Day 4

Detailed Documentation for Dynamic Components and Functionalities

Step 1: Functionalities Overview

The project implements the following core functionalities for a dynamic and responsive food delivery marketplace:

- **Product Listing Page**
- **Dynamic Route**
- **Cart Functionality**
- **Checkout**
- **Price Calculation**

Each of these features works perfectly to provide users with a seamless experience when browsing, selecting, and purchasing food items.

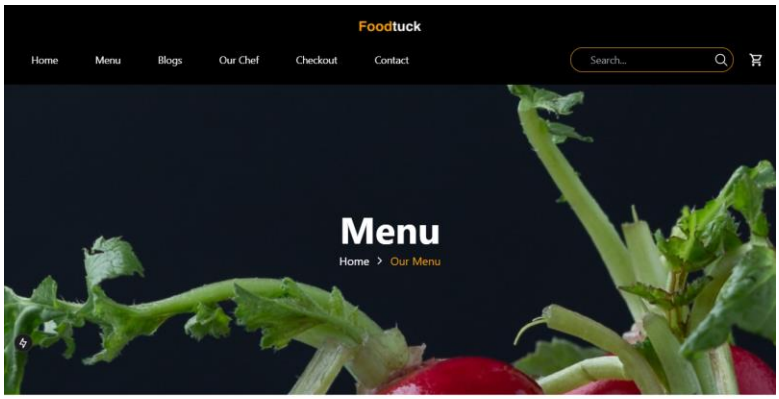
Step 2: Functionalities in Detail

1. Product Listing Page

The **Product Listing Page** serves as the primary interface where customers can view all available food items in a user-friendly and attractive layout. Products (food items) are fetched dynamically from a content management system (CMS), such as Sanity CMS.

- **Key Features:**
    - **Sorting & Filtering:** Users can sort products based on categories like " Appetizer" "Main Course" etc
    - **Pagination:** Ensures smooth navigation even with a large number of products.
    - **Responsive Design:** Adaptable layout for mobile, tablet, and desktop devices.

- **Integration with Sanity CMS:** Real-time product updates from the backend are automatically reflected on the frontend.



Search food...

All Categories

Country Burger
Sandwich
Rs45.00
In Stock
Add to Cart

Fresh Lime
Drink
Rs38.00
In Stock
Add to Cart

Chocolate Muffin
Dessert
Rs28.00
In Stock
Add to Cart

Chicken Chup
Appetizer
Rs12.00
In Stock
Add to Cart

Burger
Sandwich
Rs21.00
In Stock
Add to Cart

Pizza
Main Course
Rs43.00
In Stock
Add to Cart

420+ Satisfied Customers

250+ Dishes Served

36+ Chefs

200+ Five Star Ratings

We work with the best people





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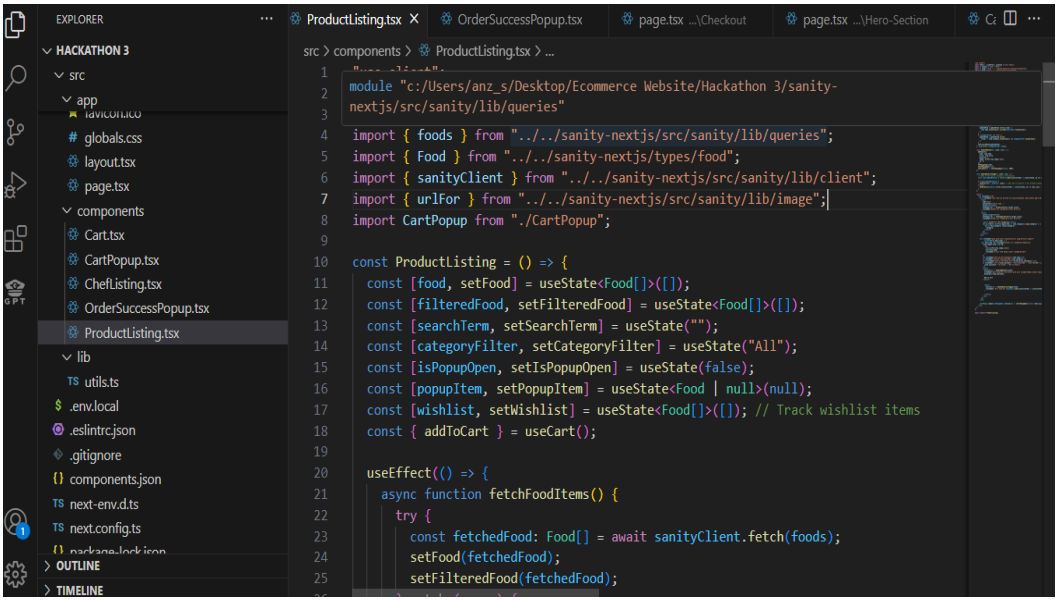

