

Day 04: Building Dynamic Frontend Components For Marketplace

On Day 4 of the project, significant progress was made in developing dynamic frontend components for the Nike e-commerce marketplace. Key milestones included the creation of a Product Listing Page, a dynamic Product Detail Page that adapts to individual product data, and a fully functional Cart Page. Additionally, a responsive Search Bar with real-time suggestions was integrated to enhance user navigation. The platform is now dynamically connected, providing a smooth, scalable, and user-friendly experience, with dynamic data fetching in place to ensure flexibility as the site grows.

Components to Build:

Product listing Component:

Code Snippets:

```
productlist.tsx M X ... productlist.tsx M X ... productlist.tsx M X ...
ProductList > useEffect() callback > fetchProducts > query ProductList > useEffect() callback > fetchProducts > query src > components > productlist.tsx > default
1 import React, { useEffect, useState } from 'react';
2 import Card from './cards/card';
3 import { client } from '../sanity/lib/client';
4
5 export interface Product {
6   _id: string;
7   productName: string;
8   category: string;
9   price: string;
10  inventory: number;
11  colors: string[];
12  imageUrl: string;
13  description: string;
14 }
15
16 const ProductList = () => {
17   const [products, setProducts] = useState<Product[]>([]);
18   const [loading, setLoading] = useState<boolean>(true);
19   const [error, setError] = useState<string | null>(null);
20
21   useEffect(() => {
22     const fetchProducts = async () => {
23       const query = `
24         *[_type == "product"]{
25           _id,
26           productName,
27           category,
28           price,
29           inventory,
30           colors,
31           status,
32           "imageUrl": image.asset->url,
33           description
34         }
35       `;
36
37       try {
38         setLoading(true);
39         const result = await client.fetch(query);
40         setProducts(result);
41       } catch (err) {
42         console.error(err);
43         setError('Failed to fetch products');
44       } finally {
45         setLoading(false);
46       }
47     };
48
49     fetchProducts();
50   }, []);
51
52   if (loading) {
53     return <p>Loading...</p>;
54   }
55
56   if (error) {
57     return <p>{error}</p>;
58   }
59
60   return (
61     <div className="grid grid-cols-1 md:grid-cols-3 lg:grid-cols-3 pb-10 border-b-2">
62       {products.map((product) => (
63         <Card
64           key={product._id}
65           id={product._id}
66           productName={product.productName}
67           category={product.category}
68           description={product.description}
69           price={product.price}
70           colors={product.colors}
71           imageUrl={product.imageUrl}
72         />
73       ))}
74     </div>
75   );
76
77   export default ProductList;
78 }
```

Output Snippet:



Men's Shoes
Nike Air Force 1 Mid '07
White

MRP: ₹ 10795



Men's Shoes
Nike Dunk Low Retro SE
Beige

MRP: ₹ 9695



Men's Short-Sleeve Graphic Fitness Top
Nike Dri-FIT UV Hyverse
Teal

MRP: ₹ 2495



Women's Shoes
Nike Waffle One SE
Pink

MRP: ₹ 7895



Men's Shoes
Nike Court Vision Low Next Nature
Black

MRP: ₹ 4995



Men's Shoes
Nike Air Force 1 React
White

MRP: ₹ 13295

Product Detail Page:

