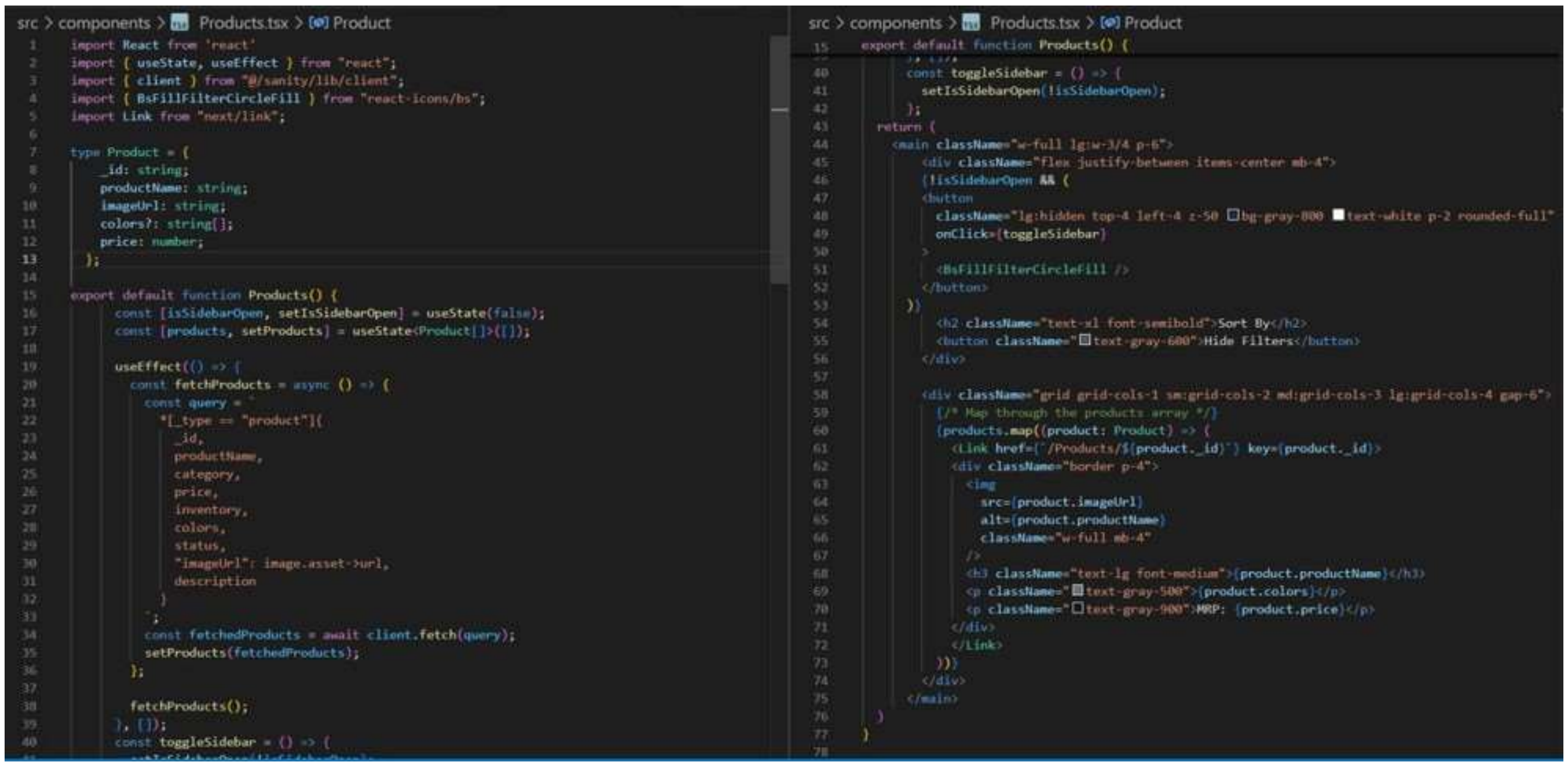
Day 04: Building Dynamic Frontend Components For Marketplace

Key Components to Build:

Product Listing Component:

Code Snippet:



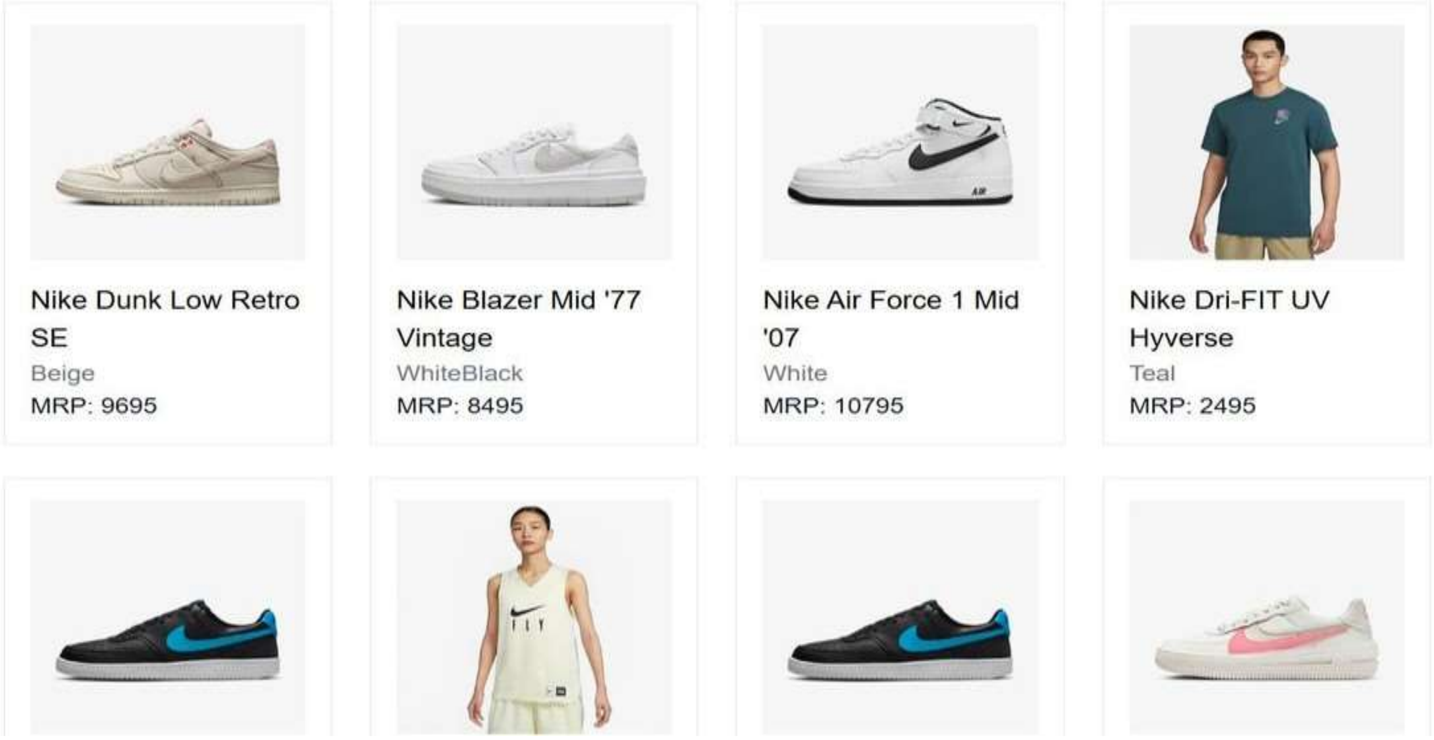
src > components > Products.tsx > Product

```
import React from 'react'
import { useState, useEffect } from "react";
import { client } from "@/sanity/lib/client";
import { BsFillFilterCircleFill } from "react-icons/bs";
import Link from "next/link";

type Product = {
    _id: string;
    productName: string;
    imageUrl: string;
    colors?: string[];
    price: number;
  };

export default function Products() {
    const [isSidebarOpen, setIsSidebarOpen] = useState(false);
    const [products, setProducts] = useState<Product[]>([]);

    useEffect(() => {
      const fetchProducts = async () => {
        const query = `
          *[_type == "product"]{
            _id,
            productName,
            category,
            price,
            inventory,
            colors,
            status,
            "imageUrl": image.asset->url,
            description
          }
        `;
        const fetchedProducts = await client.fetch(query);
        setProducts(fetchedProducts);
      };

      fetchProducts();
    }, []);
    const toggleSidebar = () => {
```

