Day 5 - Testing and Backend Refinement

Website Name: Comforty

Testing Overview

Our testing phase was focused on ensuring the functionality, responsiveness, and performance of the website. A series of test cases were created and executed to validate the components, features, and workflows. Below is a detailed summary of the testing results.

Test Results

- **Product Listing Page**: Verified that the product list fetches data dynamically from the API. Products display correctly on the page without any delays or glitches.
- **Add-to-Cart Functionality**: Ensured that users can add products to the cart, and the total price is calculated accurately. The cart updates as expected, and no issues were encountered.
- **Category Component**: Validated that the products displayed are filtered accurately based on the chosen category. Works flawlessly.
- **Header Responsiveness**: Confirmed that the header adjusts seamlessly to different screen sizes, transforming into a hamburger menu that opens as a sidebar on smaller screens. Fully responsive and smooth.
- **Footer Responsiveness**: Tested the footer for adaptability on various devices. The layout adjusts perfectly, maintaining a consistent look and feel.
- **Product Detail Page**: Verified dynamic loading of product details, including price, description, quantity, and more. Works as expected, providing a great user experience.
- **FAQ Component**: Checked the display of frequently asked questions and answers. The FAQ section loads perfectly without issues.
- **Multi-Language Component**: Assessed the UI for language selection. While the UI is implemented and functional, the actual language switching feature is not yet integrated.
- **Related Product Feature**: Verified that related products load dynamically and display accurately on the product detail page. The feature works as intended.
- **Loading Animation**: Observed the loading UI during data fetching for categories and products. The animations improve the user experience by indicating ongoing operations.

Backend Refinement

In addition to front-end testing, the backend workflows were optimized for better performance and security:

- **API Integration**: APIs for products, categories, and user actions were tested and refined for better performance. Secure endpoints and efficient queries ensure seamless data exchange.
- **Authentication Enhancements**: Security measures like session tokens and HTTP-only cookies were verified for user login functionality.
- **Improved CMS Integration**: The connection between Sanity CMS and the website backend was optimized to reduce data-fetching delays and improve reliability.
- **Payment and Shipping APIs**: Although not yet implemented, placeholders for secure payment processing and shipping APIs were reviewed and prepared for integration.

Final Thoughts on Testing

The website's testing phase confirmed its high responsiveness, seamless functionality, and robust user experience. All critical components are functional, while pending features (like multi-language switching) are ready for future integration. The backend optimizations ensure a secure and efficient system for upcoming launches.

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