DAY 4

Building Dynamic Frontend Component

This documentation provide the detail information about the dynamic components that i have used in my project

FUNCTIONALITIES:

1)product listing page

2)product detail page

3)user profile

4)wishlist

5)add to cart functionality

6)categories section

7)order tracking component

8)search bar

9)checkout flow component

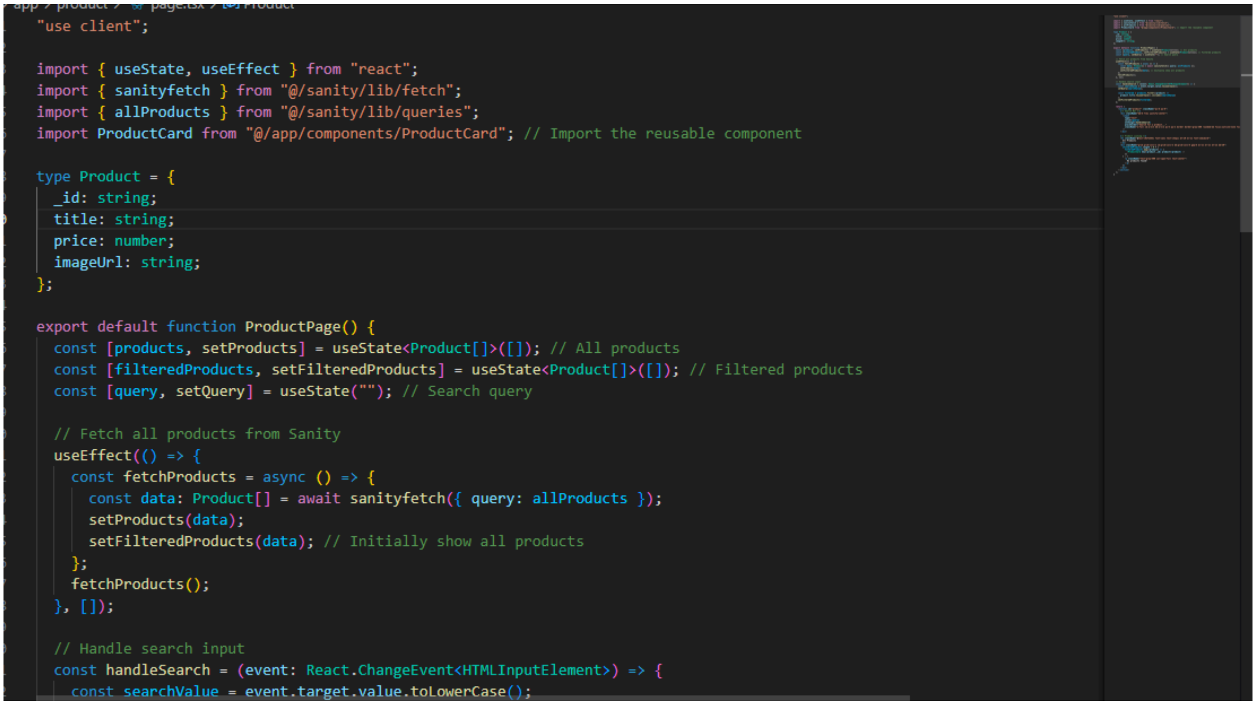
10)admin dashboard

11)login/signup page

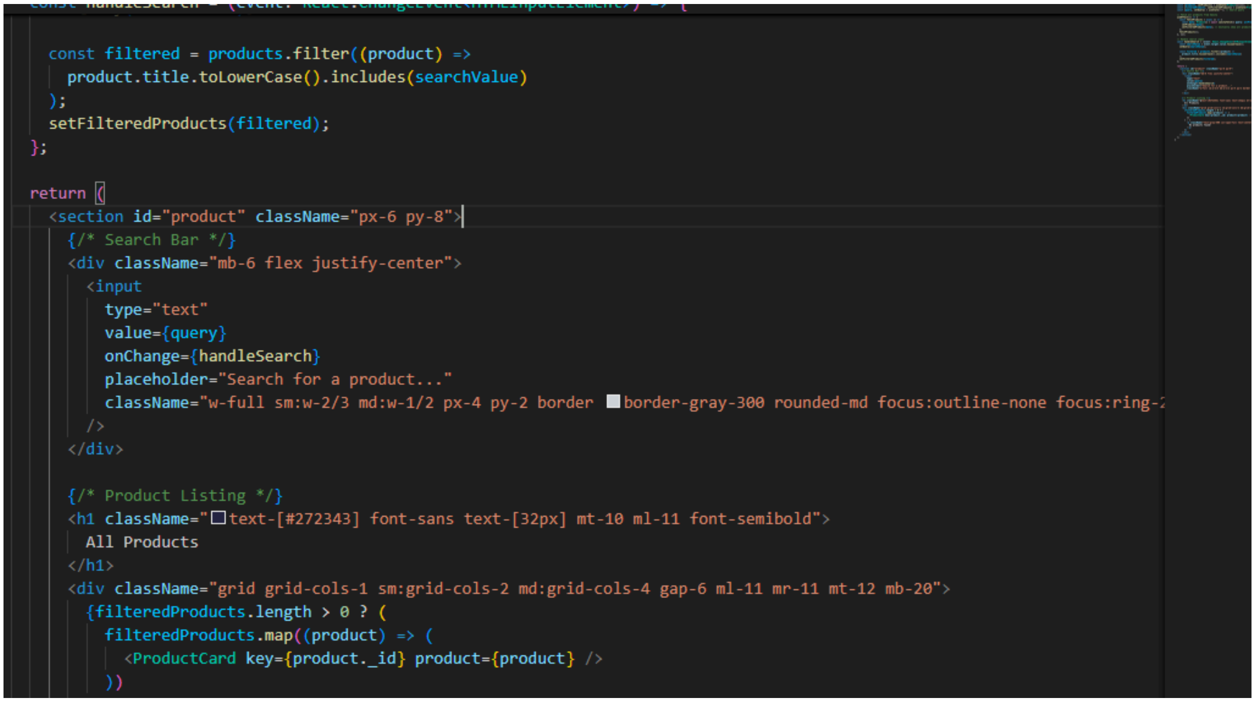
FUNCTIONALITIES IN DETAILS

Product Listing Page:

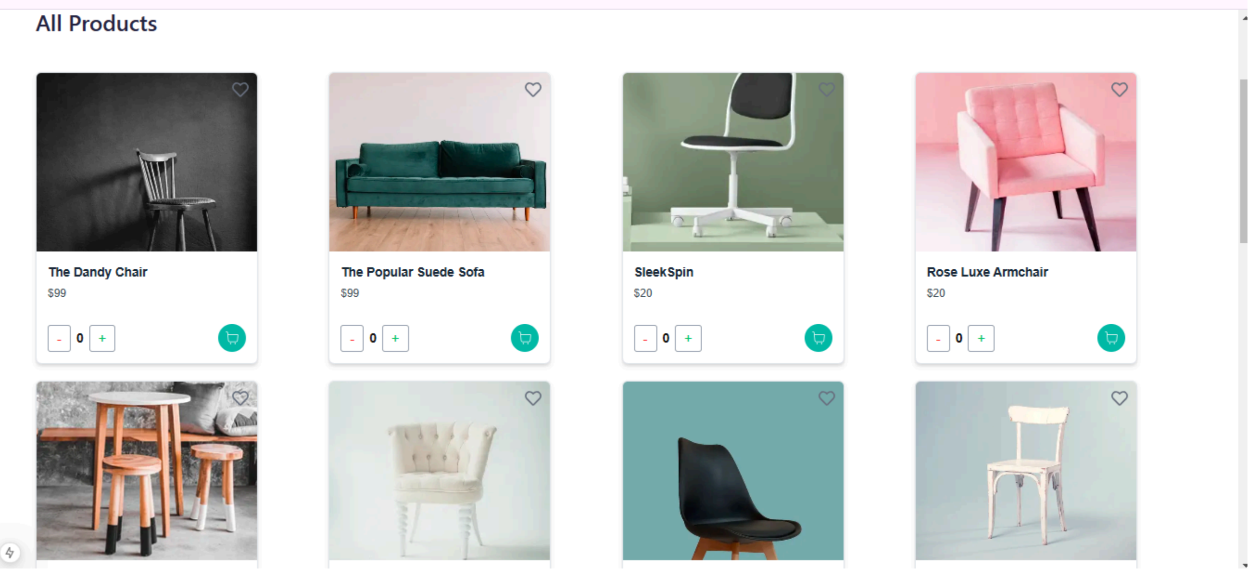
The Product Listing Page serves as the main hub where users can browse and explore all available products on the website. This page dynamically fetches product data from **Sanity CMS**, ensuring that the products displayed are always up to date. The products are presented in an organized and visually appealing format, rendered in either a grid or list layout.



```
"use client";

import { useState, useEffect } from "react";
import { sanityfetch } from "@/sanity/lib/fetch";
import { allProducts } from "@/sanity/lib/queries";
import ProductCard from "@/app/components/ProductCard"; // Import the reusable component

type Product = {
  _id: string;
  title: string;
  price: number;
  imageUrl: string;
};

export default function ProductPage() {
  const [products, setProducts] = useState<Product[]>([]); // All products
  const [filteredProducts, setFilteredProducts] = useState<Product[]>([]); // Filtered products
  const [query, setQuery] = useState(""); // Search query

  // Fetch all products from Sanity
  useEffect(() => {
    const fetchProducts = async () => {
      const data: Product[] = await sanityfetch({ query: allProducts });
      setProducts(data);
      setFilteredProducts(data); // Initially show all products
    };
    fetchProducts();
  }, []);

  // Handle search input
  const handleSearch = (event: React.ChangeEvent<HTMLInputElement>) => {
    const searchValue = event.target.value.toLowerCase();
```



```
const handleSearch = (event: React.ChangeEvent<HTMLInputElement>) => {

    const filtered = products.filter((product) =>
      product.title.toLowerCase().includes(searchValue)
    );
    setFilteredProducts(filtered);
  };

  return (
    <section id="product" className="px-6 py-8">
      {/* Search Bar */}
      <div className="mb-6 flex justify-center">
        <input
          type="text"
          value={query}
          onChange={handleSearch}
          placeholder="Search for a product..."
          className="w-full sm:w-2/3 md:w-1/2 px-4 py-2 border ■border-gray-300 rounded-md focus:outline-none focus:ring-2
        />
      </div>

      {/* Product Listing */}
      <h1 className="□text-[#272343] font-sans text-[32px] mt-10 ml-11 font-semibold">
        All Products
      </h1>
      <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-4 gap-6 ml-11 mr-11 mt-12 mb-20">
        {filteredProducts.length > 0 ? (
          filteredProducts.map((product) => (
            <ProductCard key={product._id} product={product} />
          ))
```



