# BUILDING DYNAMIC FRONTEND COMPONENTS FOR MARKETPLACE

## Introduction

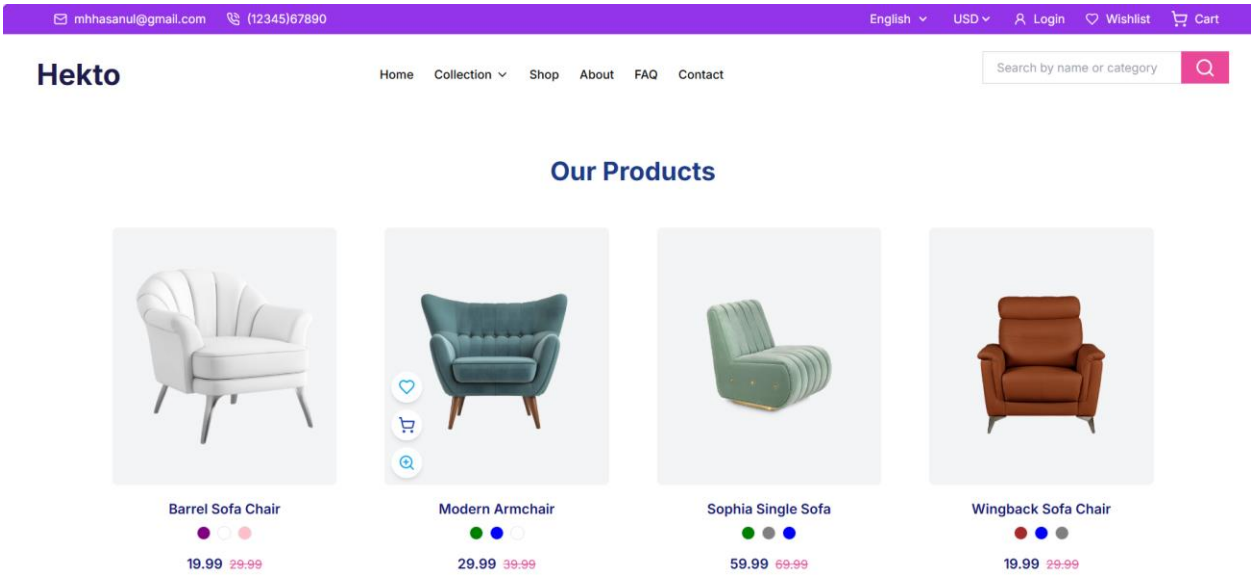
Our e-commerce platform aims to provide luxury home decor items, including vases, luxury chairs, fancy mirrors, and lamps.

On Day 4 of the hackathon, I focused on designing and developing dynamic frontend components to display marketplace data fetched from Sanity CMS or APIs. This day was about creating reusable and modular components, applying state management, and implementing responsive web designs to ensure scalability and an optimal user experience.