Code Snippets:

```
ProductClient.tsx M X
src > components > ProductClient.tsx > Product > category
1 'use client';
2
3 import { Button } from '@components/ui/button';
4 import Image from 'next/image';
5 import { useCart } from '@contexts/CartContext';
6 import { useState } from 'react';
7
8 interface Product {
9   id: string;
10  productName: string;
11  category: string;
12  price: string;
13  colors: string[];
14  imageUrl: string;
15  description: string;
16 }
17
18 const ProductClient = ({ product }: { product: Product }) => {
19   const { addToCart } = useCart();
20   const [notification, setNotification] = useState<string>('');
21
22   const handleAddToCart = () => {
23     const cartItem = {
24       id: product.id,
25       productName: product.productName,
26       price: product.price,
27       image: product.imageUrl,
28       quantity: 1,
29     };
30     addToCart(cartItem);
31     setNotification(`${product.productName} added to cart successfully!`); // Set notification
32     setTimeout(() => setNotification(''), 3000);
33   };
34
35   return (
36     <div className='grid grid-cols-12 px-8 md:px-20 my-16 md:my-16 gap-6'>
37       <div className='col-span-12 md:col-span-6'>
38         {product.imageUrl ? (
39           <Image
40             src={product.imageUrl}
41             alt={product.productName}
42             width={500}
43             height={500}
44           />
45         ) : (
46           <div className='w-full h-full bg-gray-300 rounded-md flex items-center justify-center text-gray-600'>
47             No Image Available
48           </div>
49         )}
50     </div>
51     <div className='col-span-12 md:col-span-6 pr-18 pt-10 md:pt-0'>
52       <h1 className='text-3xl font-bold'>{product.productName}</h1>
53       <p className='py-10 text-lg'>{product.description}</p>
54       <h2 className='text-2xl focus-visible:outline-none mb-4'>
55         <span className='font-bold'>Price:</span> &#8377; {product.price}
56       </h2>
57       {product.colors && (
58         <div className='mb-4'>
59           <div className='flex items-center gap-4'>
60             <h2 className='text-black'>Available Colors:</h2>
61             <div className='flex gap-2'>
62               {product.colors.map((color, index) => (
63                 <span
64                   key={index}
65                   className='text-gray-600 rounded-full border-1px border-gray-300 px-4 py-2'>{color}</span>
66               ))}
67             </div>
68           </div>
69         </div>
70       )}
71     </div>
72   </div>
73 );
74
75 ProductClient.tsx M X
src > components > ProductClient.tsx > Product > category
35
36 return (
37   <div className='grid grid-cols-12 px-8 md:px-20 my-16 md:my-16 gap-6'>
38     <div className='col-span-12 md:col-span-6'>
39       {product.imageUrl ? (
40         <Image
41           src={product.imageUrl}
42           alt={product.productName}
43           width={500}
44           height={500}
45         />
46       ) : (
47         <div className='w-full h-full bg-gray-300 rounded-md flex items-center justify-center text-gray-600'>
48           No Image Available
49         </div>
50       )}
51     </div>
52     <div className='col-span-12 md:col-span-6 pr-18 pt-10 md:pt-0'>
53       <h1 className='text-3xl font-bold'>{product.productName}</h1>
54       <p className='py-10 text-lg'>{product.description}</p>
55       <h2 className='text-2xl focus-visible:outline-none mb-4'>
56         <span className='font-bold'>Price:</span> &#8377; {product.price}
57       </h2>
58       {product.colors && (
59         <div className='mb-4'>
60           <div className='flex items-center gap-4'>
61             <h2 className='text-black'>Available Colors:</h2>
62             <div className='flex gap-2'>
63               {product.colors.map((color, index) => (
64                 <span
65                   key={index}
66                   className='text-gray-600 rounded-full border-1px border-gray-300 px-4 py-2'>{color}</span>
67               ))}
68             </div>
69           </div>
70         </div>
71       )}
72     </div>
73   </div>
74 );
```

Output Snippet:



Nike Air Force 1 Mid '07

The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive support for long-lasting performance.

Price: ₹ 10795

Available Colors: ☐

Add to cart



Nike Dri-FIT UV Hyverse

The Nike Dri-FIT UV Hyverse graphic top offers comfort and UV protection in style. Made from soft, breathable fabric, this fitness top keeps you cool and dry during workouts or casual outings.

