🛒 HF Grocery Store Management System

A full-stack web application for managing a grocery store, built with **React**, **Node.js**, **Express**, and **SQL Server (SSMS)**.
The system supports customer login, product browsing, cart management, and admin-level inventory control.

📁 Project Structure

grocery-store/

├── backend/   # Node.js + Express APIs

├── frontend/   # React + MUI UI

│   ├── part1_tables.sql   # Tables creation

│   ├── part2_views.sql   # Views definitions

│   ├── part3_procedures.sql # Stored procedures

├── README.md

🧠 Features

👥 Customers

- Browse categories and products

- View detailed product pages

- Add/remove items from cart

- Place orders

🛠 Admin

- Add new products, categories, and inventory

- View all orders and update their status

- Manage stock availability

🗄 Database (SQL Server)

Database scripts are organized into three parts:

1. **part1_tables.sql** – creates all necessary tables like Product, Inventory, Cart, Orders, Customer, etc.

2. **part2_views.sql** – defines useful views like available_products, cart_details, order_details, and inventory_status.

3. **part3_procedures.sql** – includes stored procedures for:

   o Product management: add_product, update_product, delete_product

   o Customer management: add_customer

   o Cart operations: add_to_cart, remove_from_cart

   o Order handling: place_order, update_order_status

⚙️ Tech Stack

- **Frontend:** React, Material UI (MUI)

- **Backend:** Node.js, Express

- **Database:** SQL Server (SSMS)

- **Architecture:** MVC Pattern

🚀 Getting Started

1. Clone the Repository

git clone https://github.com/your-username/grocery-store.git

cd grocery-store

2. Setup the Database

1. Open **SQL Server Management Studio (SSMS)**

2. Execute the SQL files in order:

   o part1.sql

   o part2.sql

   o part3.sql

3. Install Backend Dependencies

cd backend

npm install

4. Start Backend Server

node index.js

Make sure to configure your dbConfig.js with the correct SQL Server credentials.

5. Start Frontend

cd ../frontend

npm install

npm start

📝 To-Do (Optional Enhancements)

- Add user authentication with JWT

- Enable image upload for products

- Add search and filtering functionality

- Implement order tracking and invoice generation

📮 Contact

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