**Key Tasks Completed:**

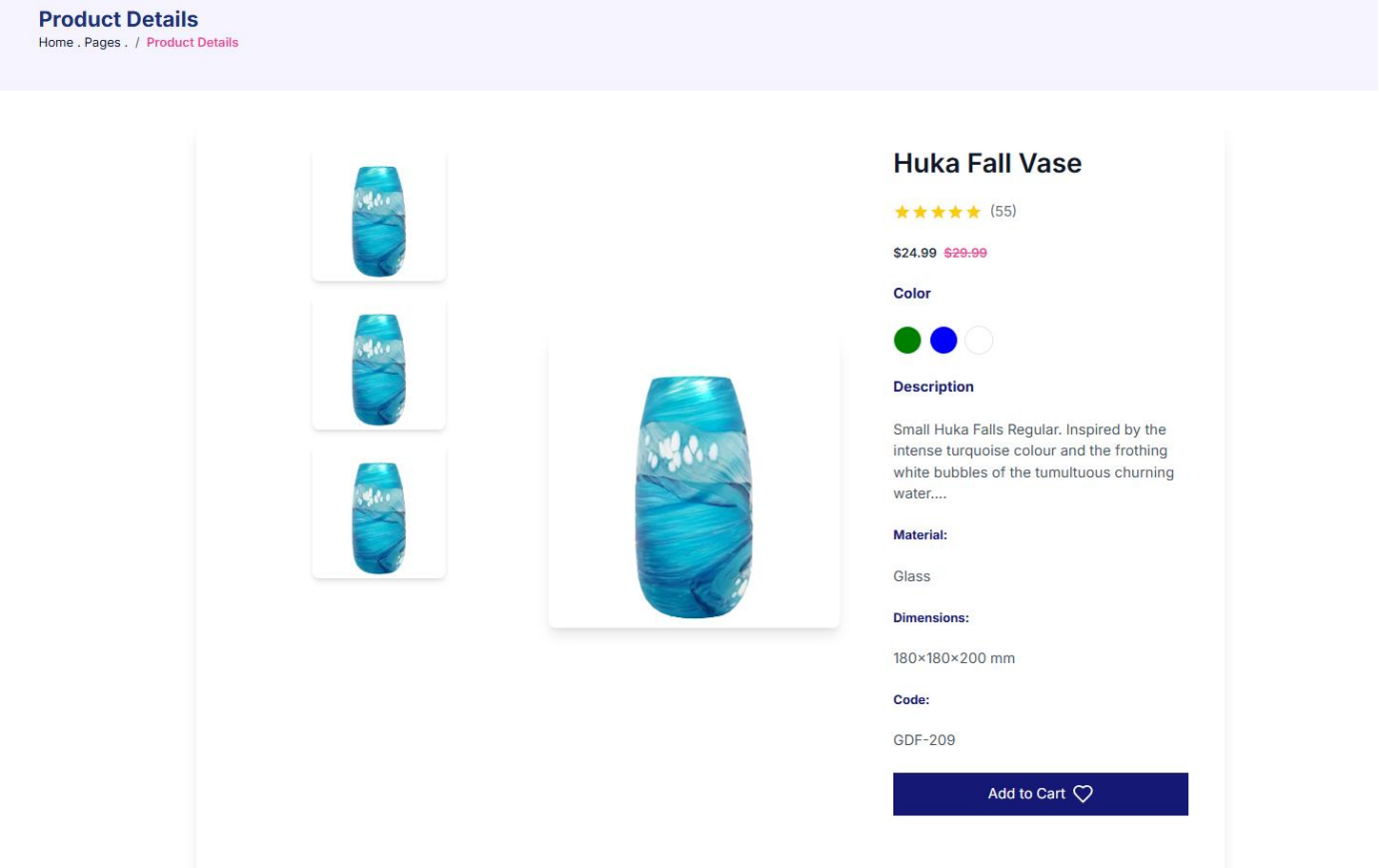
1. **Product Listing Component:**

- Dynamically rendered product data in a grid layout.
- Displayed important details like product name, price, image, and colors in card formats for an organized and easy-to-read presentation.



