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# HELL WEEK COFFEE

## USER MANUAL

Developed by

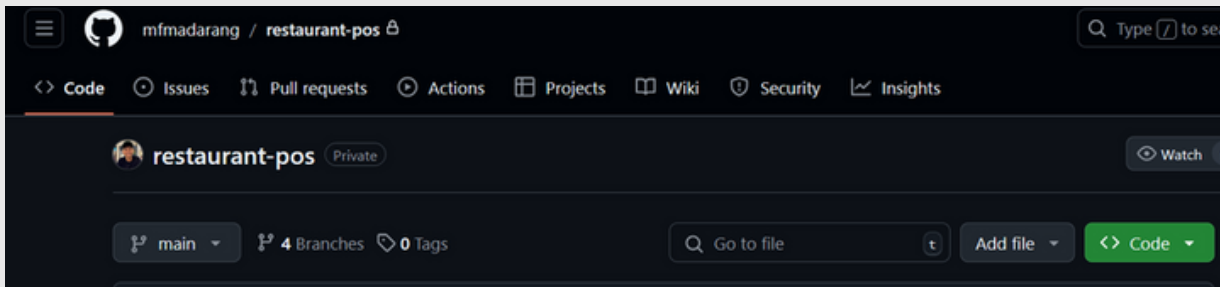
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# WELCOME TO HELL WEEK COFFEE

To obtain and install the Hell Week Coffee Menu, follow the steps below. The program and related files are available in the repository

<https://github.com/mfmadarang/restaurant-pos>



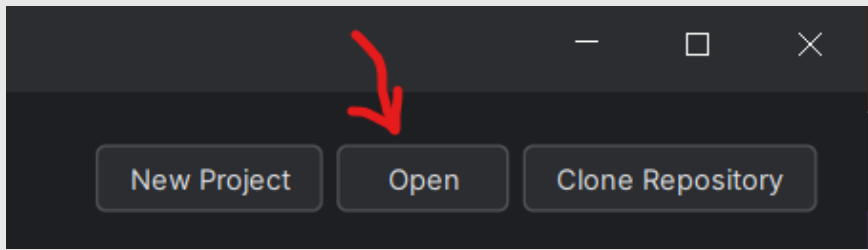
- Open your web browser and go to <https://github.com/mfmadarang/restaurant-pos>
- Sign in to your Github account or create one if you don't have an account.
- Once signed in, click on the link provided to repository containing the Hell Week Cafe program and git clone the repository.

```
C:\Users\Gelo Fernando\Desktop\Hell Week Coffee>git clone https://github.com/mfmadarang/restaurant-pos.git
Cloning into 'restaurant-pos'...
remote: Enumerating objects: 230, done.
remote: Counting objects: 100% (24/24), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 230 (delta 5), reused 8 (delta 0), pack-reused 206 (from 1)
Receiving objects: 100% (230/230), 547.12 KiB | 1.29 MiB/s, done.
Resolving deltas: 100% (90/90), done.
```

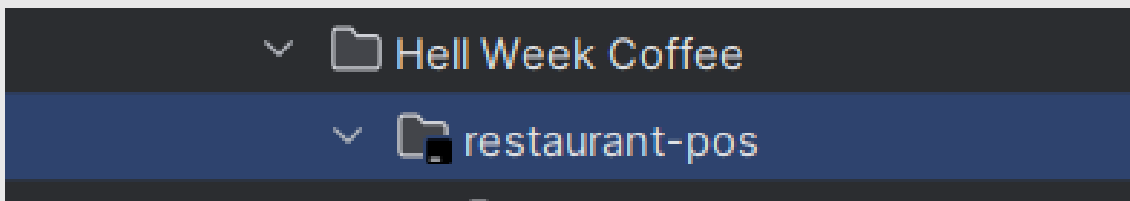
- Once cloned, use any IDE (integrated development environment) of your choice (in this case intellij) and make sure the root is connected towards the cloned repository



