

Hackathon Day 4

Product Dynamic Listing: Code

Products

Browse our product categories

Ecommerce Items

8 Product Categories



Phones



Electronics



Sport goods



Cameras



Furniture



Beauty



Mobile Accessories



Watches

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[4](#)
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Live

Sunshine

Handcrafted

Mestonix

Pure

Hekto

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Contact Info
17 Princess Road,
London, Greater London
NW1 8JR, UK

Categories

Laptops & Computers
Cameras & Photography
Smart Phones & Tablets
Video Games & Consoles
Waterproof Headphones

Customer Care

- My Account
- Discount
- Returns
- Orders History
- Order Tracking

Pages

- [Blog](#)
- [Browse the Shop](#)
- [Category](#)
- [Pre-Built Pages](#)
- [Visual Composer Elements](#)
- [WooCommerce Pages](#)

Products Shop page

[illegible]

Product Details Page

mhhasanul@gmail.com [\(123\) 456-7890](tel:(123)456-7890) Demo

Currency: USD Pakistan Cart Login Wishlist

Hekto

[Home](#) [Products](#) [Blog](#) [Shop](#) [Contact](#) [Pages](#)

Search



Product Details

Stylish Golden Metal Legs Mint Blue Velvet Sofa

A luxurious armchair with velvet fabric and golden metal legs

\$-780

\$

Add to Cart



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Product detail Code:

```
1  "use client";
2
3  import Header from "@app/Components/component1";
4  import Foot from "@app/Components/component2";
5  import Bottom1 from "@app/Components/component3";
6  import { useState, useEffect } from "react";
7  import Image from "next/image";
8  import { client } from "@sanity/lib/client";
9
10
11
12
13  const query = `*[_type == 'Shop']{
14    ProductID,
15    ProductName,
16    "imageUrl": ProductImage.asset->url,
17    ProductPrice,
18    ProductDescription,
19    ProductDiscount,
20    ProductBrand,
21    ProductCategory
22  }`;
23
24  interface Product {
25    ProductID: string;
26    ProductName: string;
27    imageUrl: string;
28    ProductPrice: number;
29    ProductDescription: string;
30    ProductDiscount: number;
31    ProductBrand: string;
32    ProductCategory: string;
33  }
34
35  interface Params {
36    item?: number;
37  }
38
39  export default function Home(props: { params: Promise<Params> }) {
40    const [params, setParams] = useState<Params>({});
41    const [products, setProducts] = useState<Product[]>([]);
42
43    useEffect(() => {
44      async function fetchProducts() {
45        const data = await client.fetch(query);
46        setProducts(data);
47      }
48      fetchProducts();
49    }, []);
50
51    useEffect(() => {
52      async function resolveParams() {
53        const resolvedParams = await props.params;
54        setParams(resolvedParams);
55      }
56      resolveParams();
57    }, [props.params]);
58
59    const itemIndex = params.item || 0;
60    const selectedItem = products[itemIndex] || products[0];
61
62    return (
63      <div>
64        <Header />
65        <div className="bg-gray-50">
66          <section className="bg-purple-100 text-center py-10">
67            <h1 className="text-3xl font-bold text-gray-800">Product Details</h1>
68          </section>
69        </div>
70
71        <div>
72          <div className="container mx-auto p-4">
73            {selectedItem ? (
74              <div className="flex flex-col md:flex-row">
75                <div className="w-full md:w-1/2">
76                  <Image
77                    src={selectedItem.imageUrl}
78                    alt={selectedItem.ProductName}
79                    className="rounded-md w-full h-100 object-cover"
80                    width={300}
81                    height={200}
82                  />
83                </div>
84                <div className="w-full md:w-1/2 md:ml-8">
85                  <h1 className="text-2xl font-semibold text-gray-800">{selectedItem.ProductName}</h1>
86                  <p className="text-gray-500 mt-2">{selectedItem.ProductDescription}</p>
87                  <p className="mt-4 text-gray-800 text-lg font-bold">${selectedItem.ProductPrice - selectedItem.ProductDiscount}</p>
88                  <p className="text-gray-500 line-through">${selectedItem.ProductPrice}</p>
89                  <button className="bg-pink-500 text-white py-2 px-6 rounded-full mt-4">Add to Cart</button>
90                </div>
91              </div>
92            ) : (
93              <p>Loading product...</p>
94            )}
95          </div>
96        </div>
97        <Bottom1 />
98        <Foot />
99      </div>
100    );
101  }
102
```