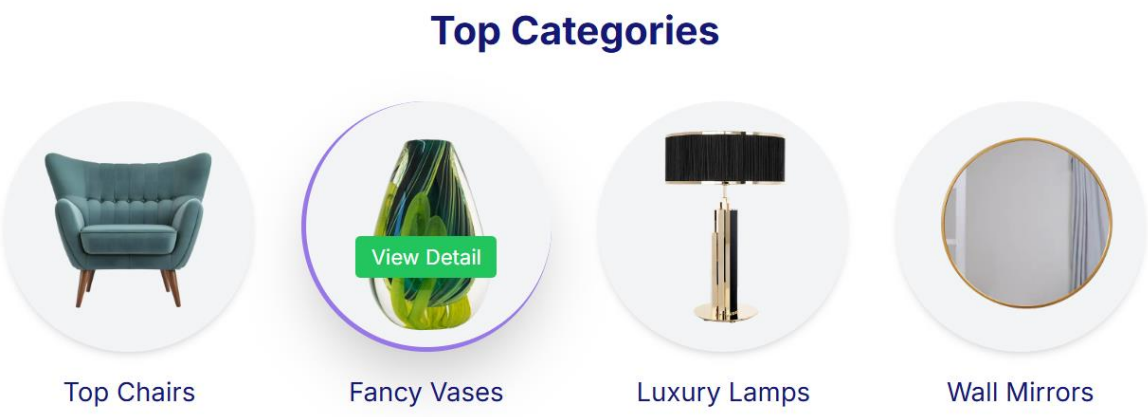
**Product Detail Component:**

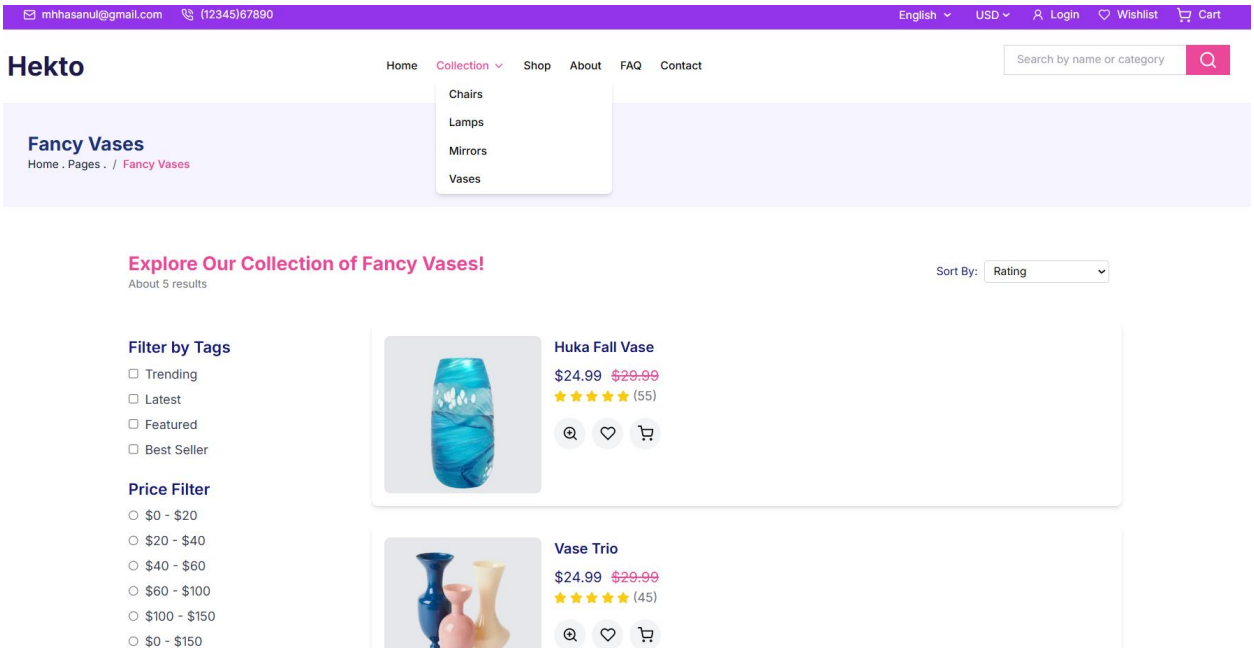
- Created individual product detail pages using dynamic routing in Next.js.
- Included fields such as product description, price, material, dimensions and available colors for a detailed view.




**Category Component:**

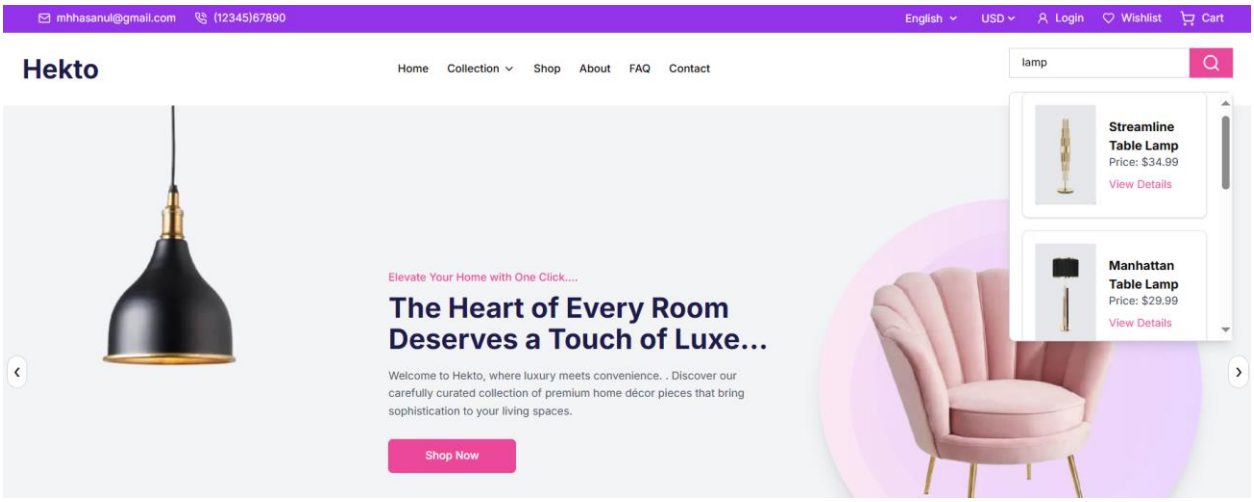
- Displayed categories dynamically fetched from the data source.
- Enabled filtering of products by selected categories, improving the browsing experience for users.





