# Day 4 - Building Dynamic Frontend Components for Your Marketplace

#### **OVER VIEW**

On Day 4 is all about how to design and develop dynamic frontend components for displaying marketplace data fetched from Sanity CMS or APIs. The focus will be on creating modular, reusable components that ensure scalability and responsiveness. Practical techniques for integrating real-world data into web applications will be emphasized. This day will equip students with essential skills for building dynamic, data-driven user interfaces.

#### Built in the Following Key Components;

- 1- Product Listing Component:
- 2- Product Detail Component:
- 3- Cart Component:
- 4- Wishlist Component:
- 5- Footer and Header Components
- 6- Category Component:
- 7- Checkout Flow Component:

## **Product Listing Component:**

The Product Listing Component integrates data from a provided API into Sanity, dynamically fetching product details for the production page. It features a reusable ProductInCard component for individual product display and an AllProductsPage to show the full catalog. This setup ensures a smooth, responsive, and up-to-date product listing experience.

```
import Navbar trom "../components/Navbar/page";
import Footer from "../components/Footer/page";
∨ app
                           7 import ProductCard from "../components/ProductCard/page";
                               type Product = {
  > Footer
                         10
11
                                 _id: string;
title: string;

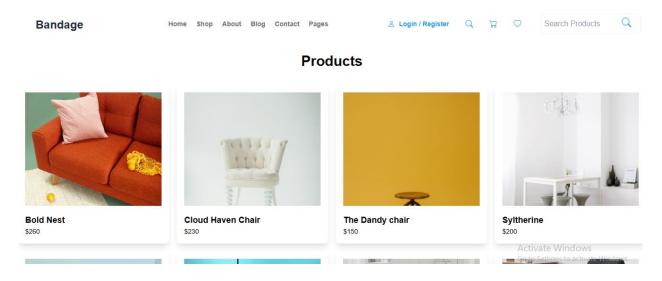
→ Furniture

  page.tsx
                                  description: string;
  > Futured
                         13
                                  price: number;
                                  productImage: {
  > Hero
                         15
16
                                   asset: {
url: string;
  ∨ Navbar
  page.tsx

∨ ProductCard

                         18
  page.tsx
                         19
                                 tags: string[]; // Available sizes/colors
stockStatus: "In Stock" | "Out of Stock";
                         20
21
  > products-Card
                               };
  > SearchBar
                         22
  > Topheader
                               export default async function Home() {
    const products: Product[] = await sanityFetch({ query: allproducts });
                         23
  > Universe
  > Wishlist
                         25
26
27
  > WishlistPopup
 > fonts
                                    <div>
 ∨ product
                         28
                                      <Topheader />
 ∨ [id]
                                      <h1 className="text-center text-3xl font-bold my-8">Products</h1>
   page.tsx
                                       <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-4">
 page.tsx
```

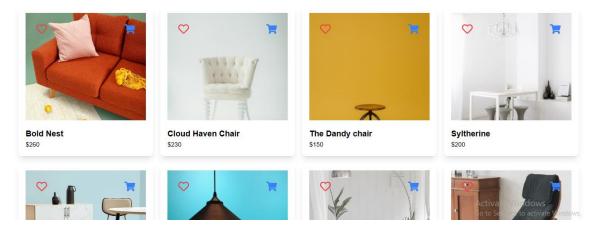
VS code of all products fetched in to the shop page and components



