

Store Manager: Keep Track of Inventory

Team Details:

Team ID : NM2025TMID40105

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.

HTML: Used for structuring the web pages and defining the content of the application.

CSS: Utilized for styling and designing a responsive, user-friendly, and visually appealing interface.

Java Script : 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.

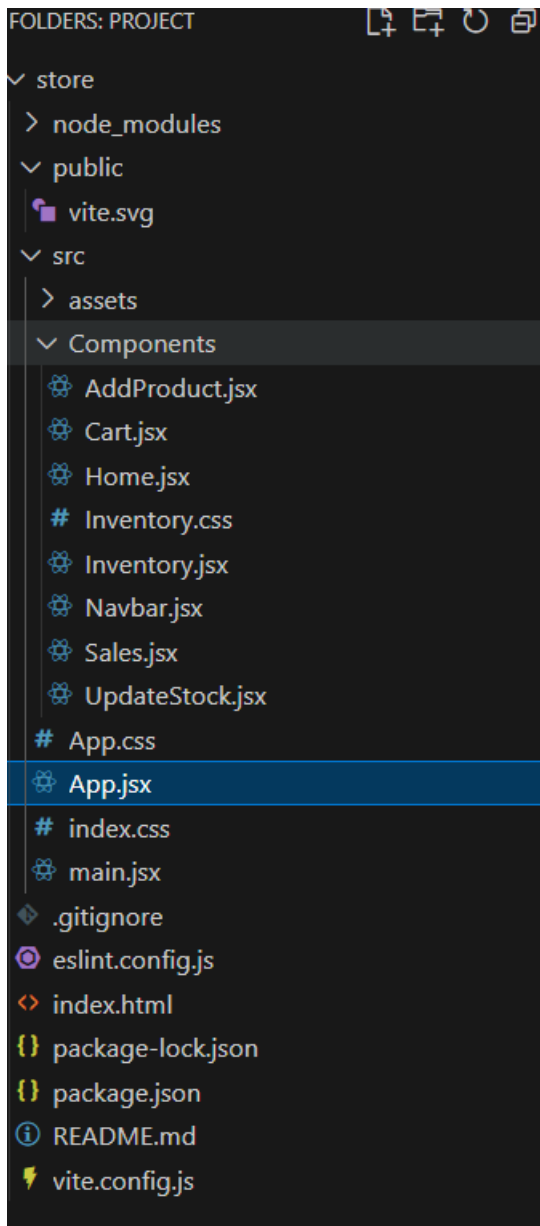
7. Sale Records

The system maintains a history of all sales.

Records can be reviewed to analyze sales trends and inventory turnover.

Output / Result:

Project structure:



Inventory :

