Full Stack Project Documentation

Project Title:

“ShopSmart: Your Digital Grocery Store Experience “

Team ID: LTVIP2025TMID46893

Team Members:

C. Sharadha

B. Mounika

Bellapukonda Aswini: Frontend ,Backend and Integration

B.Navyasree

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.

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.

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.

Technologies Used

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

Folder Structure(Frontend):

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

How to Run the Project :

Frontend

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

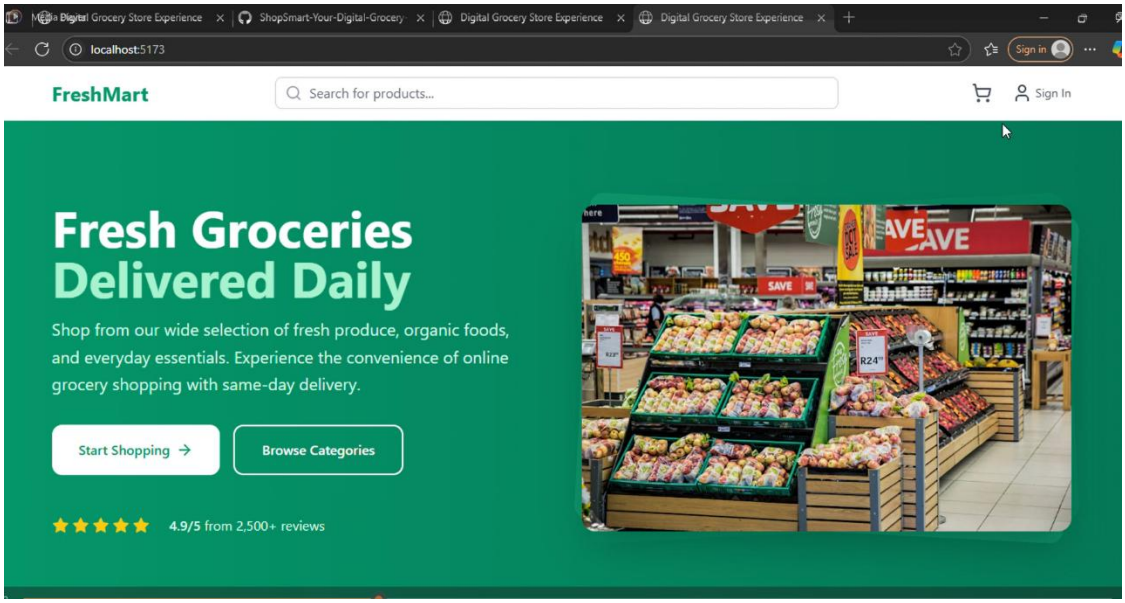
Backend

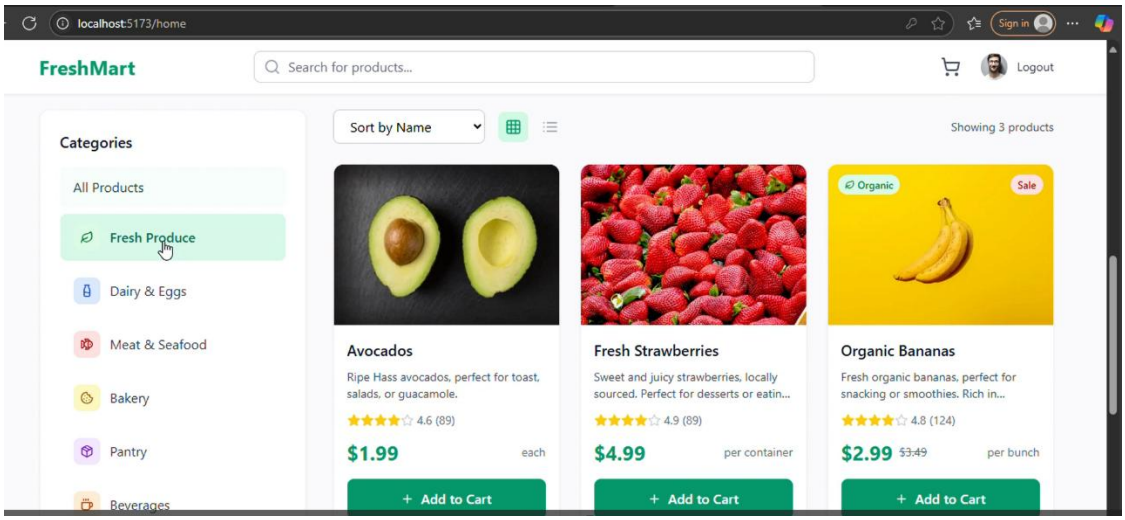
```
cd backend npm
install node
server.js
```