src > components > Products.tsx > Product

```
export default function Products() {
    const toggleSidebar = () => {
      setIsSidebarOpen(!isSidebarOpen);
    };
  return (
    <main className="w-full lg:w-3/4 p-6">
      <div className="flex justify-between items-center mb-4">
      {!isSidebarOpen && (
      <button
        className="lg:hidden top-4 left-4 z-50 □bg-gray-800 ■text-white p-2 rounded-full"
        onClick={toggleSidebar}
      >
        <BsFillFilterCircleFill />
      </button>
    )}
        <h2 className="text-xl font-semibold">Sort By</h2>
        <button className="□text-gray-600">Hide Filters</button>
      </div>

      <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6">
        {/* Map through the products array */}
        {products.map((product: Product) => (
          <Link href={`/Products/${product._id}`} key={product._id}>
          <div className="border p-4">
            <img
              src={product.imageUrl}
              alt={product.productName}
              className="w-full mb-4"
            />
            <h3 className="text-lg font-medium">{product.productName}</h3>
            <p className="■text-gray-500">{product.colors}</p>
            <p className="□text-gray-900">MRP: {product.price}</p>
          </div>
          </Link>
        ))}
      </div>
    </main>
  )
}
```

Output Snippet:



Nike Dunk Low Retro SE
Beige
MRP: 9695

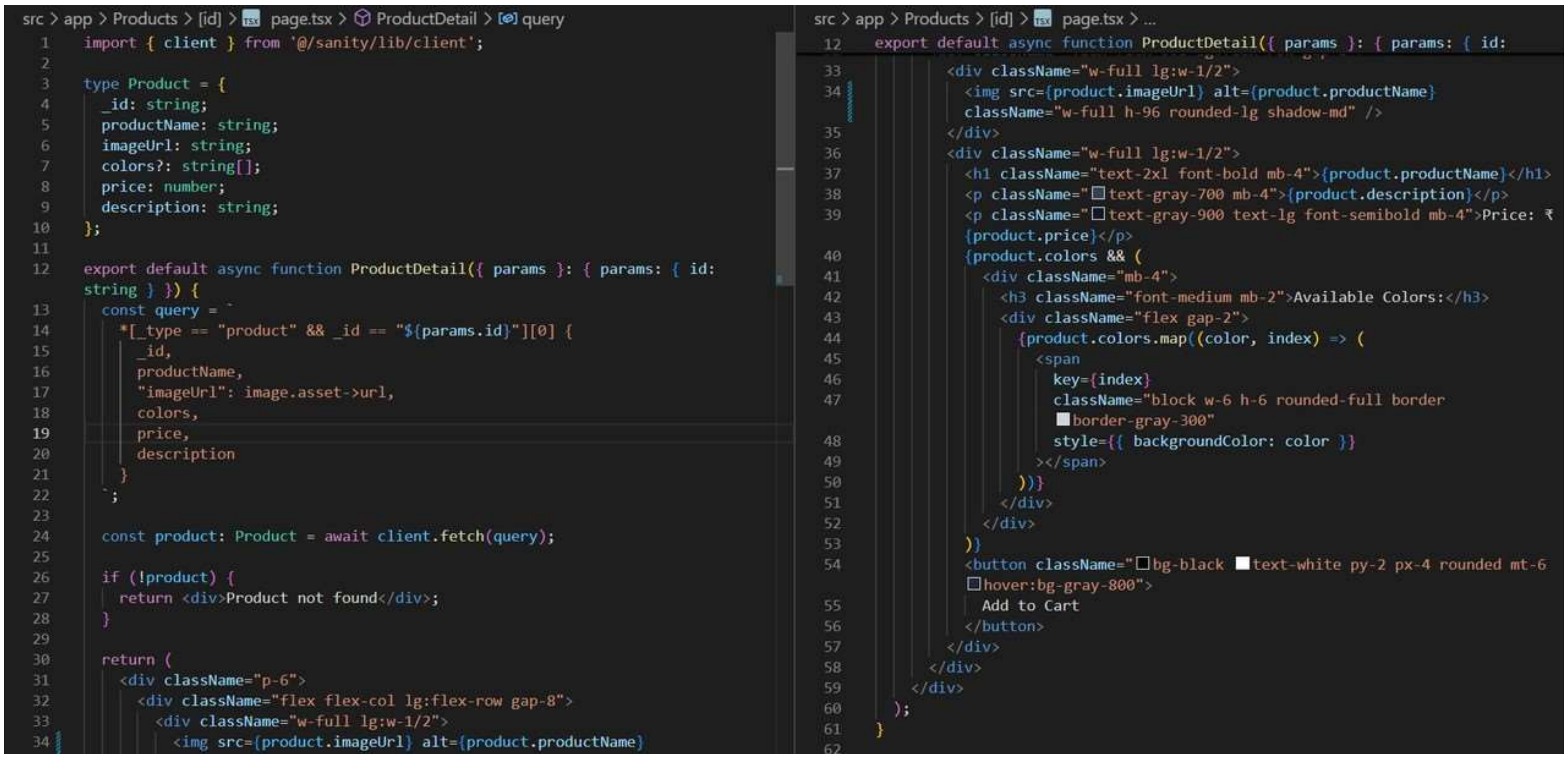
Nike Blazer Mid '77 Vintage
WhiteBlack
MRP: 8495

