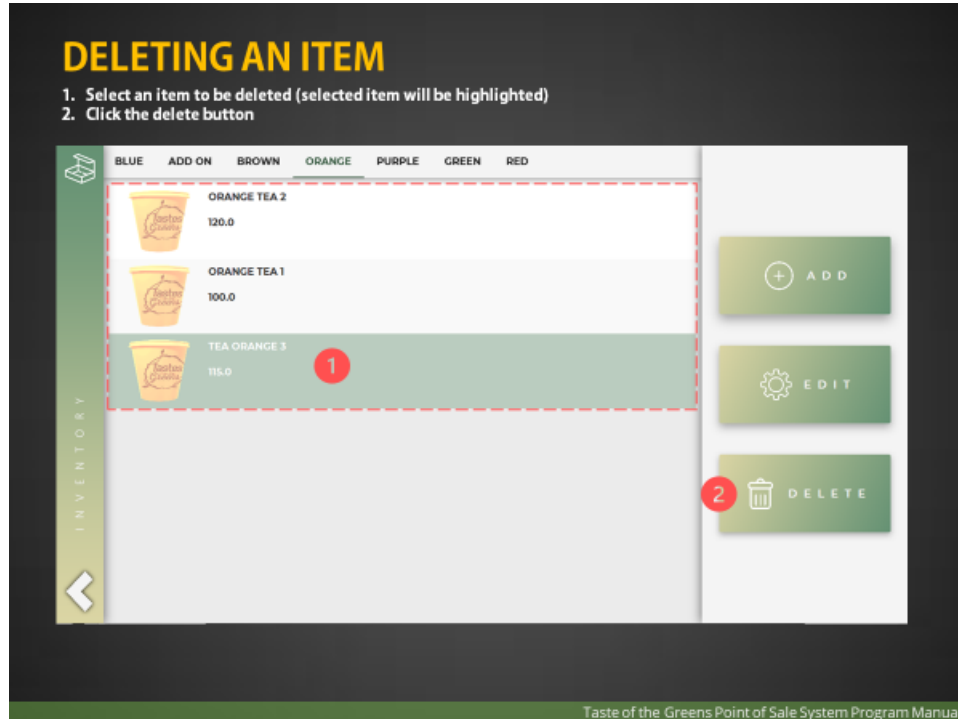


## 2.4 After editing an item

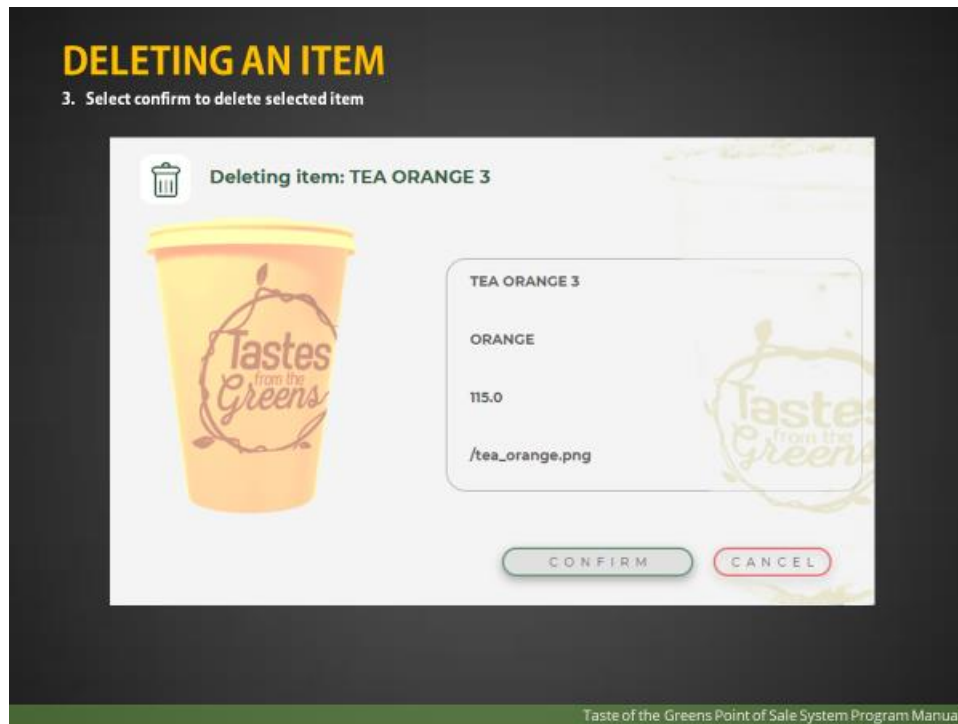


### 3. Deleting an item

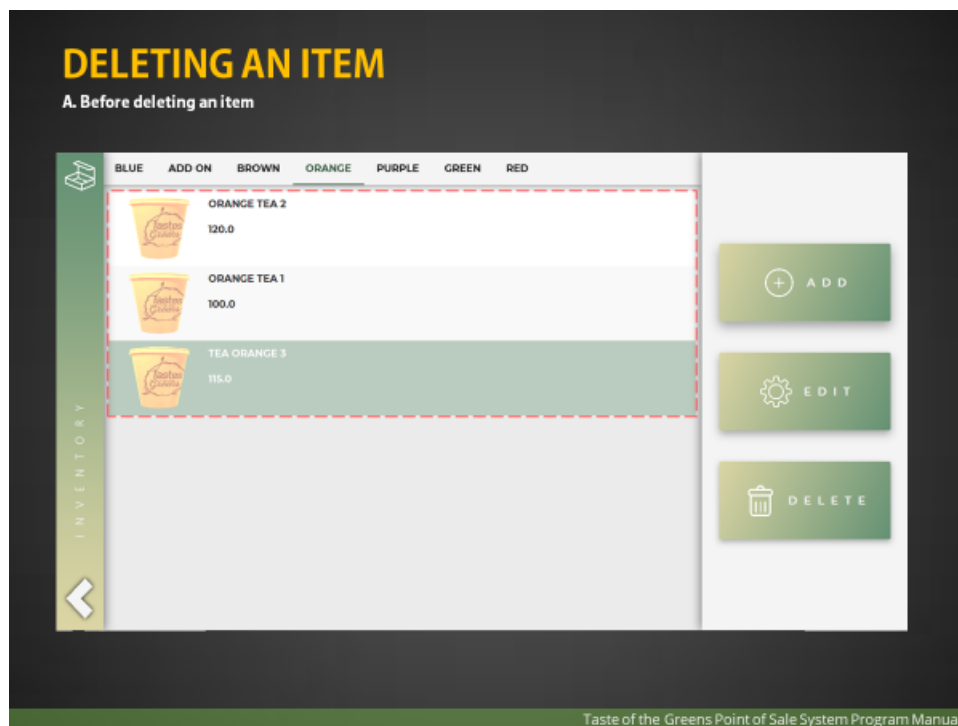
#### 3.1 Selecting an item to be deleted



