

HACKATHON-ECOMMERCE PLATFORM

DAY-4 BUILDING DYNAMIC FRONTEND COMPONENT FOR THE ECOMMERCE PLATFORM

Website Name: bandage

Name: Muhammad Zaki

Project Initialization

- Successfully set up a Next.js project, seamlessly integrated with Sanity CMS.
 - Designed and structured schemas in Sanity to handle products, categories, and related data models effectively.
 - Validated API connectivity and ensured all data endpoints function smoothly using tools like `fetch` and `axios`.
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Data Handling & Integration

- Employed GROQ queries to fetch products, categories, and relevant data from Sanity CMS with efficiency.
 - Developed reusable utility functions for clean and consistent API call management.
 - Conducted rigorous testing to ensure accurate and optimized data rendering on the frontend.
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Key Components Overview

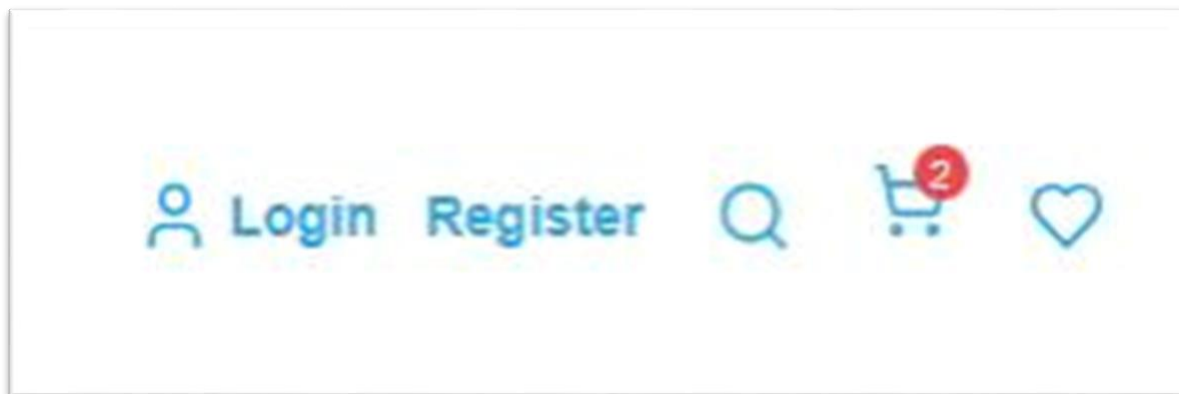
Core Modules

- **Product Card Module:** Displays detailed product information such as images, titles, prices, and links to product detail pages.

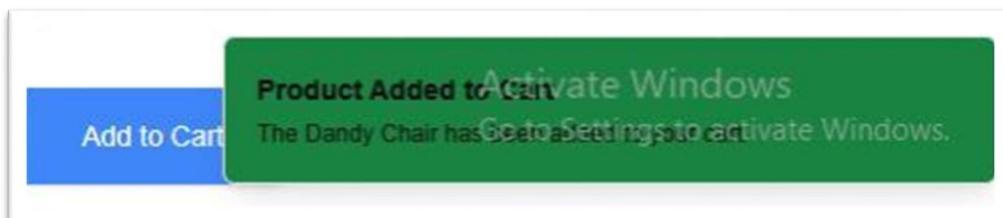
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- **Product Grid Display:** Dynamically renders a flexible grid layout for showcasing products sourced from Sanity CMS.

- **Login/ Sign up :** Securely log in or sign up to access your personalized dashboard and services.



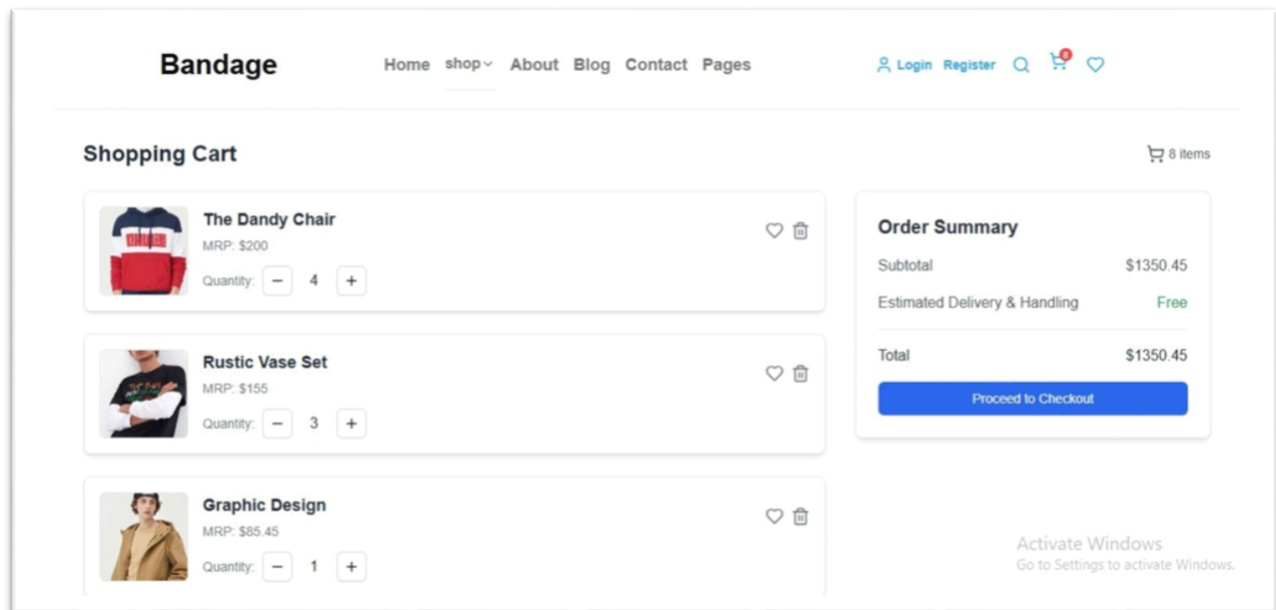
- **Notification component:** A toast notification appears briefly to inform the user that a product has been successfully added to the cart.



