INVENTORY MANAGEMENT SYSTEM

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Abstract

- This project presents an inventory management system developed using C language.It enables stock handling operations such as adding new items,updating available stock,and generating bills for sold product. Arrays and loops are used for data handling ensures data remains saved permanently.The system reduces manual effort and improves accuracy in small-scale inventory operations

Introduction

Inventory Management is essential for maintaining product records and stock details in business . Manual handling leads to errors, confusion and inefficiency . To overcome this , we developed an inventory management system in C .The program helps in adding items,updating stock and billing.

Application

Reducing storage costs

- Helps avoid unnecessary warehousing and carrying costs

Maintaining optimal stock levels

- Ensures products are neither over-stocked nor under-stocked

Preventing stockouts

- Ensures essential items available whenever needed

Improving order accuracy

- Tracks items properly so customers receive the correct products

Better financial management

- Tracks stock value,helps in budgeting and forecasting

Efficient production planning

- Provides material availability for smooth manufacturing

Existing Methodology

Manual record keeping

Stock details maintained in books or spread sheets

Periodic stock counting

Regular physical counting to match actual stock

Fixed reorder level system

New stock ordered when it reaches minimum level

Manual billing and stock update

Stock adjusted manually after sales/purchases

physical inspection

Items checked for quality and expiry

Drawbacks of Existing Methodology

- • Time-consuming
- • Human errors
- • No real-time tracking
- • No low-stock alerts
- • Missing/duplicate entries
- • Slow decision-making

Proposed Methodology

- The proposed system automates inventory handling using C language
- **Process**:
- Add items with name,price &quantity
- Update stock when new quantity is added
- Bill generation for sold products
- File handling for permanent storage