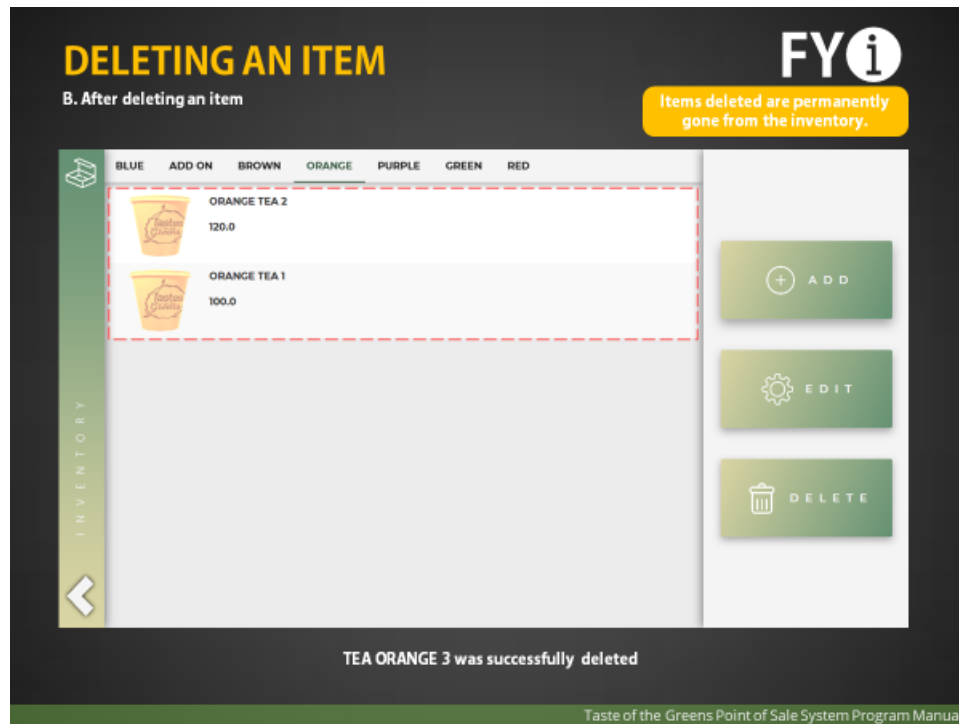
#### 3.2 Deleting an item confirmation



### 3.3 Before deleting an item



### 3.4 After deleting an item

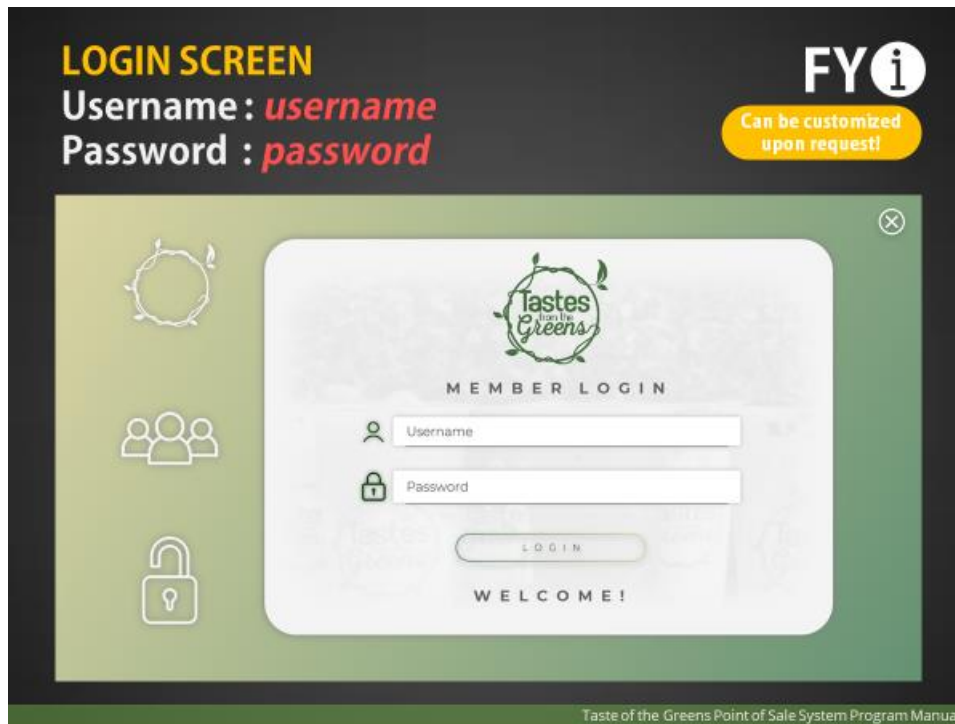


## 4. External Interface Requirements

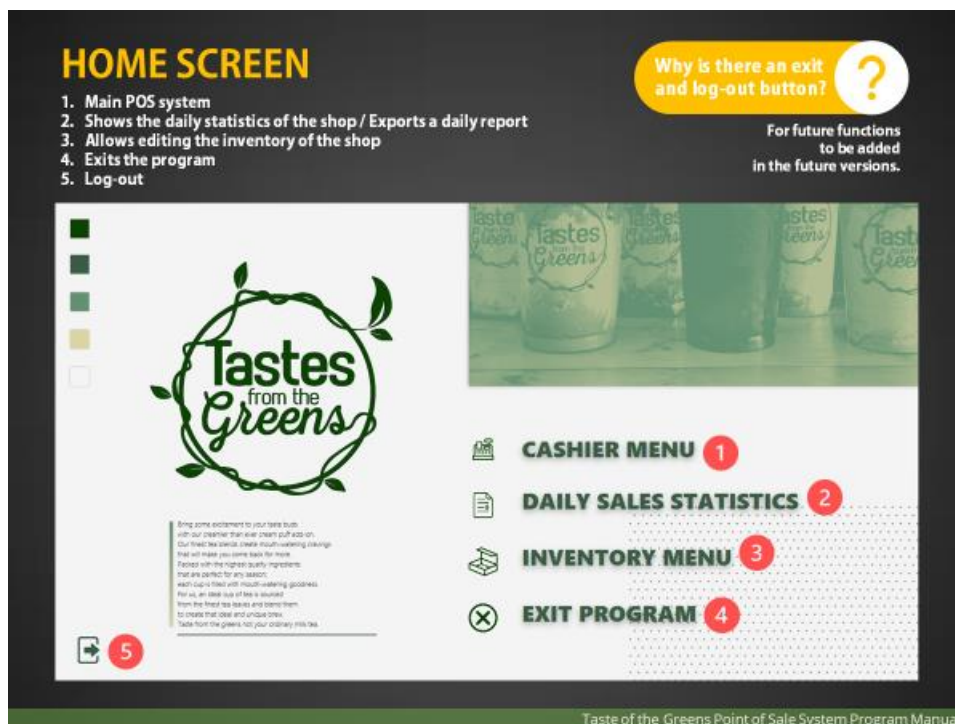
### 4.1 User Interfaces

The following images are extracted from the Taste from the Greens POS system program manual that can be found in section 2.6 of this document.

