Hackathon_day_4

Dynamic Frontend Components Report

Overview

This report outlines the implementation of dynamic frontend components for the marketplace, ensuring responsiveness and adherence to the specified requirements.
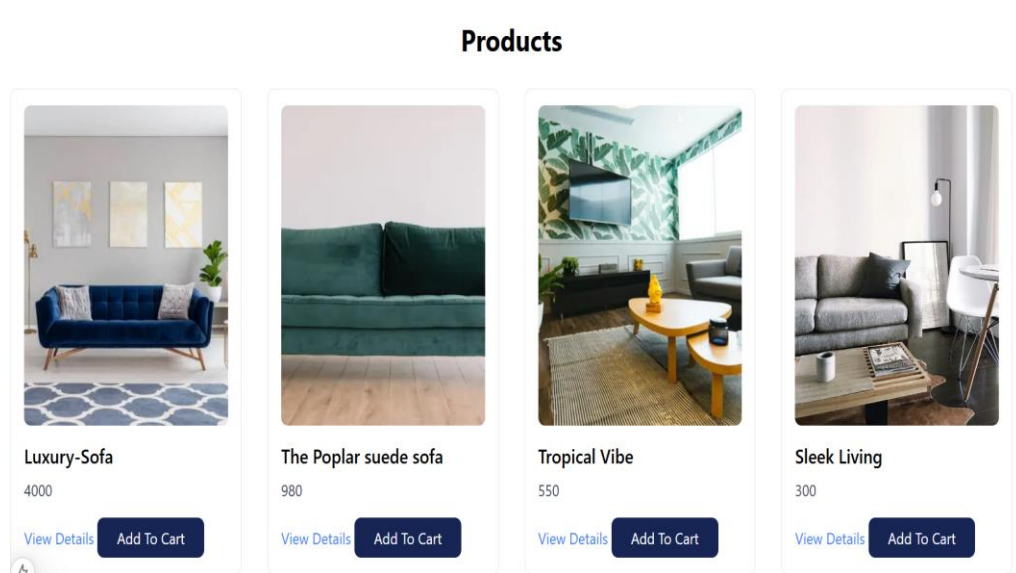
Implementation Details

1. **Responsiveness**
   - All components have been designed to be fully responsive across different screen sizes.
   - Utilized CSS Flexbox and Grid for efficient layout structuring.
   - Implemented media queries to ensure optimal display on mobile, tablet, and desktop views.

2. ## Components Implemented as per Requirements

Product Listing Component:

Displays products in a grid layout with dynamic data fetching.

Product Detail Component:

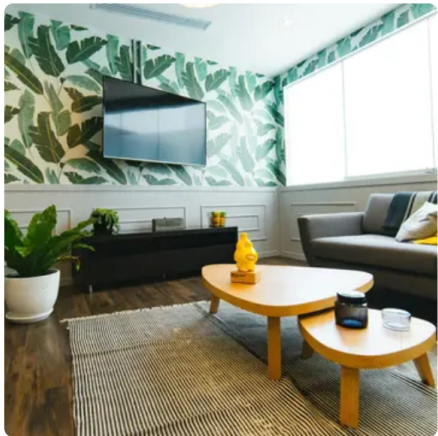Shows detailed information with dynamic routing in Next.js.

Tropical Vibe

Price: 550

A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.