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Enhanced Functionalities

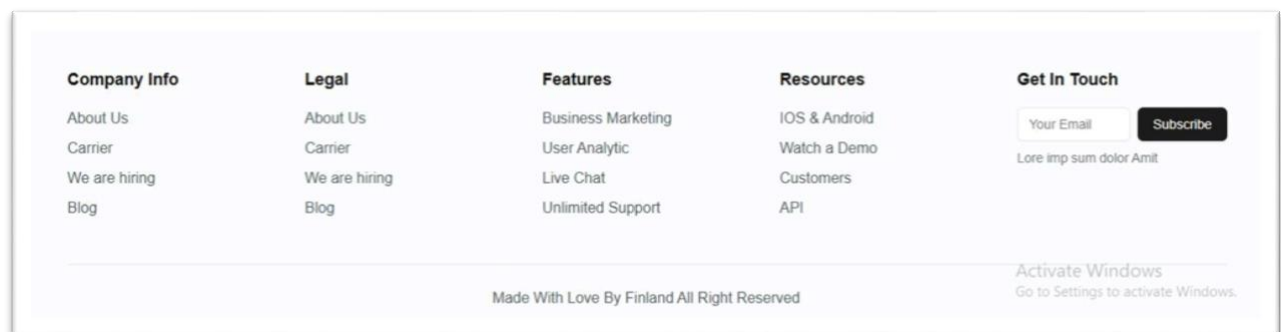
- **Streamlined Checkout Flow:** Guides users through address entry, payment method selection, and a summary of their orders.
- **Shopping Cart Page:** Showcases all selected items with options to adjust quantities and view total pricing.



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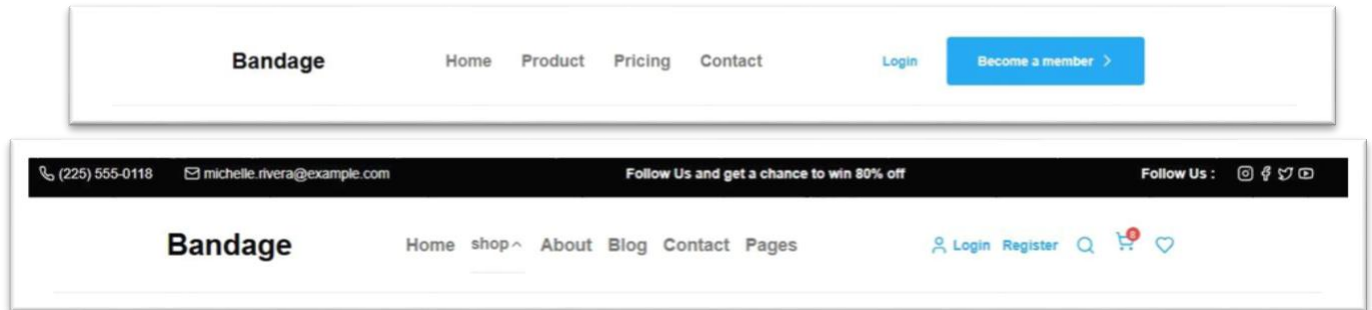
- **Wishlist Component:** Allows users to save and revisit their favorite items for future purchases, enhancing the shopping experience.

- **Site Footer:** Includes quick links to key pages, social media handles, and essential legal information.



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- **Navigation Header:** Features navigation links, a search bar, and a cart icon to ensure seamless website interaction.



Additional Enhancements

- Incorporated a **"Recommended Products"** section on product detail pages to suggest similar items based on categories and tags.
- Introduced **loading indicators** and **error-handling states** for a more user-friendly experience.
- Ensured a fully responsive design using Tailwind CSS, delivering optimal performance across devices.

Achievements

1. Developed a **dynamic product listing page** powered by Sanity CMS for real-time updates.
2. Created **individual product detail pages** with precise routing and rich product information.
3. Implemented advanced functionalities like **shopping cart management**, **streamlined checkout flow**, and a **help center**.
4. Added a **wishlist component** for users to save their favorite items.
5. Delivered a modern, responsive UI optimized for all devices.
6. Built modular, reusable components to support scalability and ease of maintenance.

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