Nike Air Force 1 Mid '07
White
MRP: 10795

Nike Dri-FIT UV Hyverse
Teal
MRP: 2495

Product Detail Component:

Code Snippet:



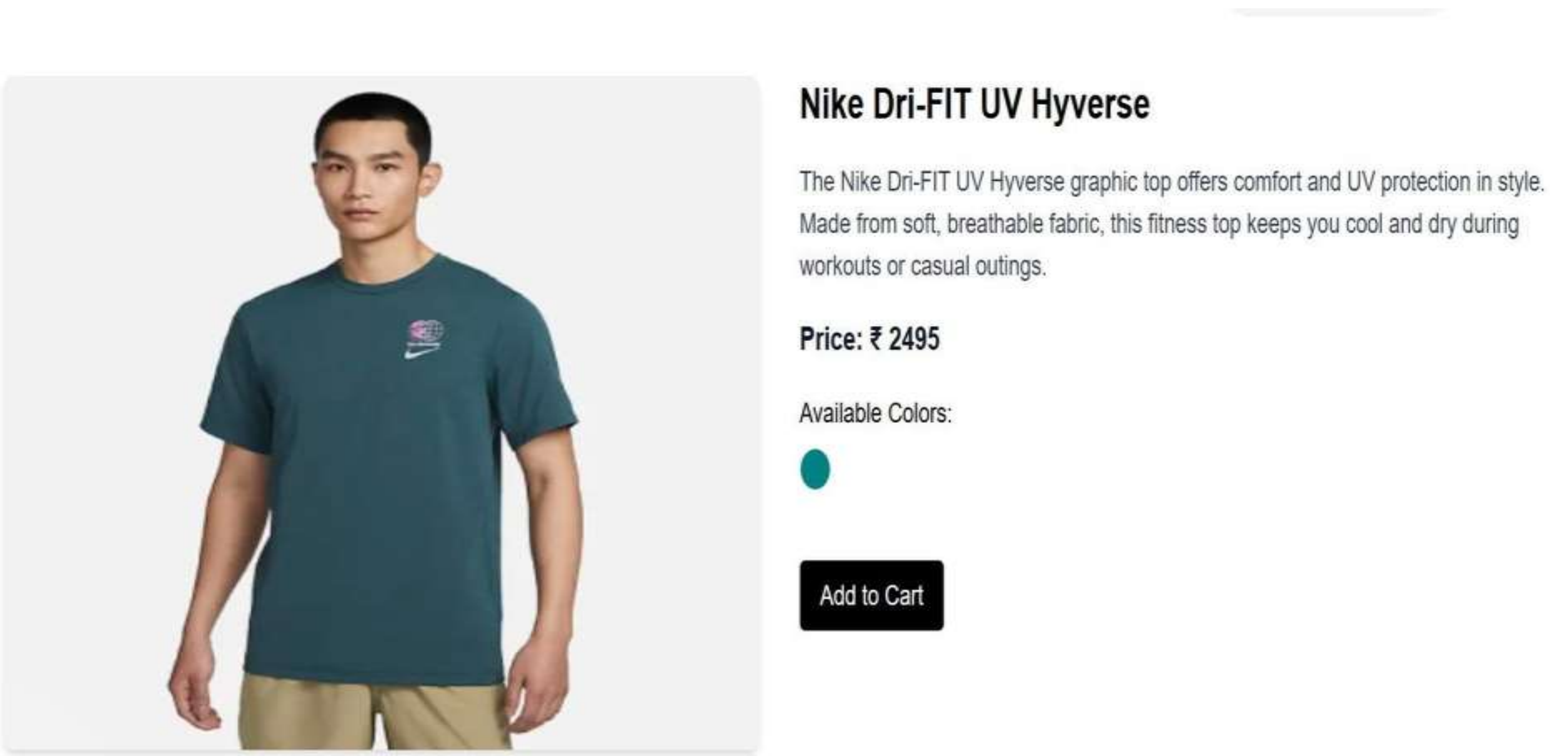
src > app > Products > [id] > page.tsx > ProductDetail > query

```tsx
import { client } from '@/sanity/lib/client';

type Product = {
  _id: string;
  productName: string;
  imageUrl: string;
  colors?: string[];
  price: number;
  description: string;
};

export default async function ProductDetail({ params }: { params: { id:
string } }) {
  const query = `
    *[_type == "product" && _id == "${params.id}"][0] {
      _id,
      productName,
      "imageUrl": image.asset->url,
      colors,
      price,
      description
    }
  `;

  const product: Product = await client.fetch(query);

  if (!product) {
    return <div>Product not found</div>;
  }

  return (
    <div className="p-6">
      <div className="flex flex-col lg:flex-row gap-8">
        <div className="w-full lg:w-1/2">
          <img src={product.imageUrl} alt={product.productName}
```

src > app > Products > [id] > page.tsx > ...

```tsx
export default async function ProductDetail({ params }: { params: { id:
        <div className="w-full lg:w-1/2">
          <img src={product.imageUrl} alt={product.productName}
          className="w-full h-96 rounded-lg shadow-md" />
        </div>
        <div className="w-full lg:w-1/2">
          <h1 className="text-2xl font-bold mb-4">{product.productName}</h1>
          <p className="text-gray-700 mb-4">{product.description}</p>
          <p className="text-gray-900 text-lg font-semibold mb-4">Price: ₹
          {product.price}</p>
          {product.colors && (
            <div className="mb-4">
              <h3 className="font-medium mb-2">Available Colors:</h3>
              <div className="flex gap-2">
                {product.colors.map((color, index) => (
                  <span
                    key={index}
                    className="block w-6 h-6 rounded-full border
                    border-gray-300"
                    style={{ backgroundColor: color }}
                  ></span>
                ))}
              </div>
            </div>
          )}
          <button className="bg-black text-white py-2 px-4 rounded mt-6
          hover:bg-gray-800">
            Add to Cart
          </button>
        </div>
      </div>
    </div>
  );
}
```

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.

