

Store Manager: Keep Track of Inventory

Team Details:

Team ID : NM2025TMID40071

Project Title: Store Manager: Keep Track of Inventory

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Objective:

The objective of this project is to design and develop a comprehensive **Inventory Management System** that enables efficient tracking, updating, and management of stock in a store. The system aims to simplify day-to-day inventory operations by providing real-time stock updates, automated alerts for low stock, and streamlined sales management through cart and checkout features.

The system will allow users to:

- Maintain accurate inventory records with seamless updates on sales and new stock additions.
- Facilitate quick and efficient sales through a cart and checkout mechanism while ensuring inventory consistency.
- Add and manage new products with essential details like name, image, price, stock, and tags.
- Provide alerts for depleting stock levels to support timely replenishment.
- Enable easy search and retrieval of products from the inventory and product catalog.
- Keep a record of all sales with details such as sale value, products sold, and date/time for accountability and reporting.

This project ultimately seeks to enhance **efficiency, accuracy, and visibility** in inventory and sales management, reducing manual effort and minimizing the risk of stockouts or overstocking.

Platform & Technology Used :

The project is developed as a web-based application to ensure accessibility and ease of use across devices with a modern browser. The following technologies and platforms are used:

- **React:** A powerful JavaScript library for building interactive and component-based user interfaces. It provides efficient rendering and state management for the inventory system.
- **HTML5:** Used for structuring the web pages and defining the content of the application.
- **CSS3:** Utilized for styling and designing a responsive, user-friendly, and visually appealing interface.
- **JavaScript (ES6+):** The core programming language used for implementing business logic, interactivity, and communication between components.
- **Git:** A version control system used for managing code, tracking changes, and maintaining project versions effectively.

Implementation / Process:

The implementation of the Inventory Management System follows a structured process to ensure smooth handling of products, sales, and stock updates. The workflow can be summarized as follows:

1. Adding Products to Inventory

- ❖ New products can be added by entering details such as product name, image URL, price, stock quantity, and tags.
- ❖ Products are then displayed in the product catalog and inventory list.

2. Stock Management

- ❖ The system maintains real-time stock levels.
- ❖ When new stock is added, quantities are updated in the inventory.
- ❖ On the sale of products, stock is automatically deducted.

3. Cart Management

- ❖ Users can add products to the cart along with their desired quantity.
- ❖ The cart allows multiple products to be selected for a single sale.

4. Checkout Process

- ❖ On checkout, the system clears the cart, updates the inventory, and creates a new sale record.
- ❖ Each sale record contains the product details, total sale value, and the date/time of purchase.

5. Stock Alerts

- ❖ Products with stock levels falling below a defined threshold are highlighted with a red background.
- ❖ Alerts help users take timely action to restock and avoid stockouts.

6. Search Functionality

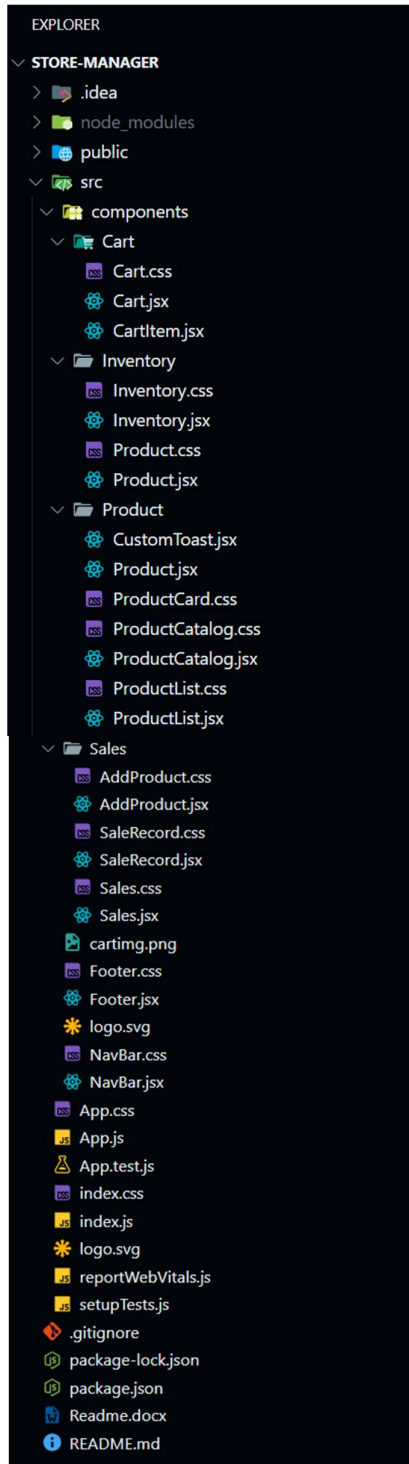
- ❖ Users can search for products in both the catalog and inventory by name or tags.
- ❖ This improves efficiency in locating and managing products.

7. Sale Records

- ❖ The system maintains a history of all sales.
- ❖ Records can be reviewed to analyze sales trends and inventory turnover.

Output / Result:

Project structure:



Inventory:

inv
track.

InventoryCatalogSalesAdd Product


0

Search products

Name or tag...

Low-stock alert <

3




Tissue box
Tissue, accessory

₹500

Stock: 10

Update Remove




Milk Biscuit
food, biscuit, snack

₹10

Stock: 30

Update Remove




Notebook A4
stationery

₹149

Stock: 25

Update Remove




Bluetooth Speaker
electronics, audio, music

₹1299

Stock: 15

Update Remove




Instant Coffee
beverage, coffee, food

₹299

Stock: 40

Update Remove




Ballpoint Pen Set
stationery, writing


₹99

Stock: 50


Update Remove




LED Desk Lamp
electronics, lighting, home




Pack of Green Tea
beverage, tea, food




Portable Water Bottle
accessory, travel, home



Yoga Mat
fitness, exercise, health



Ceramic Mug
home, kitchen, drinkware



Desk Organizer
home, office, stationery

Product Catalog:


inv
track.

InventoryCatalogSalesAdd Product

0

Product Catalog

Search by name or tag...




Tissue box

₹500

Stock: 10

Tissue, accessory

Add to Cart




Milk Biscuit

₹10

Stock: 30

food, biscuit, snack

Add to Cart




Notebook A4

₹149

Stock: 25

stationery

Add to Cart




Bluetooth Speaker

₹1299

Stock: 15

electronics, audio, music

Add to Cart




Instant Coffee

₹299

Stock: 40

beverage, coffee, food

Add to Cart




Ballpoint Pen Set


₹99


Stock: 50


stationery, writing


Add to Cart














Sales Record:

inv track.

InventoryCatalogSalesAdd Product

0

Sales

Date/Time	Products	Total
9/3/2025, 9:42:34 PM	Ceramic Mug (x1), Bluetooth Speaker (x1), Notebook A4 (x1), Tissue box (x1), Milk Biscuit (x1)	₹2307

Inv Track

Quality products, curated for you. Shop smart, live better.

Quick Links

InventoryCatalogCartSales

Contact

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Phone: +91 7305962714

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Add Products:

inv track.

InventoryCatalogSalesAdd Product

0

Add Product

Name

Image URL

Price (₹)

Stock

Tags (comma separated)

Add

Reset

Inv Track

Quality products, curated for you. Shop smart, live better.

Quick Links

InventoryCatalogCart


Contact

Email: gskarthikkrishnan@gmail.com
Phone: +91 7305962714





Cart:

inv
track.

InventoryCatalogSalesAdd Product

5

Cart (5 items)

Image	Product	Price	Qty	Subtotal	
	Portable Water Bottle	₹250	- 1 +	₹250	<div>Remove</div>
	Ceramic Mug	₹349	- 1 +	₹349	<div>Remove</div>
	Milk Biscuit	₹10	- 2 +	₹20	<div>Remove</div>
	Tissue box	₹500	- 1 +	₹500	<div>Remove</div>

Clear Cart

Total: ₹1119

Checkout

The system meets its objective by ensuring efficient inventory tracking, real-time updates, and accurate sales records, reducing manual errors and improving store management.