Project Documentation
STORE MANAGER KEEP TRACK OF INVENTORY PROJECT

1.   Introduction

- **Project Title:** Store Manager

- **Team ID** :NM2025TMID34837

- **Team Leader:**

-        **SANJAYKUMAR.S - 24ucs552@avasctnj.edu.in**

- **Team Members:**

    - SURYA.M   - 24ucs562@avasctnj.edu.in

    - THIRIVIKRAMAN.S - 24ucs564@avasctnj.edu.in

    - SAKTHINATHAN.G -24ucs550@avasctnj.edu.in

2.   Project Overview

- **Purpose:** The store manager system is designed to simplify and automate store operations,including inventory control,billing,customer management,and reporting

- **Features:**

    - Product stock management

    - Sales and billing system

    - Customer management

    - Report generation

    - Admin control panel

3.   Architecture

Frontend: ReactJS with Bootstrap

Backend: Node.js + Express.js (REST APIs)

Database: MongoDB (for storing product, sales, and customer details)

4.   Setup Instructions

Prerequisites:

Node.js

MongoDB

Git

Visual Studio Code

Installation Steps:

Clone repository

git clone <repository-url>

Install server dependencies

cd server

npm install

Install client dependencies

cd client

npm install

5. Folder Structure

```
store-manager/
|— client/          # frontend
|     └─ src/
|         └─ components/
|         └─ pages/
|— server/          # backend
|     └─ models/
|     └─ routes/
|     └─ controllers/
```

6. Running the Application

Frontend:

```
cdcliet

 npmstar
```

Backend:

```
cd server npm
 start
```

Access: http://localhost:3000

7. API Documentation

- **User:**

    - /api/user/register

    - /api/user/login

- **Projects:**

    - /api/projects/create

    - /api/projects/:id • **Applications:** /api/apply

- **Chats:**

    - /api/chat/send – /api/chat/:userId

8.   Authentication

JWT-based authentication for secure login

Middleware protects private routes

9.   User Interface

Dashboard (Sales & Inventory Overview)

Product Management Page

Customer Management Page

Reports Page

10.   Testing

Manual testing for major modules.

Debugging via Chrome Dev Tools & Postman API tests.

Screenshots or Demo

Known Issues

Inventory update delay on high traffic.

Report export limited to PDF.

13.   Future Enhancements

Multi-store support.

Barcode scanner integration.

Mobile application for store staff.

AI-based sales prediction reports