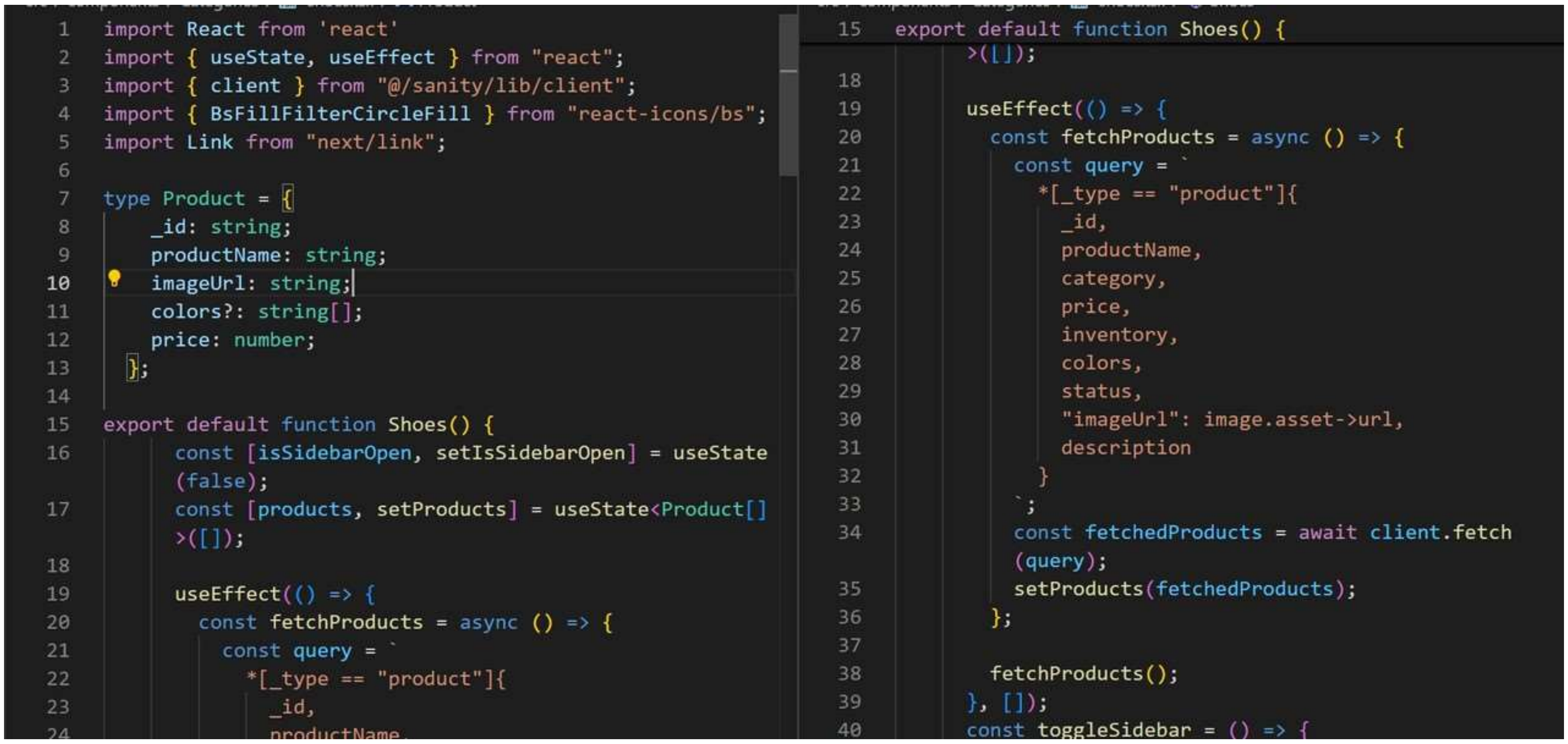
Price: ₹ 2495

Available Colors:

●

Category Component:

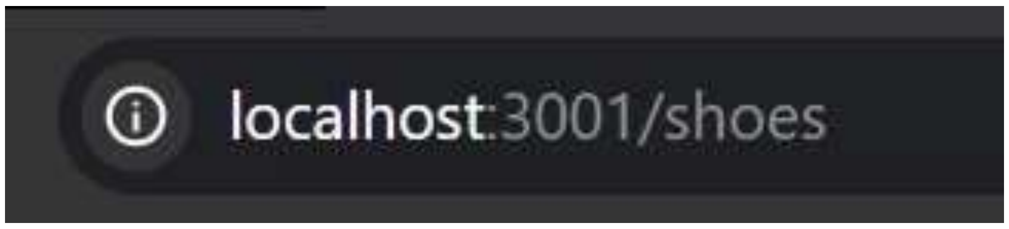
Code Snippet:



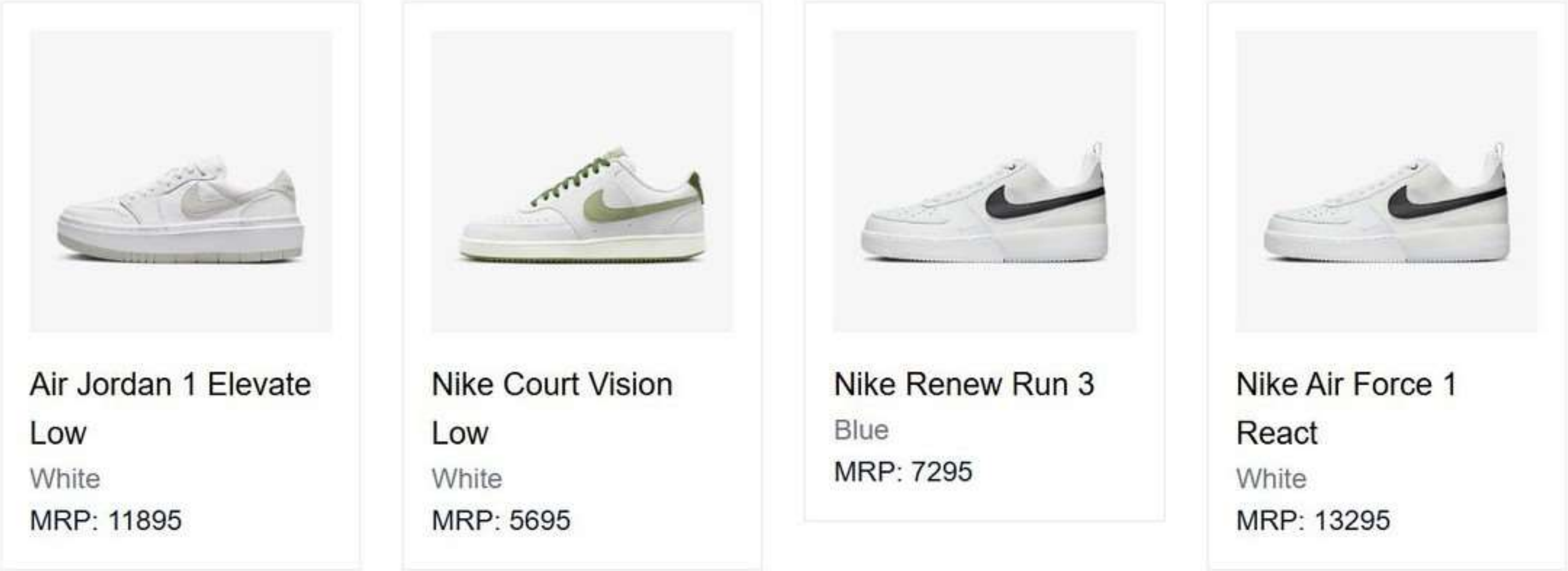
```
import React from 'react'
import { useState, useEffect } from "react";
import { client } from "@/sanity/lib/client";
import { BsFillFilterCircleFill } from "react-icons/bs";
import Link from "next/link";

type Product = {
    _id: string;
    productName: string;
    imageUrl: string;
    colors?: string[];
    price: number;
  };

export default function Shoes() {
      const [isSidebarOpen, setIsSidebarOpen] = useState
      (false);
      const [products, setProducts] = useState<Product[]
      >([]);

      useEffect(() => {
        const fetchProducts = async () => {
          const query = `
            *[_type == "product"]{
              _id,
              productName
```

```
export default function Shoes() {
      >([]);

      useEffect(() => {
        const fetchProducts = async () => {
          const query = `
            *[_type == "product"]{
              _id,
              productName,
              category,
              price,
              inventory,
              colors,
              status,
              "imageUrl": image.asset->url,
              description
            }
          `;
          const fetchedProducts = await client.fetch
          (query);
          setProducts(fetchedProducts);
        };

        fetchProducts();
      }, []);
      const toggleSidebar = () => {
```

