

Store Inventory Management System

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OVERVIEW OF PROJECT:

A shop inventory management system is a software solution designed to help retail businesses efficiently track, manage, and control their stock levels across the entire lifecycle of products from ordering and receiving to selling and restocking. It typically supports a centralized database where product information including ID, category, price, quantity, and supplier details is stored, making it quick to retrieve and update stock status.

Your shop inventory management project focuses on providing a streamlined solution for adding, updating, deleting, and searching products, maintaining precise stock records, and facilitating basic inventory operations through a simple interface suitable for beginners and small businesses.

FEATURES:

- Add new products with name, ID, category, price, and quantity
- Display current inventory with detailed product information
- Update product details (quantity, price)
- Delete products from inventory
- Search for products by name or ID
- Simple, menu-based interface for easy navigation

The screenshot shows a web application window titled "Shop Inventory Management System | Created by Aklesh Swain". The interface is divided into two main sections. The top section, labeled "Item Details", contains four input fields: "ID", "Name", "Quantity", and "Price". The "Name" and "Price" fields are highlighted in yellow. Below these fields is a row of five buttons: "Add" (green), "Update" (light blue), "Delete" (red), "Clear" (light blue), and "Refresh" (light blue). The bottom section is a table with four columns: "ID", "Name", "Quantity", and "Price". The table is currently empty, showing only the headers. The table has a vertical scrollbar on the right side.

ID	Name	Quantity	Price
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TECHNOLOGIES/TOOLS USED:

- Programming Language: Python (recommended for beginners)
- Data Storage: simple database (SQLite)
- Interface: Command line (Terminal-based)
- GUI: Tkinter

```
import sqlite3
import tkinter as tk
from tkinter import ttk, messagebox
```

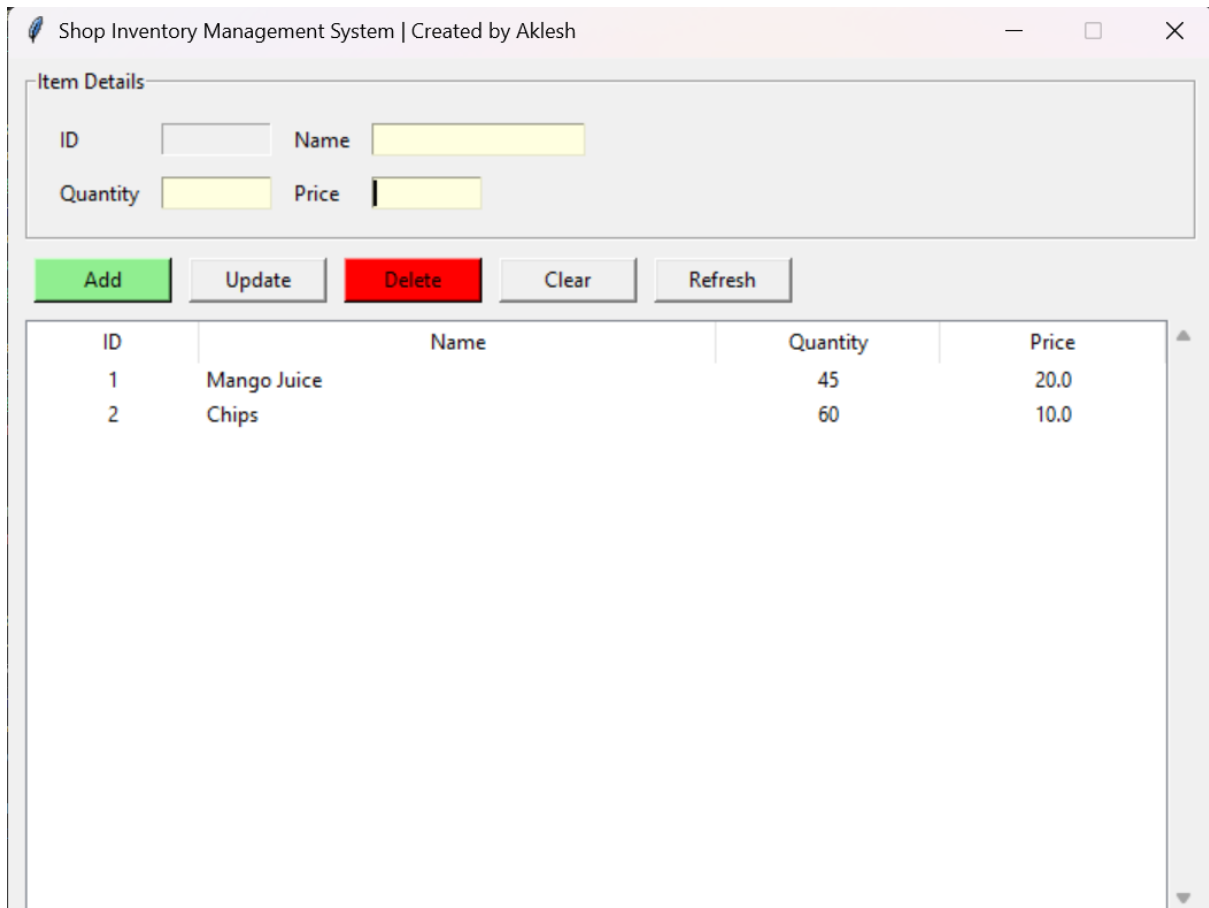
STEPS TO INSTALL AND RUN:

1. Download or clone the code repository to your local machine.
2. Ensure Python is installed—version 3.7 or higher is recommended.
3. Open the project folder and locate the main Python file (Mini project.py).
4. Open a terminal/command prompt in the project directory.
5. Run the program using:

```
pythonMini_project.py
```

INSTRUCTION FOR TESTING:

- Add sample products using the “Add” function.
- List products to verify they appear in the inventory.
- Update and delete product entries, confirming changes are reflected.
- Perform searches to check retrieval accuracy.
- Review the data file to ensure information is saved correctly after each operation.



The screenshot shows a web application window titled "Shop Inventory Management System | Created by Aklesh". The window contains a form for adding or updating items and a table displaying the current inventory.

Item Details Form:

- ID:
- Name:
- Quantity:
- Price:

Buttons: Add (green), Update (grey), Delete (red), Clear (grey), Refresh (grey).

Inventory Table:

ID	Name	Quantity	Price
1	Mango Juice	45	20.0
2	Chips	60	10.0

Like this we can add, delete, clear and update the items.

THANK YOU