

# Full Stack Development with MERN

## Frontend Development Report

Date	12/07/2024
Team ID	SWTID1720199985
Project Name	Grocery Webapp
Maximum Marks	10 Marks

### Project Title: Grocery Webapp

Date: 12/07/2024

Prepared by: Hima Sruthi & Lohith Pattubala

---

### Objective

The objective of this report is to document the frontend development progress and key aspects of the user interface implementation for the Grocery Webapp project.

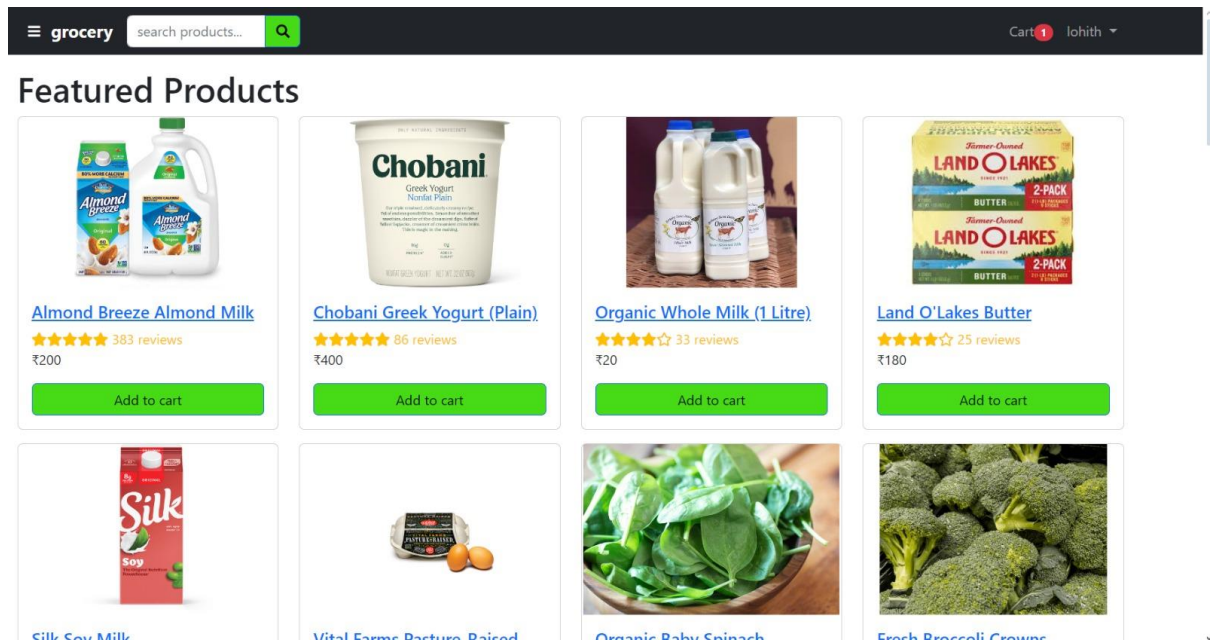
---

### Technologies Used

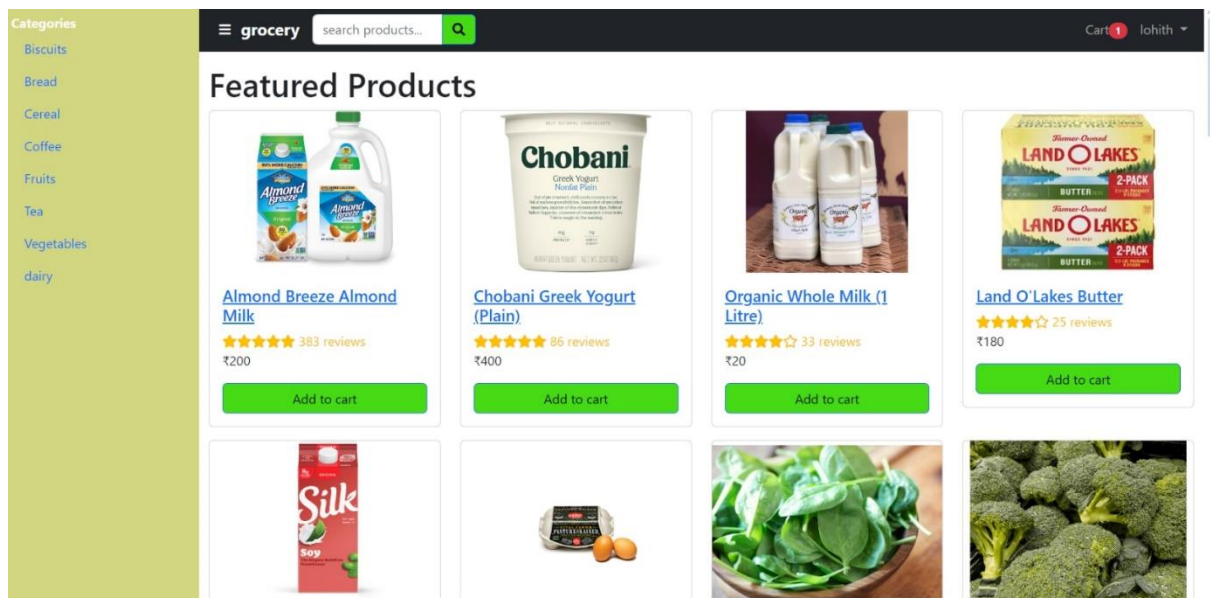
- **Frontend Framework:** React.js
- **State Management:** [Redux/Context API]
- **UI Framework/Libraries:** [ Material-UI, Bootstrap]
- **API Libraries:** [Axios]