Price: ₹ 2495

Available Colors: ☒

Add to cart

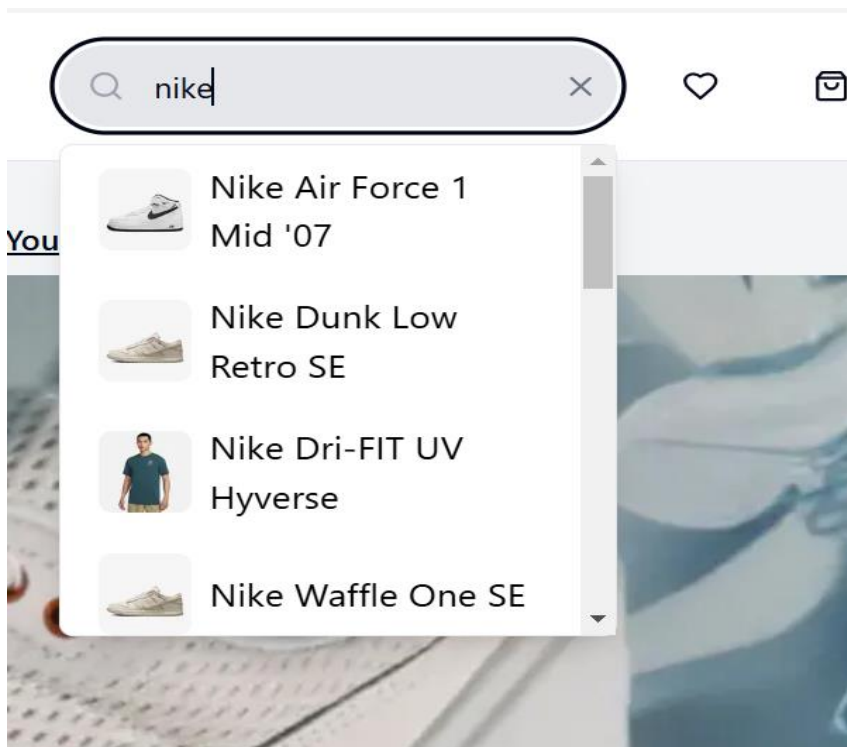
Nike Dri-FIT UV Hyverse added to cart successfully!

Search Bar:

Code Snippet:

```
site-header.tsx X ... site-header.tsx X ...
src > components > site-header.tsx > ...
50 const handleSearch = (event: React.ChangeEvent<HTMLInputElement>)
=> {
51   const query = event.target.value.toLowerCase();
52   setSearchQuery(query);
53
54   const filtered = products.filter((product) =>
55     product.productName.toLowerCase().includes(query)
56   );
57   setFilteredProducts(filtered);
58 };
59
60 const clearSearch = () => {
61   setSearchQuery('');
62   setFilteredProducts(products);
63 };
64
65 // Return null during SSR until the component is mounted on the
66 // client
67 if (!isClient) return null;
68
69 return (
70   <header className="w-full">
71     <div className="bg-gray-100 py-2 px-4 text-xs">
72       <div className="container mx-auto flex items-center
73         justify-between">
74         <Link href="/" className="block">
75           <Image
76             src="/icons/header-logo.png"
77             alt="Jordan"
78             width={250}
79             height={250}
80             className="h-4 w-auto sm:h-6"
81           />
82         <div className="flex items-center space-x-4">
83           <div className="relative hidden lg:block">
84             <Search className="absolute left-3 top-1/2 h-4 w-4
85               -translate-y-1/2 text-gray-400" />
86             <Input
87               type="text"
88               placeholder="Search products..."
89               value={searchQuery}
90               onChange={handleSearch}
91               className="w-60 pl-10 pr-8 rounded-full bg-gray-200
92               text-[14px]"
93             />
94             <Button
95               variant="ghost"
96               size="icon"
97               className="absolute right-1 top-1/2 -translate-y-1/
98                 2 h-6 w-6 hover:bg-gray-300 rounded-full"
99               onClick={clearSearch}
100               aria-label="Clear search"
101             />
102             <X className="h-4 w-4 text-gray-500" />
103           </div>
104           {searchQuery && (
105             <div className="absolute left-0 bg-white w-full
106               border border-gray-200 rounded-md shadow-lg mt-2
107               z-10">
108               <ul className="max-h-60 overflow-y-auto">
109                 {filteredProducts.map((product: any) => (
110                   <li>
111                     <div className="flex items-center space-x-4">
112                       <Image
113                         src={product.imageUrl}
114                         alt={product.productName}
115                         width={50}
116                         height={50}
117                         className="h-5 w-5"
118                       />
119                       <div>
120                         <div>{product.productName}</div>
121                         <div>{product.description}</div>
122                       </div>
123                     </div>
124                   </li>
125                 )}
126               </ul>
127             </div>
128           )}
129         </div>
130       </div>
131     </div>
132   </header>
133 )
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
```

Output Snippet:



Code Snippet:

Output Snippet:

How would you like to get your order?