Advantages of Proposed Methodology

- Accurate stock control

Reduces errors in inventory

- Time saving

Speeds up tracking and billing

- Better planning

Prevents expiry and overstock

- Reduced wastage

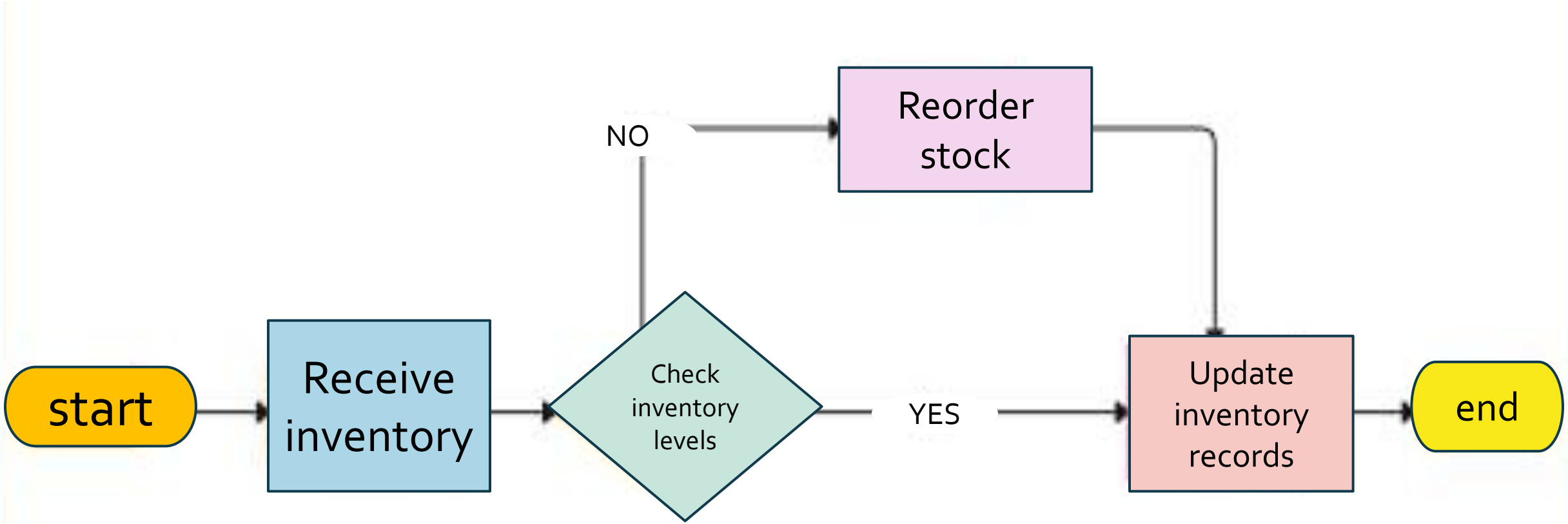
Staff work more efficiently

- Data safely stored in files

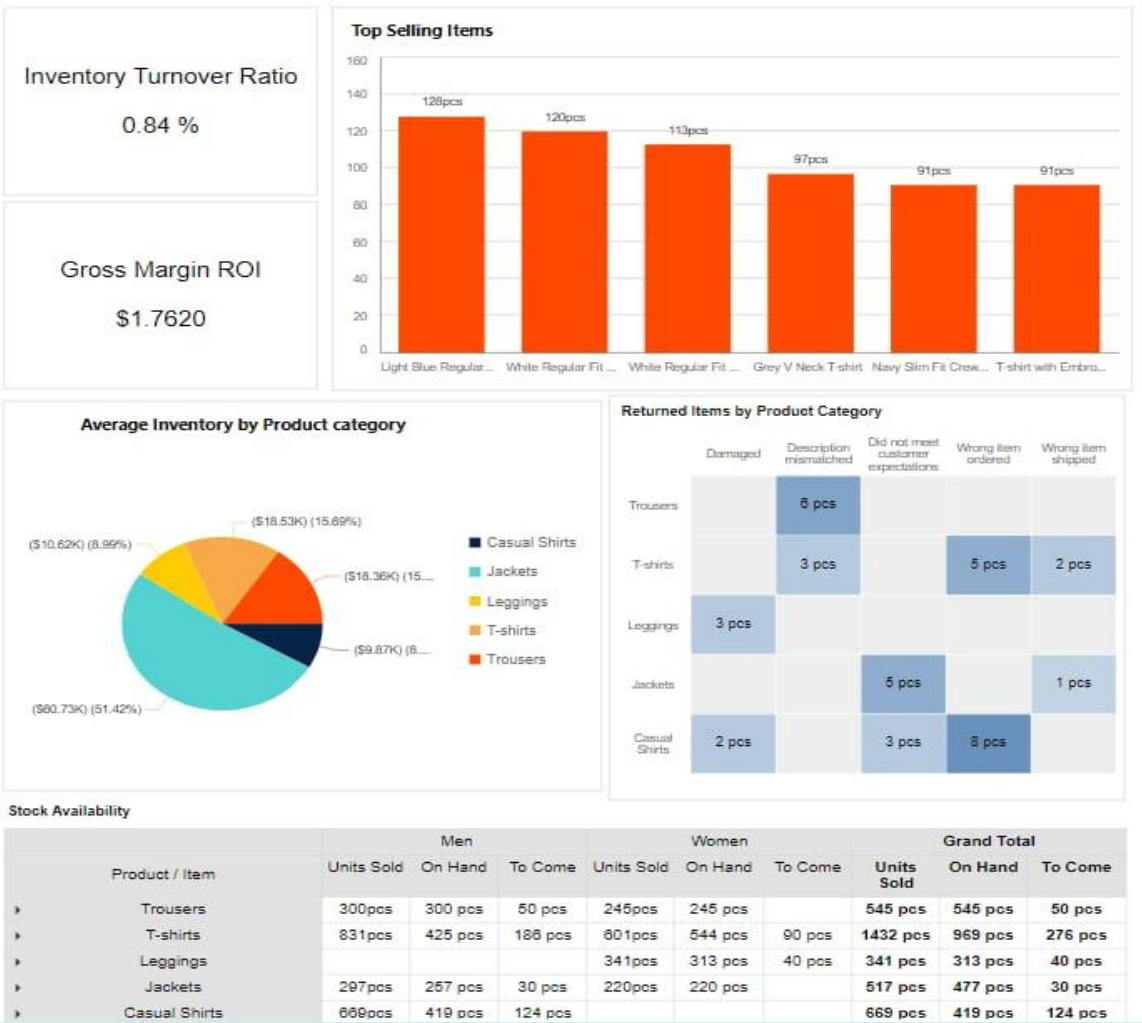
Architecture of Proposed Methodology

The proposed system uses a central inventory management software connected with modules like inventory tracking ,auto replenishment ,product categorization,mobile access and cloud storage.This ensures easy access,real time updates, and smooth management of stock with improved accuracy

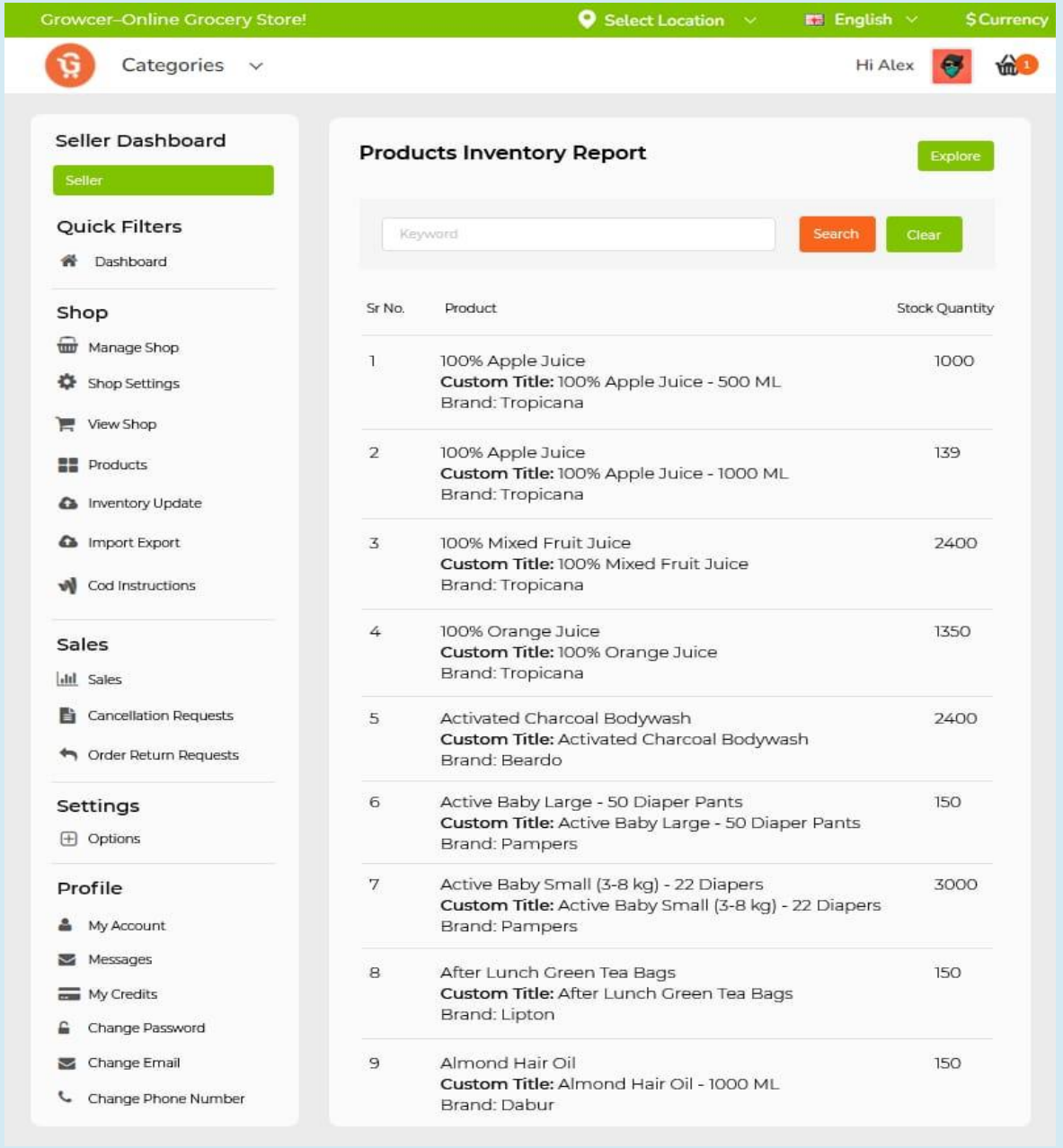
Flow chart of inventory management



Results / Screenshots



Product / Item	Men			Women			Grand Total		
	Units Sold	On Hand	To Come	Units Sold	On Hand	To Come	Units Sold	On Hand	To Come
Trousers	300pcs	300 pcs	50 pcs	245pcs	245 pcs		545 pcs	545 pcs	50 pcs
T-shirts	831pcs	425 pcs	186 pcs	601pcs	544 pcs	90 pcs	1432 pcs	969 pcs	276 pcs
Leggings				341pcs	313 pcs	40 pcs	341 pcs	313 pcs	40 pcs
Jackets	297pcs	257 pcs	30 pcs	220pcs	220 pcs		517 pcs	477 pcs	30 pcs
Casual Shirts	669pcs	419 pcs	124 pcs				669 pcs	419 pcs	124 pcs



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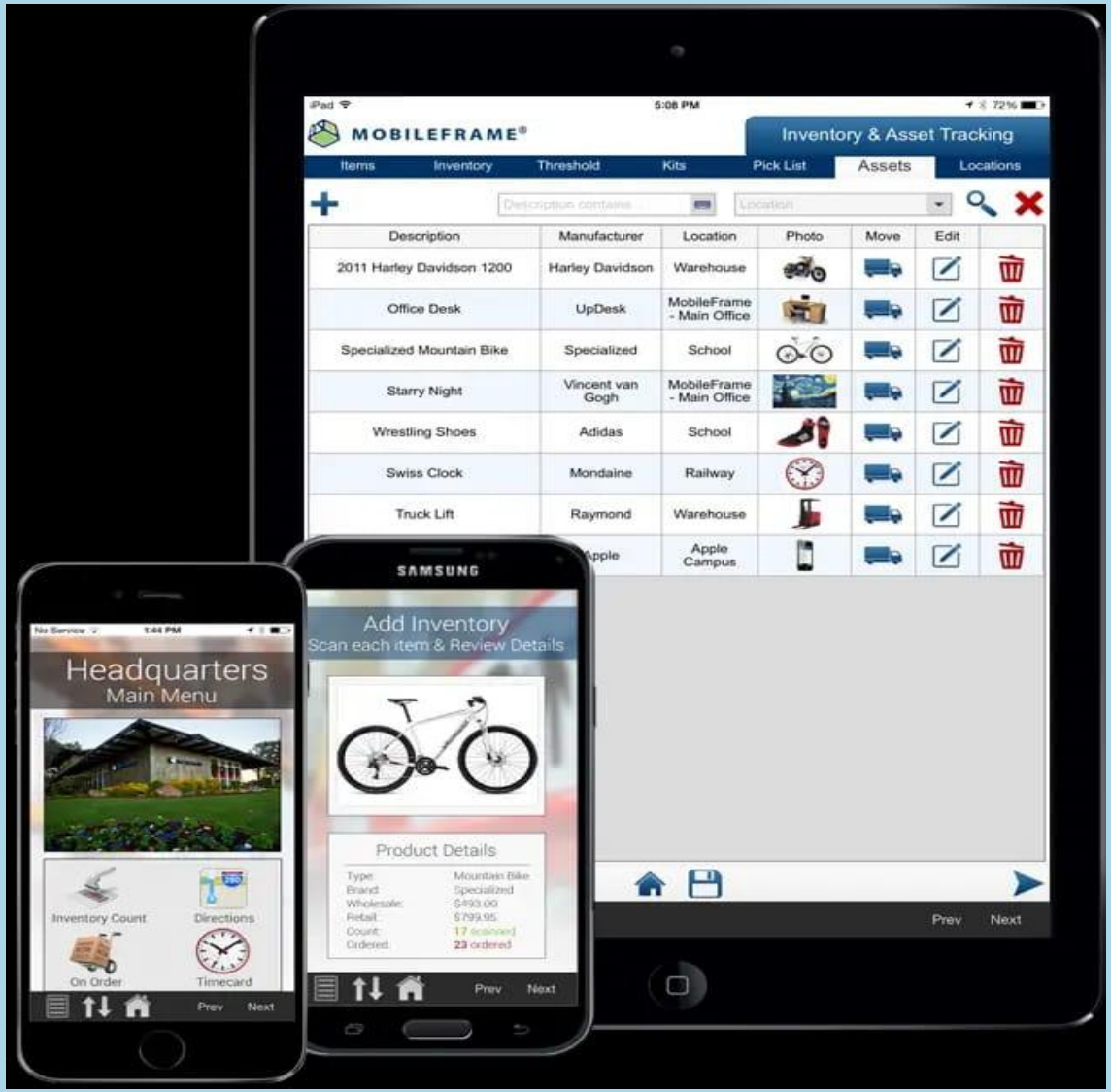