1. Login Screen

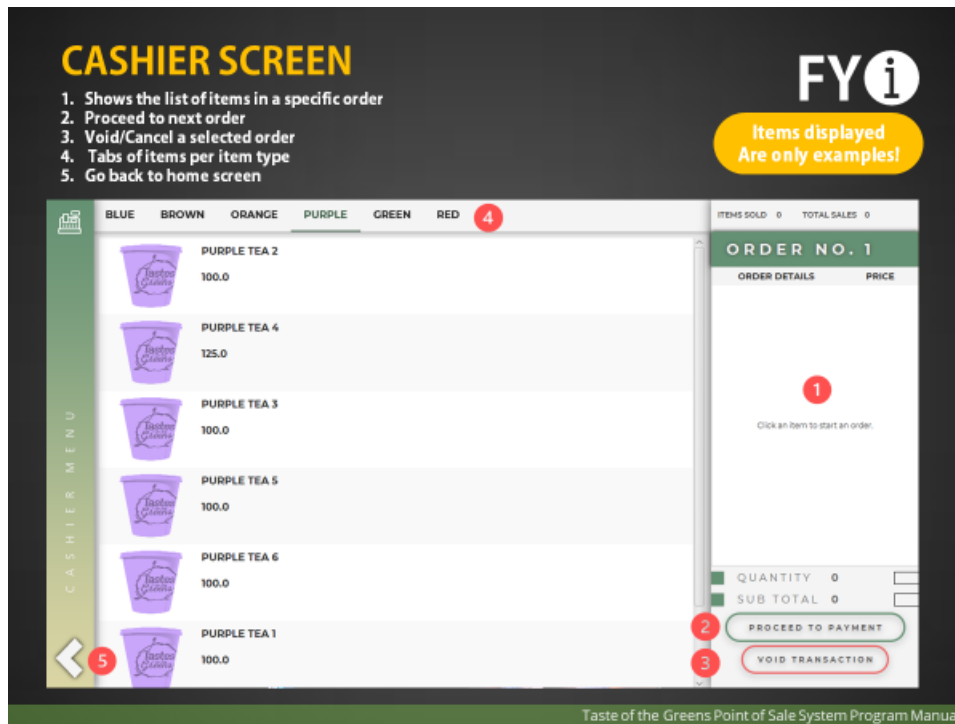


## 2. Home Screen

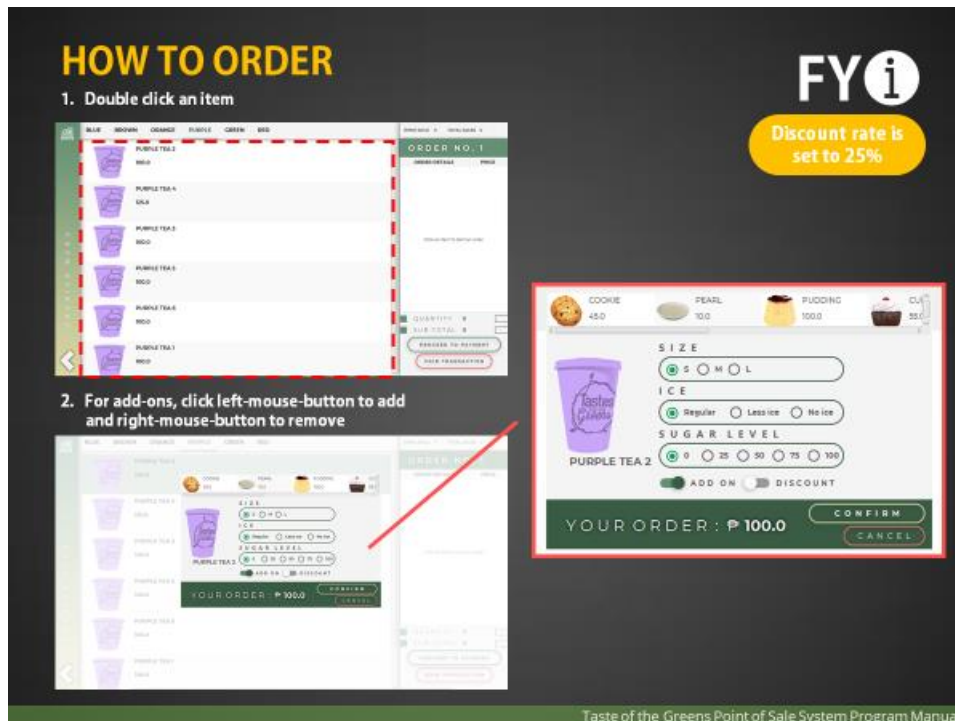


## 3. Cashier Screen





## 4. Cashier Screen: How to Order 1/2



## 5. Cashier Screen: How to Order 2/2

## HOW TO ORDER

1. Before/After confirming an order

**FYi**

Once user choose to go back to home screen, it is advised to not to forget export the daily report as the data will be overwritten once user choose other functions of the program

Taste of the Greens Point of Sale System Program Manual

### 6. Statistics Screen

## STATISTICS SCREEN

- Shows the general daily statistics
- Shows the statistics per item category
- Shows the statistics per item name
- Export an excel file report to any preferred location
- Go back to home screen menu

Taste of the Greens Point of Sale System Program Manual

### 7. Statistics Screen: Report exportation

## STATISTICS SCREEN

Example of a daily statistics report - exported.

File Report 2020-04-22.csv generated!

[GENERATE REPORT](#) [BACK TO MENU](#)

This PC > Desktop > TasteFromTheGreens

Name	Date modified	Type	Size
Report2020-04-22.csv	4/22/2020 11:24 PM	Microsoft Excel C...	1 KB

	A	B	C	D
1	Date	4/22/2020		
2	Total Amount	455		
3	Total Cups Sold	0 s	0 m	1 l
4	Total items sold	4		
5	Total add ons sold	3		
6				
7	Tea Category	Quantity		
8	ADD ON	3		
9	PURPLE	1		
10				
11	Tea Name	Quantity		
12	PURPLE TEA 2	1		

Taste of the Greens Point of Sale System Program Manual

### 8. Inventory Screen

## INVENTORY SCREEN

1. Add a new item
2. Edit an existing item
3. Delete an existing item
4. Tabs of items per item type
5. Go back to home screen