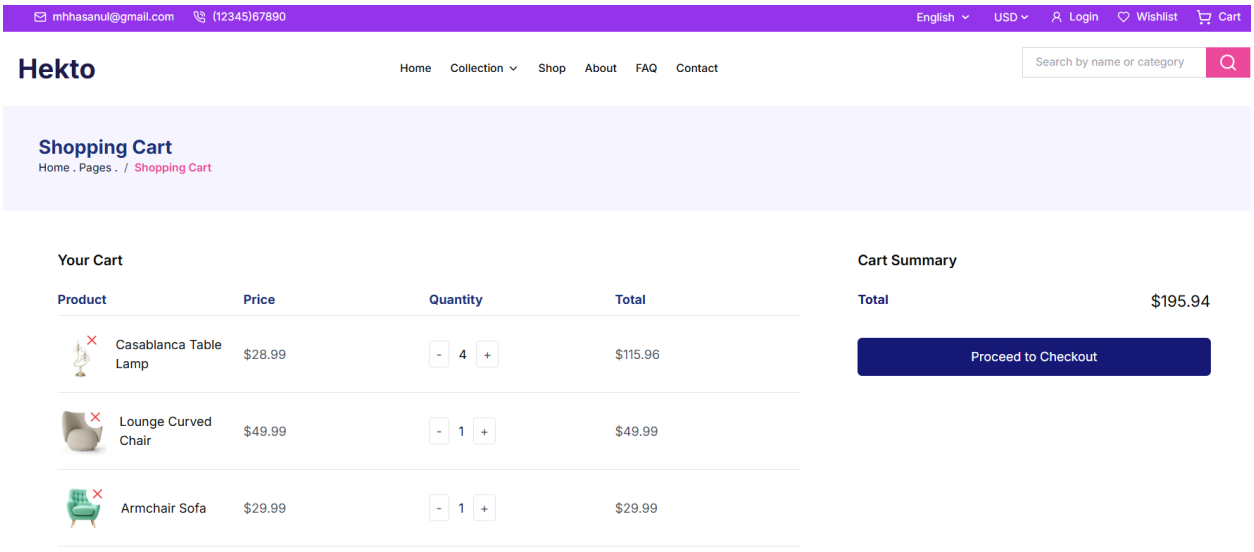

**Search Bar:**

- Implemented a search bar to filter products by name or categories, enhancing the ease of finding specific items within the marketplace.