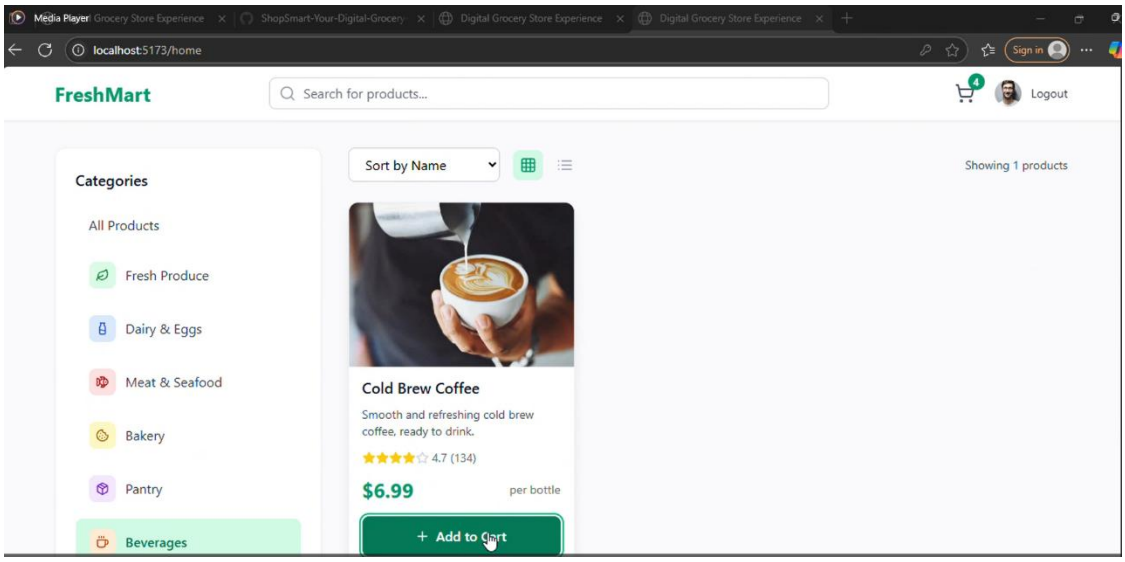
Learnings:

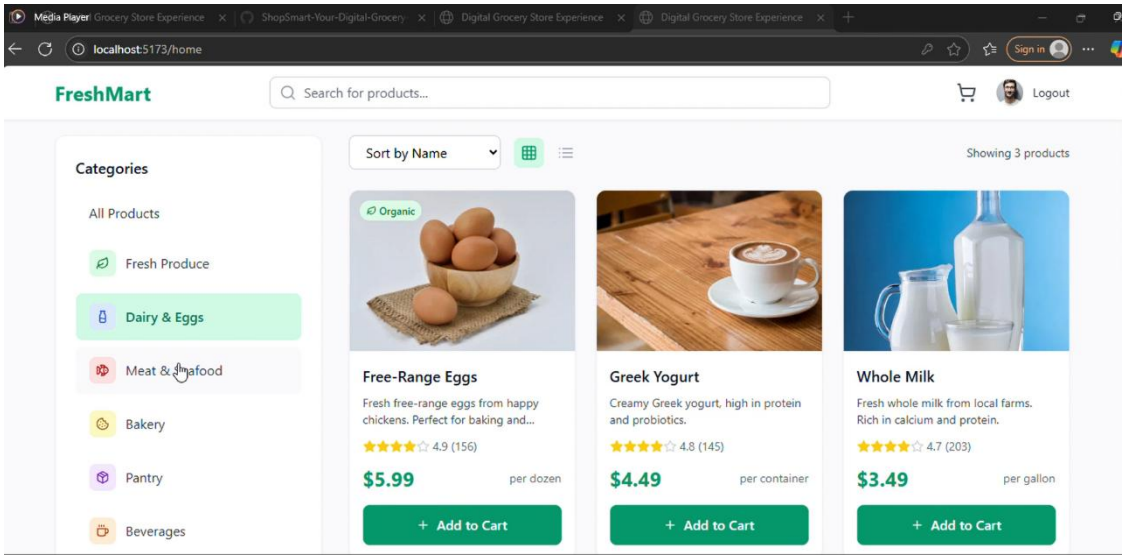
- Learned how to use React with functional components and hooks.
- Implemented state management using Context API.
- Understood how to build and consume RESTful APIs.
- Gained experience working with MongoDB for storing orders and user data.
- Improved deployment and integration skills with GitHub.