BLUE ADD ON BROWN ORANGE PURPLE GREEN RED 4

BLUE TEA 2  
100.0

BLUE TEA 3  
115.0

1 + ADD

2 ⚙ EDIT

3 🗑 DELETE

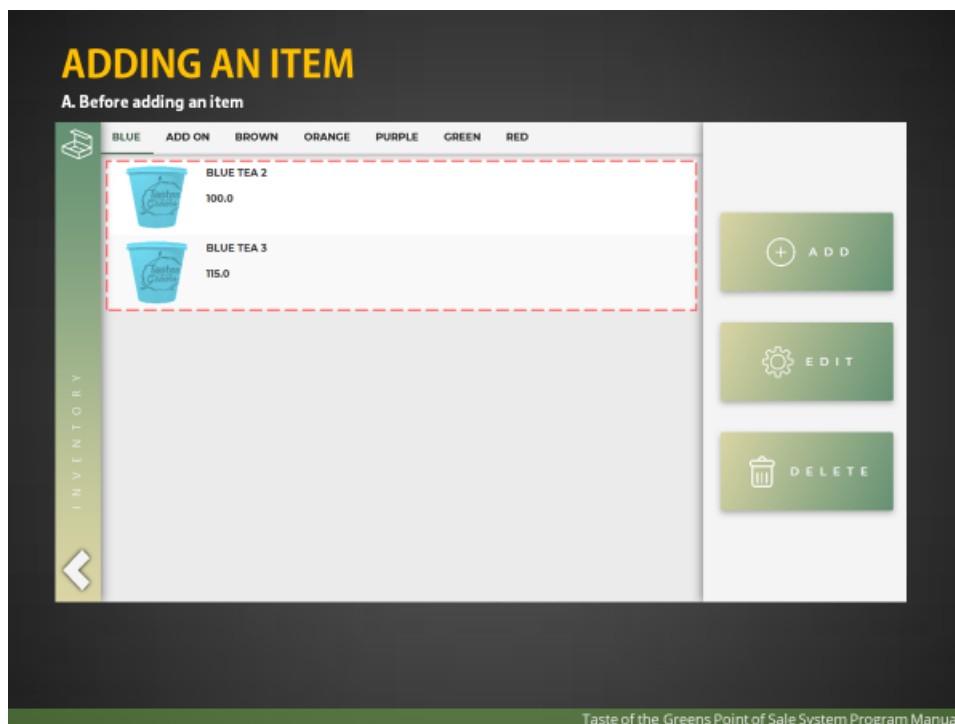
5 ◀

Taste of the Greens Point of Sale System Program Manual