Customs regulation for India requires a copy of the recipient's KYC. The address on the KYC needs to match the shipping address. Our courier will contact you via SMS/email to obtain a copy of your KYC. The KYC will be stored securely and used solely for the purpose of clearing customs (including sharing it with customs officials) for all orders and returns. If your KYC does not match your shipping address, please click the link for more information. [Learn More](#)

Enter your name and address:

What's your contact information?

What's your PAN?

☐ Save PAN details to profile

Delivery

Shipping

Billing

Payment

Order Summary

Nike Air Force 1 Mid '07
 Quantity: 1
 ₹ 10,795

Nike Dri-FIT UV Hyverse
 Quantity: 6
 ₹ 2,495

Subtotal

₹ 23,270

Delivery

Free

Total

₹ 23,270

Arrives Mon, 27 Mar - Wed, 12 Apr

Nike Dri-FIT ADV TechniKnit Ultra
 Qty: 1 | Size: L
 ₹ 8,895.00

Nike Air Max 97 SE
 Qty: 1 | Size: UK 6
 ₹ 8,595.00

Code Snippet:

Output Snippet:



Code Snippet:

```
src > components > footer.tsx > ...
1 import Link from "next/link";
2 import Image from "next/image";
3 import twitterIcon from "../../public/icons/twitter.png";
4 import facebookIcon from "../../public/icons/facebook.png";
5 import youtubeIcon from "../../public/icons/youtube.png";
6 import instagramIcon from "../../public/icons/instagram.png";
7 import location from "../../public/icons/location.png";
8
9 const Footer = () => {
10   return (
11     <footer className="bg-black text-white py-8 px-6">
12       <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4 gap-8">
13         {/* Column 1: Find a Store */}
14         <div>
15           <h3 className="text-sm font-semibold mb-4">FIND
16             A STORE</h3>
17           <ul className="space-y-2 text-sm">
18             <li><Link href="#"
19               className="hover:underline">Become Link
20               Member</Link></li>
21             <li><Link href="#"
22               className="hover:underline">Sign Up for
23               Email</Link></li>
24             <li><Link href="#"
25               className="hover:underline">Send Us a
26               Feedback</Link></li>
27             <li><Link href="#"
28               className="hover:underline">Student
29               Discounts</Link></li>
30           </ul>
31         </div>
32
33         {/* Column 2: Get Help */}
34         <div>
35           <h3 className="text-sm font-semibold mb-4">GET
36             HELP</h3>
37           <ul className="space-y-2 text-sm">
38             <li><Link href="#"
39               className="hover:underline">Order Status</
40               Link></li>
41             <li><Link href="#"
42               className="hover:underline">Delivery</Link></
43               li>
44             <li><Link href="#"
45               className="hover:underline">Returns</Link></
46               li>
47             <li><Link href="#"
48               className="hover:underline">Payment Options</
49               Link></li>
50             <li><Link href="#"
51               className="hover:underline">Contact Us on
52               Nike.com</Link></li>
53             <li><Link href="#"
54               className="hover:underline">Contact Us on
55               All Other Inquiries</Link></li>
56           </ul>
57         </div>
58
59         {/* Column 3: About Nike */}
60         <div>
61           <h3 className="text-sm font-semibold mb-4">ABOUT
62             NIKE</h3>
63           <ul className="space-y-2 text-sm">
64             <li><Link href="#"
65               className="hover:underline">News</Link></li>
66             <li><Link href="#"
67               className="hover:underline">Careers</Link></
68               li>
69             <li><Link href="#"
70               className="hover:underline">Investors</Link></
71               li>
72             <li><Link href="#"
73               className="hover:underline">Sustainability</
74               Link></li>
75           </ul>
76         </div>
77       </div>
78     </footer>
79   );
80 }
```

Output Snippet:

