

# 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

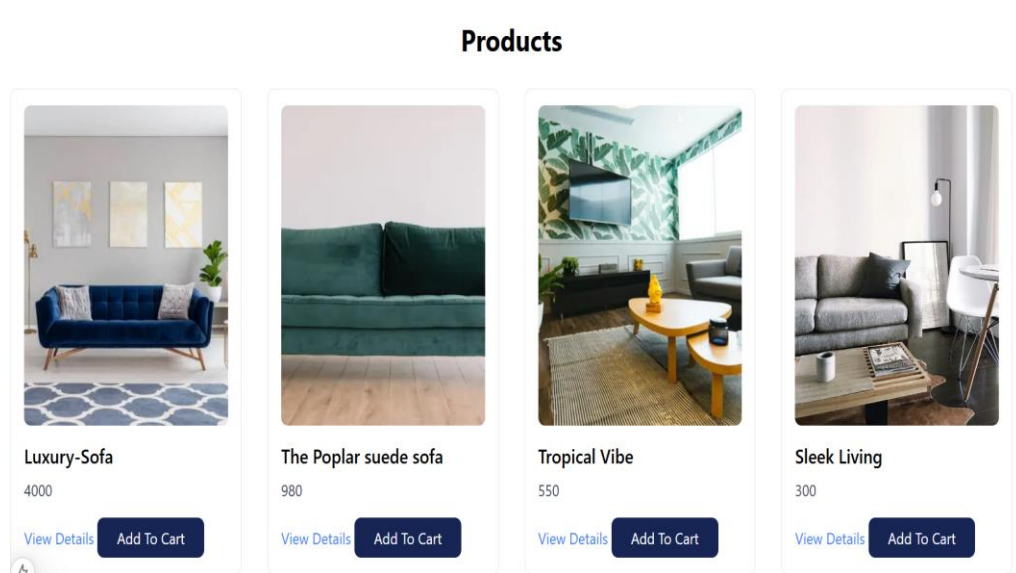
#### 1. Responsiveness

- 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.

EXPLORER

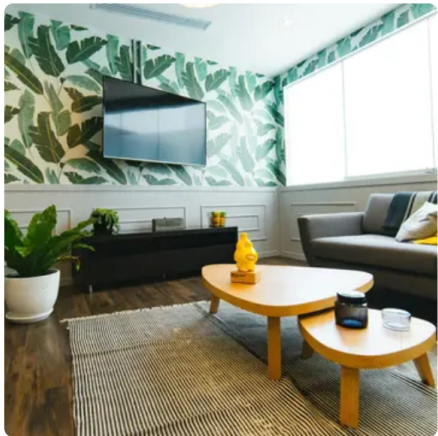
> OPEN EDITORS

UI-UX HACKATHON...

- ui-ux-hackathone
  - src
    - app
      - cart
      - checkout
      - components
      - contact
      - featureSection
      - fonts
      - hero
      - newProduct[slug]...
        - page.tsx
        - productDetails.tsx
        - pageHeaders
        - studio
        - wishList
      - favicons
      - globals.css
      - layout.tsx
      - page.tsx
      - sanity
      - types

productDetails.tsx Upage.tsx X

- 1 // newProduct/[slug]/page.tsx (Server Component)
- 2 import { client } from "@sanity/lib/client";
- 3 import { Product } from "../../types/products";
- 4 import { groq } from "next-sanity";
- 5 import ProductDetails from "../productDetails"; // Import Client Component
- 6
- 7 interface ProductPageProps {
- 8 params: { slug: string }; // Ensure params is of the correct type
- 9 }
- 10
- 11 // Function to fetch product data
- 12 async function getProduct(slug: string): Promise<Product | null> {
- 13 try {
- 14 return await client.fetch(
- 15 groq`
- 16 \*[\_type == "product" && slug.current == \$slug][0]{
- 17 \_id,
- 18 name,
- 19 \_type,
- 20 image,
- 21 price,
- 22 description,
- 23 tags[],
- 24 features[],
- 25 dimensions,
- 26 category[],
- 27 quantity,
- 28 }
- 29 );
- 30 } catch {
- 31 return null;
- 32 }
- 33 }