#### Selected Components render on main page

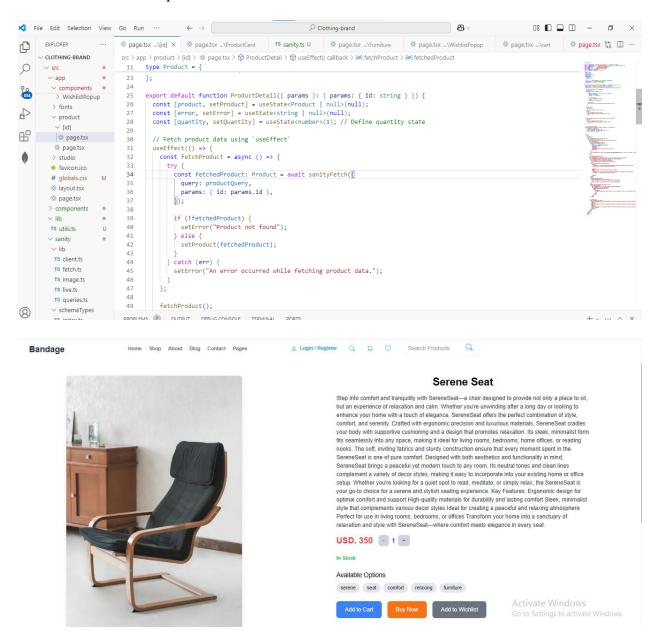
#### FURNITURE

A Wide Range Of House Hold Furniture



# **Product Detail Component:**

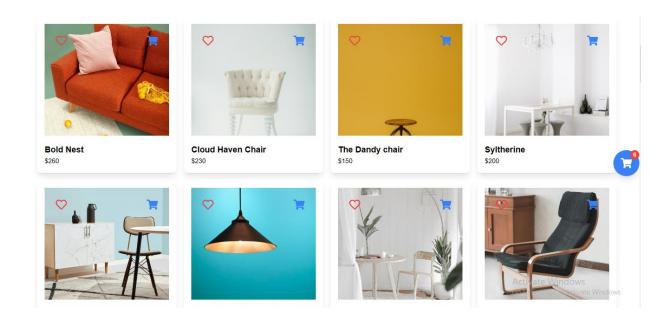
The Product Detail Component is built with dynamic routing, allowing users to click on a product image from the homepage or the all-products page and be redirected to a detailed product view. This component displays key product information, including the product name, description, price, stock availability, and interactive buttons for adding to the cart, making a purchase, or adding to the wishlist. The dynamic routing ensures a seamless transition and personalized experience for users. The component is designed to provide a comprehensive and user-friendly interface for product interaction. This approach enhances the overall shopping experience by delivering all essential details in one place.

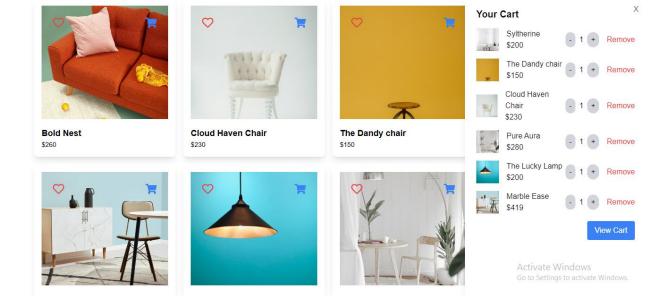


### **Cart Component:**

The Cart Component allows users to easily add, view, and manage products in their cart. The Cart icon is displayed dynamically, updating with the number of items added. When an item is added, a pop-up shows the quantity, providing instant feedback. Clicking the Cart icon opens a detailed cart view, where users can adjust quantities, remove items, and see total prices. The component integrates seamlessly with product pages and supports a smooth shopping experience. It uses global state management through the CartContext for consistent cart data across the app. The cart can be toggled open and closed, allowing quick access.

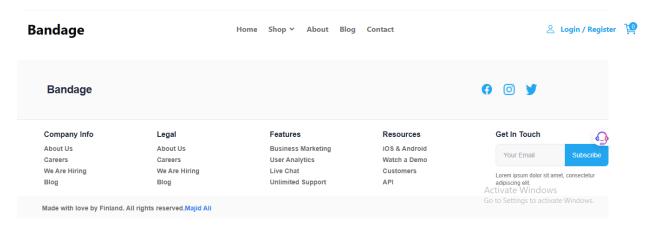






#### Header and Footer Component

The header component includes easy navigation links to essential pages such as Home, Shop, About, Blog, Product, and Contact. It also features options for users to log in or register, as well as quick access to the cart and wishlist. The cart icon displays the number of items in the cart, enhancing the user experience. The footer contains the website logo, making it clear and visually connected to the brand. It provides links to information pages like About Us, Contact, Privacy Policy, and Terms & Conditions. The footer also offers quick links to the Shop, Cart, Wishlist, and Login/Register pages. Social media links are included to allow users to follow the brand on Instagram, Facebook, Twitter, and YouTube. Lastly, the footer has a copyright notice, ensuring the website maintains professionalism and clarity.



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□ …
       EXPLORER

    page.tsx ...\product

    page.tsx ...\cart

D
     V CLOTHING-BRAND
                              src > app > components > Footer > @ page.tsx > @ Footer
Q
                                     import React from "react":
                                     export default function Footer() {
         > actions
                                         <footer className="□bg-white relative w-[1300px] ">
                                           {/* Top Section */}
<section className="□bg-[#fafafa] py-10">

∨ Checkout

                                             <div className="max-w-screen-xl mx-auto flex justify-between items-center">

<div className="flex flex-col">
         page.tsx
B
         components
                                                 <h1 className="■text-[#252b42] text-2xl font-bold leading-loose tracking-tight ml-20">
          > cards-text
                               11
                                                 Bandage
          Category
                                                 </h1>
          page.tsx
                                               </div>
                                               <div className="flex gap-6 mr-36">
   {/* Direct image URLs for social icons */}
          page.tsx