Inventory



Pencil box
Category: stationary
Qty: 59
₹ 50

Add

Del



Sunscreen
Category: Skin care
Qty: 75
₹ 210

Add

Del



Pringles
Category: Snacks
Qty: 34
₹ 60

Add

Del



Teddy Bear
Category: Doll
Qty: 54
₹ 450

Add

Del



Dates
Category: Fruits and Nuts
Qty: 60
₹ 230

Add

Del



water bottle
Category: utensils
Qty: 17
₹ 60

Add

Del



Purse
Category: stationary
Qty: 15
₹ 105

Add

Del



Instant Noodles
Category: Food
Qty: 20
₹ 35

Add

Del



Classmate
Category: Notes
Qty: 25
₹ 85

Add

Del



India Gate
Category: Basmathi Rice
Qty: 59
₹ 350

Add

Del



Aasirvad
Category: Wheat
Qty: 45
₹ 145

Add

Del



Moong daal
Category: Snaks
Qty: 30
₹ 10

Add

Del



Anil
Category: Ragi Semmiya
Qty: 27
₹ 25

Add

Del



Popy
Category: Umbrella
Qty: 15
₹ 502

Add

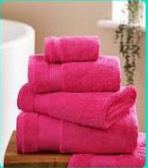
Del



Aachi
Category: Chilli powder
Qty: 57
₹ 18

Add

Del

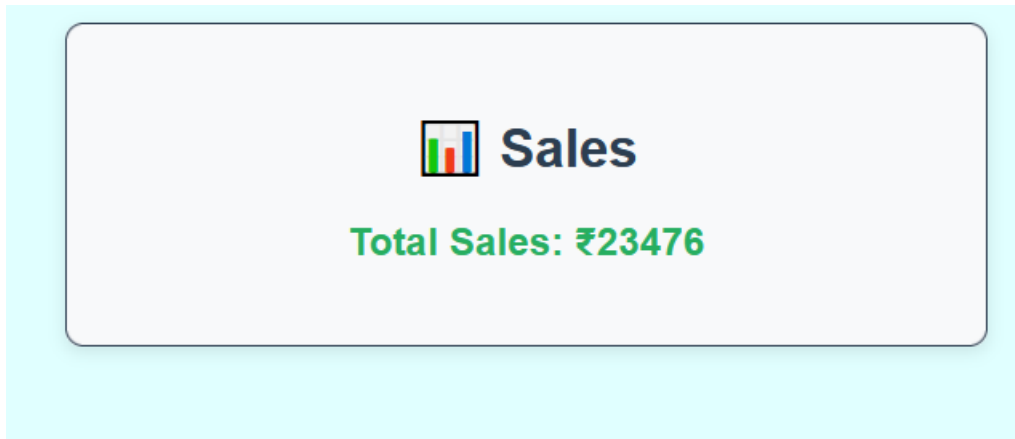


Towel
Category: Clothes
Qty: 14
₹ 139

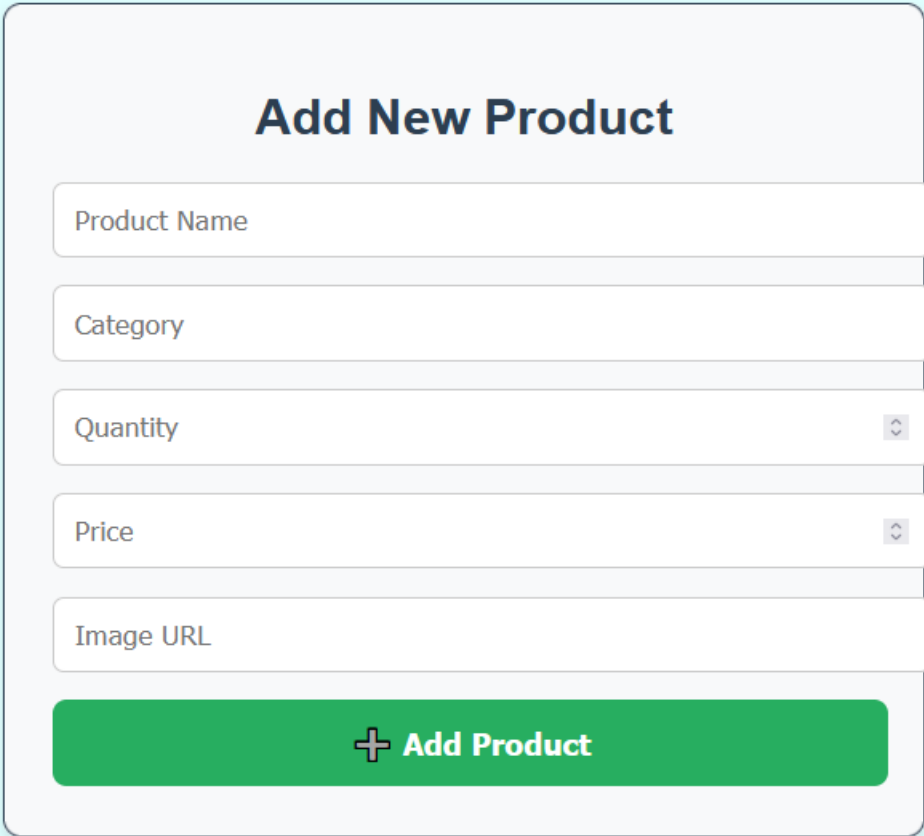
Add

Del

Sales Record:



Add Products:




A light gray rounded rectangular card with a thin dark border and a subtle drop shadow, centered on a light blue background. The card has a title "Add New Product" in bold dark blue font. Below the title are five input fields: "Product Name", "Category", "Quantity" (with a spinner icon), "Price" (with a spinner icon), and "Image URL". At the bottom is a green button with a white plus icon and the text "Add Product".