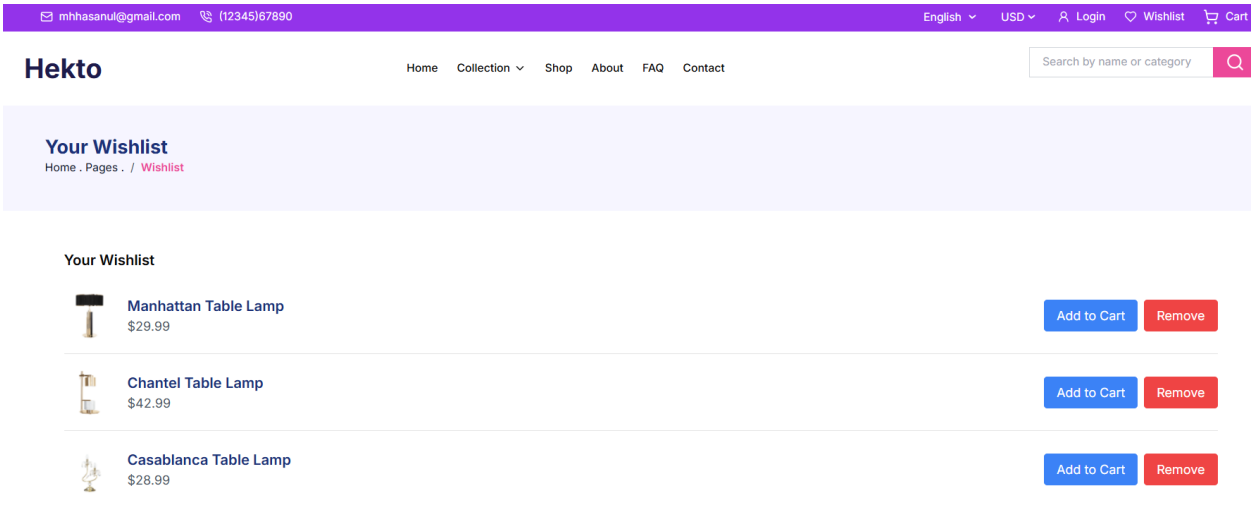
**Cart Component:**

- Built a cart component to display added items, quantities, and total price.
- Managed cart items through state management, enabling a responsive and interactive shopping cart experience.



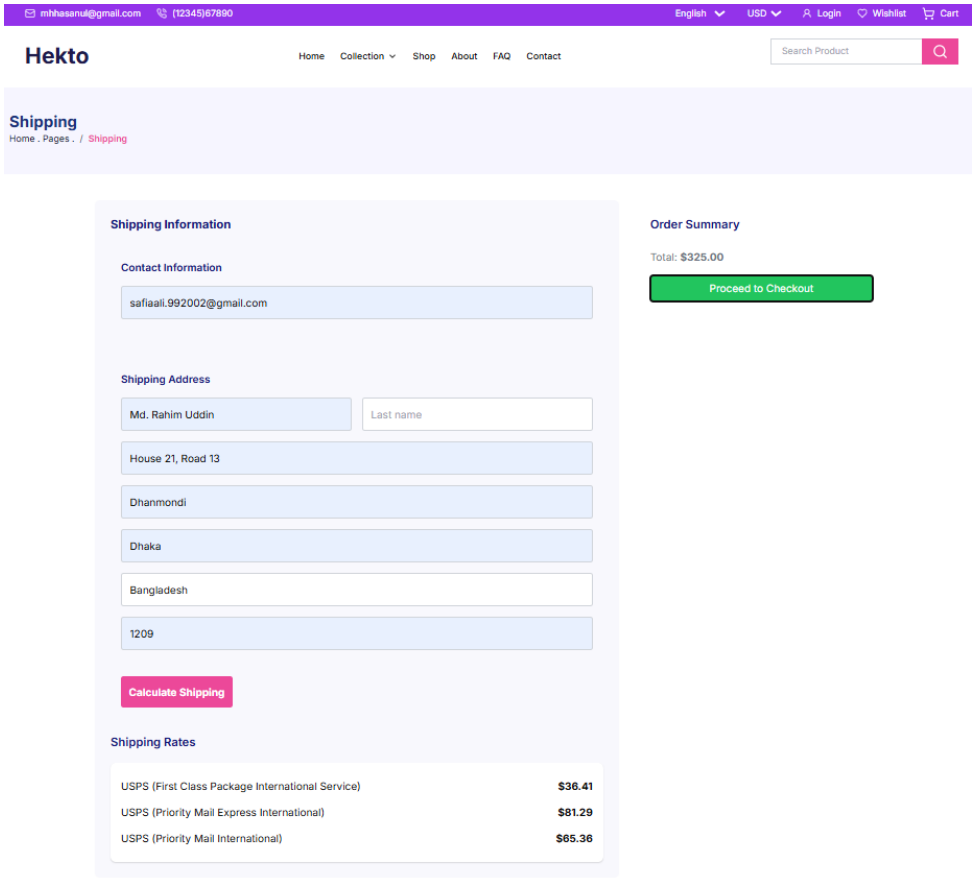

**Wishlist Component:**

- Allowed users to save products for future reference.
- Implemented local storage or global state management for persisting wishlist data across sessions.



