PROJECT DOCUMENTATION

**STORE MANAGER : KEEP TRACK OF INVENTORY**

## 1. INTRODUCTION

**Project Title** : Store Manager – Keep Track of Inventory

**Team ID** : NM2025TMID29939

**TEAM** **LEADER** : SaumyaR C **(Mail ID**: [202400142@sigc.edu]**)**

**TEAM MEMBERS** :

- Ponmani B **(Mail ID**: [202400592@sigc.edu]**)**

- Shabrin Maxmeela G **(Mail ID**: [202400681sigc.edu]**)**

- Nathiya P **(Mail ID**: [202400370@sigc.edu]**)**

## 2. PROJECT OVERVIEW

**PURPOSE:**The Store Manager project is designed to help businesses keep track of their inventory efficiently. It allows managers to monitor stock levels, manage products, and generate detailed reports, thus reducing human errors and saving time.

FEATURES:

* 📦 Product management – Add, update, and delete items
* 📊 Real-time stock monitoring
* 🔔 Low stock alerts
* 📝 Generate sales and inventory reports
* 👩‍💼 Admin control panel for managing products and users

## 3. ARCHITECTURE

FRONTEND: React.js with Bootstrap and Material UI

BACKEND: Node.js and Express.js for server logic and APIs

DATABASE: MongoDB for storing products, users, and transactions

## 4. SETUP INFORMATION

## Prerequisites: - Node.js - MongoDB - Git - React.js - Express.js - Mongoose - Visual Studio Code

Installation Steps:  
# Clone the repository git clone <repo-link>  
# Install client dependencies cd client npm install  
# Install server dependencies cd ../server npm install

## 5. FOLDER STRUCTURE

Store-Manager/  
│-- client/ # React frontend  
│ └── components/  
│ └── pages/  
│-- server/ # Node.js backend  
│ └── routes/  
│ └── models/  
│ └── controllers/

## 6. RUNNING THE APPLICATION

Frontend:  
 cd client  
 npm start  
  
Backend:  
 cd server  
 npm start  
  
Access:  
 Open browser → http://localhost:3000

## 7. API DOCUMENTATION

User APIs:  
  
/api/user/register  
  
/api/user/login

Product APIs:  
  
/api/products/add  
  
/api/products/:id  
  
/api/products/update/:id  
  
/api/products/delete/:id

Reports APIs:  
  
/api/reports/sales  
  
/api/reports/stock

## 8. AUTHENTICATION

🔐 JWT - based authentication for secure login  
🔐 Middleware protects private routes

## 9. USER INTERFACE

* Login Page 🔑
* Dashboard 📊
* Inventory Management 📦
* Reports Page 📝
* Admin Panel 👩‍💼

## 10. TESTING

✔ Manual testing during each milestone  
✔ Tools: Postman for API testing, Chrome Dev Tools for frontend debugging

## 11. SCREENSHOTS / DEMO

Demo link : <https://drive.google.com/file/d/12C6xAru6vOw9Y0y1HsxGzva5I1IPy8gY/view?usp=drive_link>

## 12. KNOWN ISSUES

⚠️ Currently does not support multiple store branches  
⚠️ Graphs may load slowly with large datasets

## 13. FUTURE ENHANCEMENTS

* 📈 Multi-branch store support
* 📱 Mobile app version
* 🔔 Real-time push notifications
* 🤖 AI-driven demand forecasting
* 📷 Barcode/QR scanner integration

***THANK YOU***