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

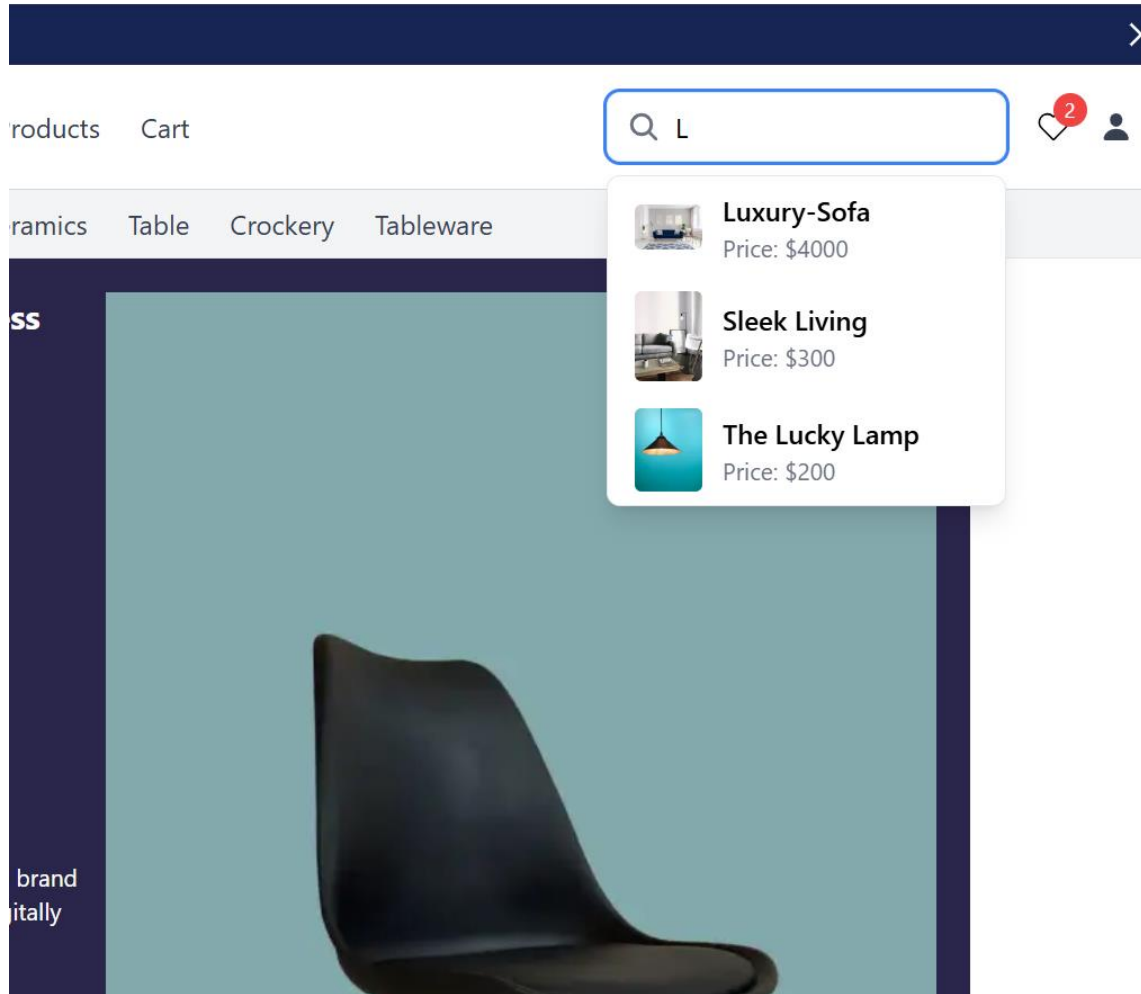
Quantity