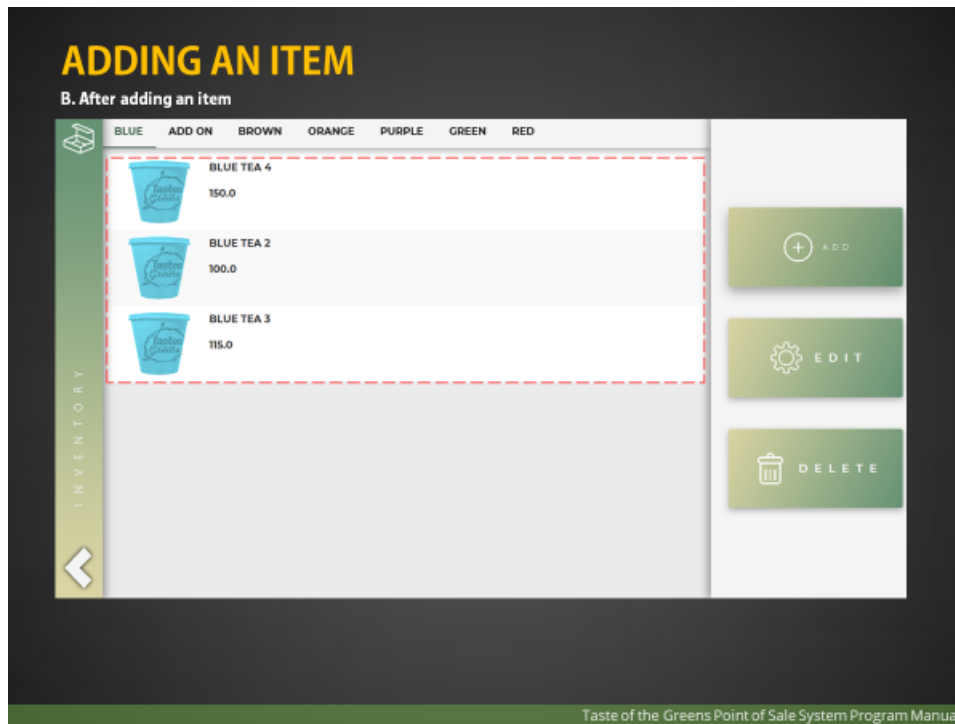
### 9. Inventory Screen: Adding an item



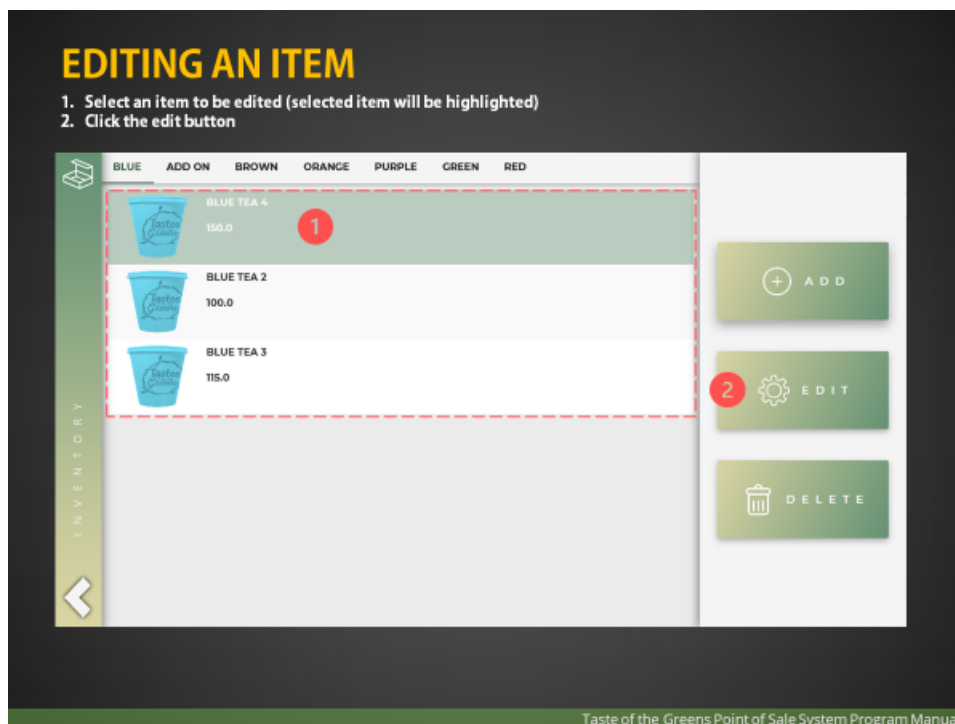
10. Inventory Screen: Adding an item (BEFORE)