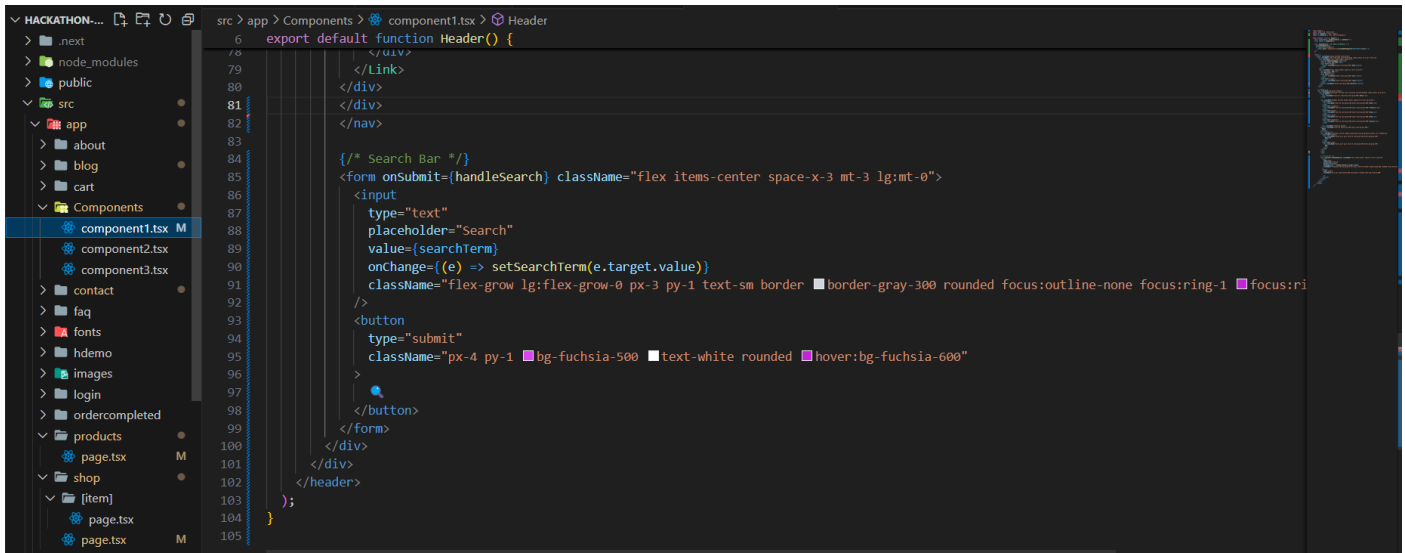
Code Deliverables:

Product Card

```
1 //use client
2
3 import { useState, useEffect } from "react";
4 import { useSearchParams } from "next/navigation";
5 import Link from "next/link";
6 import Image from "next/image";
7 import { useRouter } from "next/router";
8 import { useToast } from "react-hot-toast";
9 import { useSession } from "next-auth/react";
10 import { useMutation } from "react-query";
11
12 // Fetch products from Supabase
13 async function fetchProducts(query) {
14   const query = `*${LType} -- ${ShopID}`;
15   const { data, error } = await supabase
16     .from("products")
17     .select(
18       `product_id, product_image, asset_url,
19        product_name,
20        product_description,
21        product_price,
22        product_category`
23     );
24   return data || [];
25 }
26
27 export default function Shop() {
28   const searchParams = useSearchParams();
29   const searchQuery = searchParams.get("search") || "";
30   const [products, setProducts] = useState([]);
31   const [filteredProducts, setFilteredProducts] = useState([]);
32   const [selectedCategories, setSelectedCategories] = useState([]);
33   const [selectedPrice, setSelectedPrice] = useState("");
34   const [selectedBrand, setSelectedBrand] = useState("");
35   const [selectedService, setSelectedService] = useState("");
36
37   // Fetch products when the component mounts
38   useEffect(() => {
39     fetchProducts().then((data) => {
40       setProducts(data);
41       setFilteredProducts(data); // Set initial filtered products
42     });
43   }, []);
44
45   // Filter products whenever searchQuery, brands, categories, or price changes
46   useEffect(() => {
47     let filtered = [...products]; // Start with all products
48
49     // Apply search filter
50     if (searchQuery) {
51       filtered = filtered.filter((product) =>
52         product.ProductName.toLowerCase().includes(searchQuery)
53       );
54     }
55
56     // Apply brand filter
57     if (selectedBrand.length > 0) {
58       filtered = filtered.filter((product) =>
59         product.ProductBrand.toLowerCase().includes(selectedBrand)
60       );
61     }
62
63     // Apply category filter
64     if (selectedCategories.length > 0) {
65       filtered = filtered.filter((product) =>
66         selectedCategories.includes(product.ProductCategory)
67       );
68     }
69
70     // Apply price filter
71     if (selectedPrice) {
72       const [min, max] = selectedPrice.split("-").map(Number);
73       filtered = filtered.filter((product) =>
74         (product.ProductPrice >= min && product.ProductPrice <= max)
75       );
76     }
77
78     setFilteredProducts(filtered);
79   }, [searchQuery, selectedCategories, selectedPrice, products]);
80
81   // Handle brand filter selection
82   const handleBrandChange = (brand: string) => {
83     setSelectedBrand(brand);
84     setSelectedCategories([]);
85     setSelectedPrice("");
86   };
87
88   // Handle category filter selection
89   const handleCategoryChange = (category: string) => {
90     setSelectedCategories((prev) => {
91       if (prev.includes(category)) {
92         return prev.filter((c) => c !== category);
93       } else {
94         return [...prev, category];
95       }
96     });
97   };
98
99   // Handle price filter selection
100   const handlePriceChange = (price: string) => {
101     setSelectedPrice(price);
102   };
103
104   // Handle search filter selection
105   const handleSearchChange = (searchQuery: string) => {
106     setSearchQuery(searchQuery);
107   };
108
109   // Handle product click
110   const handleClick = (product: Product) => {
111     // Open product details modal
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113   };
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1298   const handleClickService = (product: Product) => {
1299     // Open product details modal
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```

Product List

Search Bar



