

Day 04: Building Dynamic Frontend Components For Marketplace

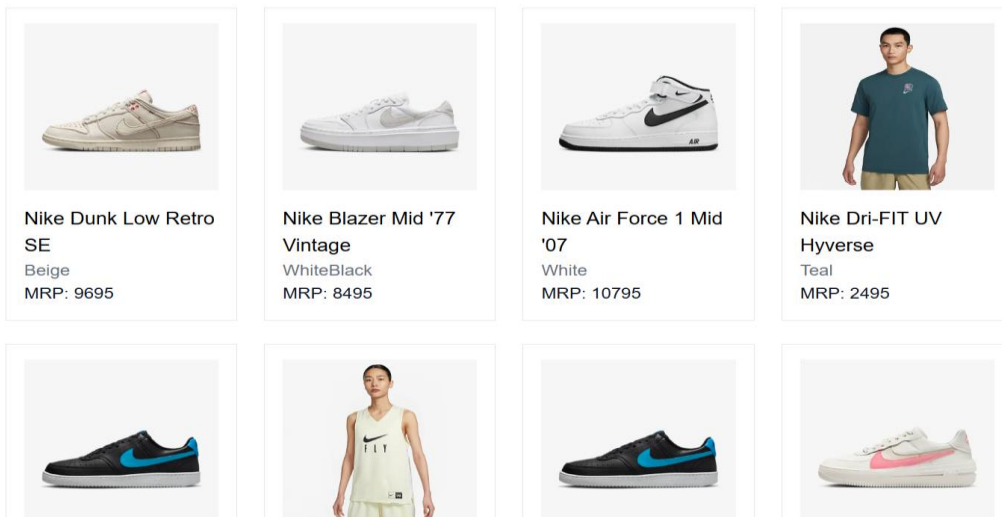
Key Components to Build:

Product Listing Component:

Code Snippet:

```
src > components > Products.tsx > Product
1 import React from 'react'
2 import { useState, useEffect } from 'react'
3 import { client } from '@sanity/lib/client'
4 import { BsFillFilterCircleFill } from 'react-icons/bs'
5 import Link from 'next/link'
6
7 type Product = {
8   _id: string;
9   productName: string;
10  imageUrl: string;
11  colors?: string[];
12  price: number;
13 };
14
15 export default function Products() {
16   const [isSidebarOpen, setIsSidebarOpen] = useState(false);
17   const [products, setProducts] = useState<Product[]>([]);
18
19   useEffect(() => {
20     const fetchProducts = async () => {
21       const query = `
22         *[_type == "product"]{
23           _id,
24           productName,
25           category,
26           price,
27           inventory,
28           colors,
29           status,
30           "imageUrl": image.asset->url,
31           description
32         }
33       `;
34       const fetchedProducts = await client.fetch(query);
35       setProducts(fetchedProducts);
36     };
37     fetchProducts();
38   }, []);
39   const toggleSidebar = () => {
40     // ...
41   }
42 }
43
44 // ...
45
46 const toggleSidebar = () => {
47   setIsSidebarOpen(!isSidebarOpen);
48 };
49
50 return (
51   <main className="w-full lg:w-3/4 p-6">
52     <div className="flex justify-between items-center mb-4">
53       {isSidebarOpen && (
54         <button
55           className="lg:hidden top-4 left-4 z-50 bg-gray-800 text-white p-2 rounded-full"
56           onClick={toggleSidebar}
57         >
58           <BsFillFilterCircleFill />
59         </button>
60       )}
61     </div>
62     <div className="text-xl font-semibold">Sort By</div>
63     <button className="text-gray-600">Hide Filters</button>
64   </div>
65
66   <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6">
67     { /* Map through the products array */
68       <products.map> (product: Product) => {
69         <Link href={`/Products/${product._id}`} key={product._id}>
70           <div className="border p-4">
71             <img
72               src={product.imageUrl}
73               alt={product.productName}
74               className="w-full mb-4"
75             />
76             <h3 className="text-lg font-medium">{product.productName}</h3>
77             <p className="text-gray-500">{product.colors}</p>
78             <p className="text-gray-900">MRP: {product.price}</p>
79           </div>
80         </Link>
81       </products.map>
82     }
83   </div>
84 </main>
85 )
86 }
```