Tags:

Features:
- Premium material
- Handmade upholstery
- Quality timeless classic

Dimensions:
- Height: 110cm
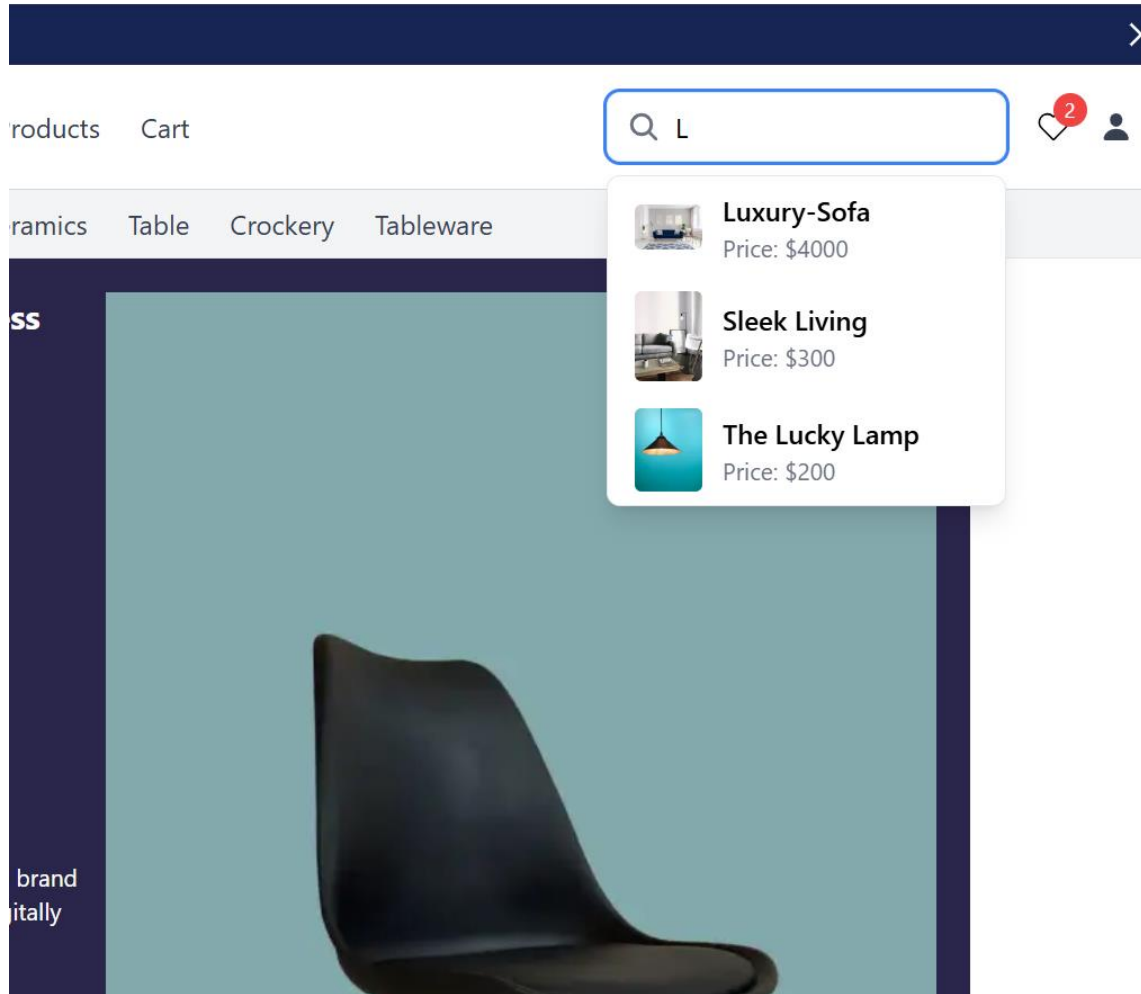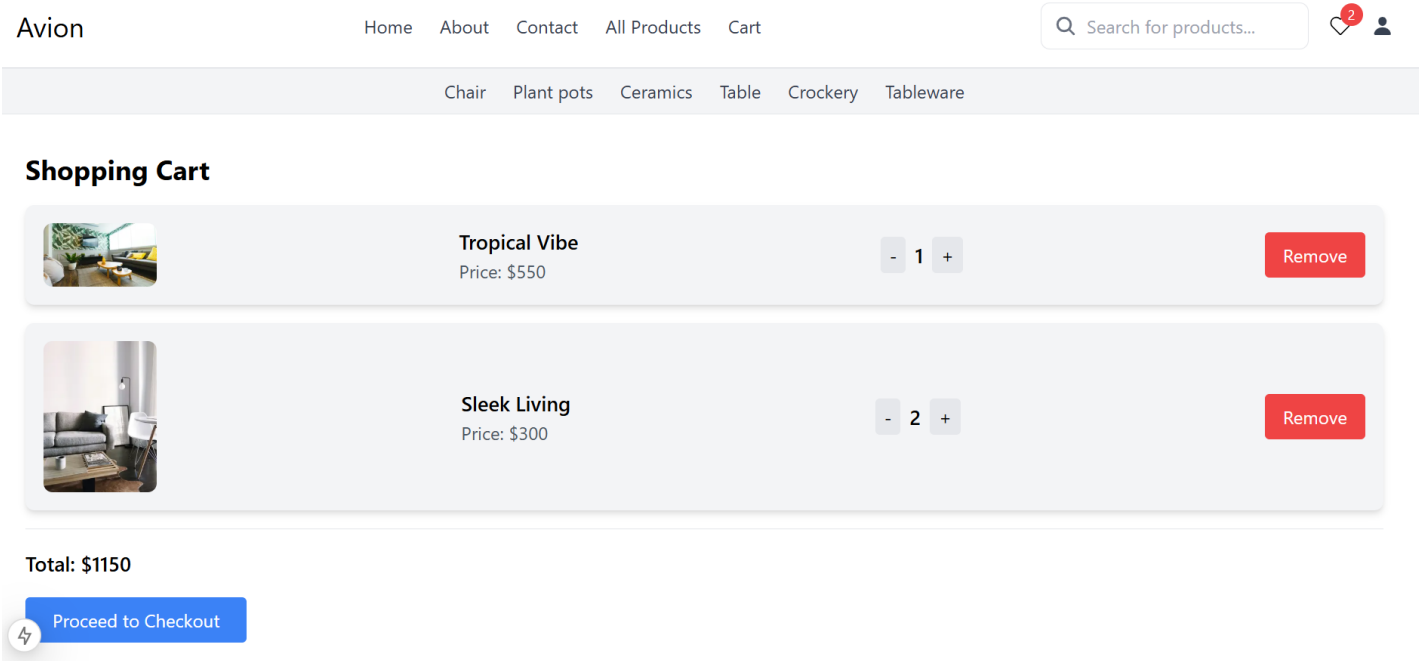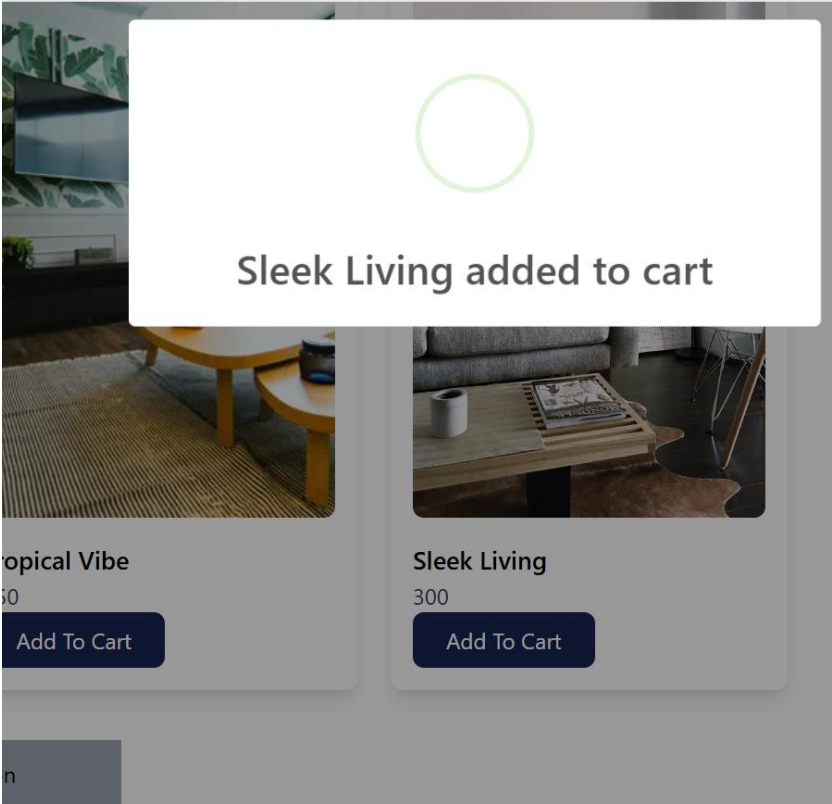- Width: 75cm
- Depth: 50cm