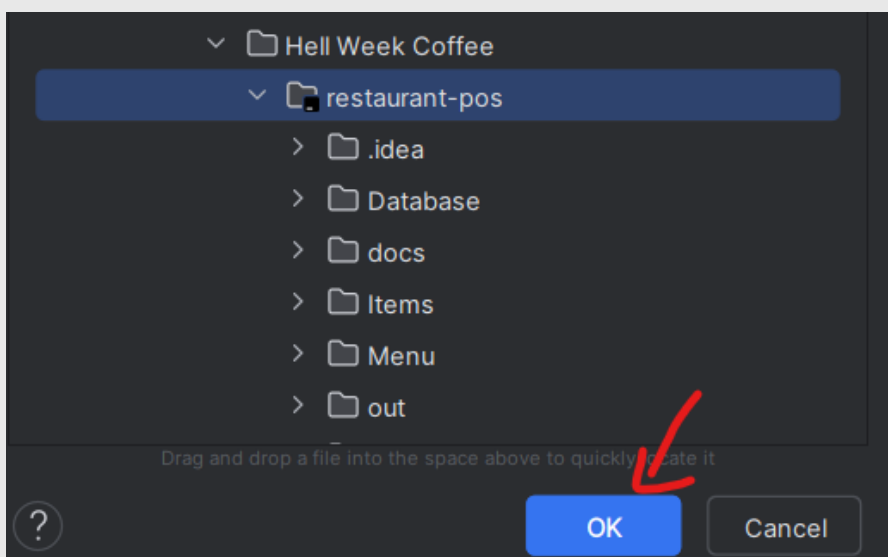
- On the upper left/right corner (depending on where you open your project, click open to find the folder on where you stored the cloned repository



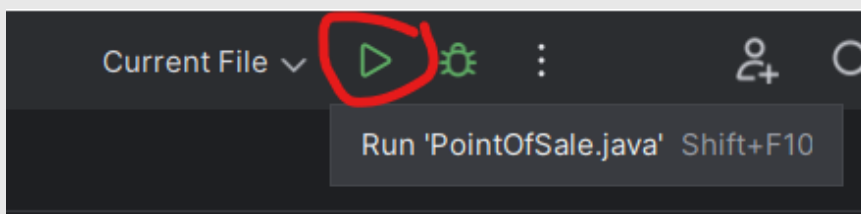
- Then click on the rooted clone repository which will then open the block of code.



- NOTE: Make sure to set your root as "restaurant-pos" otherwise it might cause issues in your system.



- Once the OK button is clicked, it will display the necessary files.
- On the upper right corner, make sure to click the play button so that it would run the program.



## HOW TO USE THIS APPLICATION?

Clicking the run button in the upper-right corner of IntelliJ will execute the Hell Week Coffee program, which will then display the main menu for users to interact with.

### </> Running the command-line

- Entering the command line would result in a menu like this:

```
=====
                        HELL WEEK COFFEE
=====
Select the type of user:

(1) Cashier   - Access the Cashier Menu
(2) Manager   - Access the Manager Menu
(3) Quit      - Exit the System

=====
Please enter your choice (1-3):

Enter your choice: |
```

- You have three options to choose, the Cashier User, the Manager User, and Quitting. Just input your choice in the text and it would automatically lead you towards your desired user choice.

### </> Choosing (3) Quit

- Choosing quit would automatically end the program. This would also display the list of items in the database as listed.

```
Enter your choice: 3
Exiting the system. Goodbye!
```

The next sections would mainly focus on the manager and cashier functionalities of the program. Kindly read to be able to use our system optimally.

# MANAGER MENU

This section will guide you to use the manager properly as intended. When choosing the manager option, choose (2) as your input in order to input its full access. Inputting this will result into this screen:

```
Enter your choice: 2
Welcome, Manager!
Select option:
(1) Add Item
(2) Modify Item
(3) Remove Item
(4) Import Items from File
(5) Logout
```

Each step of the walkthrough is accompanied by informative screen prints, allowing you to visualize the interface and processes. Be mindful of cautionary information, ensuring a smooth user experience. Whether you are a student using this app for educational purposes or a professional, this walkthrough is designed to enhance your comprehension and utilization of the Hell Week Coffee Menu.

## Cautions and Warnings

Before using running the program, please be ensure that all inputs are provided as integers or words as specified. Incorrect input formats may result in errors.

```
Welcome, Manager!
Select option:
(1) Add Item
(2) Modify Item
(3) Remove Item
(4) Import Items from File
(5) Logout
Enter Choice: 6
Invalid input. Please enter a number between 1 and 5.
```

## Add item functionality

The "Add Item" functionality allows managers to add new items (Drinks, Food, or Merchandise) to the Point of Sale system. This process involves specifying the item's name, category, sizes and prices, and customizations (if applicable).

```
Welcome, Manager!  
Select option:  
(1) Add Item  
(2) Modify Item  
(3) Remove Item  
(4) Import Items from File  
(5) Logout  
Enter Choice: 1
```

## Steps to Add an Item using the Manager Main Menu:

### </> 1. Access the Manager Menu

- Launch the program and log in as a manager.
- Select the Add Item option from the menu by entering the number 1.

```
Select option:  
(1) Add Item  
(2) Modify Item  
(3) Remove Item  
(4) Import Items from File  
(5) Logout  
Enter Choice: 1  
Select Item Type:  
(1) Drinks  
(2) Food  
(3) Merchandise  
Enter Choice:
```

### </> 2. Select Item Type

- The program will prompt you to select the type of item you want to add:
  - Drinks: Beverages such as coffee, tea, or blended drinks.
  - Food: Edible items such as pastries, sandwiches, or pasta.
  - Merchandise: Non-consumable items like T-shirts, mugs, or bags.
- Enter the corresponding number for the item type you wish to add. In this case, let us use Drinks for an example.

```
Enter Choice: 1  
Select Item Type:  
(1) Drinks  
(2) Food  
(3) Merchandise  
Enter Choice: 1  
Input Item Name:
```

### </> 3. Provide the Item Name

- Enter the name of the item (e.g., "Latte," "Croissant," or "Coffee Mug"). Ensure that the name is descriptive and unique.

```
Input Item Name:  
Latte
```

### </> 4. Specify Sizes and Prices

- The program will ask if the item has multiple sizes:
  - Enter 1 for Yes.
  - Enter 2 for No.

If you choose to add sizes:

- Provide the size (e.g., "Small," "Medium," "Large") and the price for each size.
- For example:
  - Small: \$2.99
  - Medium: \$3.99
  - Large: \$4.99

If no sizes are needed, proceed without specifying size-price pairs.

```
Add different Sizes?  
(1) Yes  
(2) No  
Enter Choice: 1  
Enter Size Name (or press Enter to finish adding sizes):  
Small  
Enter Price for Small :  
2.99  
Do you want to add another size?  
(1) Yes  
(2) No  
2
```

### </> 5. Specify the Item Category

- Enter the category the item belongs to.
- For example:
  - Drinks: "Espresso," "Blended," "Tea"
  - Food: "Pastry," "Sandwich," "Cake"
  - Merchandise: "Mug," "Bag," "TShirt"

```
Enter Category: Espresso
```

## </> 6. Add Customizations (Optional)

- If the item type is Drink or Food, you can add customizations like flavors, toppings, or extras:
  - Enter the customization name (e.g., "Flavor," "Topping").
  - Specify options for the customization (e.g., "Vanilla: 0.50," "Caramel: 0.75").
- Repeat for additional customizations or skip if no customizations are required.

```
Do you want to add customizations?
(1) Yes
(2) No
Enter Choice: 1
Enter Customization Name: Flavor
Enter Customization Option (or press Enter to finish): 1
Enter Price for 1: 0.50
Enter Customization Option (or press Enter to finish):
Do you want to add another customization?
(1) Yes
(2) No
```

## </> 7. Item Code Generation and Review Confirmation

- The system will automatically generate a unique Item Code based on:
  - The item's category type first and last letters (Categories under Drink, Food, or Merchandise).
  - The first four letters of the item's name.
  - Random Code number

```
Enter your choice (1-2):
2
=====
CUSTOMIZATIONS COMPLETED
=====
Customizations have been successfully added.
=====

=====
ADDING ITEM
=====

Drink added successfully! Item Code: E0-LATT-001
=====
ITEM SUCCESSFULLY ADDED
=====
Item has been added to the inventory. The data has been saved.
=====
```



# Modify Item Functionality

The "Modify Item" functionality allows managers to update existing items in the Point of Sale system. This includes modifying the item's name, category, sizes, prices, or customizations.

```
Welcome, Manager!  
Select option:  
(1) Add Item  
(2) Modify Item  
(3) Remove Item  
(4) Import Items from File  
(5) Logout  
Enter Choice:
```

## Steps to Modify an Item using the Manager Main Menu:

### </> 1. Access the Manager Menu

- Launch the program and log in as a manager.
- Select the Modify Item option by entering the number 2.

```
Welcome, Manager!  
Select option:  
(1) Add Item  
(2) Modify Item  
(3) Remove Item  
(4) Import Items from File  
(5) Logout  
Enter Choice: 2  
Enter Item Code to Modify:
```

### </> 2. Search for the Item to Modify

- The program will prompt you to search for the item:
  - Enter the Item Code (e.g., E0-LATT-001)
  - The system will display the details of the item if it exists.
- If the item is not found, you will be notified and returned to the main menu.

```
Enter the Item Code of the item you wish to modify:  
  
E0-LATT-001
```

### </> 3. Select the Attribute to Modify

- Once the item is found, choose what you want to update:

- Item Name: Change the name of the item.
  - Example: Change "Latte" to "Iced Latte."
- Category: Update the item's category.
  - Example: Change "Espresso" to "Blended."
- Sizes and Prices: Modify existing sizes, add new sizes, or remove sizes.
  - Example: Update "Medium:3.99" to "Medium:4.49."
  - Add a new size such as "Extra Large:5.99."
- Customizations: Edit or add customizations for drinks or food.
  - Example: Add a new flavor option like "Hazelnut:0.60" under "Flavor."
  - Remove an existing option like "Vanilla:0.50."

```
Current Sizes and Prices:
Small: 2.99
Select action:
(1) Add/Modify Size
(2) Remove Size
(3) Finish
Enter Choice: 1
Enter Size Name:Extra Large
Enter Price:5.99
Current Sizes and Prices:
Small: 2.99
Extra Large: 5.99
Select action:
(1) Add/Modify Size
(2) Remove Size
(3) Finish
Enter Choice: 3
```

#### </> 4. Select Finish when done

- Once confirmed, the program will:
  - Update the item's details in the inventory.
  - Save the changes to the database or text file.
  - Return to the Manager Menu

```
Select action:
(1) Add/Modify Size
(2) Remove Size
(3) Finish
3
=====
MODIFICATION SUCCESSFUL
=====
The changes have been saved successfully.
=====

MANAGER MENU
=====
Welcome, Manager! Please select an option:

(1) Add Item           - Add a new item to the menu
(2) Modify Item        - Edit an existing item
(3) Remove Item        - Delete an item from the menu
```

# Remove Item Functionality

The "Remove Item" functionality allows managers to permanently delete an item from the Point of Sale system. This feature is used when an item is no longer offered, discontinued, or added by mistake.

```
Welcome, Manager!  
Select option:  
(1) Add Item  
(2) Modify Item  
(3) Remove Item  
(4) Import Items from File  
(5) Logout  
Enter Choice:
```

## Steps to Remove an Item using the Manager Main Menu:

### </> 1. Access the Manager Menu

- Launch the program and log in as a manager.
- Select the Remove Item option by entering the number 3.

```
Welcome, Manager!  
Select option:  
(1) Add Item  
(2) Modify Item  
(3) Remove Item  
(4) Import Items from File  
(5) Logout  
Enter Choice: 3
```

### </> 2. Search for the Item to Remove

- The program will prompt you to search for the item:
  - Enter the Item Code (e.g., E0-LATT-001)
  - The system will display the details of the item if it exists.
- If the item is not found, you will be notified and returned to the main menu.

```
Enter your choice (1-5):  
  
3  
Enter Item Code to Remove:  
E0-LATT-001
```

### </> 3. Press Enter for deletion

- If confirmed, the program will:
  - Remove the item from the inventory.
  - Update the database or text file to reflect the deletion.
  - Display a message: "Item with Code <code name> has been removed"

```
Enter Item Code to Remove:
E0-LATT-001
Item with Code E0-LATT-001 has been removed.
=====
MANAGER MENU
=====
```

## Import Items from File

The "Import Items from File" functionality allows managers to bulk upload multiple items into the Point of Sale system by providing a properly formatted file. This feature is ideal for adding large datasets or transferring items from external sources.

### Steps to Import an Item using the Manager Main Menu:

#### </> 1. Access the Manager Menu

- Launch the program and log in as a manager.
- Select the Import Items from File option by entering the number 4.

```
Welcome, Manager!
Select option:
(1) Add Item
(2) Modify Item
(3) Remove Item
(4) Import Items from File
(5) Logout
Enter Choice: 4|
```

#### </> 2. Provide the File Path

- The program will prompt:
  - "Enter the path to the file to import:"
- Enter the full file path where the file is stored.

Example:

- C:\Documents\Database\item\_list.txt (for files in the current directory).

```

Select option:
(1) Add Item
(2) Modify Item
(3) Remove Item
(4) Import Items from File
(5) Logout
Enter Choice: 4
Enter the path to the file to import:
D:\CS23MP\restaurant-pos\Database\Drink.txt

```

### </> 3. Save changes

The system automatically saves the successfully imported items to the database or text file.

```

Enter the path to the file to import:
D:\CS23MP\restaurant-pos\Database\Drink.txt
Import completed.
Successfully imported: 0 items
Failed to import: 0 items

```

## Logout Selection

The "Logout" functionality allows the manager to exit the Manager Menu and return to the main login or program interface. This feature is critical for securely ending a management session and preventing unauthorized access.

```

Welcome, Manager!
Select option:
(1) Add Item
(2) Modify Item
(3) Remove Item
(4) Import Items from File
(5) Logout
Enter Choice:

```

Steps to Logout an Item using the Manager Main Menu:

### </> 1. Access the Manager Menu

Launch the program and log in as a manager.

```

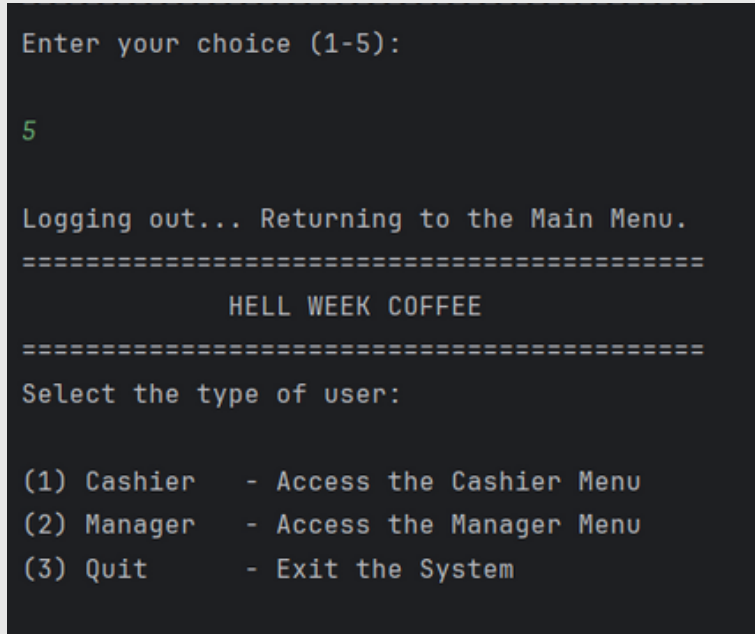
(5) Logout - Exit to the Main Menu
=====
Enter your choice (1-5):
5

```

## </> 2. Select Logout Option and Exit the manager interface

From the Manager Menu, select the Logout option by entering the number 5 when prompted. You will be securely exited from the Manager Menu and redirected to the main login interface or program start screen.

```
Enter your choice (1-5):  
  
5  
  
Logging out... Returning to the Main Menu.  
=====
```



```
HELL WEEK COFFEE  
=====
```

Select the type of user:

- (1) Cashier - Access the Cashier Menu
- (2) Manager - Access the Manager Menu
- (3) Quit - Exit the System

## IMPORTANT NOTES

- Ensure inputs are in the correct format to avoid errors.
- Make sure all necessary fields are included when importing items from a file.
- Follow the correct file format for successful import.
- Avoid adding items with duplicate names and categories.
- Double-check customizations to ensure correct options and prices.
- Let the system generate item codes to avoid conflicts.
- If the import fails, check the file for errors or split it into smaller parts.
- Log out after finishing tasks to prevent unauthorized access.

# CASHIER MENU

This section will guide you to use the cashier properly as intended. When choosing the cashier option, choose (1) as your input in order to input its full access. Inputting this will result into this screen:

```
=====
                        HELL WEEK COFFEE
=====
Select the type of user:

(1) Cashier   - Access the Cashier Menu
(2) Manager   - Access the Manager Menu
(3) Quit      - Exit the System

=====
Please enter your choice (1-3):

Enter your choice: 1|
```

Each step of the walkthrough is accompanied by informative screen prints, allowing you to visualize the interface and processes. Be mindful of cautionary information, ensuring a smooth user experience. Whether you are a student using this app for educational purposes or a professional, this walkthrough is designed to enhance your comprehension and utilization of the Hell Week Coffee Menu.

## Cautions and Warnings

Be cautious when handling input/output operations to prevent file read/write errors, ensure proper exception handling for invalid data, and verify correct usage of category indices and item customizations

```
=====
                        HELL WEEK COFFEE
=====
Select the type of user:

(1) Cashier   - Access the Cashier Menu
(2) Manager   - Access the Manager Menu
(3) Quit      - Exit the System

=====
Please enter your choice (1-3):

Enter your choice: 4
Invalid choice. Please select between 1 and 3.
Enter your choice:
```

# Place order functionality

The "Place Order" functionality in the Cashier Main Menu allows the cashier to initiate and manage a new transaction by adding items to a customer's order.

```
Opening Cashier Menu...
=====
                CASHIER MENU
=====
Please select an option:

(1) Place Order  - Start a new transaction
(2) Logout      - Exit the Cashier Menu

=====
Please enter your choice (1-2):
```

## Steps to Place an Order using the Cashier Main Menu.

### </> 1. Access the Cashier Menu

- Start the application and access the Cashier Main Menu.
- Choose (1) Place Order to initiate a new transaction.

```
=====
Please enter your choice (1-2):

Select choice:
1|
```

### </> 2. Start a Transaction

- The system will display any ongoing order summary (if applicable) or indicate that no items have been added yet.
- A menu of actions will appear:
  - Add a Drink
  - Add Food
  - Add Merchandise
  - Complete Transaction
  - Cancel Transaction
- Choose the corresponding option based on the type of item you want to add to the order.



```

Starting new transaction...
=====
                SELECT ITEM TYPE
=====
(1) Drink          - Add a Drink to the order
(2) Food           - Add Food to the order
(3) Merchandise    - Add Merchandise to the order
(4) Complete Transaction
(5) Cancel Transaction

=====
Please enter your choice (1-5):

Select choice:

```

### </> 3. Add Items to the Order

#### 1. Select Item Type:

- Choose whether you're adding a Drink, Food, or Merchandise. In this case, let us use Drink for an example.

```

(1) Drink          - Add a Drink to the order
(2) Food           - Add Food to the order
(3) Merchandise    - Add Merchandise to the order
(4) Complete Transaction
(5) Cancel Transaction

=====
Please enter your choice (1-5):

Select choice:
1

```

#### 2. Choose a Category::

- Categories specific to the selected item type will be displayed (e.g., Espresso, Cold Drinks, Blended).
- Select the desired category to view items available under it.

```

                SELECT CATEGORY FORDRINK=====
(1) Espresso
(2) Cold Drinks
(3) Blended
Select choice:
1

```

### 3. Pick an Item:

- A list of items within the selected category will appear.
- Select an item to view its details.

```
=====
                SELECT A DRINK
                FROM ESPRESSO CATEGORY
=====
(1) Americano
Select choice:
1|
```

### 4. Choose Item Details:

- Size: For items like drinks or food, pick a size (e.g., Small, Medium, Large). Prices vary by size.
- Customizations: Add extras like Soy Milk or add-ons (if applicable). Customization prices will be added to the base price.
- Quantity: Enter the quantity of the item the customer wants.

Sizes

```
=====
                AVAILABLE SIZES
=====
(1) Medium      - P50.00
(2) Large       - P75.00
=====
Please enter your choice (1-2):
=====
Select choice:
1|
```

Customizations

```
=====
                SELECT A CUSTOMIZATION
=====
(1) Add Milk
(2) Done
=====
Select choice:
1|
=====
                SELECT AN OPTION FOR Add Milk=====
(1) Soy Milk      : P20.00
(2) Oat Milk      : P20.00
=====
Select choice:
1|
```

Quantity

```
Enter quantity for Soy Milk:
Select quantity: 1
1 instance(s) of Soy Milk added.
=====
                SELECT A CUSTOMIZATION
=====
(1) Add Milk
(2) Done
=====
Select choice:
1|
```

### 5. Confirm Item Selection:

- The system calculates the total price for the item based on your selections.
- The item is added to the current order summary.
- If the selected item already exists in the order, its quantity and price will be updated instead of duplicating it.

Confirm Item Selection

```
(1) Add Milk
(2) Done
=====
Select choice:
2|
Select quantity: 1
Added a new order.
=====
                CURRENT ORDER SUMMARY
```

## </> 4. View and Modify the Order

- The order summary is displayed dynamically, showing all added items, their quantities, and prices.
- You can continue adding items by repeating the steps above or proceed to finalize or cancel the transaction.

Current Order Summary

```
=====
CURRENT ORDER SUMMARY
=====

Item: Americano
Size: Medium (P50.00)
Customizations:
  - Add Milk: Soy Milk (P20.00)
Quantity: 1
Total Price: P70.00

Current Transaction Price: P70.00
=====
```

## </> 5. Finalize or Cancel the Transaction

- Once all items are added, select:
  - Complete Transaction:
    - View the final order summary and total transaction price.
    - Confirm the completion of the transaction.
- Cancel Transaction:
  - Discard all items in the order and return to the Cashier Menu.

```
=====
SELECT ITEM TYPE
=====
(1) Drink      - Add a Drink to the order
(2) Food       - Add Food to the order
(3) Merchandise - Add Merchandise to the order
(4) Complete Transaction
(5) Cancel Transaction

=====
Please enter your choice (1-5):

Select choice:
4

--- FINAL ORDER SUMMARY ---
Item: Americano
Size: Medium
Customizations:
  - Add Milk: Soy Milk (P20.0)
Quantity: 1
Total Price: P70.00

Total Transaction Price: P70.00

Transaction complete.
```

Complete Transaction

```
=====
SELECT ITEM TYPE
=====
(1) Drink      - Add a Drink to the order
(2) Food       - Add Food to the order
(3) Merchandise - Add Merchandise to the order
(4) Complete Transaction
(5) Cancel Transaction

=====
Please enter your choice (1-5):

Select choice:
5

Transaction cancelled by user. Returning to Cashier Main Menu.
=====
```

Cancel Transaction

# Logout functionality

The Logout option in the Cashier System allows the cashier to exit the current session and return to the main login screen or completely close the system. Here's how it works:

```
=====
                        CASHIER MENU
=====
Please select an option:

(1) Place Order - Start a new transaction
(2) Logout      - Exit the Cashier Menu

=====
Please enter your choice (1-2):

Select choice:
2
```

## Steps to Logout using the Cashier Main Menu.

### </> 1. Access the Cashier Menu

- Start the application and access the Cashier Main Menu.
- To log out, select option 2 (Logout).
- The system will then display a message confirming the logout action

```
(1) Place Order - Start a new transaction
(2) Logout      - Exit the Cashier Menu

=====
Please enter your choice (1-2):

Select choice:
2

Logging out... Thank you for using the system.
```

### </> 2. After Logging Out:

- Once you confirm the logout, the system will close the Cashier Main Menu and return back to the Hell Week Coffee Selection Menu

- Logging out will end the current session, ensuring that no further transactions or changes can be made without re-authentication.

```
Logging out... Thank you for using the system.
=====
                        HELL WEEK COFFEE
=====
Select the type of user:

(1) Cashier   - Access the Cashier Menu
(2) Manager   - Access the Manager Menu
(3) Quit      - Exit the System

=====
Please enter your choice (1-3):

Enter your choice: |
```

## IMPORTANT NOTES

- Make sure all orders are finalized and payments processed before logging out to avoid data loss.
- You can cancel a transaction ONLY once you have finished entering your order
- Always check the order summary to confirm items and pricing before finalizing the transaction.
- Double-check the item type, size, customizations, and quantity before adding them to the order.
- The system requires valid inputs for selections, so ensure the options you choose are within the specified range.
- If an item is added again, it will increase the quantity and adjust the price accordingly.
- Always log out after completing your shift to secure the system.