Frontend Development with React.js

Project Documentation

**1. Introduction**

o **Project Title :** STORE MANAGER : KEEP TRACK INVENTORY

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Inventory Tracking for a Store Manager

PURPOSE

* **Meet Customer Demand:**

Ensure the right products are available at the right time to meet customer needs and improve satisfaction.

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**Avoid Stock outs:**

Prevent lost sales and customer dissatisfaction caused by running out of popular items.

FEATURES

A store manager uses [inventory tracking features](https://www.google.com/search?client=firefox-b-d&cs=0&sca_esv=5d492a60a0e5c7c0&q=inventory+tracking+features&sa=X&ved=2ahUKEwi-8Yv3y9yPAxXhXGwGHcAWM6MQxccNegQIAxAB&mstk=AUtExfAUGqfOiph9DkTwRb8_UrZxW9Lue_ELZxYTuASCj1sj3RSkAPyOjybG7Y9c_vn3bfApP1MUnls5DVELSQPURDUSD5zxX6YEQKgaD750aYZ_dOBuMYqucmujkIzyQJ5BGog&csui=3) like real-time stock monitoring, barcode scanning, and automated reordering to maintain optimal stock levels and prevent shortages or overstocking.

**Store Manager: Keep Track of Inventory .**

Here are some key features and a description of an inventory management system:

* **Inventory Management:** Inventory Management helps maintain healthy stock levels in a store and acquire them in time.
* **Stock Updates:** Stock will automatically update on sale of products, and it can be updated on adding new stock.
* **Cart:** Products can be added to cart for a particular sale and quantity can be added to each product.
* **Checkout at Cart**: Upon checkout, cart is cleared, inventory is updated, and a sale record is made.
* **Adding New Products to Inventory:** New products can be added to the inventory by providing product name, image URL, price, stock, tags.
* **Alert View for Depleting Stock:** Depleting stocks are shown in red background, and alert count can be updated as per requirement.
* **Search Functionality for Products:** Products in inventory and product catalog can be searched.

**Sale Records:** All sale records are stored with sale value, products and date time.

### Project structure

The image is of the folder structure which shows all the files and folders that have been used in project development.

A screenshot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generated

**PRE-REQUISITES**

Here are the key prerequisites for developing a frontend application using React.js:

* **Node.js and npm**:

Node.js is a powerful JavaScript runtime environment that allows you to run JavaScript code on the local environment. It provides a scalable and efficient platform for building network applications.

* **React.js**:

React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications.

Install React.js, a JavaScript library for building user interfaces.

* Create a new React app:

npx create-react-app my-react-app

Replace my-react-app with your preferred project name.

* Navigate to the project directory:

cd my-react-app

* **HTML, CSS, and JavaScript**: Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

* **Version Control**: Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

 • Git: Download and installation instructions can be found at: <https://git-scm.com/downloads>

* **Development Environment**: Choose a code editor or Integrated Development Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

• Navigate into the cloned repository directory and install libraries:

cd store

npm install

* **Start the Development Server**:

• To start the development server, execute the following command:

npm start

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DEMO LINK

<https://drive.google.com/file/d/1i_BNxMjY5DM2irPCnzyKCRlwql__Kn7d/view?usp=sharing>