

# Full Stack Project Documentation

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Project Title:

ShopSmart: Your Digital Grocery Store Experience

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## 1. Project Overview

The Digital Grocery Store Experience is a full-stack web application designed to offer a seamless online shopping experience for grocery items. Users can browse products, add them to a shopping cart, and place orders. The application also supports user authentication, order history, and an admin panel to manage orders and products. The project aims to simulate a real-world e-commerce workflow tailored to grocery needs.

## 2. Project Goals

- Provide a user-friendly platform for grocery shopping.
- Enable cart management and order placement.
- Allow users to register/login and view past orders.
- Equip admins to manage products and monitor orders.
- Integrate React with Express and MongoDB for full-stack functionality.

## 3. Key Features

- Product listing with prices and descriptions.
- Add to cart and remove from cart functionality.
- View cart with total calculation.
- User authentication (login/register).
- Order placement and confirmation.
- Order history per user.
- Admin dashboard to view and manage orders.

## 4. Technologies Used

- Frontend: React.js, Vite, Context API
- Backend: Node.js, Express.js
- Database: MongoDB
- Styling: CSS/Tailwind (optional)
- Tools: Git, GitHub, VS Code

## 5. Folder Structure (Frontend)

```
/src
  /components
    GroceryList.js
    Cart.js
  /context
    CartContext.js
  App.js
  main.jsx
```

## 6. How to Run the Project

Frontend

```
cd frontend
npm install
npm run dev
```

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Backend

```
cd backend
npm install
node server.js
```

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## 7. Learnings

- Learned how to use React with functional components and hooks.
- Implemented state management using Context API.
- Understood how to build and consume RESTful APIs.
- Gained experience working with MongoDB for storing orders and user data.
- Improved deployment and integration skills with GitHub.

## 8. Conclusion

This project helped me gain practical experience in building a full-stack application. From frontend interaction to backend logic and database integration, I developed a functional grocery store platform that closely resembles real-world e-commerce systems.