Output Snippet:



Product Detail Component:

Code Snippet:

```
src > app > Products > [id] > page.tsx > ProductDetail > query
1 import { client } from '@sanity/lib/client';
2
3 type Product = {
4   _id: string;
5   productName: string;
6   imageUrl: string;
7   colors?: string[];
8   price: number;
9   description: string;
10 };
11
12 export default async function ProductDetail({ params }: { params: { id:
13   string } }) {
14   const query = `
15     *[_type == "product" && _id == "${params.id}"][0] {
16       _id,
17       productName,
18       "imageUrl": image.asset->url,
19       price,
20       description
21     }
22   `;
23
24   const product: Product = await client.fetch(query);
25
26   if (!product) {
27     return <div>Product not found</div>;
28   }
29
30   return (
31     <div className="p-6">
32       <div className="flex flex-col lg:flex-row gap-8">
33         <div className="w-full lg:w-1/2">
34           <img src={product.imageUrl} alt={product.productName}
35             className="w-full h-96 rounded-lg shadow-md" />
36         </div>
37         <div className="w-full lg:w-1/2">
38           <h1 className="text-2xl font-bold mb-4">{product.productName}</h1>
39           <p className="text-gray-700 mb-4">{product.description}</p>
40           <p className="text-gray-900 text-lg font-semibold mb-4">Price: ₹
41             {product.price}</p>
42           {product.colors && (
43             <div className="mb-4">
44               <h3 className="font-medium mb-2">Available Colors:</h3>
45               <div className="flex gap-2">
46                 {product.colors.map((color, index) => (
47                   <span
48                     key={index}
49                     className="block w-6 h-6 rounded-full border
50                       border-gray-300
51                       style={{ backgroundColor: color }}
52                   />
53                 ))}
54             </div>
55           )}
56           <button className="bg-black text-white py-2 px-4 rounded mt-6
57             hover:bg-gray-800">
58             Add to Cart
59           </button>
60         </div>
61       </div>
62     </div>
63   );
64 }
```

Output Snippet:



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:



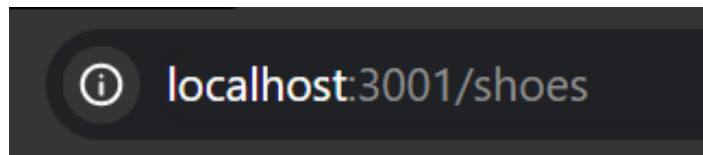
Add to Cart

Category Component:

Code Snippet:

```
1 import React from 'react'
2 import { useState, useEffect } from "react";
3 import { client } from "@sanity/lib/client";
4 import { BsFillFilterCircleFill } from "react-icons/bs";
5 import Link from "next/link";
6
7 type Product = {
8   _id: string;
9   productName: string;
10  imageUrl: string;
11  colors?: string[];
12  price: number;
13 };
14
15 export default function Shoes() {
16   const [isSidebarOpen, setIsSidebarOpen] = useState(
17     false);
18   const [products, setProducts] = useState<Product[]>
19     >([]);
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       const fetchedProducts = await client.fetch
37         (query);
38       setProducts(fetchedProducts);
39     };
40
41     fetchProducts();
42   }, []);
43
44   const toggleSidebar = () => {
```

Output Snippet:



Air Jordan 1 Elevate
Low
White
MRP: 11895



Nike Court Vision
Low
White
MRP: 5695



Nike Renew Run 3
Blue
MRP: 7295



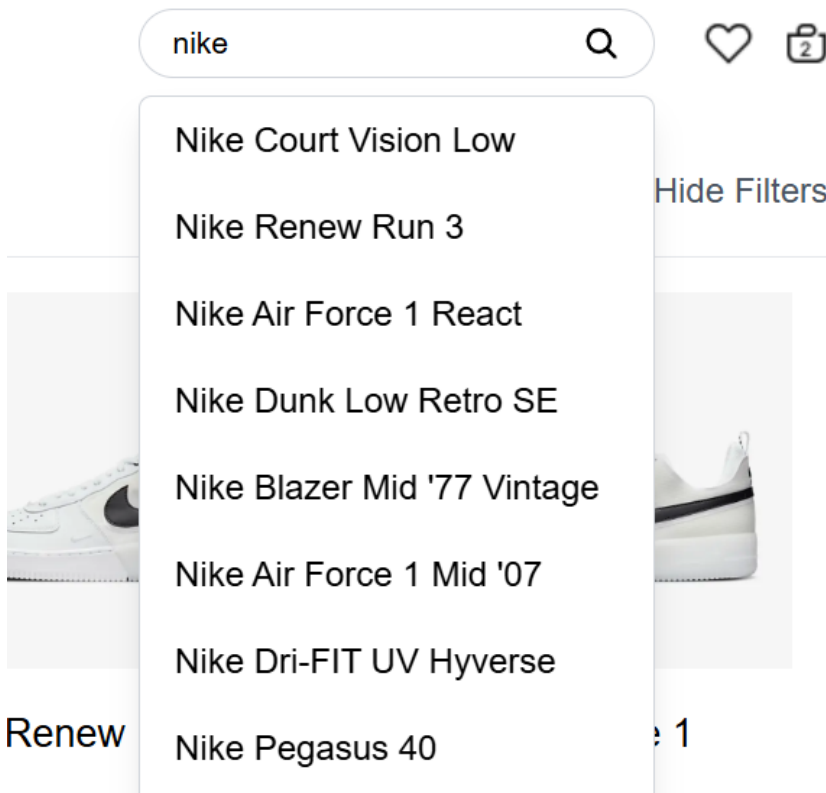
Nike Air Force 1
React
White
MRP: 13295

Search Bar:

Code Snippet:

```
src > components > Header.tsx > Header
9 export default function Header() {
10   const [isMenuOpen, setIsMenuOpen] = useState(false);
11   const [searchQuery, setSearchQuery] = useState('');
12   const [products, setProducts] = useState<any[]>([]);
13   const [filteredProducts, setFilteredProducts] = useState<any[]>([]);
14
15   // Fetch products from Sanity
16   useEffect(() => {
17     const fetchProducts = async () => {
18       const data = await client.fetch(`*[_type == "product"]{
19         _id,
20         productName,
21         category,
22         price,
23         image,
24         description,
25       }`);
26       setProducts(data);
27       setFilteredProducts(data); // Initialize with all products
28     };
29     fetchProducts();
30   }, []);
31
32   // Handle search query change
33   const handleSearch = (event: React.ChangeEvent<HTMLInputElement>) => {
34     const query = event.target.value.toLowerCase();
35     setSearchQuery(query);
36
37     // Filter products based on search query
38     const filtered = products.filter((product) =>
39       product.productName.toLowerCase().includes(query)
40     );
41     setFilteredProducts(filtered);
42   };
43
44   /* Right Side - Search and Wishlist */
45   /* Search Bar */
46   <div className="hidden md:flex space-x-4 items-center">
47     <div className="relative">
48       <div className="flex items-center gap-[10px] px-[15px] py-[5px] border
49         border-gray-300 rounded-2xl">
50         <input
51           type="text"
52           placeholder="Search..."
53           value={searchQuery}
54           onChange={handleSearch}
55           className="bg-transparent outline-none text-black text-[14px]
56             placeholder:text-gray-500 w-full"
57         />
58       <IoSearch className="text-black w-[20px] h-[20px]" />
59     </div>
60
61     /* Dropdown for filtered products */
62     {searchQuery && filteredProducts.length > 0 && (
63       <div className="absolute bg-white w-full border border-gray-300
64         rounded-md shadow-lg mt-2 z-10">
65         <ul>
66           {filteredProducts.map((product: any) => (
67             <li
68               key={product._id}
69               className="px-4 py-2 text-black hover:bg-gray-200 cursor-pointer"
70             >
71               <Link href={`/Products/${product._id}`}>
72                 {product.productName}
73               </Link>
74             </li>
75           ))}
76         </ul>
77       </div>
78     )}
79   </div>
80 }
```