All Products

The Dandy Chair
$99

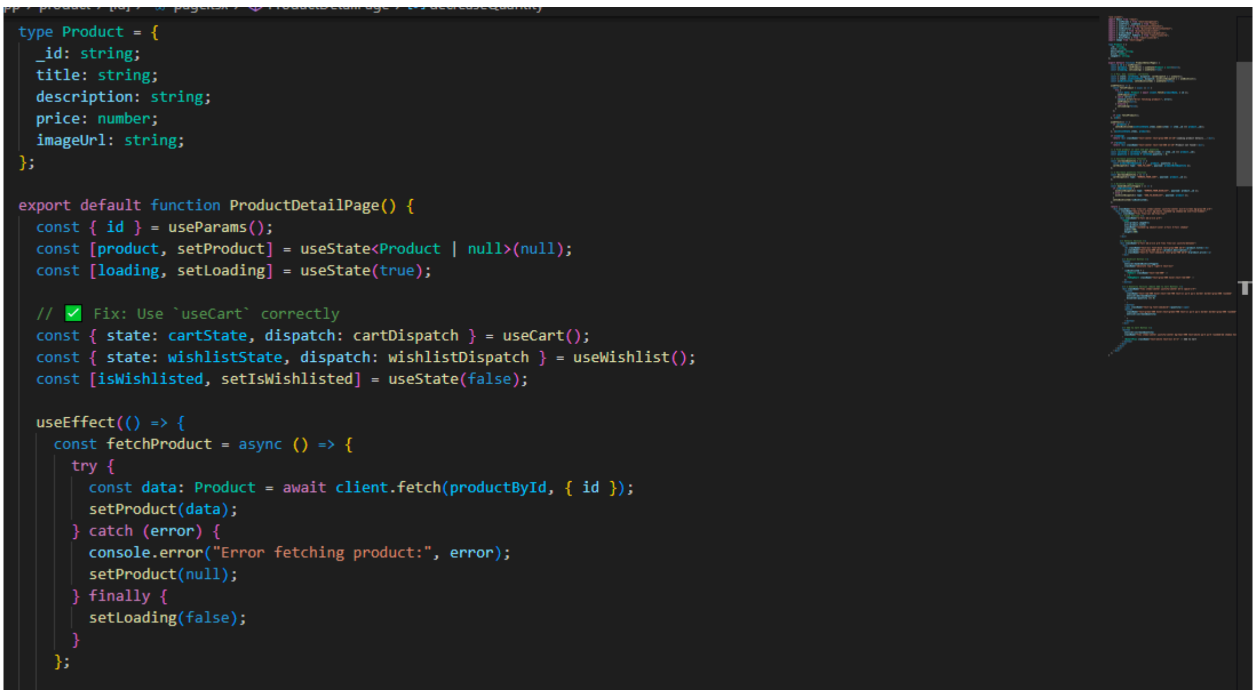
The Popular Suede Sofa
$99

SleekSpin
$20

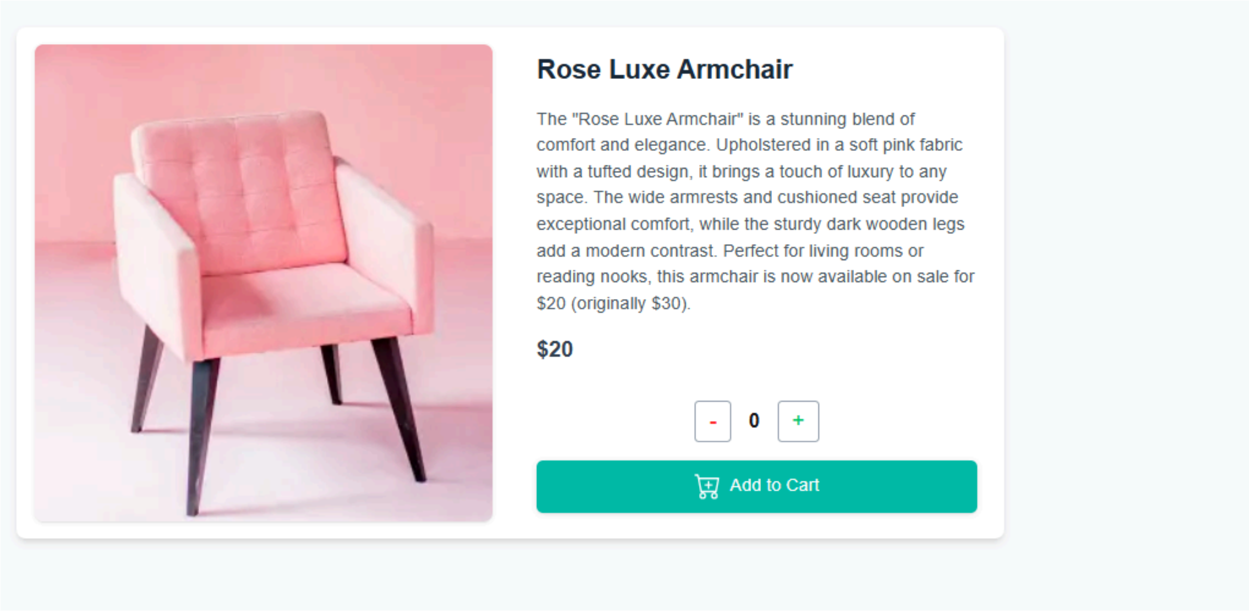
Rose Luxe Armchair
$20

Product Detail Page:

The Product Detail Page is a key section of the website where users can view in-depth information about a particular product. This page dynamically fetches detailed product data from Sanity CMS, including product images, descriptions, pricing, specifications, and availability. The page is designed to provide a seamless user experience with easy-to-navigate layouts and responsive design to ensure compatibility across devices. Users can also add the product to their cart or wishlist directly from this page, enhancing the overall shopping experience.



```
type Product = {
  _id: string;
  title: string;
  description: string;
  price: number;
  imageUrl: string;
};

export default function ProductDetailPage() {
  const { id } = useParams();
  const [product, setProduct] = useState<Product | null>(null);
  const [loading, setLoading] = useState(true);

  // ✅ Fix: Use `useCart` correctly
  const { state: cartState, dispatch: cartDispatch } = useCart();
  const { state: wishlistState, dispatch: wishlistDispatch } = useWishlist();
  const [isWishlisted, setIsWishlisted] = useState(false);

  useEffect(() => {
    const fetchProduct = async () => {
      try {
        const data: Product = await client.fetch(productById, { id });
        setProduct(data);
      } catch (error) {
        console.error("Error fetching product:", error);
        setProduct(null);
      } finally {
        setLoading(false);
      }
    };
```



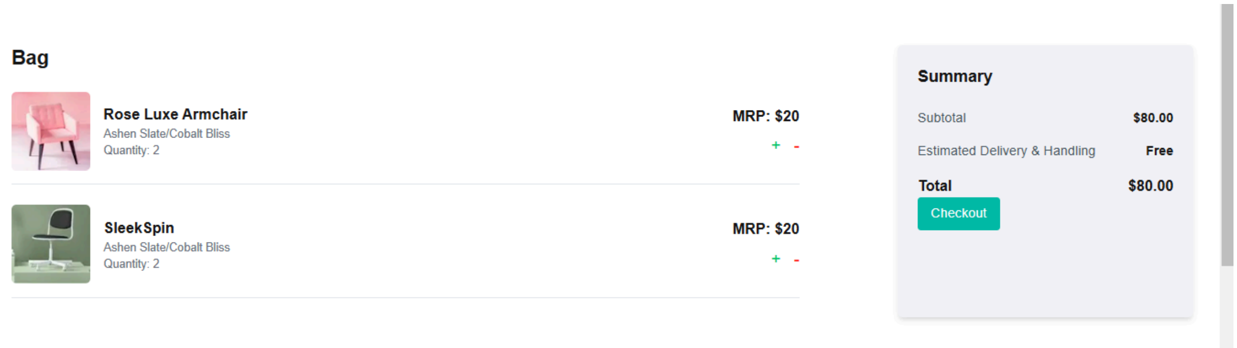
Rose Luxe Armchair

The "Rose Luxe Armchair" is a stunning blend of comfort and elegance. Upholstered in a soft pink fabric with a tufted design, it brings a touch of luxury to any space. The wide armrests and cushioned seat provide exceptional comfort, while the sturdy dark wooden legs add a modern contrast. Perfect for living rooms or reading nooks, this armchair is now available on sale for $20 (originally $30).

$20

Cart Functionality:

The Cart Component is integral to the shopping experience, allowing users to view and manage their selected items before checkout.



Bag

Rose Luxe Armchair
Ashen Slate/Cobalt Bliss
Quantity: 2
MRP: $20

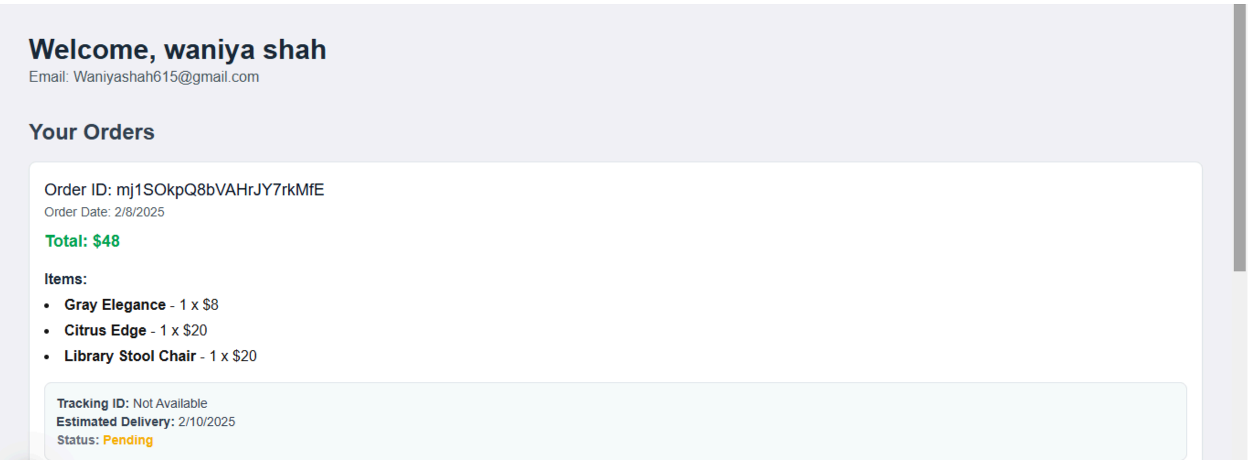
SleekSpin
Ashen Slate/Cobalt Bliss
Quantity: 2
MRP: $20