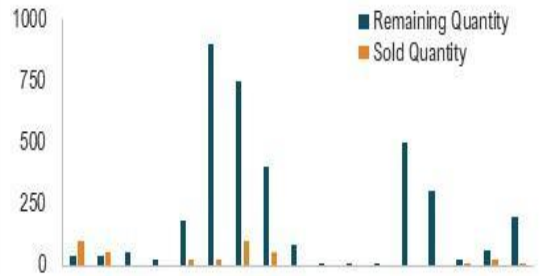
Inventory Management Dashboard

This slide covers the inventory management system wherein vendors, total categories and products, sales are calculated.

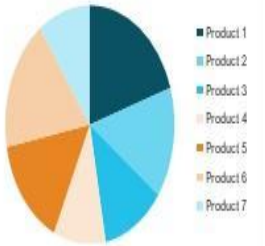
66	47	225	232
Total Vendors	Total Categories	Total Products	Total Sales

WELCOME, Inventory $ My Salary

Sales Report



Product Details

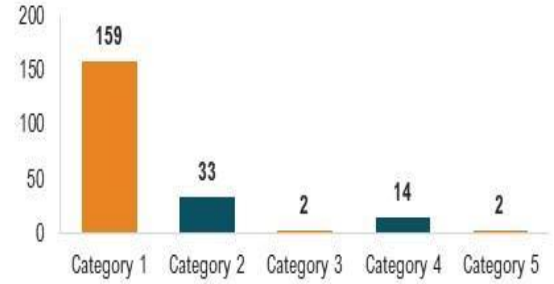


Category Wise Sales (%)

Purchase Details

	Vendor	Category	Product	Quantity	Purchase Rate	Sales Rate
1	Vendor 1	7TH ENG MED	Product 1	3	44	46
2	Vendor 2	1ST ENG MED	Product 2	9	44	46
3	Vendor 3	1ST ENG MED	Product 3	8	44	46
4	Vendor 4	1ST ENG MED	Product 4	1	29	31
5	Vendor 5	2ND ENG MED	Product 5	3	31	33

