

Store Manager – Frontend Documentation

Introduction

Project Title: Store Manager

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Project Overview

Purpose: The Store Manager project is designed to provide an efficient interface for managing products, inventory, and sales.

The goal is to deliver a user-friendly and responsive frontend that enables store admins to easily handle day-to-day operations.

Features:

- 1 Dashboard for quick insights into sales and inventory
- 2 Product management (add, update, delete, search products)
- 3 Inventory tracking with stock alerts
- 4 User authentication (login/logout)
- 5 Responsive design for desktop and mobile

Architecture

Component Structure: App, Navbar, Dashboard, ProductList, ProductForm, Inventory, Auth Components

State Management: Context API (or Redux) for global state, React hooks for local state

Routing: React Router with paths for Dashboard, Products, Inventory, and Authentication

Setup Instructions

Prerequisites: Node.js, npm/yarn

Installation:

Clone repository → Navigate to directory → Install dependencies → Configure .env file

Folder Structure

src/ contains assets, components, pages, context, hooks, utils, App.jsx, index.js

Running the Application

Use `npm start` to run the frontend locally at <http://localhost:3000>

Component Documentation

Key Components: Dashboard, ProductList, ProductForm, Inventory, Auth Components

Reusable Components: Button, Modal, FormInput

State Management

Global state with Context API or Redux. Local state with React hooks.

Styling

Tailwind CSS (or chosen CSS framework). Custom CSS modules for specific components.

Testing

Unit testing with Jest/RTL. Integration testing for component interactions. E2E testing with Cypress (optional).

Known Issues

- 1 UI may need optimization for mobile
- 2 Product search filter requires refinement
- 3 API error handling not fully implemented

Future Enhancements

- 1 Add role-based access control
- 2 Implement analytics with charts
- 3 Improve UI with animations
- 4 Export product/inventory data as Excel/PDF