Summary

Subtotal	$80.00
Estimated Delivery & Handling	Free
Total	$80.00

User Profile Component:

The User Profile page serves as a personalized dashboard where users can view their account details and manage preferences. In this section, users can exclusively view their **order history**, allowing them to track past purchases and check order statuses.



Welcome, waniya shah

Email: Waniyashah615@gmail.com

Your Orders

Order ID: mj1SOkpQ8bVAHrJY7rkMfE

Order Date: 2/8/2025

Total: $48

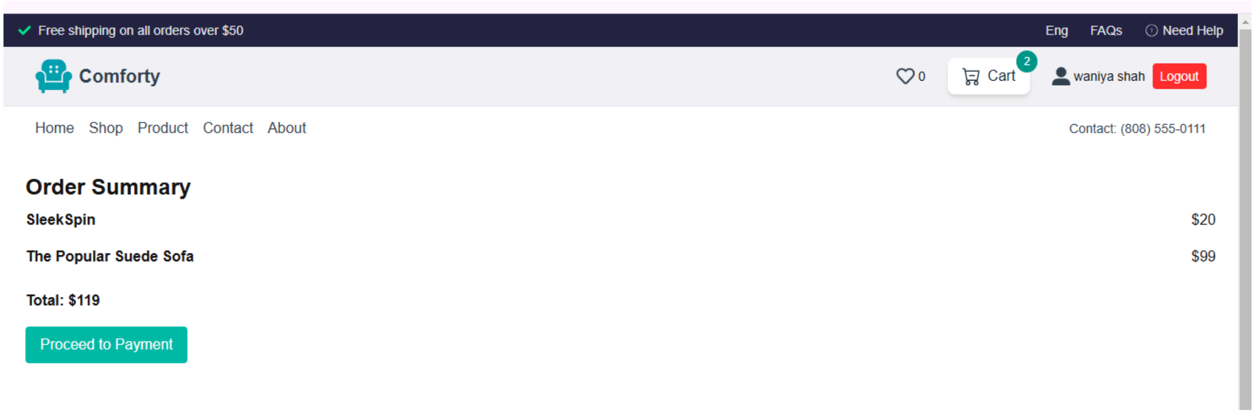
Items:

- **Gray Elegance** - 1 x $8
- **Citrus Edge** - 1 x $20
- **Library Stool Chair** - 1 x $20

Tracking ID: Not Available
Estimated Delivery: 2/10/2025
Status: Pending

Checkout Component:

The Checkout page is the final step of the shopping journey, allowing users to review their order and complete the purchase. The page is designed with user-friendliness in mind, offering a clear and concise summary of the items in the cart, shipping information, and payment options.



Order Summary

SleekSpin	$20
The Popular Suede Sofa	$99

Total: $119

Conclusion:

The website offers a seamless and user-friendly shopping experience, with an intuitive interface and easy navigation. The **Product Listing Page** allows users to explore a wide range of products displayed dynamically from **Sanity CMS**, providing them with various sorting and filtering options. The **Product Detail Page** gives users in-depth information about individual products, while the **Cart Component** and **Wishlist** functionality—powered by Context—ensures that users can easily manage their selections.

The **Checkout process** is simple and clear, guiding customers effortlessly from the cart to final payment. The **User Profile Page** enables users to view their order history, enhancing personalization and customer satisfaction.

Furthermore, the site is fully responsive, ensuring compatibility across devices, from desktops to mobile phones. Each component of the site has been designed with the end-user in mind, ensuring an engaging and streamlined experience for all.