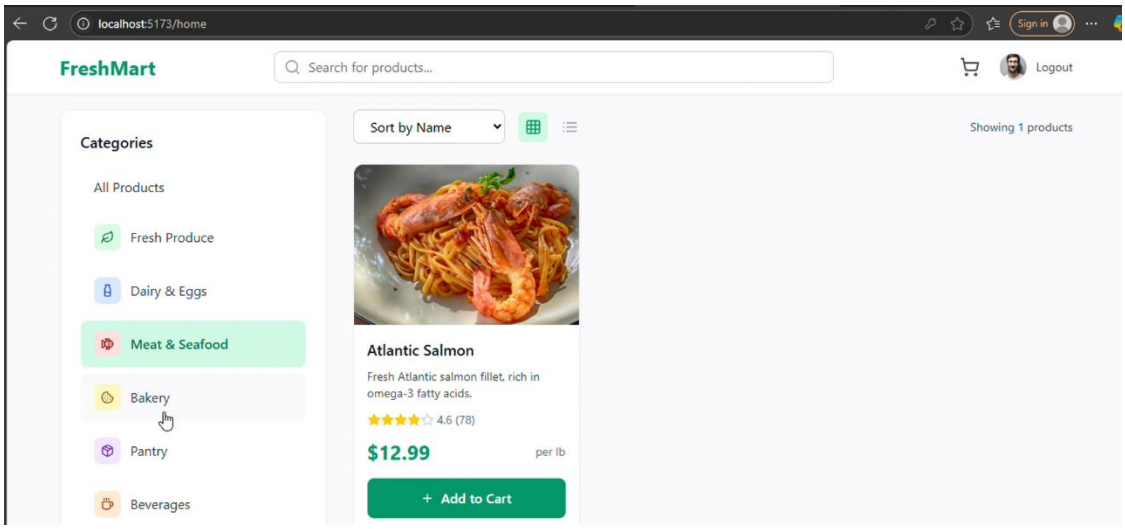
Application Building Screenshots:

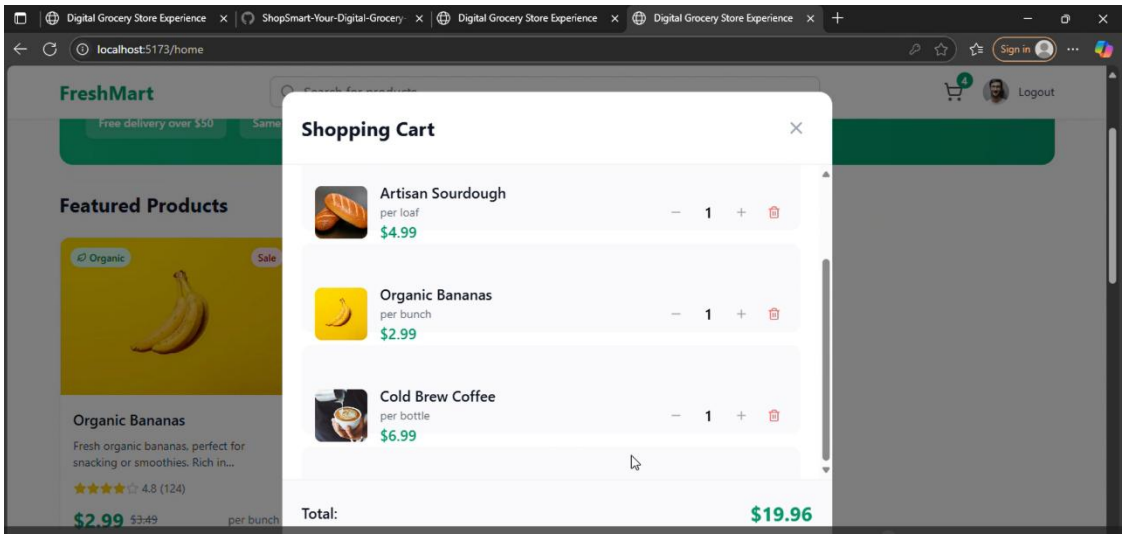


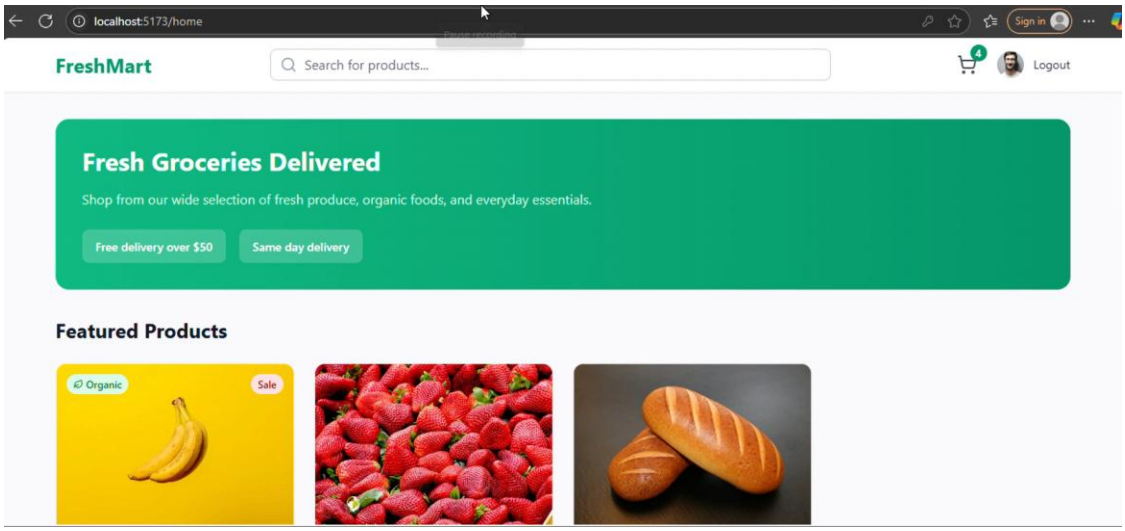



Media Player
Digital Grocery Store Experience
localhost:5173/home
Sign in
FreshMart
Search for products...
Logout
Categories
All Products
Fresh Produce
Dairy & Eggs
Meat & Seafood
Bakery
Pantry
Beverages
Sort by Name
Showing 1 products
Cold Brew Coffee
Smooth and refreshing cold brew coffee, ready to drink.
4.7 (134)
$6.99
per bottle
+ Add to Cart


Media Player
Digital Grocery Store Experience
localhost:5173/home
Sign in
FreshMart
Search for products...
Logout
Categories
All Products
Fresh Produce
Dairy & Eggs
Meat & Seafood
Bakery
Pantry
Beverages
Sort by Name
Showing 3 products
Organic
Free-Range Eggs
Fresh free-range eggs from happy chickens. Perfect for baking and...
4.9 (156)
$5.99
per dozen
+ Add to Cart
Greek Yogurt
Creamy Greek yogurt, high in protein and probiotics.
4.8 (145)
$4.49
per container
+ Add to Cart
Whole Milk
Fresh whole milk from local farms. Rich in calcium and protein.
4.7 (203)
$3.49
per gallon
+ Add to Cart


localhost:5173/home
Sign in
FreshMart
Search for products...
Logout
Categories
All Products
Fresh Produce
Dairy & Eggs
Meat & Seafood
Bakery
Pantry
Beverages
Sort by Name
Showing 1 products
Atlantic Salmon
Fresh Atlantic salmon fillet, rich in omega-3 fatty acids.
4.6 (78)
$12.99
per lb
+ Add to Cart


Digital Grocery Store Experience
ShopSmart-Your-Digital-Grocery
Digital Grocery Store Experience
Digital Grocery Store Experience
localhost:5173/home
Sign in
FreshMart
Logout
Free delivery over $50
Featured Products
Organic
Sale
Organic Bananas
Fresh organic bananas, perfect for snacking or smoothies. Rich in...
4.8 (124)
$2.99
$3.49
per bunch
Shopping Cart
Artisan Sourdough
per loaf
$4.99
1
Organic Bananas
per bunch
$2.99
1
Cold Brew Coffee
per bottle
$6.99
1
Total:
$19.96



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.