Inventory Management Framework

**Overview**

The **Inventory Management Framework** is designed to streamline inventory tracking, product management, and stock control. This framework provides essential functionalities for managing inventory efficiently.

Features

* 🔐 **Authentication & Authorization** – Secure access control for different user roles.
* 📦 **Product Management** – Add, update, and delete, list products & show product info for an individual product
* 📊 **Stock Tracking** – Manage and Monitor stock levels in real-time.
* 📜 **Transaction History** – Keep track of inventory changes.
* 🔍 **Search** – Easily find products using search by id.

Refer <https://apiforshopsinventorymanagementsystem-qnkc.onrender.com/api-docs/#/> for documentation.

Installation

**Prerequisites**

* Node.js v22.15.1 - (v22+ recommended)
* Cypress - v14.3.3 - (v14+ recommended)
* IDE(ex:VSC)
* Git Bash
* Refer package.json

**Setup**

1. Clone the repository: git clone https://github.com/lakshmannnn/Inventory-Management-framework.git Install
2. Navigate to using: cd Inventory-Management-framework
3. Install dependencies: npm install
4. Install npx : npm i npx

Usage

* **Run Tests**:

npx cypress run (to open the tests in headless mode/termina execuation)

npx cypress run --headed (to open the tests in headed mode/cypress app)

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**API Endpoints**:

User Management :Endpoints for user registration and login

1. POST /auth/login – to login to app and secure bearer token

Product Management - Endpoints for managing inventory products

1. GET /products – Fetch all products
2. GET /products/{productId} – to fetch individual product details
3. POST /products – Add a new product
4. PUT /products/{productId}– Update product details
5. DELETE /products/{productId}– Remove a product

Stock Management - Endpoints for handling product orders

1. POST /orders – Creates new Buy or Sell orders
2. GET /orders/products/{productId} – to know the current state of stocks

Status

1. GET /status - check API and DB status