Project Documentation

Inventory-management-frontend

1. Introduction

- **Project Title: Store Manager: Keep track of inventory**
- **Team ID:NM2025TMID39934**
- **Team Leader:** VIGNESH .S (rajkumarlakshmi007@gmail.com)
- **Team Members:**
  - Vishal .B(vishal271005@gmail.com)
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2. Project Overview

- **Purpose:** SB Works connects clients and freelancers through project postings, bidding, and real-time communication.
- **Features:**
  - Project posting and bidding
  - Secure chat system
  - Feedback and review system
  - Admin control panel

3. Architecture

- **Frontend:** React.js with Bootstrap and Material UI
- **Backend:** Node.js and Express.js managing server logic and API endpoints
- **Database:** MongoDB stores user data, project information, applications, and chat messages

4. Setup Instructions

- **Prerequisites:**
  - Node.js

- MongoDB
- Git
- React.js
- Express.js – Mongoose – Visual Studio Code

- **Installation Steps:**

```
# Clone the repository git clone

# Install client dependencies cd
client npm install

# Install server dependencies cd
../server npm install
```

5. Folder Structure

```
SB-Works/
|-- client/                    # React frontend
     |__components/
      L___pages/
|___server/                    # Node.js backend
     |__routes/
        |___models/
          |___controllers/
```

6. Running the Application

- **Frontend:**

```
  cd     client
npm start
```

•**Backend:**

```
Cd  server
npm start
```

- **Access:** Visit http://localhost:3000

7. API Documentation

- **User:**
    - /api/user/register
    - /api/user/login

- **Projct :**
  - /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

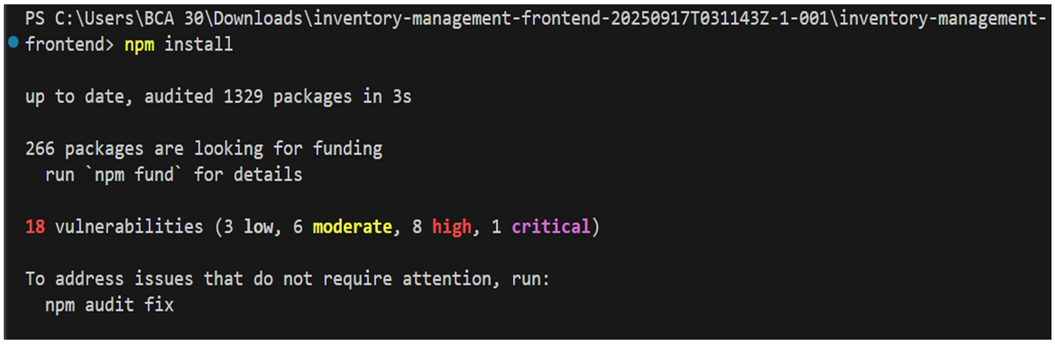
9. User Interface

- Landing Page
- Freelancer Dashboard
- Admin Panel
- Project Details Page

10. Testing

- Manual testing during milestones
- Tools: Postman, Chrome Dev Tools

11. Screenshots or Demo



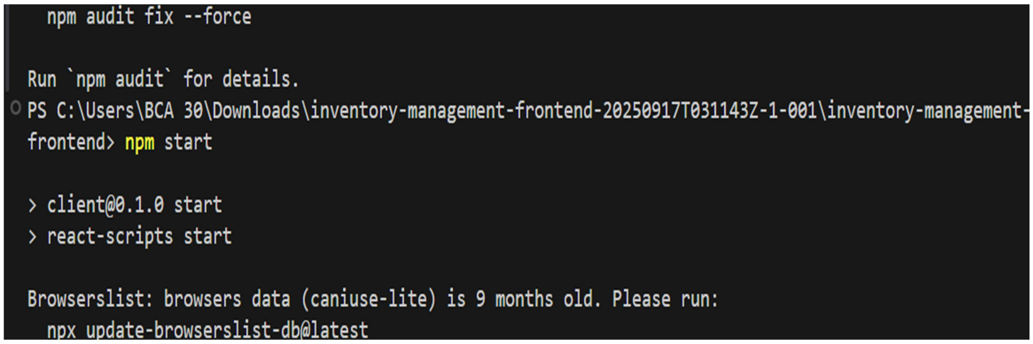
```
PS C:\Users\BCA 30\Downloads\inventory-management-frontend-20250917T031143Z-1-001\inventory-management-
frontend> npm install

up to date, audited 1329 packages in 3s

266 packages are looking for funding
  run `npm fund` for details

18 vulnerabilities (3 low, 6 moderate, 8 high, 1 critical)

To address issues that do not require attention, run:
  npm audit fix
```

