

# Inventory Management System - User Instructions

Welcome to the Inventory Management System! This guide will help you run the program, navigate through the main menu, and understand the functionalities provided by each menu option.

## Requirements

- Ensure you have Java installed on your computer. You can download it from [here](#).
- Ensure the JAR file of the program is saved on your computer. The path where it is stored will be used to run the program.

## Running the Program

1. **Open Command Prompt:**
  - Press **Win + R**, type **cmd**, and press **Enter**.
2. **Navigate to the Directory:**
  - Use the **cd** command to navigate to the directory where the JAR file is located. For example, if your JAR file is located at **C:\githubclones\ADSS\_Group\_D\release**, type: **cd C:\githubclones\ADSS\_Group\_D\release**

3. **Run the Program:**

Once in the correct directory, run the following command:

```
java -jar adss2024_v01.jar
```

## Main Menu Navigation

After running the program, you will be presented with a main menu. The menu options are as follows:

### Main Menu Options

1. **Add/remove products/item/categories:**
  - This option allows you to add or remove categories, products, and items from the inventory.
2. **Update products/item/categories:**

- This option allows you to update any product discounts and update if a specific item is defective.
- 3. **Generate reports:**
  - This option allows you to generate various reports, such as stock reports, expired items reports, and defective items reports.
- 4. **Generate low stock report:**
  - This option is to generate reports that indicate alarming conditions such as low stock or expired items.
- 5. **Exit:**
  - This option exits the program.

## **Drill Down on menus:**

### **1. Add/remove products/item/categories**

- **Add Category:**
  - Enter the category name and ID to add a new category.
- **Add Product:**
  - Enter product details including makat, name, supplier, cost price, selling price, category ID, sub-category ID, and minimum amount to add a new product.
- **Add Item:**
  - Enter item details including name, unique ID, whether it is defective, whether it is in the warehouse, expiry date, category ID, product ID, and amount to add a new item.
- **Remove Category:**
  - Enter the category ID to remove a category.
- **Remove Product:**
  - Enter the product makat to remove a product.
- **Remove Item:**
  - Enter the item ID to remove an item.
- **Remove all expired Items:**
  - This option removes all expired items from the inventory.
- **Remove all defective Items:**
  - This option removes all defective items from the inventory.

### **2. Display products/item/categories**

- **Display Categories:**
  - Displays all categories with their IDs and names.
- **Display Products:**
  - Displays all products with their makats and names.
- **Display Items:**
  - Displays all items in the warehouse and store with their IDs and names.

### **3. Generate reports**

- **Get Stock Report:**
  - Generates and saves a CSV report of the current stock levels.
- **Get Expire Report:**

- Generates and saves a CSV report of expired items.
- **Generate Defective Items Report:**
  - Generates and saves a CSV report of defective items.

#### 4. Generate low stock report

- Generates and saves a CSV report of products that are low in supply.

## Saving Reports

Reports generated by the system are saved in the `resources` directory under `C:\githubclones\ADSS_Group_D\dev\src\main\java\resources`.

Make sure the directory structure exists, and if not, the program will create it for you.

## Example Commands

### Adding a New Category:

Enter category name: Dairy Products

Enter category ID: DP001

### Adding a New Product:

Enter product makat: Milk001

Enter product name: Fresh Milk

Enter supplier name: Tnuva

Enter product cost price: 3.00

Enter product selling price: 4.50

Enter product category ID: DP001

Enter product sub category ID (if applicable): Milk

Enter product minimum amount: 10

### Generating a Stock Report:

What would you like to do:

1. Get Stock report

## Default Data

If chosen, the system initializes with the following default data:

### Categories

1. **Dairy Products (ID: DP493)**
2. **Bakery Products (ID: BK123)**

## Products

1. **Milk (ID: Milk176)**
  - **Supplier:** Tnuva
  - **Cost Price:** 3.33
  - **Selling Price:** 4.5
  - **Minimum Amount:** 3
2. **Cheese (ID: Cheese789)**
  - **Supplier:** Tnuva
  - **Cost Price:** 10.0
  - **Selling Price:** 12.5
  - **Minimum Amount:** 2
3. **Bread (ID: Bread001)**
  - **Supplier:** Baker
  - **Cost Price:** 1.0
  - **Selling Price:** 2.0
  - **Minimum Amount:** 5
4. **Croissant (ID: Croissant002)**
  - **Supplier:** Baker
  - **Cost Price:** 2.0
  - **Selling Price:** 3.0
  - **Minimum Amount:** 4

## Items

- **Milk**
  1. **ID:** Milk3Tnuva1, **Name:** Milk 3% Tnuva, **Expire Date:** 3 months from now
  2. **ID:** Milk3Tnuva2, **Name:** Milk 3% Tnuva, **Expire Date:** 3 months from now
  3. **ID:** Milk3Tnuva3, **Name:** Milk 3% Tnuva, **Expire Date:** 3 months from now
- **Cheese**
  1. **ID:** Cheese7891, **Name:** Cheese 1, **Expire Date:** 3 months from now
  2. **ID:** Cheese7892, **Name:** Cheese 2, **Expire Date:** 3 months from now
  3. **ID:** Cheese7893, **Name:** Cheese 3, **Expire Date:** 3 months from now
- **Bread**
  1. **ID:** Bread0011, **Name:** Bread 1, **Expire Date:** 2024-01-01
  2. **ID:** Bread0012, **Name:** Bread 2, **Expire Date:** 1 month from now
  3. **ID:** Bread0013, **Name:** Bread 3, **Expire Date:** 1 month from now
- **Croissant**
  1. **ID:** Croissant0021, **Name:** Croissant 1, **Expire Date:** 1 month from now
  2. **ID:** Croissant0022, **Name:** Croissant 2, **Expire Date:** 1 month from now
  3. **ID:** Croissant0023, **Name:** Croissant 3, **Expire Date:** 1 month from now

Follow these instructions to successfully use the Inventory Management System. If you encounter any issues, please refer to River, Timor or May-tal for additional information.