1

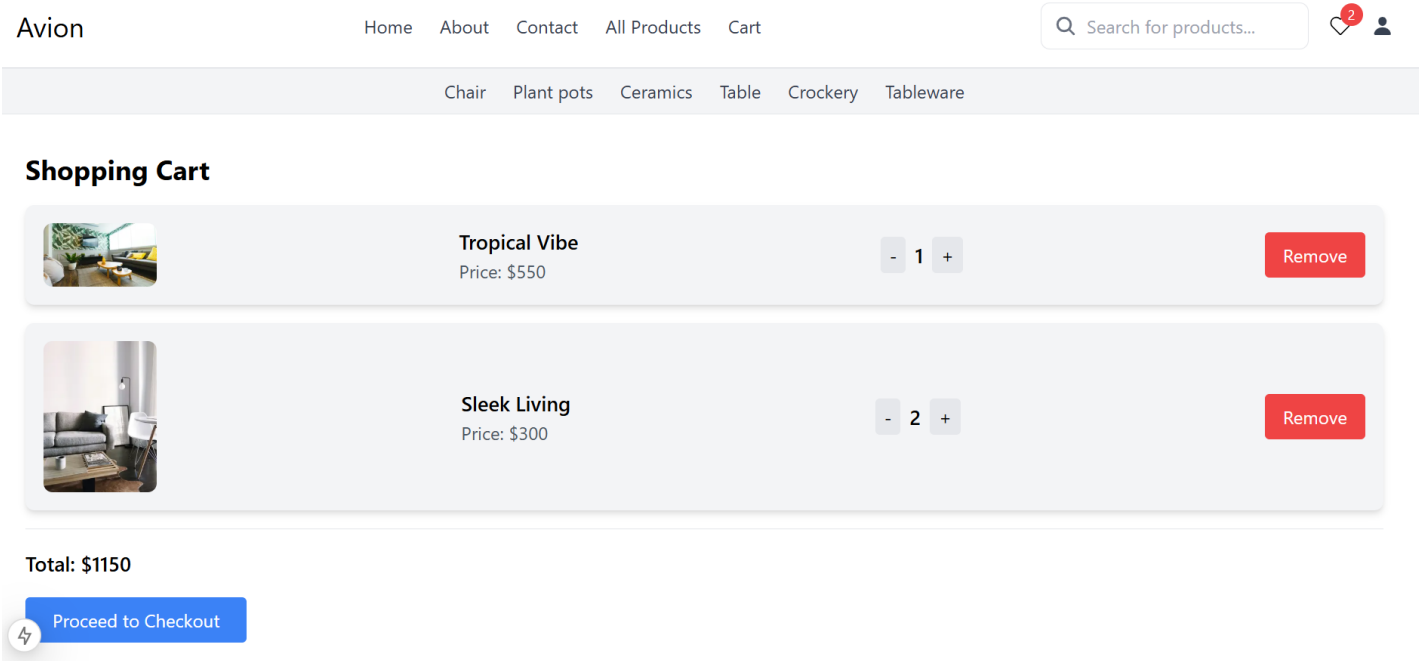
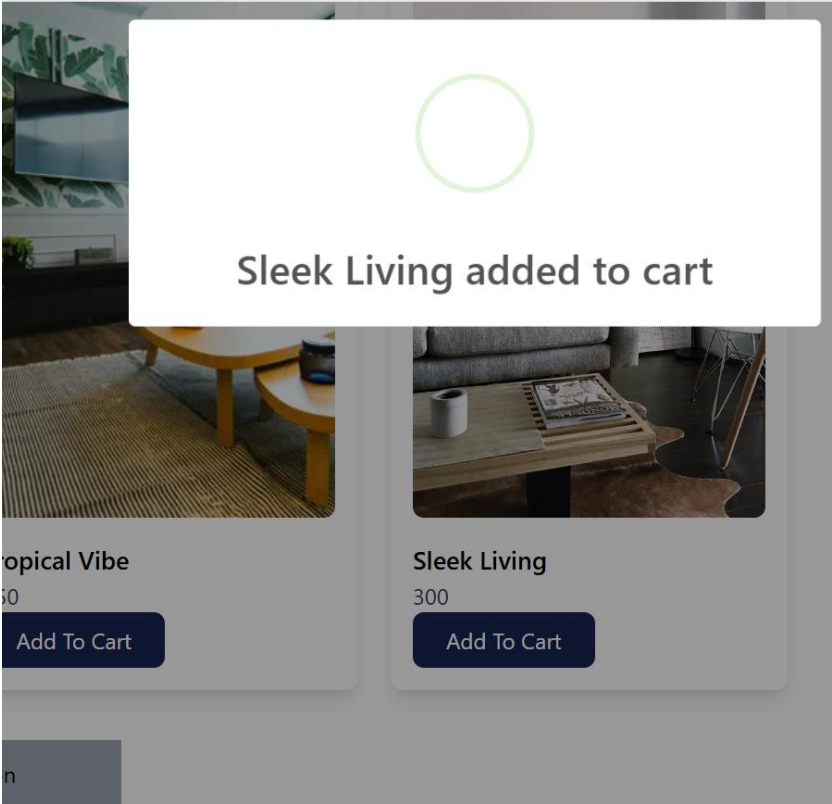
Add to Cart