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2. Dynamic Route

Dynamic routing allows for the creation of individual pages for each food item, enabling detailed information to be shown for every dish or menu item.

- **Key Features:**
    - Unique URLs for each food .
    - Server-side rendering (SSR) for SEO benefits and fast initial load times.
    - Displays details such as the food description, images, ingredients, pricing, and availability.
    - Scalable for a growing menu, with new items automatically generating corresponding pages.

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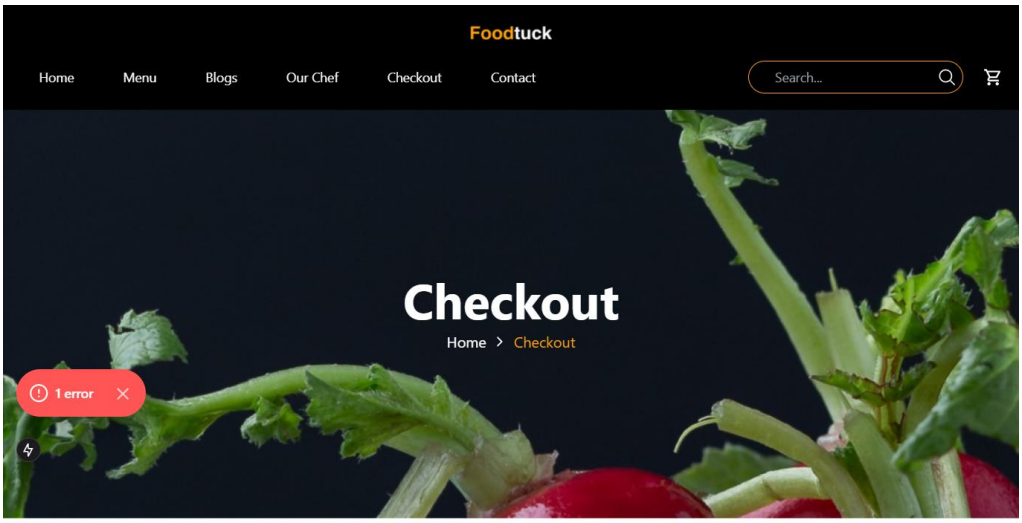
3. Cart Functionality



Product	Price	Quantity	Total	Remove
Chocolate Muffin	Rs28.00	1	$28.00	×
Country Burger	Rs45.00	1	$45.00	×
Pizza	Rs43.00	1	$43.00	×
Chicken Chup	Rs12.00	1	$12.00	×

Coupon Code

Enter your code Apply

Cart Subtotal	Rs128.00
Discount	Rs0.00
Shipping Charges	Rs2.00
Total Amount	**Rs130.00**

Proceed to Checkout

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The **Cart Functionality** tracks the items that the user has added to their cart. This functionality is crucial for providing a seamless shopping experience, ensuring customers can easily review, modify, and check out their selected items.

- **Key Features:**
    - Add items to the cart from both product listings and individual product pages.
    - Real-time cart updates as quantities are changed or items are removed.
    - Persistent cart data via **local storage** or **session storage**, ensuring data is retained across page refreshes.

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4. Checkout

Checkout

Order Summary

Chocolate Muffin
Qty: 1 — Rs28.00

Country Burger — Rs45.00

1 error

Pizza
Qty: 1 — Rs43.00

Chicken Chup
Qty: 1 — Rs12.00

Enter Your Details

Full Name
Enter your full name

Address
Enter your address

Phone Number
Enter your phone number

Region
Enter your region

Street Number
Enter your street number

Area
Enter your area

Order Now

The **Checkout** process is streamlined to ensure a smooth, secure, and efficient transaction.

