Project Requirements Document (PRD)

Title: Grocery App

Overview

This web application allows users to browse grocery items by category, add items to their cart, and place orders. Admins can manage the grocery inventory by adding new items (with images fetched from Unsplash), setting prices, and assigning units. The system supports secure authentication, responsive UI, and role-based access for users and admins.

Goals & Objectives

- Allow admins to manage grocery items (add, update, delete).
- Enable users to browse items by category and add to cart.
- Provide secure authentication and role-based access (admin vs. user).
- Offer a clean, responsive UI for both desktop and mobile.
- Enable users to view their cart and order history.

Target User

- Grocery store admins (manage inventory)
- Customers (browse, shop, and order)
- Age: 18+
- Anyone needing to buy groceries online

Features

Feature	Description	Priority
Item Management	Add, update, delete, and list grocery items (admin only)	High
Category Browsing	Browse items grouped by category	High
Cart Management	Add items to cart, view cart, remove from cart	High
Order Management	Place orders, view order history	High
Authentication	Secure login/logout for users and admins	High

Responsive Design	Works on both desktop and mobile devices (Tailwind CSS)	High
Image Fetching	Auto-fetch item images from Unsplash API	Medium
Admin Dashboard	Admins can manage all items and view orders	Medium

Functional Requirements

Item Management

- CRUD operations for grocery items (name, description, price, category, unit, image)
- Admin only

Category Browsing

- View all items grouped by category

- Category dropdown for quick navigation

Cart Management

- Add items to cart (one per item)

- View and remove items from cart

Order Management

- Place orders from cart

- View past orders

Authentication & Access Control

- Only admins can access item management features
- Users can only manage their own cart and orders

UI/UX Requirements

- Clean, modern, mobile-first design (Tailwind CSS)
- Separate navigation for admin and users
- Responsive tables and forms

Tech Stack

- **Frontend:** HTML, Tailwind CSS
- **Backend:** Django, Django REST Framework, SQLite (default)
- **Authentication:** Django built-in & JWT
- **Image API:** Unsplash
- **Deployment:** (render.com

Timeline

Task	Deadline
Requirement Finalization / UI Design	Day 1
Build Item/Category CRUD (Admin)	Day 2
Cart & Order Management	Day 3
User Authentication & Role Access	
Testing & Responsive Design	
Final Touches & Report	

Success Criteria

- Admin can manage grocery items (add, update, delete)
- Users can browse, add to cart, and place orders
- Secure authentication and role-based access
- Fully responsive layout
- No major bugs during testing

Deliverables

- **Working app (deployed)** → https://grocery-app-rjdg.onrender.com
- **Code (GitHub)** → https://github.com/Nitesh-Bhardwaj-git/Grocery_app
- **Final Report (PDF with screenshots and features)** → https://drive.google.com