Output Snippet:



Cart Component:

Code Snippet:

```
import Link from "next/link";

export default function Bag() {
  return (
    <div className="min-h-screen bg-[#FFFFFF]">
      <div className="max-w-7xl mx-auto px-4 py-8 grid grid-cols-1 lg:grid-cols-3 gap-8">
        <div className="lg:col-span-2 bg-[#FFFFFF] p-6">
          <div className="bg-gray-100 p-4 mb-6 rounded-md text-sm">
            <span>Free Delivery</span> applies to orders of ₹10,000 or more.{" "}
            <a href="#" className="text-[#111111] underline">
              View details
            </a>
          </div>
        </div>


        <div className="text-lg font-bold mb-4">Bag</div>
        <div className="space-y-8">
          <div className="flex flex-wrap gap-4 sm:gap-6 md:flex-nowrap">
            

```

Output Snippet:

Free Delivery applies to orders of ₹10,000 or more. [View details](#)


Bag



Nike Dri-FIT ADV TechKnit Ultra
Men's Short-Sleeve Running Top
Ashen Slate/Cobalt Bliss
Size: L | Quantity: 1

♥ Save 🗑 Remove

MRP: ₹ 3,895.00



Nike Air Max 97 SE
Men's Shoes
Flat Pewter/Light Bone/Black/White
Size: 8 | Quantity: 1

♥ Save 🗑 Remove

MRP: ₹ 16,995.00

Favourites

There are no items saved to your favourites.

Summary

Subtotal:	₹ 20,890.00
Estimated Delivery & Handling:	Free
Total:	₹ 20,890.00

[Member Checkout](#)

Checkout Flow Component:

Code Snippet:

```
export default function CheckOut() {
  return (
    <div className="min-h-screen bg-[#FFFFFF] p-6">
      <div className="flex flex-col lg:flex-row
        justify-center max-w-7xl mx-auto gap-8">
        {/* Left Section: Form */}
        <div className="bg-white w-full lg:w-
          [440px] p-6">
          <h1 className="text-[21px]
            font-medium mb-4">How would you like
            to get your order?</h1>
          <p className="text-[#757575] mb-6">
            Customs regulation for India
            require 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
            to learn more.
          </p>
          <div>
            <input type="radio" checked="" value="Deliver it" /> Deliver it
          </div>
          <div>
            <input type="radio" value="Pick up" /> Pick up
          </div>
        </div>
        {/* Delivery Options */}
        <div className="mb-6">
          <button className="w-full p-4
            border border-gray-300 rounded-lg
            flex items-center justify-start">
            
            <span
              className="font-medium">Delive
              r it</span>
          </button>
        </div>
        {/* Address Form */}
        <form className="space-y-6">
          <span className="text-[21px]
            font-medium text-[#111111]">Enter your name and address:</
            span>
          <div>
            <input type="text" value="First Name" />
            <input type="text" value="Last Name" />
            <input type="text" value="Address Line 1" />
            <input type="text" value="Address Line 2" />
            <div>
              <input type="text" value="Postal Code" />
              <input type="text" value="Locality" />
            </div>
            <div>
              <div>
                <div>State/Territory</div>
                <div>India</div>
              </div>
            </div>
            <div>
              <input type="checkbox" value="Save this address to my profile" /> Save this address to my profile
              <input type="checkbox" value="Make this my preferred address" /> Make this my preferred address
            </div>
          </div>
          <div>
            <input type="text" value="Email" />
            <input type="text" value="Phone Number" />
          </div>
          <div>
            <input type="text" value="PAN" />
          </div>
        </form>
      </div>
    </div>
  )
}
```

Output Snippet:


How would you like to get your order?

