NAAN MUDHALVAN PROJECT

Store Manager-Keep Track Of Inventory

1. Introduction

Project Title: Keep Track

Team id:NM2025TMID46197

Team leader Name:T. Jothika

Mail id: jothika20072k@gmail.com

Team Members:

1. M.Jayanthi -   jayanthibsc01@gmail.com - Demo video making

2. R.Juli – **julijuliraja@gmail.com-** Code Developer

3.S.Kaniga – **kaniga152007@gmail.com** - Document

2. Project Overview

- **Purpose**:
  To help store managers efficiently track stock levels, manage product information, monitor sales, and prevent shortages or overstocking.
- **Features**:
  - Add, update, delete products
  - Track stock quantity
  - Low-stock alerts
  - Search/filter products
  - Dashboard with sales & stock overview

3. Architecture

- **Component Structure**:
  - `App.js` → Root component
  - `Header` → Navigation bar
  - `ProductList` → Displays all products
  - `ProductForm` → Add/Edit product
  - `InventoryDashboard` → Shows stock summary & alerts
  - `Footer` → Footer details
- **State Management**:
  - Context API (or Redux if advanced) for product state
  - Local state for forms
- **Routing**:
  - `react-router-dom` for navigation between Dashboard, Products, Add Product, etc.

4. Setup Instructions

- **Prerequisites**:
  - Node.js (LTS version)
  - npm or yarn
- **Installation**:
- `git clone <repo-url>`
- `cd inventory-app`
- `npm install`
- `npm start`

5. Folder Structure

```
inventory-app/
 ├── public/
 ├── src/
 │   ├── components/
 │   │   ├── Header.js
 │   │   ├── Footer.js
 │   ├── pages/
 │   │   ├── ProductList.js
 │   │   ├── ProductForm.js
 │   │   ├── Dashboard.js
 │   ├── context/
 │   │   ├── ProductContext.js
 │   ├── assets/
 │   │   ├── images/
 │   ├── App.js
 │   └── index.js
 └── package.json
```

- **Utilities**:
  - `utils/validation.js` → for input validation
  - `utils/alerts.js` → for low-stock alerts

6. Running the Application

```
cd inventory-app
npm start
```

The app runs at `http://localhost:3000`

7. Component Documentation

- **Key Components**:
  - `ProductList`: Displays all inventory items
  - `ProductForm`: Form to add/edit product
  - `Dashboard`: Stock summary, low stock alerts
- **Reusable Components**:
  - `Button`, `Modal`, `InputField`

8. State Management

- **Global State**:
  - Product list stored in `ProductContext`
- **Local State**:
  - Form fields handled with `useState`

9. User Interface

- Product List page (Table with Name, Quantity, Price)

- Add Product page (Form)
- Dashboard page (Summary + Alerts)

10. Styling

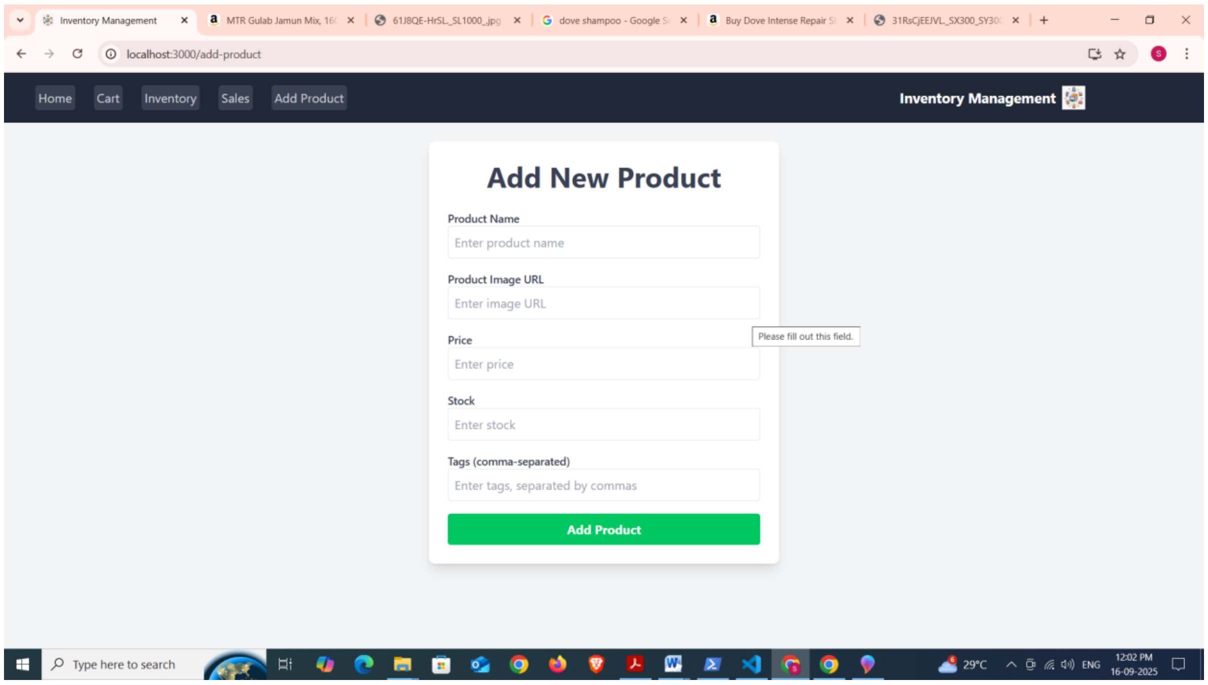
- **CSS Framework**: Tailwind CSS or Bootstrap
- **Theming**: Simple, professional store dashboard look