Add New Product

Product Name

Category

Quantity 



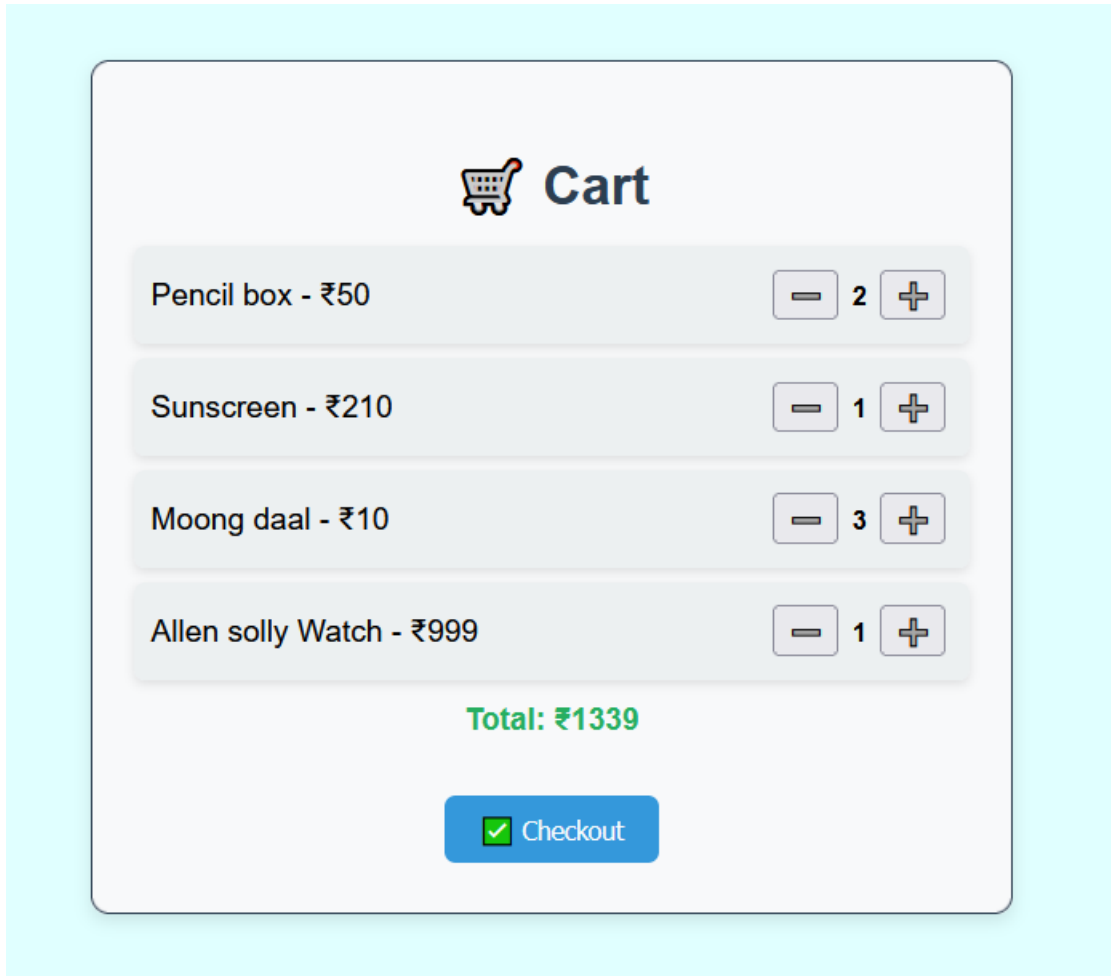
Price 

Image URL

 **Add Product**

Cart:



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