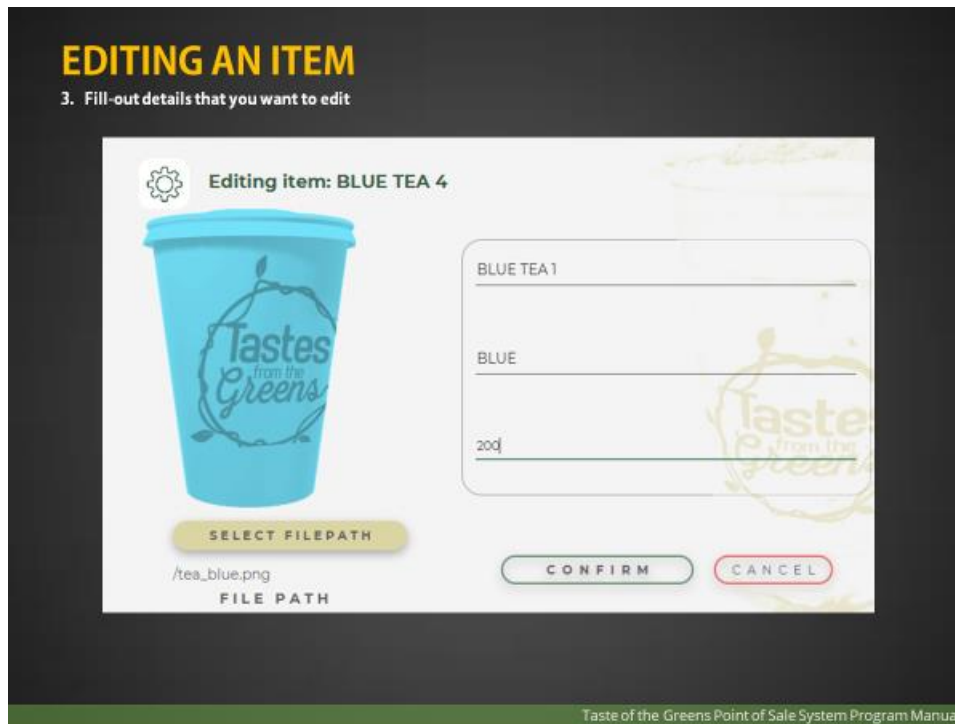
11. Inventory Screen: Adding an item (AFTER)



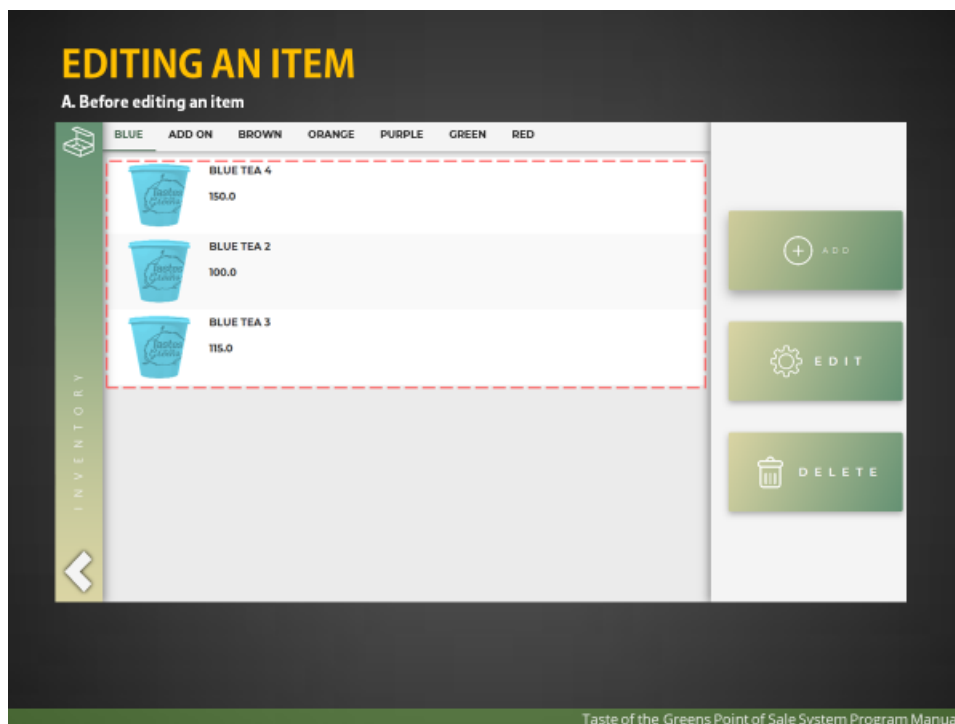
## 12. Inventory Screen: Editing an Item 1/2



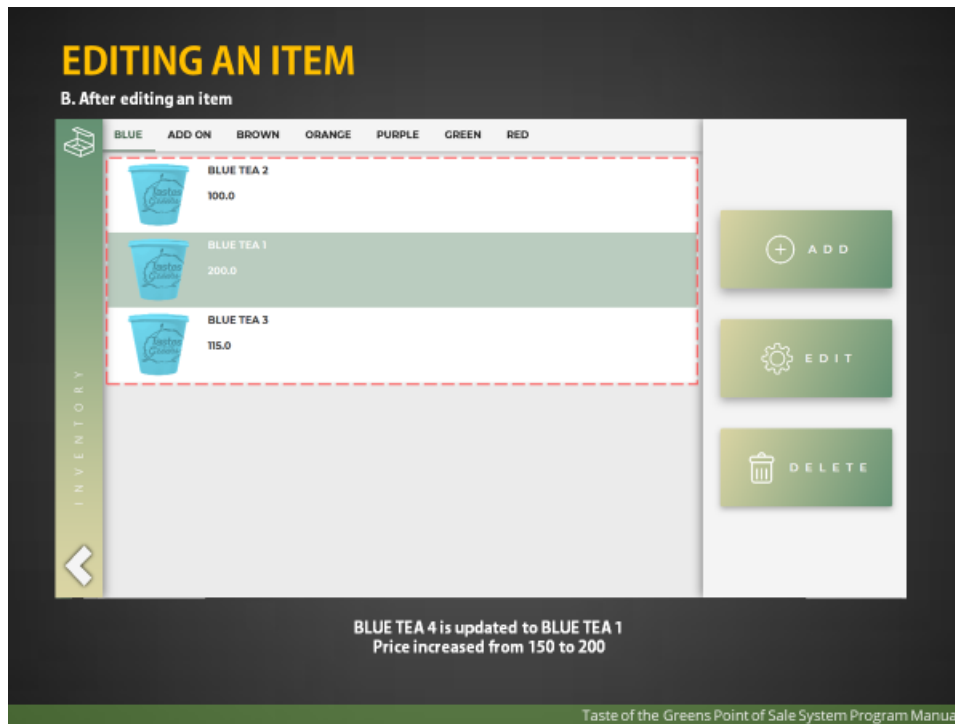
## 13. Inventory Screen: Editing an Item 2/2