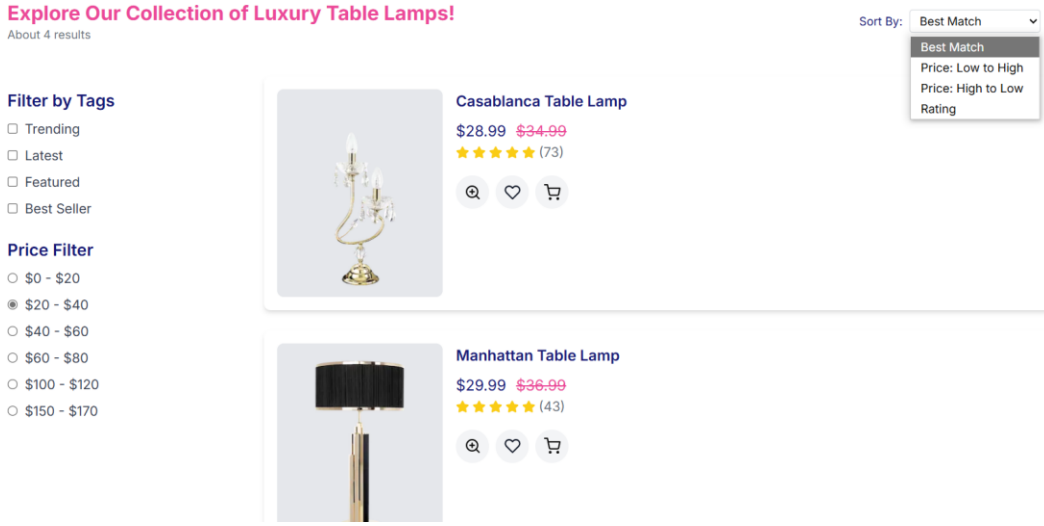
**Checkout Flow Component:**

- Developed a multi-step checkout form, including fields for billing and shipping addresses, and mock payment details for a realistic checkout process.