```
src > app > Components > component1.tsx > Header
6      export default function Header() {
7
8      }
9
10     </Link>
11   </div>
12 </div>
13 </nav>
14
15   { /* Search Bar */ }
16   <form onSubmit={handleSearch} className="flex items-center space-x-3 mt-3 lg:mt-0">
17     <input
18       type="text"
19       placeholder="Search"
20       value={searchTerm}
21       onChange={(e) => setSearchTerm(e.target.value)}
22       className="flex-grow lg:flex-grow-0 px-3 py-1 text-sm border border-gray-300 rounded focus:outline-none focus:ring-1 focus:ring-blue-500"
23     />
24     <button
25       type="submit"
26       className="px-4 py-1 bg-fuchsia-500 text-white rounded hover:bg-fuchsia-600"
27     >
28       <span>Search</span>
29     </button>
30   </form>
31 </div>
32 </div>
33 </header>
34 }
35
```

Technical Report: Development of a Fully Functional E-Commerce Frontend

1. Introduction

This report outlines the steps taken to build and integrate components in the development of a fully functional frontend e-commerce website using React, Next.js, TypeScript (TSX), and Tailwind CSS. Additionally, it covers challenges faced, solutions implemented, and best practices followed during the development process.

2. Development Process

2.1 Project Setup

- Initialized the project using Next.js and TypeScript.
- Installed required dependencies including React, Tailwind CSS, and Sanity CMS client.
- Configured TypeScript settings for strict type-checking.

2.2 Component Development & Integration

- Header & Footer Components: Created reusable components for navigation and branding.
- Home Page: Designed a visually appealing homepage with featured products and categories.

- Shop Page: Implemented a dynamic product listing with filtering and sorting options.
- Product Details Page: Integrated product-specific data from Sanity CMS.

2.3 Sanity CMS Integration

- Set up a Sanity project and defined the schema for products.
- Connected Sanity CMS to Next.js via API calls using GROQ queries.
- Rendered dynamic product data on the shop and product details pages.

3. Challenges Faced & Solutions Implemented

3.1 Tailwind CSS Configuration

- Challenge: Customizing Tailwind themes for a consistent UI.
- Solution: Modified `tailwind.config.js` to extend colours, spacing, and typography.

3.2 TypeScript Type Safety

- Challenge: Ensuring type safety while fetching data from Sanity.
- Solution: Defined strict TypeScript interfaces for product data and utilized type assertions where necessary.

4. Best Practices Followed

4.1 Code Organization

- Used a modular structure to separate concerns (e.g., components, pages, utils).
- Maintained a consistent naming convention and folder structure.

4.2 Performance Optimization

- Utilized Next.js static generation and caching mechanisms.
- Optimized images with Next.js Image component for better load times.

5. Conclusion

The development of the e-commerce website followed a structured approach, leveraging Next.js, TypeScript, and Tailwind CSS for a scalable and maintainable frontend. Integrating Sanity CMS successfully enabled dynamic content management. Overcoming key challenges improved performance and code quality, resulting in a robust, user-friendly e-commerce template.