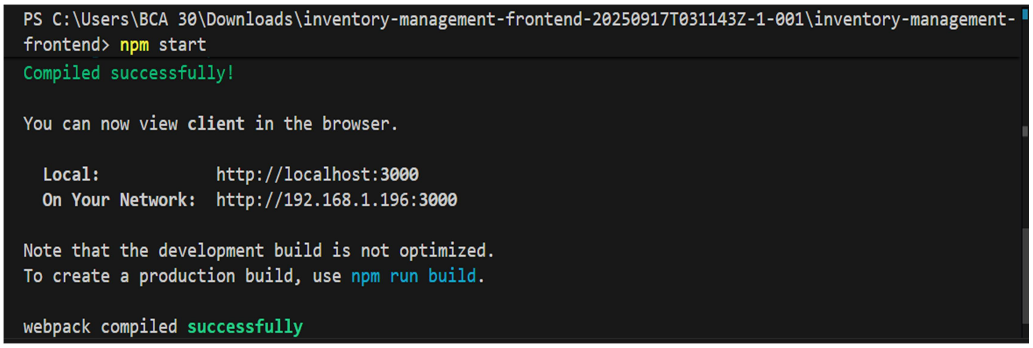


```
  npm audit fix --force

Run `npm audit` for details.
PS C:\Users\BCA 30\Downloads\inventory-management-frontend-20250917T031143Z-1-001\inventory-management-
frontend> npm start

> client@0.1.0 start
> react-scripts start

Browserslist: browsers data (caniuse-lite) is 9 months old. Please run:
  npx update-browserslist-db@latest
```



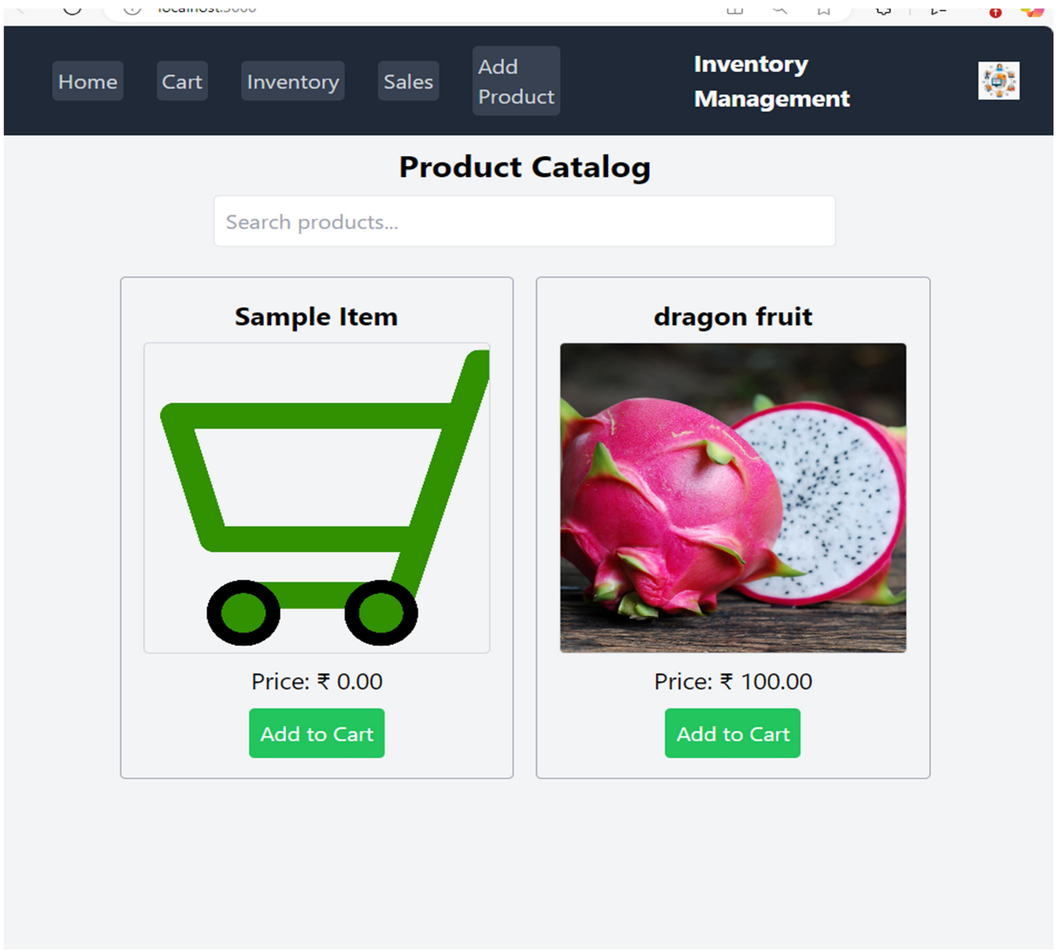
```
PS C:\Users\BCA 30\Downloads\inventory-management-frontend-20250917T031143Z-1-001\inventory-management-
frontend> npm start
Compiled successfully!

You can now view client in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.1.196:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```



Product Catalog

Sample Item

Price: ₹ 0.00

dragon fruit

Price: ₹ 100.00

12. Known Issues: Nil

13. Future Enhancements

- **Mobile Application Support** – Develop Android and iOS apps for wider accessibility.

- **AI-Powered Matching** – Use machine learning to suggest the best freelancer for each project.

- **Payment Gateway Integration** – Enable secure online payments and escrow services.

- **Video & Voice Calls** – Add real-time communication features beyond chat.

- **Advanced Analytics** – Provide project performance, freelancer success rates, and client satisfaction dashboards.

- **Internationalization (i18n)** – Support multiple languages and currencies.

- **Freelancer Skill Verification** – Automated tests or certifications for freelancers.

- **Project Recommendation Engine** – Personalized project suggestions based on user activity.

- **Automated Dispute Resolution** – Smart system to resolve conflicts between clients and freelancers.

- **Cloud Deployment** – Migrate to scalable cloud infrastructure (AWS, Azure, or GCP) for better performance.