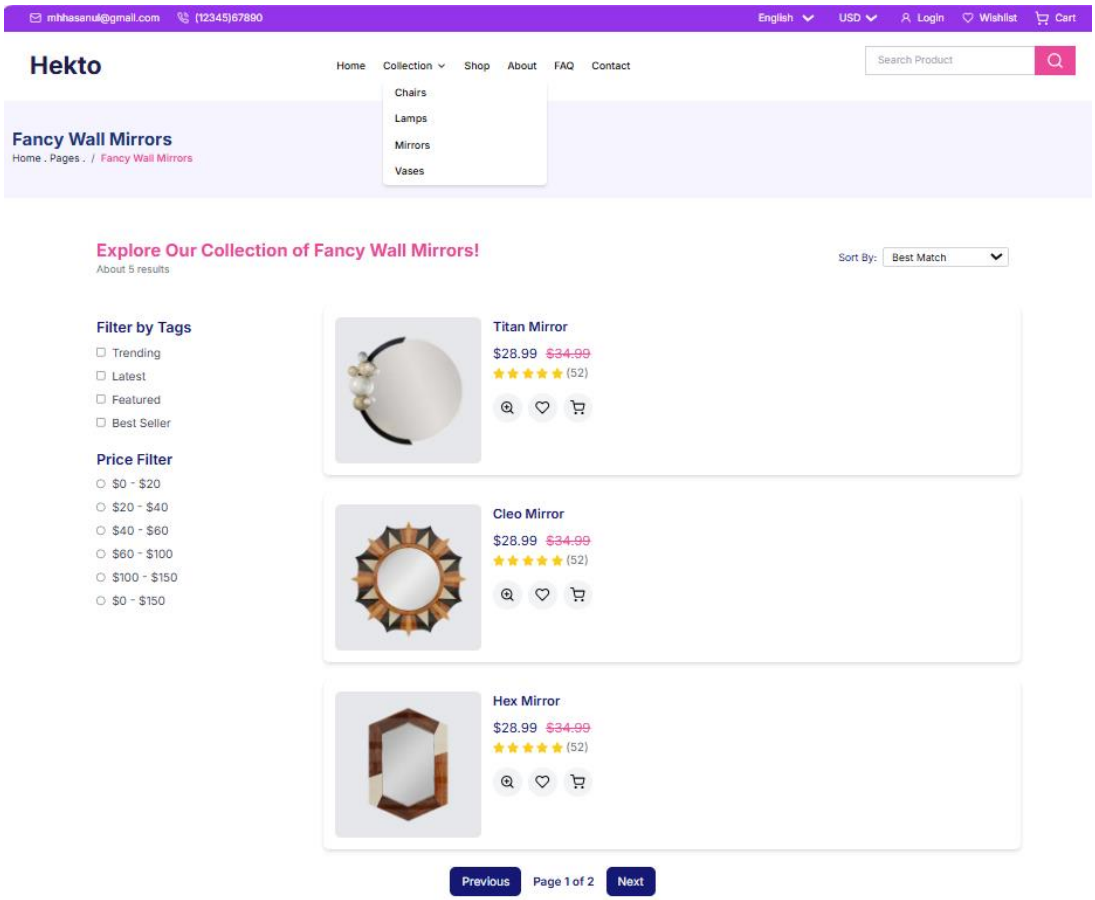

**Filter Panel Component:**

Implemented advanced filtering options, such as: Price range and Tags like trending, best seller, new arrival, Price low to high and high to low, ratings

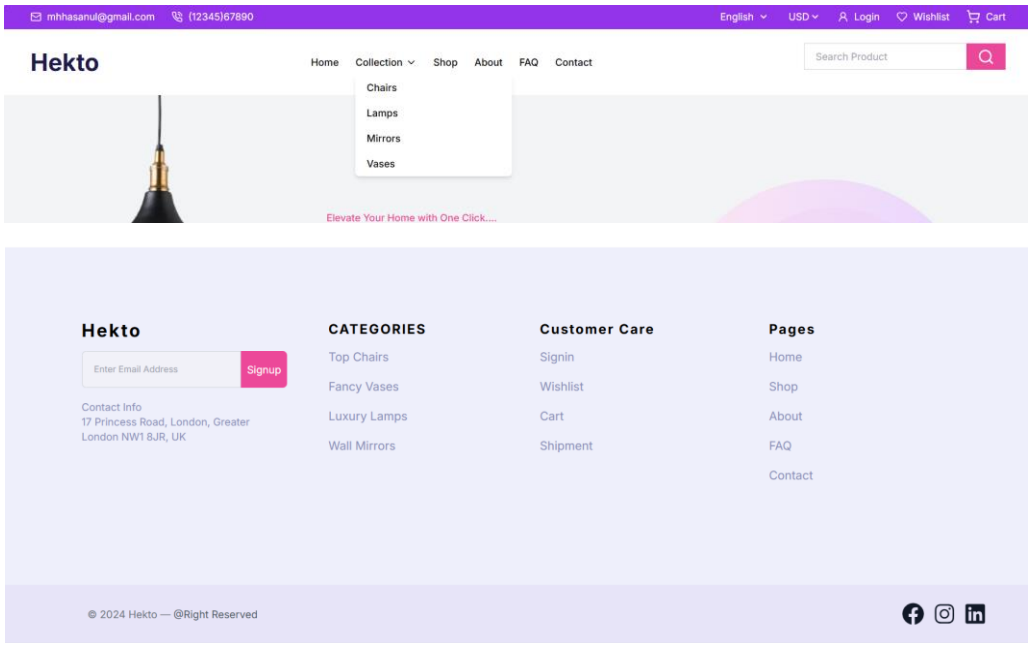


**Pagination Component:**

Implemented pagination to manage large product lists, breaking them into smaller, more manageable pages.