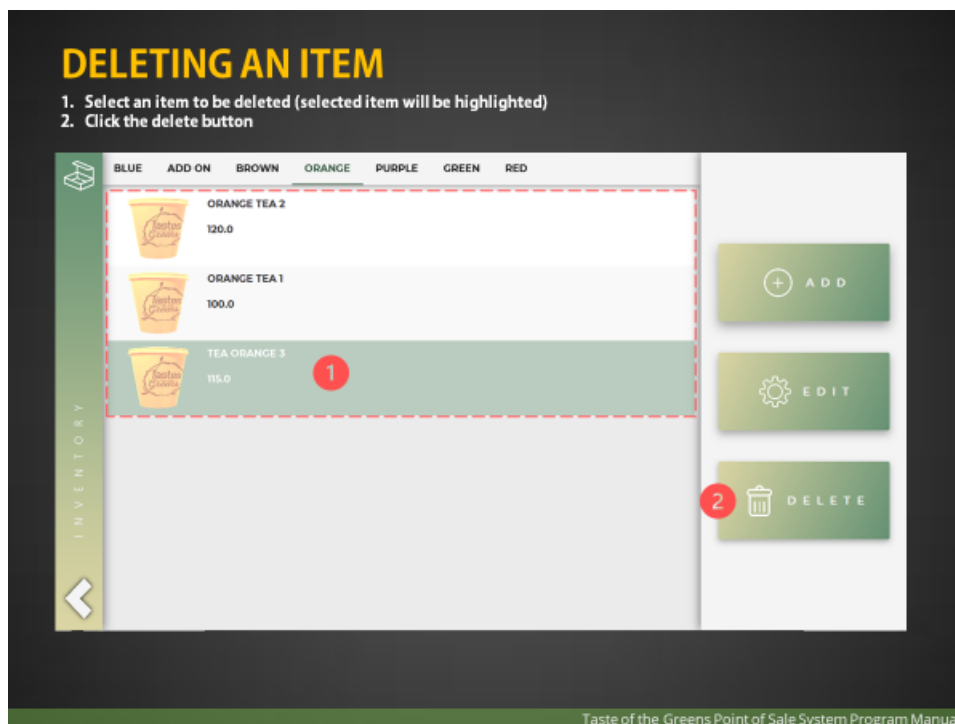
## 14. Inventory Screen: Editing an Item (BEFORE)



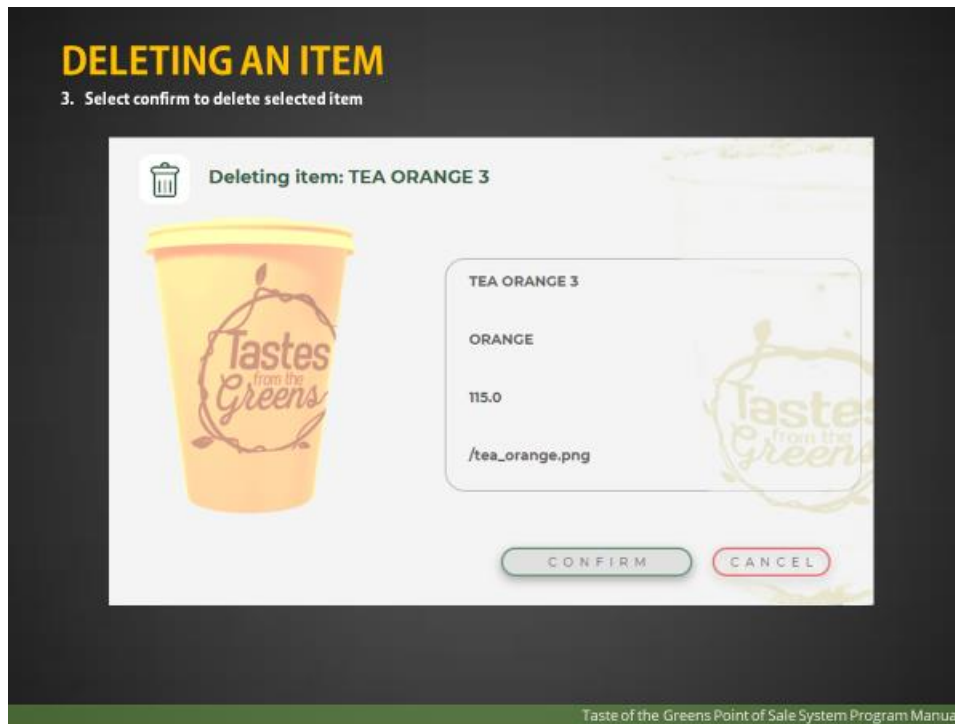
## 15. Inventory Screen: Editing an Item (AFTER)