Customs regulation for India require 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](#)


☒ Deliver it

☐ Pick up

Order Summary



Nike Dri-FIT ADV
TechKnit Ultra Men's
Short-Sleeve Running
Top
Qty: 1



AirMax 90 Shoes
- Size 10
Qty: 1

Subtotal: ₹2,980.00

Delivery: Free

Total: ₹2,980.00

Enter your name and address:

State/Territory

India

☐ Save this address to my profile☐ Make this my preferred address

What's your contact information?

What's your PAN?

Continue

Filter Panel Component:

Code Snippet:

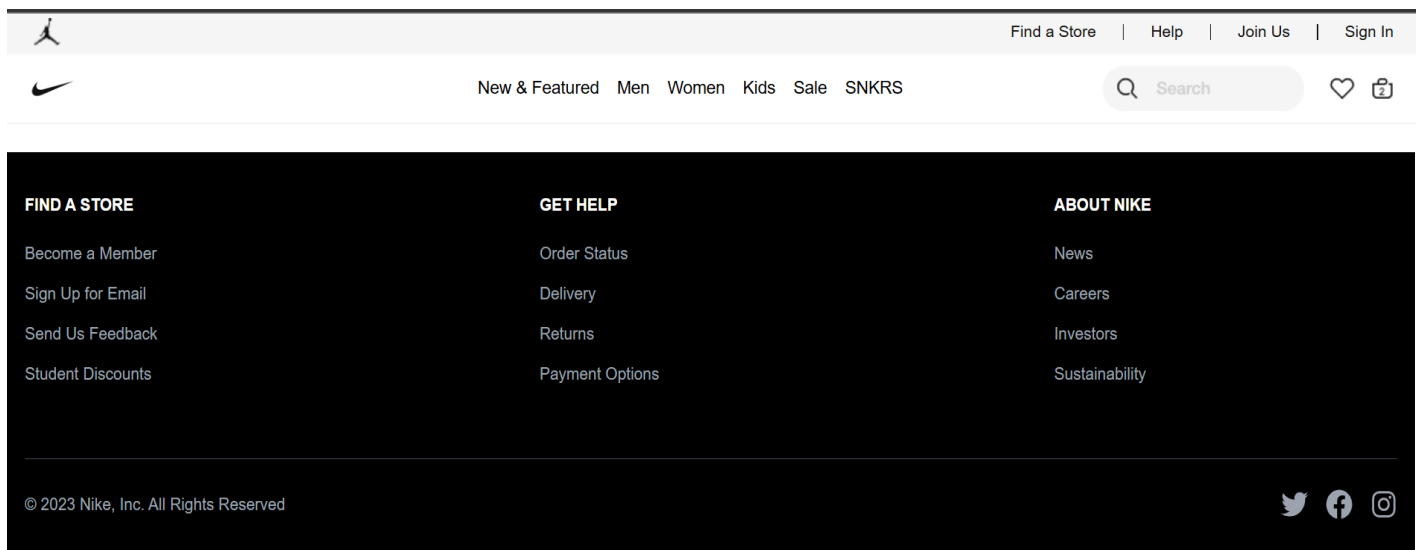
```
src > components > Filter.tsx > ...
1  "use client";
2  import { useState } from "react";
3
4  export default function Filter(){
5      const [isSidebarOpen,
6        setIsSidebarOpen] = useState
7        (false);
8      const toggleSidebar = () =>
9        {
10          setIsSidebarOpen
11            (!isSidebarOpen);
12        }
13      return(
14        <aside
15          className={`fixed top-0
16            left-0 h-full bg-
17              [ #FFFFFF ] p-4 pl-12 z-40
18            transition-transform
19            duration-300 ease-in-out
20            transform ${
21              isSidebarOpen ?
22                "translate-x-0" :
23                "-translate-x-full"
24            } lg:relative
25            lg:translate-x-0 lg:w-1/
26            4`
27        >
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Footer and Header Components:

Code Snippet:

```
Header.tsx M X
src > components > Header.tsx > Header
1  "use client"
2  import Image from "next/image"
3  import { useState } from "react";
4  import Link from "next/link";
5
6  export default function Header() {
7    const [isMenuOpen, setIsMenuOpen] = useState(false);
8    return (
9      <>
10     <header className="body-font bg-[#F5F5F5] h-[36px] pt-1">
11       <div className="container mx-auto flex flex-wrap items-center justify-between px-6">
12         {/* Logo and Icon Section */}
13         <div className="flex items-center">
14           <Image
15             className="w-[24px] h-[24px]"
16             width={24}
17             height={24}
18             src={"/assets/Vector.png"}
19             alt={"Icon"}
20           />
21         </div>
22       </div>
23     </>
24     {/* Navigation Section */}
Footer.tsx X
src > components > Footer.tsx > ...
1  import { FaFacebook, FaInstagram, FaTwitter } from
   "react-icons/fa";
2
3  export default function Footer() {
4    return (
5      <footer className="bg-black text-white py-8">
6        <div className="container mx-auto px-4 flex flex-wrap justify-between">
7          {/* Column 1 */}
8          <div className="w-full sm:w-1/2 md:w-1/4 mb-6">
9            <h4 className="uppercase text-sm font-semibold mb-4">Find a Store</h4>
10           <ul>
11             <li className="mb-2">
12               <a href="#" className="text-gray-400 hover:text-white text-sm">
13                 Become a Member
14               </a>
15             </li>
16             <li className="mb-2">
17               <a href="#" className="text-gray-400 hover:text-white text-sm">
18                 Sign Up for Email
19               </a>
20             </li>
```

Output Snippet:



FAQ and Help Center Component:

Code Snippet:

```
FAQs.tsx U x
src > components > FAQs.tsx > FAQs
1  import React from 'react'
2
3  export default function FAQs() {
4    return (
5      <div>
6        <h3 className="font-bold text-lg mb-4">FAQs</h3>
7        <div className="text-sm space-y-4">
8          <p>
9            <strong>Does my card need international purchases enabled?</strong><br />
10           Yes, we recommend asking your bank to enable international purchases on your card. You will be
11           notified at checkout if international purchases need to be enabled.
12         </p>
13         <p>
14           <strong>Can I pay for my order with multiple methods?</strong><br />
15           No, payment for Nike orders can't be split between multiple payment methods.
16         </p>
17         <p>
18           <strong>What payment method is accepted for SNKRS orders?</strong><br />
19           You can use any accepted credit card to pay for your SNKRS order.
20         </p>
21       </div>
22     )
23   }
24
```

Output Snippet:

FAQs

Does my card need international purchases enabled?

Yes, we recommend asking your bank to enable international purchases on your card. You will be notified at checkout if international purchases need to be enabled.

Can I pay for my order with multiple methods?

No, payment for Nike orders can't be split between multiple payment methods.

What payment method is accepted for SNKRS orders?

You can use any accepted credit card to pay for your SNKRS order.

Social Media Sharing Component:

Code Snippet:

```
src > components > Social_Media.tsx > Social_Media
1  import React from 'react'
2  import { FaFacebook, FaInstagram, FaTwitter } from "react-icons/fa";
3
4  export default function Social_Media() {
5    return (
6      <div className="w-full mt-6">
7        <div className="border-t border-gray-700 pt-6 flex justify-between items-center text-sm text-gray-400">
8          <p>© 2023 Nike, Inc. All Rights Reserved</p>
9          <div className="flex space-x-4">
10             <a href="#" className="hover:text-white">
11               <FaTwitter className="h-6 w-6" />
12             </a>
13             <a href="#" className="hover:text-white">
14               <FaFacebook className="h-6 w-6" />
15             </a>
16             <a href="#" className="hover:text-white">
17               <FaInstagram className="h-6 w-6" />
18             </a>
19           </div>
20         </div>
21       </div>
22     )
23   }
24
```

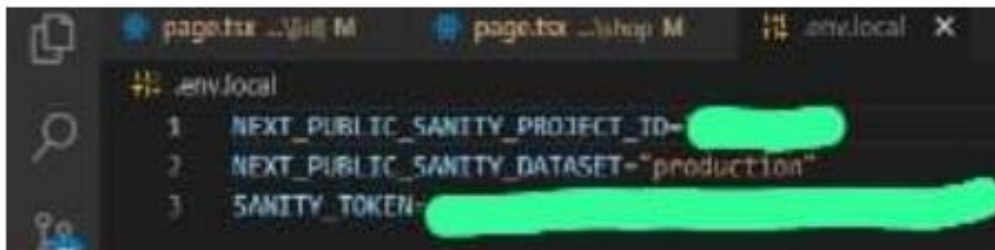
Output Snippet:



API Integration:

1. Sanity API Fetching Logic: Since you're using Sanity CMS, you need to ensure data fetching is properly managed.

- Sanity Client Setup (if not already set up): In your lib folder, configure the Sanity client:



Dynamic Routing:

Dynamic routing is used to handle routes like `/Products/:id` for individual product pages.

1. Create Dynamic Route File:

In the pages directory, create a `[id]` file inside the shop folder:

`pages/Products/[id]`

```
src > app > Products > [id] > page.tsx > query
1 import { client } from '@sanity/lib/client';
2
3 type Product = {
4   _id: string;
5   productName: string;
6   imageUrl: string;
7   colors?: string[];
8   price: number;
9   description: string;
10 };
11
12 export default async function ProductDetail({ params }: { params: { id: string } }) {
13   const query = `
14     *[_type == "product" && _id == "${params.id}"][0] {
15       _id,
16       productName,
17       "imageUrl": image.asset->url,
18       colors,
19       price,
20       description
21     }
22   `;
23
24   const product: Product = await client.fetch(query);
25
26   if (!product) {
27     return <div>Product not found</div>;
28   }
29
30   return (
31     <div className="p-6">
32       <div className="flex flex-col lg:flex-row gap-8">
33         <div className="w-full lg:w-1/2">
34           <img src={product.imageUrl} alt={product.productName}
35             className="w-full h-96 rounded-lg shadow-md" />
36         </div>
37         <div className="w-full lg:w-1/2">
38           <h1 className="text-2xl font-bold mb-4">{product.productName}</h1>
39           <p className="text-gray-700 mb-4">{product.description}</p>
40           <p className="text-gray-900 text-lg font-semibold mb-4">Price: ₹
41             {product.price}</p>
42           {product.colors && (
43             <div className="mb-4">
44               <h3 className="font-medium mb-2">Available Colors:</h3>
45               <div className="flex gap-2">
46                 {product.colors.map((color, index) => (
47                   <span
48                     key={index}
49                     className="block w-6 h-6 rounded-full border
50                       border-gray-300
51                       style={{ backgroundColor: color }}
52                   />
53                 ))}
54             </div>
55           )}
56           <button className="bg-black text-white py-2 px-4 rounded mt-6
57             hover:bg-gray-800"
58             >Add to Cart
59           </button>
60         </div>
61       </div>
62     </div>
63   );
64 }
```

2. Get Product Data Dynamically:



Nike Metcon 8

The Nike Metcon 8 is built for intense training sessions. Featuring a stable base, durable materials, and excellent traction, it's the perfect companion for weightlifting, CrossFit, or HIIT workouts.

Price: ₹ 10295

Available Colors:



Add to Cart

Final CheckList

Frontend Component Development	Styling and Responsiveness	Code Quality	Documentation and Submission	Final Review
✓	✓	✓	✓	✓