- **Key Features:**
    - Multi-step process: Collection of billing, shipping, and payment details.
    - A progress tracker visually shows the user where they are in the checkout process.
    - **Validation** ensures all required fields (address, payment details) are correctly filled.
    - **Order Summary** displayed for review before final submission.

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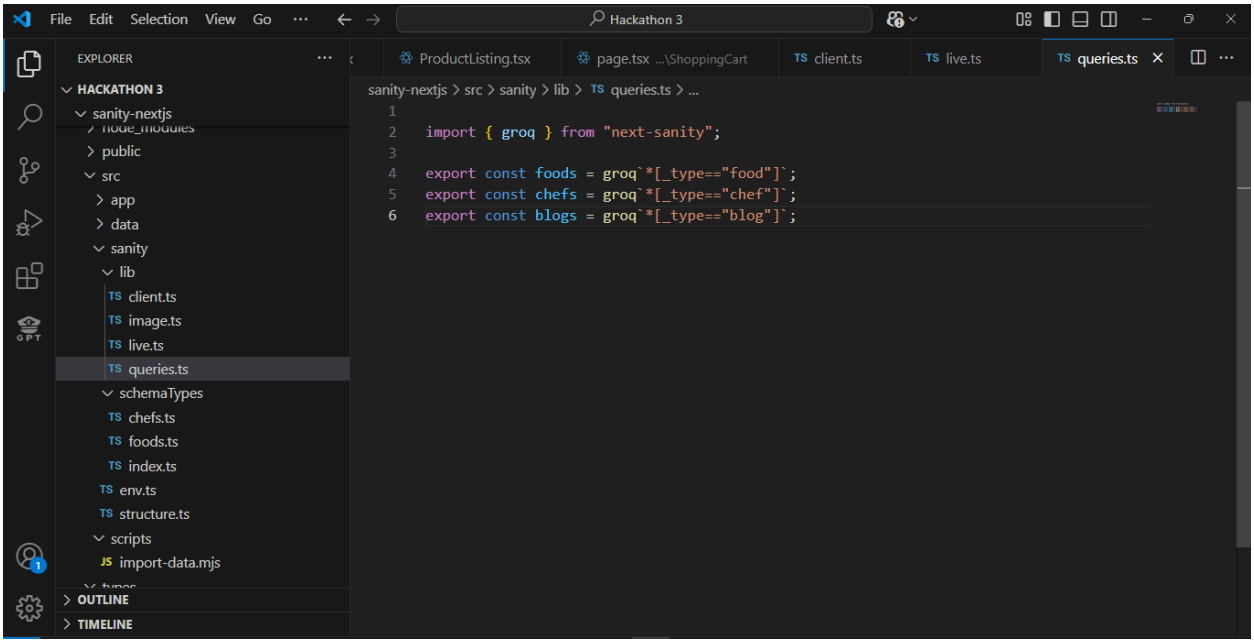
5. Price Calculation

The **Price Calculation** functionality calculates the total cost of the cart, including taxes, delivery fees, and discounts.

- **Key Features:**
    - **Real-Time Updates:** Subtotal recalculates dynamically as users add or remove items from the cart.
    - **Discounts and Promotions:** Ability to apply promotional codes or bulk discounts.
    - **Transparency:** Detailed breakdown of item costs, taxes, delivery charges, and final price.

Step 3: Integration with Sanity CMS

Sanity CMS powers the backend for managing dynamic food-related content, providing flexibility and real-time updates without the need for developers to change the code.



- **Key Features:**
    - All food items, categories (e.g., appetizers, main courses, desserts), and additional metadata (e.g., ingredient lists, dietary preferences) are stored and managed in **Sanity CMS**.
    - **Client-Side Querying** retrieves product data dynamically, ensuring the latest content is always shown.
    - **Extensibility:** As the menu grows, new categories or fields can be added to support the platform's scalability.

Conclusion

This documentation outlines the key functionalities required for building a dynamic and user-friendly food delivery marketplace. By utilizing **Sanity CMS** for backend management, **React** for frontend development, and integrating dynamic functionalities, we achieve a responsive and scalable platform that can easily grow with the needs of the business.