√ editorspick

                                                   src="/fbft.png" // Replace with the correct path to your image
          page.tsx
          ∨ Footer
                                                   className="w-6 h-6"
         page.tsx
                               20
          Furniture
                                                 <img
                               22
23
                                                   src="/insft.png" // Replace with the correct path to your image
          page.tsx
                                                   alt="Instagram

∨ Futured

                                                   className="w-6 h-6"
           page.tsx
                               25
          > Greentopheader
                               26
27
          ∨ Hero
                                                   src="/twft.png" // Replace with the correct path to your image
          page.tsx
                               28
29
                                                   className="w-6 h-6"
(8)

∨ Navbar

           page.tsx
                                               </div>
     > OUTLINE
                                             </div>
     > TIMELINE
                                                                                                                          1 20 C 145 C 2 1175 0 CD15 () T C 1 16V @ C 11 ()
```

```
D
                                      ⇔ page.tsx ...\product
⇔ page.tsx ...\cart
⇔ page.tsx ...\Navbar ×
                                                                                                                                                                                                                                ე □ …
       ∨ CLOTHING-BRAND
                                      src > app > components > Navbar > @ page.tsx > [0] Header
Q
         ∨ src
          ∨ app
            components
                                                import \ \{ \ useCart \ \} \ from \ "../../context/cartContext";

∨ Category

                                                   Sheet.
              page.tsx

✓ editorspick

                                                   SheetHeader.
                                                  SheetTrigger,
              page.tsx
                                                  SheetTitle,

∨ Footer

                                                } from "@/components/ui/sheet";
              page.tsx
                                                import { IoCallOutline, IoCartOutline, IoPersonOutline } from "react-icons/io5";
import { CiHeart, CiSearch, CiYoutube, CiFacebook, CiTwitter } from "react-icons/ci";
              ∨ Furniture
                                                import { Cineart, Ciseart, Ciroutube, Ciratebook, Cimitte import { Falinstagnam, FaAngleDown } from "react-icons/fi"; import { TfiEmail } from "react-icons/fi"; import { BiMenualtRight } from "react-icons/bi"; import { useEffect, useState } from "react"; import { FaShoppingCart } from "react-icons/fa";
              page.tsx
                                         15
              ∨ Futured
              page.tsx
              page.tsx

∨ Navbar

                                                   const { cart } = useCart() || { cart: [] }; // Fallback in case useCart returns null
                                         21
                                        22
23
                                                   const [cartNumber, setCartNumber] = useState(0);
const [wishlistNumber, setWishlistNumber] = useState(0); // State for wishlist count
            page.tsx

∨ Navbar2

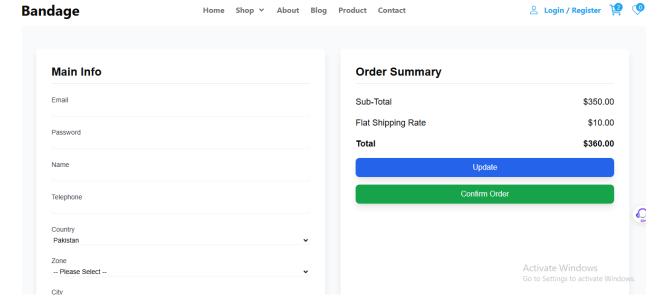
              page.tsx
                                         25
                                                   // Fetch cart and wishlist data from localStorage (only on the client side)

∨ ProductCard

                                         26
27
                                                   useEffect(() => {
  if (typeof window !== "undefined") {
              page.tsx
             > products-Card
                                                           nst storedCart = JSON.parse(localStorage.getItem("cart") || "[]");
              ∨ relatedProduct
                                         29
30
                                                        setCartNumber(storedCart.length);
              page.tsx
      > OUTLINE
                                                        const storedWishlist = JSON.parse(localStorage.getItem("wishlist") || "[]");
                                         31
                                                                                                                                                                                           Go to Settings to activate Windows
                                                        setWishlistNumber(storedWishlist.length); // Get wishlist items from localStorage
      > TIMELINE
```

# **Checkout Flow Component:**

The Checkout Flow component displays an order summary that includes the items added to the cart, with a subtotal for the order. It then calculates and displays the shipping costs, followed by the grand total of the order. Below the order details, the customer's information is shown, including their name, shipping address, and contact details. This allows the customer to review their information before proceeding with the purchase. The component ensures a clear overview of all costs, including taxes and shipping. It also provides an easy-to-understand breakdown of the order for transparency. Finally, there's a confirmation step where customers can review and finalize their purchase details. This layout is designed to guide the user smoothly through the checkout process.



I wanted to implement all the provided components into my UI, but due to time constraints, I have only been able to add the selected components for now. However, in the future, I plan to work on integrating all the components as described in the Day 4 document.