Add to Wishlist

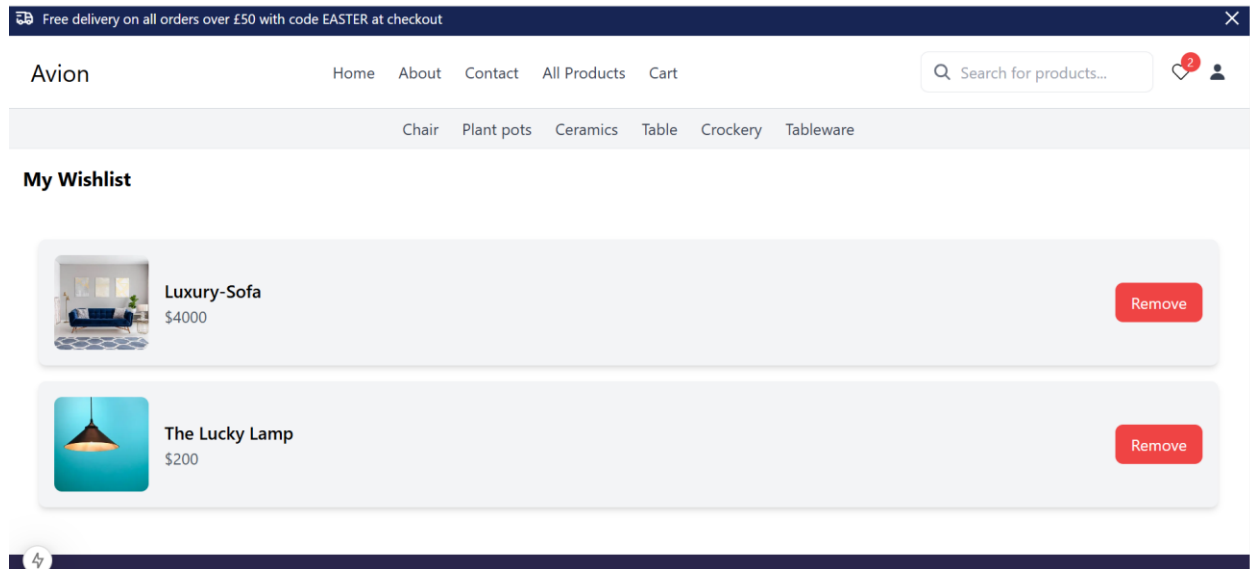
**Search Bar:** Allows users to search for products using name and tags.



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

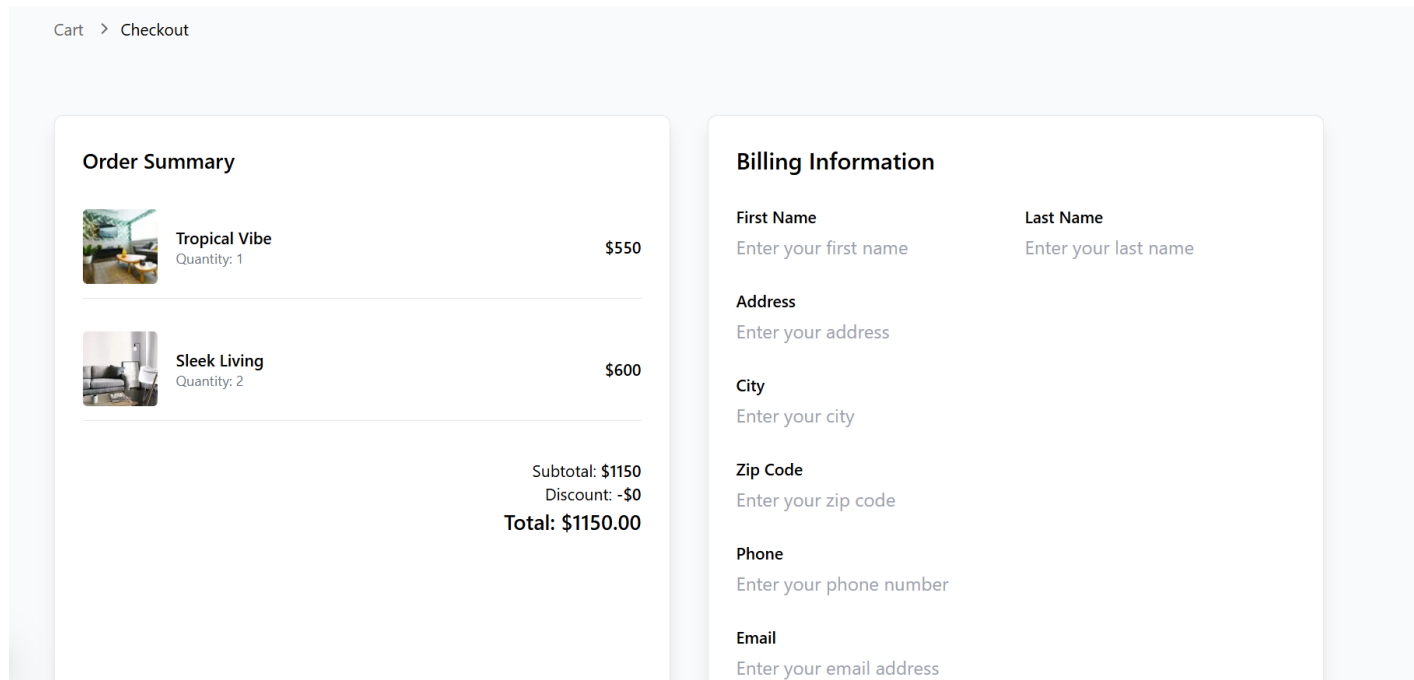


**WishList Component:** Saves favorite products using local storage or global state.



## 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.