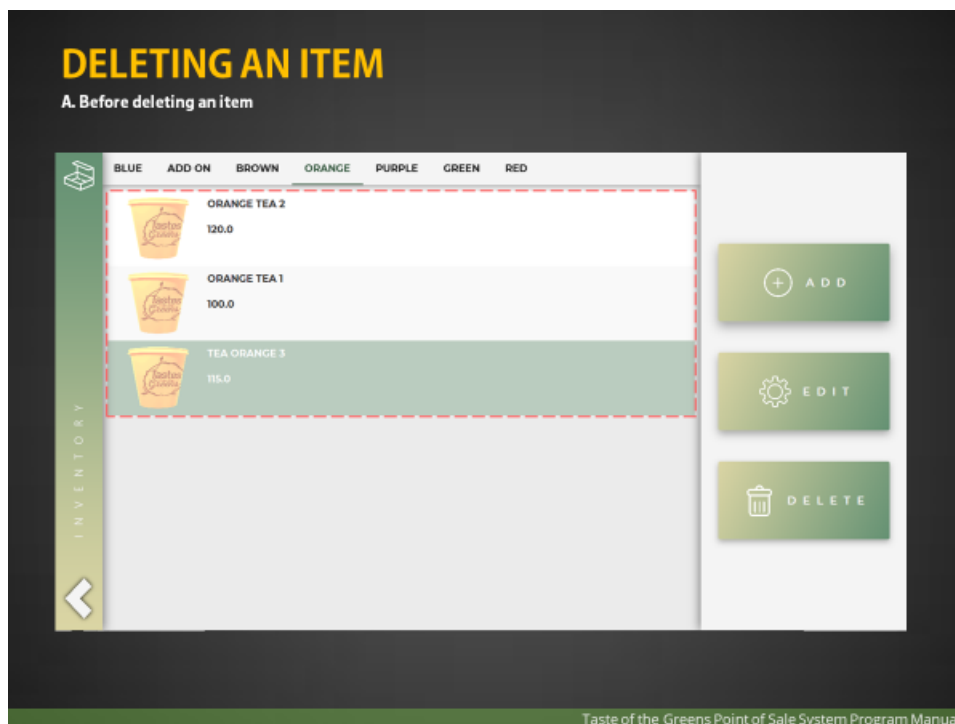
## 16. Inventory Screen: Deleting an Item 1/2



## 17. Inventory Screen: Deleting an Item 2/2

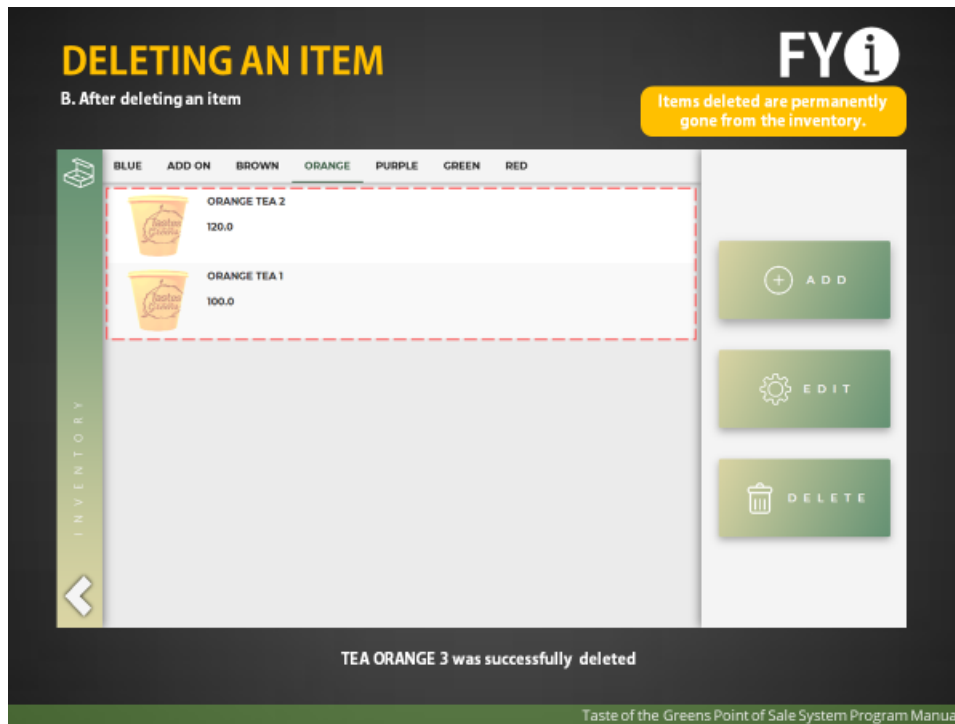


18. Inventory Screen: Deleting an Item (BEFORE)



19. Inventory Screen: Deleting an Item (AFTER)





## 4.2 Hardware Interfaces

No external hardware interfaces have been identified.

*The only hardware consideration that can be considered in using this software is the personal computer (with appropriate operating system) that the program is going to be operated on.*

## 4.3 Software Interfaces

Software Used	Description
Operating system	Any Operating system that supports the JaxaFX software platform (Microsoft Windows, Linux, and macOS).
Software Development Kit	The software utilizes Java version 1.8

## 4.4 Communications Interfaces

The system is a basic desktop application and would generally work with all major operating systems (since JavaFX supports Microsoft Windows, Linux, and macOS). This software basically requires a basic input from the user which would act as a means of communication from the user. Communication to the user is done by success or failure to input the proper format.

## **5. Other Nonfunctional Requirements**

### **5.1 Performance Requirements**

The program has no identified performance requirements.

### **5.2 Safety Requirements**

Items deleted will be permanently gone from the inventory. If the user accidentally deleted an item, they would need to add it again manually using the add function. Once the user chooses to go back to the home screen, it is advised not to forget to export the daily report as the data will be overwritten once the user chooses other functions of the program.

### **5.3 Security Requirements**

The program has no identified security requirements.

### **5.4 Software Quality Attributes**

- The program provides the user with a simple and user-friendly interface.
- The program shall run on most major operating systems such as Windows, MacOS, Linux, given Java version 1.8 is installed on the operating device.
- The program shall not collect any data inputted by the user, likewise, no data shall be collected in the source code inspection process as well.

## **Appendix A: Glossary**

Taste from the Greens is a franchised tea shop that has multiple branches across Luzon.

Reference:

Website : <https://tastesfromthegreens.com/>

Facebook: <https://www.facebook.com/tastesfromthegreens/>

Instagram: <https://www.instagram.com/tastesft>