

# **User Manual for “Lee Supermarket” Storage Application**

Welcome to the storage management application for "Lee Supermarket" storage application! This guide will assist you in effectively using the application to handle various storage tasks, ensuring smooth and efficient management of inventory and products.

## **Main Menu Overview**

When you open our application, the Main Menu presents these options to efficiently manage and operate the application:

### **Initialize Database**

- Choose whether to use an empty storage or a pre-populated database at the start of the application.
- **How to Initialize Database:**
  1. Select "1" for using empty storage.
  2. Select "2" for using a pre-populated database.

**1. Storekeeper Menu:** Engage with this menu for inventory management tasks such as recording stock entries, making updates, and updating item statuses (Page 2).

**2. Management Menu:** This menu is designed for managers and includes tasks like overseeing inventory levels, accessing detailed reports, generating various managerial reports, applying discounts to products, and setting minimum quantity alerts (Page 3).

**3. User Menu:** Designed for regular users, this menu provides functionalities to check item availability, place orders, and handle other daily operations (Page 5).

**4. Exit:** Use this option to close the application safely.

## **Storekeeper Menu**

The Storekeeper Menu is designed for updating the inventory directly so the managers could use that information when I need, the menu looks like this:

### **1. Insert New Product**

- Use this option to add a new product to the inventory. You will be prompted to enter product details.

### **2. Insert New Items for Product**

- Use this option to add new items to existing products. You will be prompted to enter item details.

### **3. Update Item Status**

- Use this option to update the status of an item in the inventory. You will be prompted to enter the item code and the new status.
- **How to Update an Item Status:**
  1. Input the code of the item whose status you want to update.
  2. Input the new status. Valid statuses include "Defective," "Sold," and "Expired."
  3. Confirmation: If the item code and status are valid, the system will update the item's status and confirm the update. If the item cannot be found or the status is invalid, it will prompt you accordingly.

### **4. Update or Remove Product Status**

- Use this option to update or remove the status of a product. You will be prompted to enter the product code and the new status.

### **5.Exit**

- Select this to return to the Main Menu.

## **Management Menu**

The Management Menu offers detailed administrative control tools that can help accessing to the data we need regards the storage we have:

**1. Show All Items:** View a comprehensive list of all items.

- Select this option to display a list of all items currently in the inventory.

The system will present the items with relevant details.

**2. Show All Products:** View a comprehensive list of all products.

- Select this option to display a list of all products available.

The system will show detailed information for each product.

**3. Show Specific Items:** Filter and display items by categories.

- How to Show Specific Items:

1. Select this option to enter the sub-menu.
2. You will be prompted to choose a filter: Category, Status, or Place.
3. Enter the desired filter criteria, and the system will display the matching items.

**4. Details About a Specific Item:** Get detailed information about a specific item.

- How to Show Details About a Specific Item:

1. Select this option and enter the item code when prompted.
2. The system will display detailed information about the specified item.

**5. Apply Discount to Product:** Apply discounts to a product within a specified date range.

- How to Apply Discount to Product:

1. Select this option to enter the discount sub-menu.
2. Enter the product name, discount rate, start date, and end date.
3. The system will apply the discount to all items of the specified product.

**6. Generate Report:** Access a sub-menu to generate various reports:

- Generate Report Sub-Menu:

1. Generate Report for Categories: Create a report based on item categories.
2. Generate Report for Defective Products: Create a report for defective products.
3. Generate Report for Expired Products: Create a report for expired products.
4. Generate Report for Products Below Minimum Quantity: Create a report for products that are below the minimum quantity threshold.

**7. Set Minimum Quantity for Product:** Define minimum quantities for products to trigger alerts and make more accurate reports in the future.

- How to Set Minimum Quantity:

1. Select this option and enter the product name.
2. Enter the desired minimum quantity for the product.
3. The system will update the product's minimum quantity and set an alert.

**8. View Total Amount in Storage:** View total, in-store, and warehouse quantities of products.

- How to View Total Amount in Storage:

1. Select this option to display the total quantities.
2. The system will show the total product quantity, quantity in store, and quantity in the warehouse.

**9. Exit:** Return to the Main Menu.

## User Menu

The User Menu is designed for regular users to perform daily operation as watching products:

### 1. Show All Items: View a comprehensive list of all items.

- Select this option to display a list of all items currently in the inventory. The system will present the items with relevant details.

### 2. Details About a Specific Product: Get detailed information about a specific item.

- How to Show Details About a Specific Item:
  1. Select this option and enter the item code when prompted.
  2. The system will display detailed information about the specified item.

### 3. Exit: Return to the Main Menu.

## DataBase-

### discounts-

	discountRate ▾	startDate ▾	endDate ▾	productCode ▾
1	0.1	2024-07-01	2024-07-31	A001
2	0.15	2024-07-05	2024-08-05	B002
3	0.2	2024-07-10	2024-08-10	M003
4	0.25	2024-07-15	2024-08-15	C004
5	0.3	2024-07-20	2024-08-20	Y005
6	0.05	2024-07-25	2024-08-25	B006

### products-

productCode ▾	productName ▾	category ▾	subCategory ▾	size ▾	manufacturer ▾	costPrice ▾	sellingPr
A001	Apple	Fruits	Fresh	2	Apple Inc.		1
B002	Banana	Fruits	Fresh	3	Fruit Co.		1
M003	Milk	Dairy	Milk	4	Dairy Farms		1
C004	Cheese	Dairy	Cheese	5	Dairy Farms		1
Y005	Yogurt	Dairy	Yogurt	3	Dairy Farms		1
B006	Bread	Bakery	Bread	2	Bakery Co.		1

sellingPrice ▾	status ▾	quantityInStore ▾	quantityInWarehouse ▾	minimumQuantityForAlert ▾
1	InStorage	100	50	10
1	InStorage	200	100	15
1	InStorage	150	75	20
1	InStorage	120	60	10
1	InStorage	180	90	15
1	InStorage	300	150	25

### items-

1	A001-0	A001	Store	2024-06-25	Expired
2	A001-1	A001	Store	2024-06-25	Expired
3	A001-2	A001	Store	2024-06-25	Expired
4	A001-3	A001	Store	2024-06-25	Expired
5	A001-4	A001	Store	2024-06-25	Expired
6	A001-5	A001	Store	2024-06-25	Expired
7	A001-6	A001	Store	2024-06-25	Expired
8	A001-7	A001	Store	2024-06-25	Expired
9	A001-8	A001	Store	2024-06-25	Expired
10	A001-9	A001	Store	2024-06-25	Expired
11	B002-0	B002	Warehouse	2024-07-05	Available
12	B002-1	B002	Warehouse	2024-07-05	Available
13	B002-2	B002	Warehouse	2024-07-05	Available
14	B002-3	B002	Warehouse	2024-07-05	Available
15	B002-4	B002	Warehouse	2024-07-05	Available
16	B002-5	B002	Warehouse	2024-07-05	Available
17	B002-6	B002	Warehouse	2024-07-05	Available
18	B002-7	B002	Warehouse	2024-07-05	Available
19	B002-8	B002	Warehouse	2024-07-05	Available
20	B002-9	B002	Warehouse	2024-07-05	Available
21	B002-10	B002	Warehouse	2024-07-05	Available
22	B002-11	B002	Warehouse	2024-07-05	Available
23	B002-12	B002	Warehouse	2024-07-05	Available
24	B002-13	B002	Warehouse	2024-07-05	Available
25	B002-14	B002	Warehouse	2024-07-05	Available
26	B002-15	B002	Warehouse	2024-07-05	Available
27	B002-16	B002	Warehouse	2024-07-05	Available
28	B002-17	B002	Warehouse	2024-07-05	Available
29	B002-18	B002	Warehouse	2024-07-05	Available
30	B002-19	B002	Warehouse	2024-07-05	Available
31	M003-0	M003	Store	2024-06-30	Expired
32	M003-1	M003	Store	2024-06-30	Expired
33	M003-2	M003	Store	2024-06-30	Expired
34	M003-3	M003	Store	2024-06-30	Expired
35	M003-4	M003	Store	2024-06-30	Expired
36	M003-5	M003	Store	2024-06-30	Expired
37	M003-6	M003	Store	2024-06-30	Expired

## **That's All for Now!**

Thank you for using the Lee Supermarket storage management application.

We hope this guide has helped you understand how to navigate and utilize the application's features.