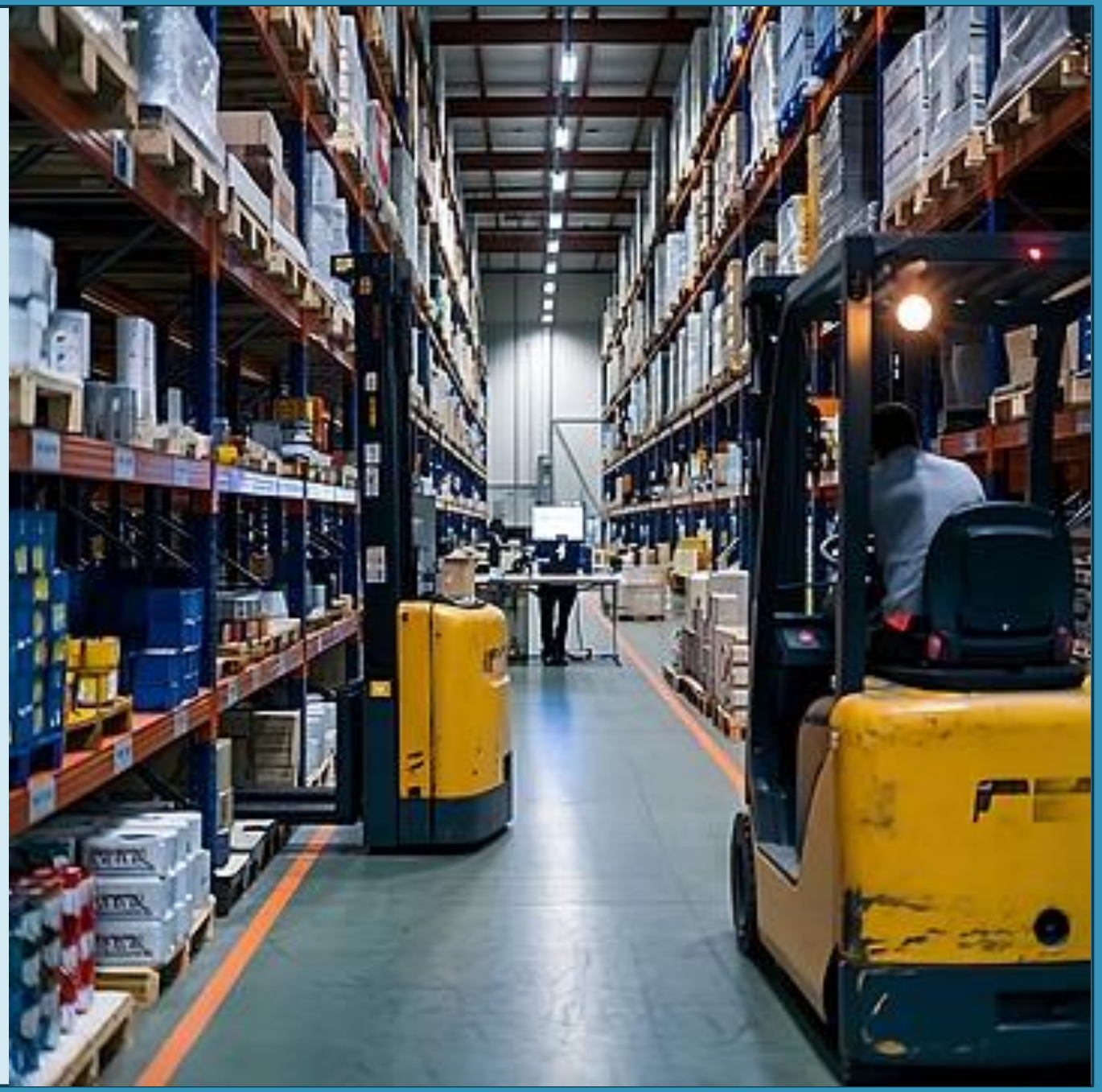
Category Wise Quotation



This graph/chart is linked to excel, and changes automatically based on data. Just left click on it and select "Edit Data".

Conclusion

- The Inventory management system simplifies item handling and billing operations using c language.By arrays, loops and file handling, the system ensures accurate stock management and reduces human errors . It is a simple effective solution for small shops and inventories



Thank you
Any questions