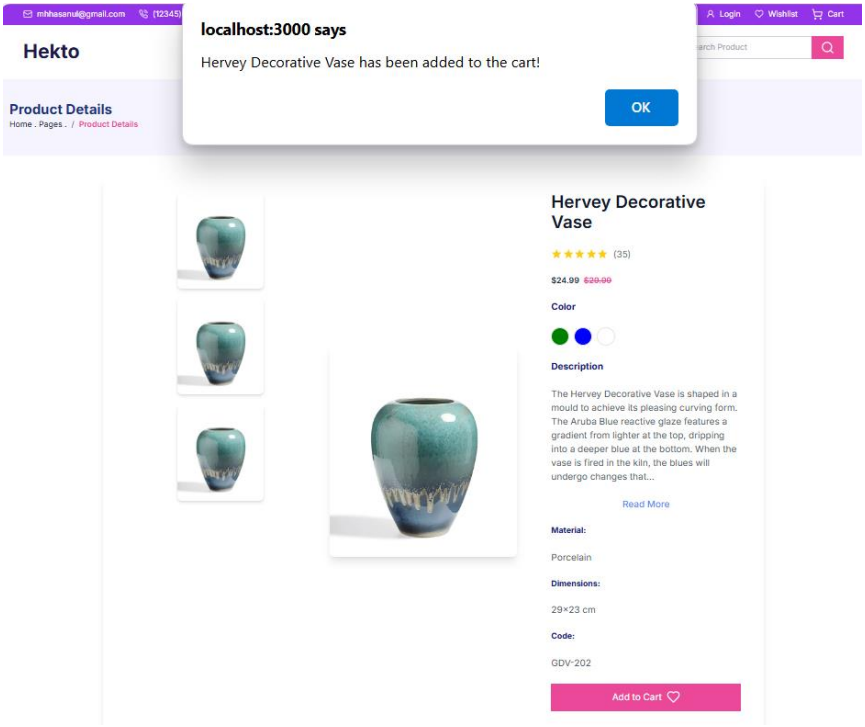



**Footer and Header Components:**

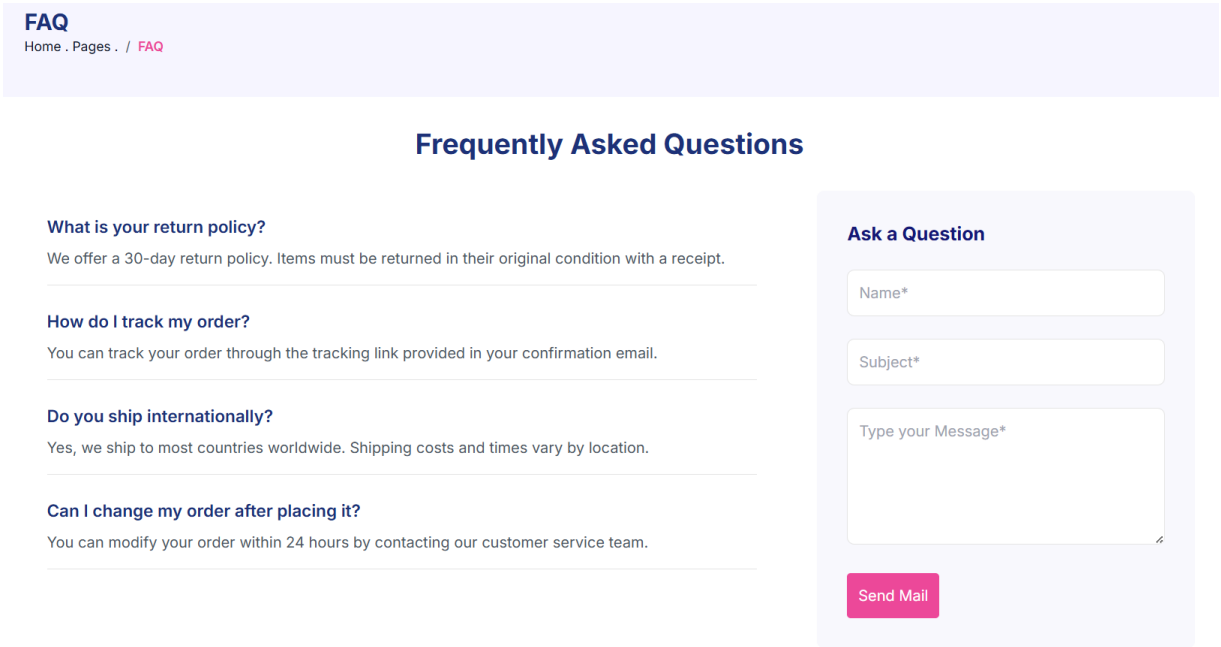


**Notifications Component:**

Created real-time notifications for actions such as adding to the cart, errors, or successful purchases.




**FAQ and Help Center Component:**



**Conclusion:**

Day 4 of the hackathon was a productive and engaging experience, where I successfully built various dynamic frontend components crucial for a scalable and user-friendly marketplace. While many components were designed with static functionality, I laid a solid foundation for future integration of dynamic features. This day allowed me to practice real-world skills such as state management, responsive design, and UX/UI principles, preparing me for future projects and client work.