Output Snippet:



localhost:3001/shoes



Air Jordan 1 Elevate Low
White
MRP: 11895

Nike Court Vision Low
White
MRP: 5695

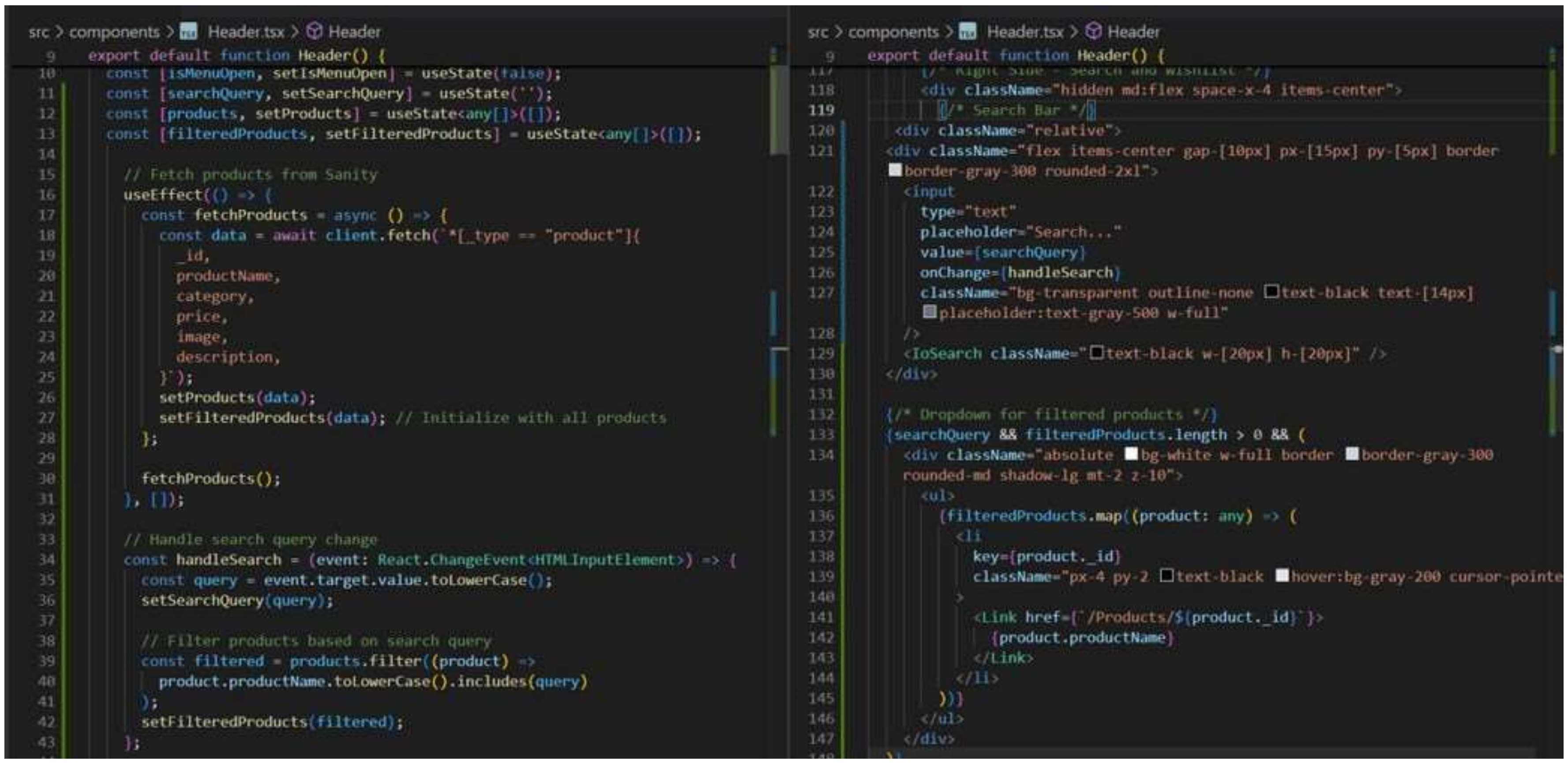
Nike Renew Run 3
Blue
MRP: 7295

Nike Air Force 1 React
White
MRP: 13295

Nadia 00379333

Search Bar:

Code Snippet:



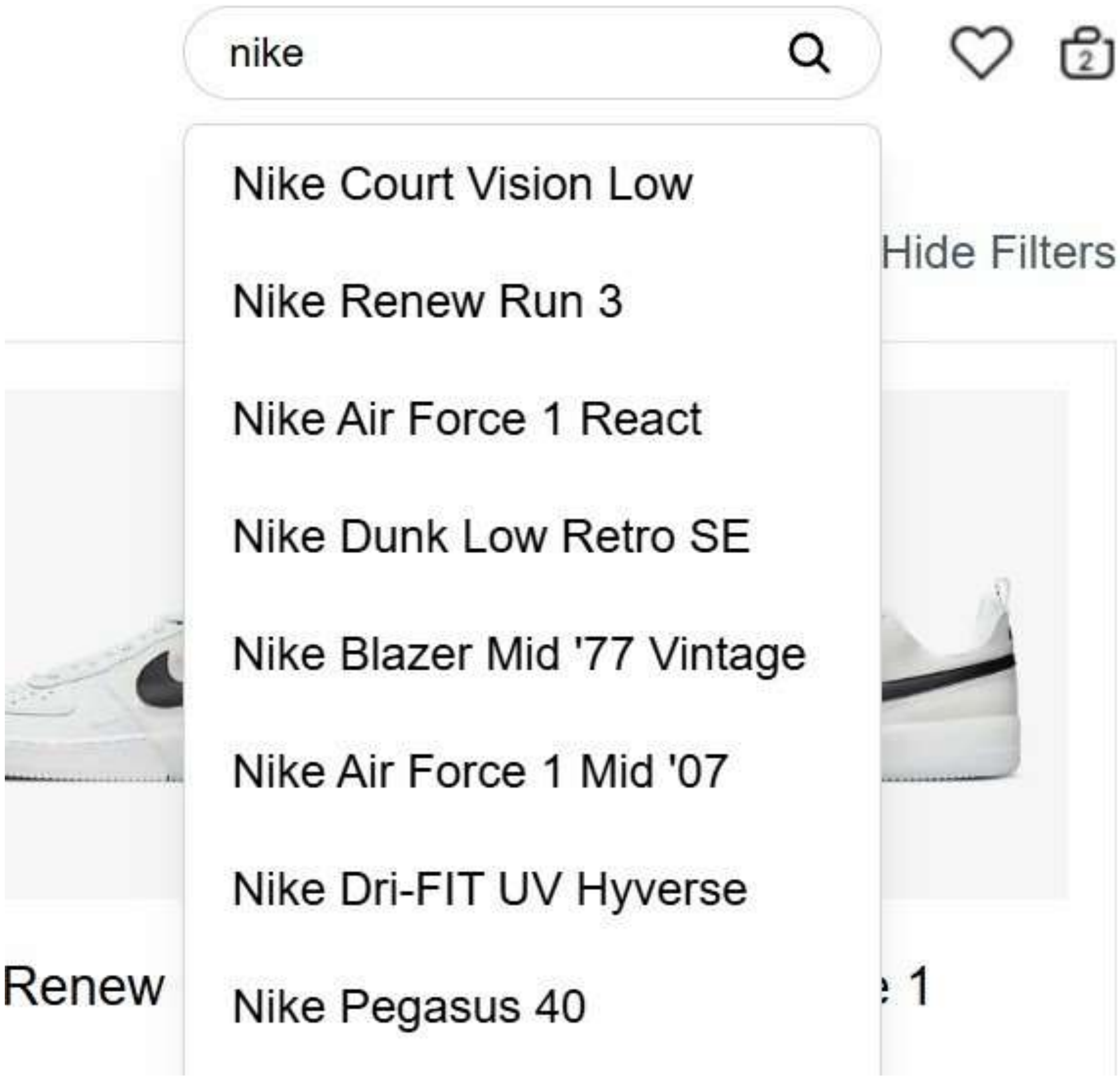
src > components > Header.tsx > Header

```
export default function Header() {
  const [isMenuOpen, setIsMenuOpen] = useState(false);
  const [searchQuery, setSearchQuery] = useState('');
  const [products, setProducts] = useState<any[]>([]);
  const [filteredProducts, setFilteredProducts] = useState<any[]>([]);

    // Fetch products from Sanity
    useEffect(() => {
      const fetchProducts = async () => {
        const data = await client.fetch(`*[_type == "product"]{
          _id,
          productName,
          category,
          price,
          image,
          description,
        }`);
        setProducts(data);
        setFilteredProducts(data); // Initialize with all products
      };

      fetchProducts();
    }, []);

    // Handle search query change
    const handleSearch = (event: React.ChangeEvent<HTMLInputElement>) => {
      const query = event.target.value.toLowerCase();
      setSearchQuery(query);

      // Filter products based on search query
      const filtered = products.filter((product) =>
        product.productName.toLowerCase().includes(query)
      );
      setFilteredProducts(filtered);
    };
```

src > components > Header.tsx > Header

```
export default function Header() {
          {/* Right Side - Search and Wishlist */}
          <div className="hidden md:flex space-x-4 items-center">
            {/* Search Bar */}
      <div className="relative">
     <div className="flex items-center gap-[10px] px-[15px] py-[5px] border
     border-gray-300 rounded-2xl">
       <input
         type="text"
         placeholder="Search..."
         value={searchQuery}
         onChange={handleSearch}
         className="bg-transparent outline-none text-black text-[14px]
         placeholder:text-gray-500 w-full"
       />
       <IoSearch className="text-black w-[20px] h-[20px]" />
     </div>

     {/* Dropdown for filtered products */}
     {searchQuery && filteredProducts.length > 0 && (
       <div className="absolute bg-white w-full border border-gray-300
       rounded-md shadow-lg mt-2 z-10">
         <ul>
           {filteredProducts.map((product: any) => (
             <li
               key={product._id}
               className="px-4 py-2 text-black hover:bg-gray-200 cursor-pointe
             >
               <Link href={`/Products/${product._id}`}>
                 {product.productName}
               </Link>
             </li>
           ))}
         </ul>
       </div>
```

Output Snippet:



nike

Nike Court Vision Low

Nike Renew Run 3

Nike Air Force 1 React

Nike Dunk Low Retro SE

Nike Blazer Mid '77 Vintage

Nike Air Force 1 Mid '07

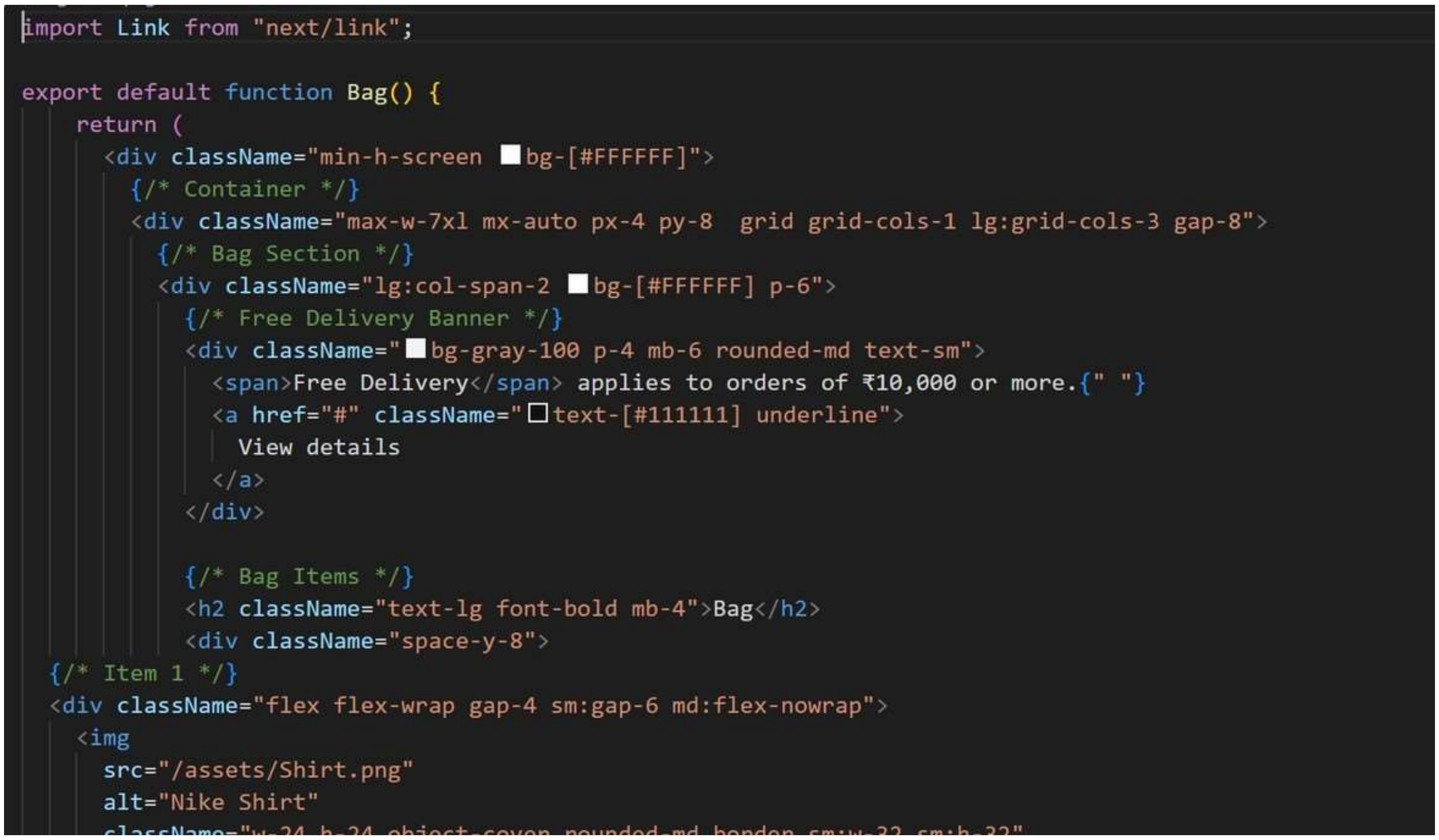
Nike Dri-FIT UV Hyverse

Nike Pegasus 40

Nadia 00379333

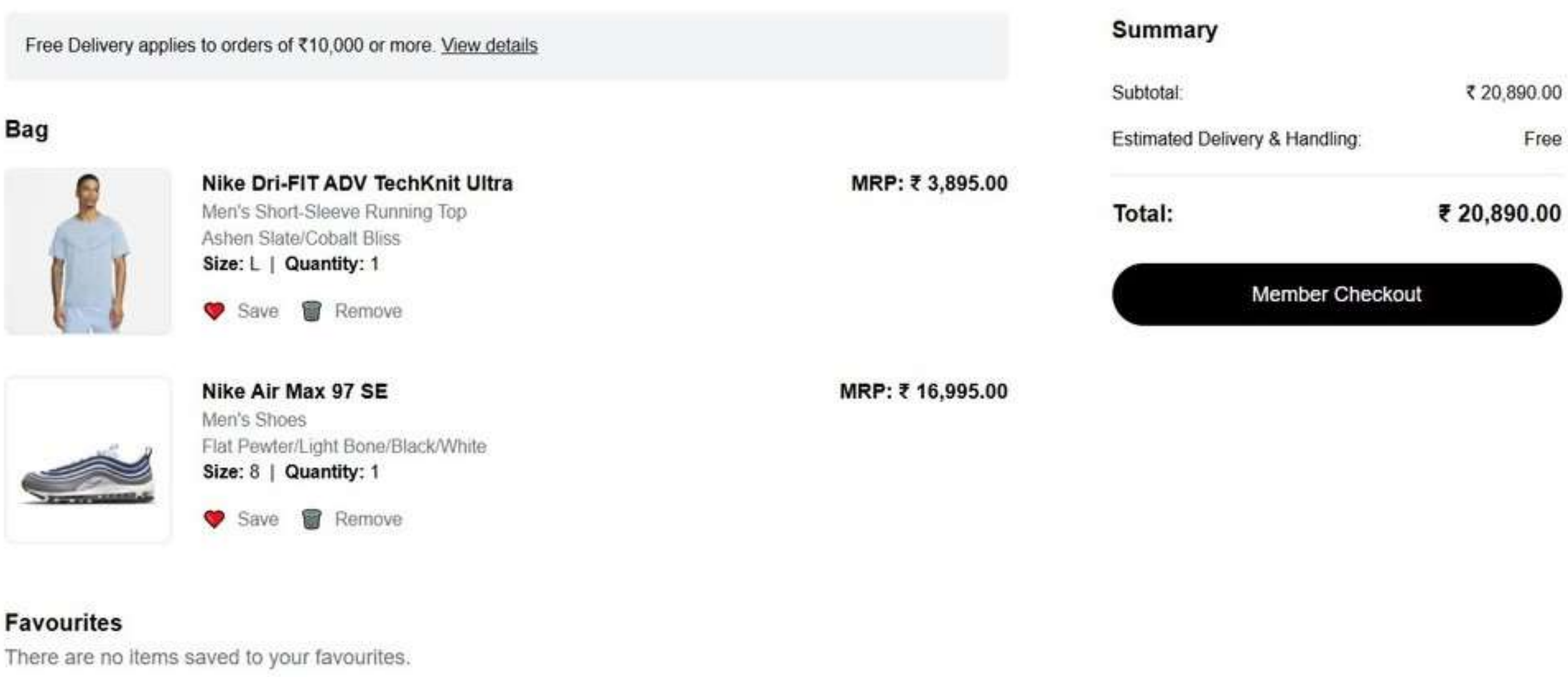
Cart Component:

Code Snippet:



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

export default function Bag() {
    return (
      <div className="min-h-screen ■bg-[#FFFFFF]">
        {/* Container */}
        <div className="max-w-7xl mx-auto px-4 py-8  grid grid-cols-1 lg:grid-cols-3 gap-8">
          {/* Bag Section */}
          <div className="lg:col-span-2 ■bg-[#FFFFFF] p-6">
            {/* Free Delivery Banner */}
            <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>