### Project Structure

#### 1. Home Page:



## 2. Categories Page:



## 3. Signup Page:

## Sign Up

Name

Email

Password

Confirm Password

Sign Up

Already have an account? [Sign-In](#)

### 4. Signin Page:

## Sign In

Email

lohith@gmail.com

Password

.....

Sign In











New customer? [Create your account](#)

Forget Password? [Reset Password](#)

### 5. Search Products:



## Shopping Cart

	Oat Biscuits	- 1 +	₹165	
	Almond Breeze Almond Milk	- 1 +	₹200	
	Land O'Lakes Butter	- 1 +	₹180	
	Fresh Broccoli Crowns	- 1 +	₹80	
	Vital Farms Pasture-Raised Eggs	- 1 +	₹80	

Subtotal (5 items) : ₹705

Proceed to Checkout

## 7. Shipping Address:

Sign-In

Shipping

Payment

Place Order

## Shipping Address

Full Name

Lohith Pattubala

Address

Vit Vellore

City

Vellore

Postal Code

632014

Country

India

Choose Location On Map

No location

Continue

## 8. Payment Page:

grocery

search products...

Q

Cart 7lohith

Sign-InShippingPaymentPlace Order

Payment Method

☒ Gpay

☐ Paytm

Continue

## 9. Order Placing:

Sign-InShippingPaymentPlace Order

Preview Order

Shipping

**Name:** Lohith Pattubala  
**Address:** Vit Vellore ,Vellore, 632014,India


[Edit](#)


Payment


**Method:** Gpay

[Edit](#)

Items

 [Oat Biscuits](#) 1 ₹165

 [Almond Breeze Almond Milk](#) 1 ₹200



Order Summary

Items	₹1325.00
Shipping	₹0.00
Tax	₹198.75
<b>Order Total</b>	<b>₹1523.75</b>

Place Order

## Key Components

### 1. App.js

- Responsible for routing and main application layout.

### 2. /components

- AdminRoute.js:** Ensures only admin users can access certain routes.
- CheckoutSteps.js:** Displays the steps in the checkout process.
- Product.js:** Represents individual product items.
- SearchBox.js:** Provides a search interface for finding products.

### 3. /pages

- **CartScreen.js:** Displays the shopping cart with selected items.
- **HomeScreen.js:** Landing page of the application.
- **OrderScreen.js:** Displays user orders.
- **ProductScreen.js:** Shows detailed information about a specific product.
- **SearchScreen.js:** Shows search results for products.
- **SignupScreen.js:** Handles user sign-up and registration.

## Routing

Routing is managed using React Router. Here are the main routes:

- **/OrderRoutes.js:** Manages API routes related to orders.
- **/ProductRoutes.js:** Manages API routes related to products.
- **/SeedRoutes.js:** Manages routes for seeding the database.
- **/UploadRoutes.js:** Manages routes for uploading files.
- **/UserRoutes.js:** Manages API routes related to user operations.

## State Management (If Applicable)

State management is achieved using [Redux/Context API].

## Integration with Backend

The frontend communicates with the backend APIs hosted on [backend URL]. Key endpoints include:

- **GET /api/data** - Retrieves data for display.
- **POST /api/user/login** - Handles user authentication.
- **GET /api/products** - Retrieves a list of available grocery items.
- **POST /api/users/login** - Handles user authentication.
- **POST /api/orders** - Processes user orders.
- **POST /api/upload** - Handles file uploads.
- **POST /api/seed** - Handles database seeding

## User Interface (UI) Design

- The UI design follows clean and user-friendly principles focused on ease of navigation and accessibility.
- Implemented using Material-UI for a consistent and responsive design.

## Third-Party Integrations (If any)

- **Google API:** Additional Functionalities (e.g., Maps)
- **Google Pay, Paytm:** Payment Processing