11. Testing

- **Strategy**:
  - Unit test: Add Product function
  - Integration test: Adding & Displaying in ProductList
- **Tools**: Jest + React Testing Library

12. Screenshots / Demo

(Insert screenshots of UI: Dashboard, Product List, Add Product form)



Add New Product

Product Name: Enter product name

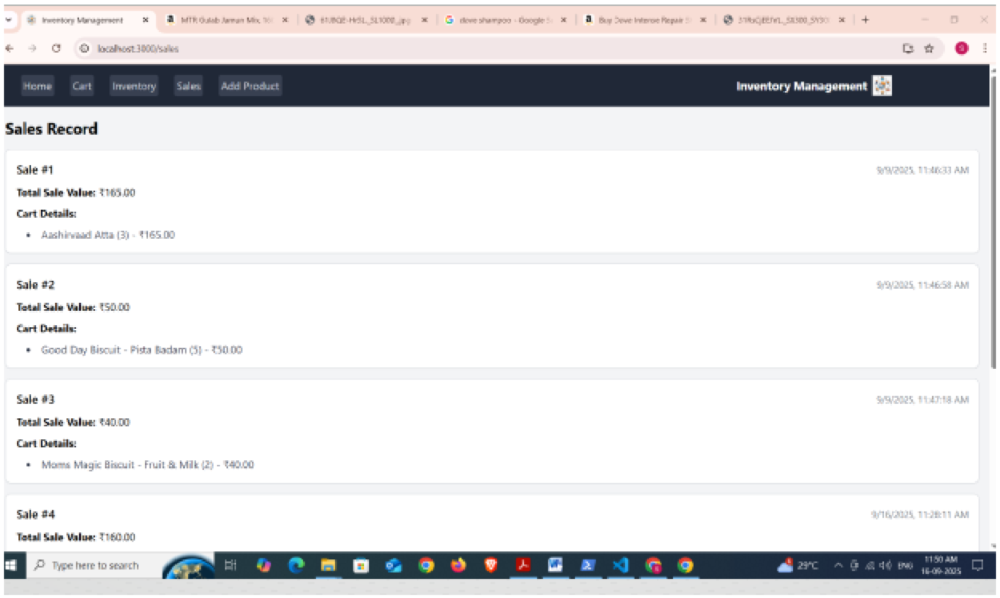
Product Image URL: Enter image URL

Price: Enter price

Please fill out this field.

Stock: Enter stock

Tags (comma-separated): Enter tags, separated by commas



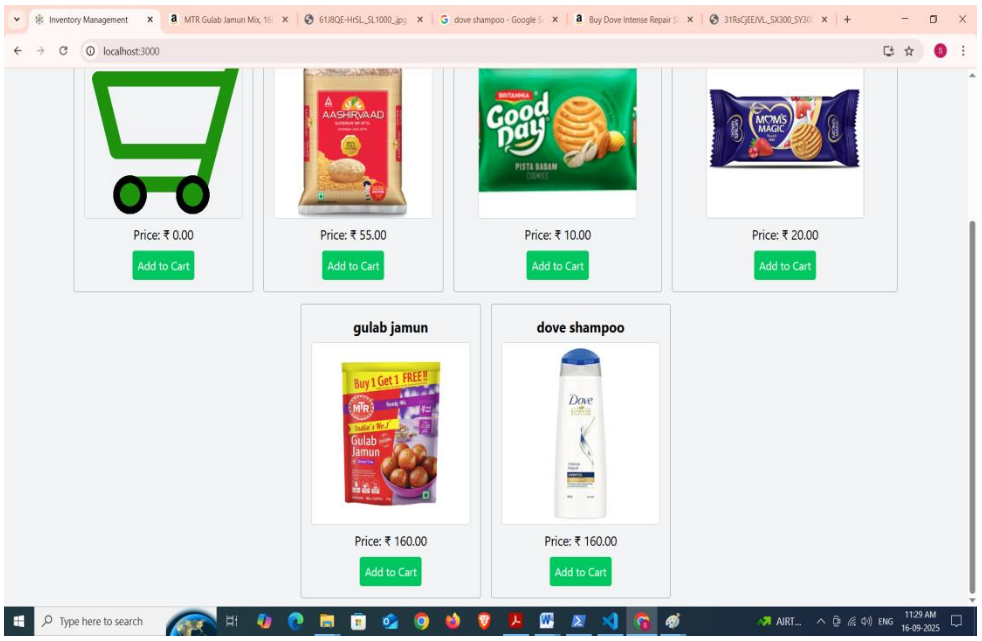
Sales Record

Sale #1 — 9/9/2025, 11:46:33 AM
Total Sale Value: ₹165.00
Cart Details:
- Aashirvaad Atta (3) - ₹165.00

Sale #2 — 9/9/2025, 11:46:58 AM
Total Sale Value: ₹50.00
Cart Details:
- Good Day Biscuit - Pista Badam (5) - ₹50.00

Sale #3 — 9/9/2025, 11:47:18 AM
Total Sale Value: ₹40.00
Cart Details:
- Moms Magic Biscuit - Fruit & Milk (2) - ₹40.00

Sale #4 — 9/16/2025, 11:28:11 AM
Total Sale Value: ₹160.00



13. Known Issues

- Product data resets on page refresh (if no backend used)
- Limited reporting features

14. Future Enhancements

- Add authentication (login for store manager)
- Connect with backend + database (MongoDB / Firebase)
- Export stock reports to Excel/PDF
- Barcode scanning integration

2. Future Enhancements

Add shopping list generation from recipe ingredients
Introduce push notifications for new recipes
Offline mode for saved recipes