Quantity

1

Add to Cart   Add to Wishlist

Search Bar: Allows users to search for products using name and tags.

Cart Component: Manages added items, total price, and quantity with state management.

Sleek Living added to cart

Tropical Vibe
50
Add To Cart

Sleek Living
300
Add To Cart

Avion

Home   About   Contact   All Products   Cart

🔍 Search for products...

Chair   Plant pots   Ceramics   Table   Crockery   Tableware

Shopping Cart

Tropical Vibe
Price: $550

−   1   +   Remove

Sleek Living
Price: $300

−   2   +   Remove

Total: $1150

Proceed to Checkout

WishList Component: Saves favorite products using local storage or global state.
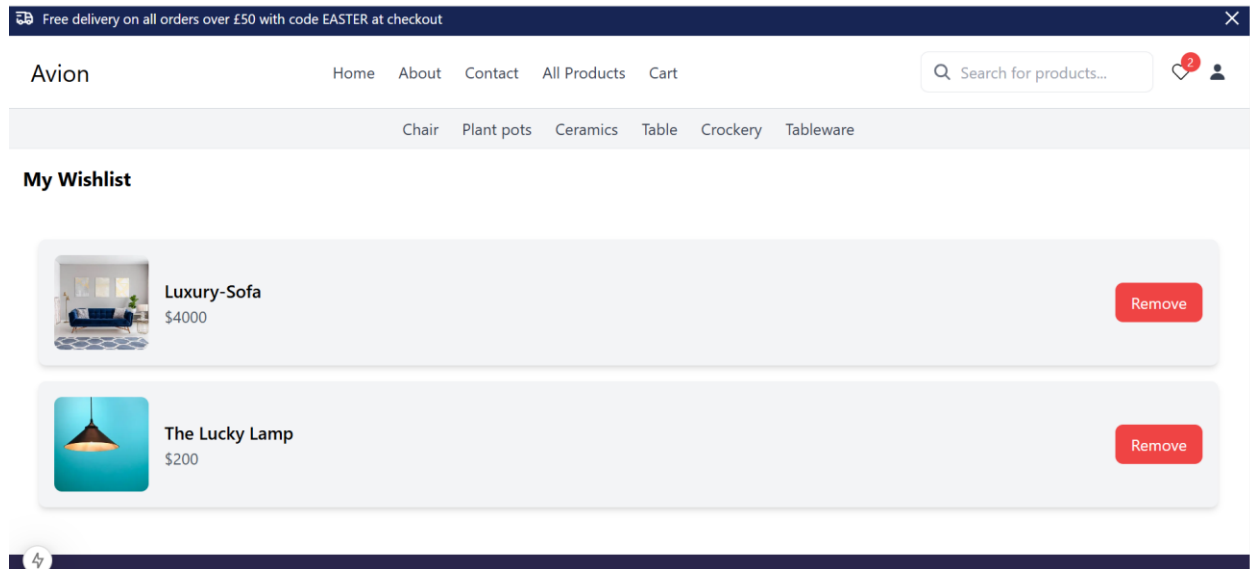
Check Out Proceed
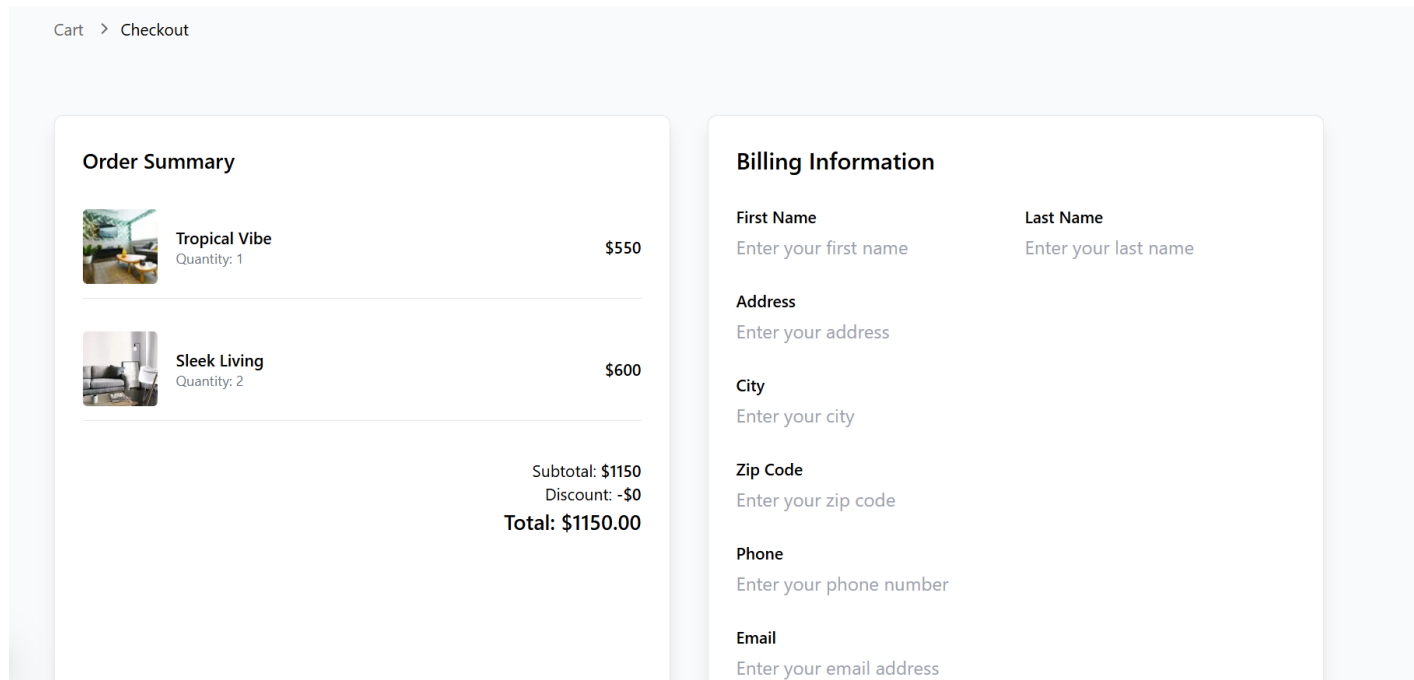
User Friendly process

Best Practices Followed

- **Modular Components:** Designed reusable UI components like `ProductCard`, `FilterPanel`, and `SearchBar`.
- **State Management:** Used React state, context API, and local storage where necessary.
- **Optimized Performance:** Implemented lazy loading for images, pagination, and API caching.
- **Clean Code & Documentation:** Ensured well-structured, readable code with inline comments and organized directories.

Conclusion

All required components have been successfully implemented with full responsiveness and adherence to the given specifications. Some placeholders have been created for future enhancements, ensuring scalability and adaptability. The project is now in a ready state for further optimizations and additional feature integrations.