            {/* Bag Items */}
            <h2 className="text-lg font-bold mb-4">Bag</h2>
            <div className="space-y-8">
  {/* Item 1 */}
  <div className="flex flex-wrap gap-4 sm:gap-6 md:flex-nowrap">
    <img
      src="/assets/Shirt.png"
      alt="Nike Shirt"
      className="w-24 h-24 object-cover rounded-md border sm:w-32 sm:h-32"
```

Output Snippet:



Free Delivery applies to orders of ₹10,000 or more. View details

Bag

Nike Dri-FIT ADV TechKnit Ultra MRP: ₹ 3,895.00
Men's Short-Sleeve Running Top
Ashen Slate/Cobalt Bliss
Size: L | **Quantity:** 1

Nike Air Max 97 SE MRP: ₹ 16,995.00
Men's Shoes
Flat Pewter/Light Bone/Black/White
Size: 8 | **Quantity:** 1

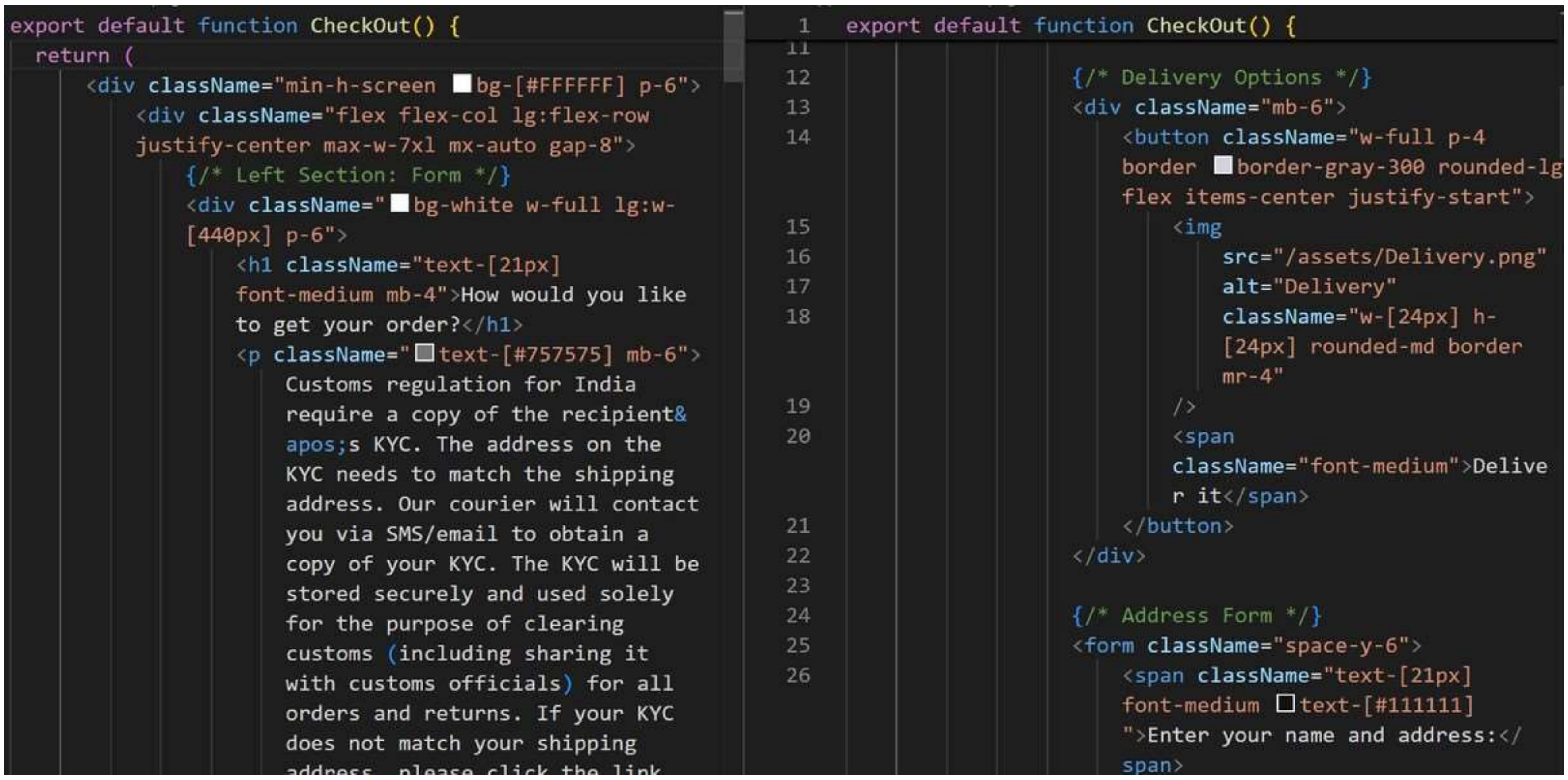
Favourites
There are no items saved to your favourites.

Summary

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

Checkout Flow Component:

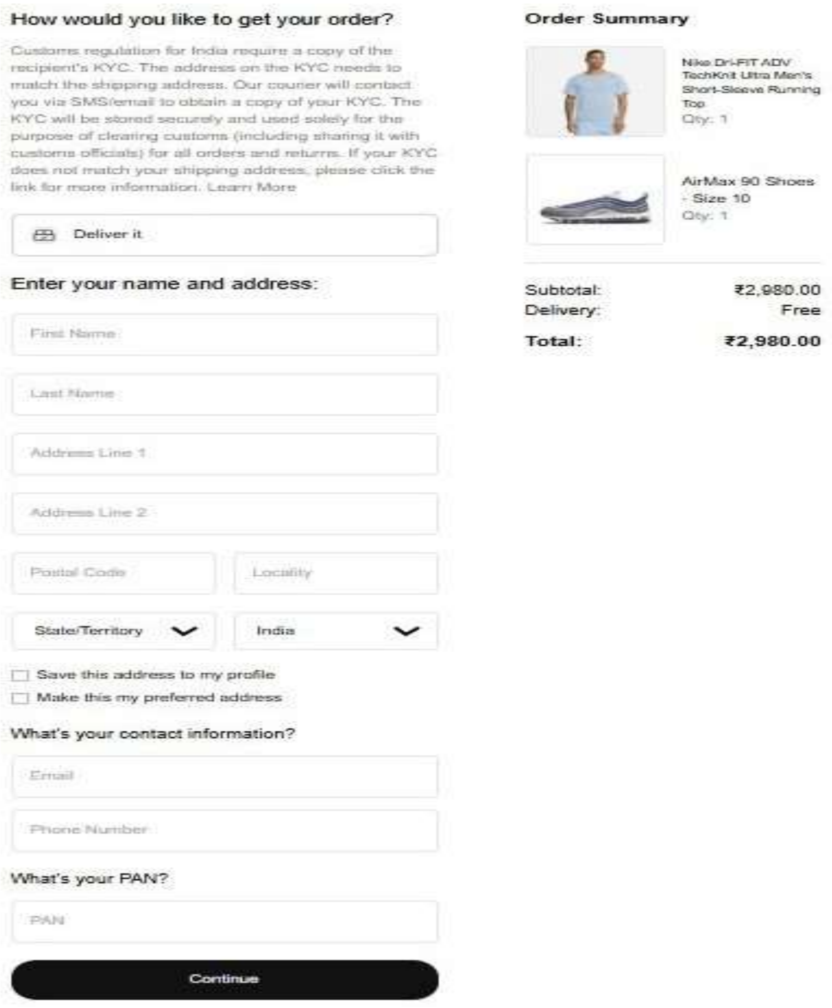
Code Snippet:



```
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&
            apos;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
```

```
export default function CheckOut() {
          {/* Delivery Options */}
          <div className="mb-6">
            <button className="w-full p-4
            border border-gray-300 rounded-lg
            flex items-center justify-start">
              <img
                src="/assets/Delivery.png"
                alt="Delivery"
                className="w-[24px] h-
                [24px] rounded-md border
                mr-4"
              />
              <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>
```

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

Enter your name and address:

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

What's your contact information?

What's your PAN?

Order Summary

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

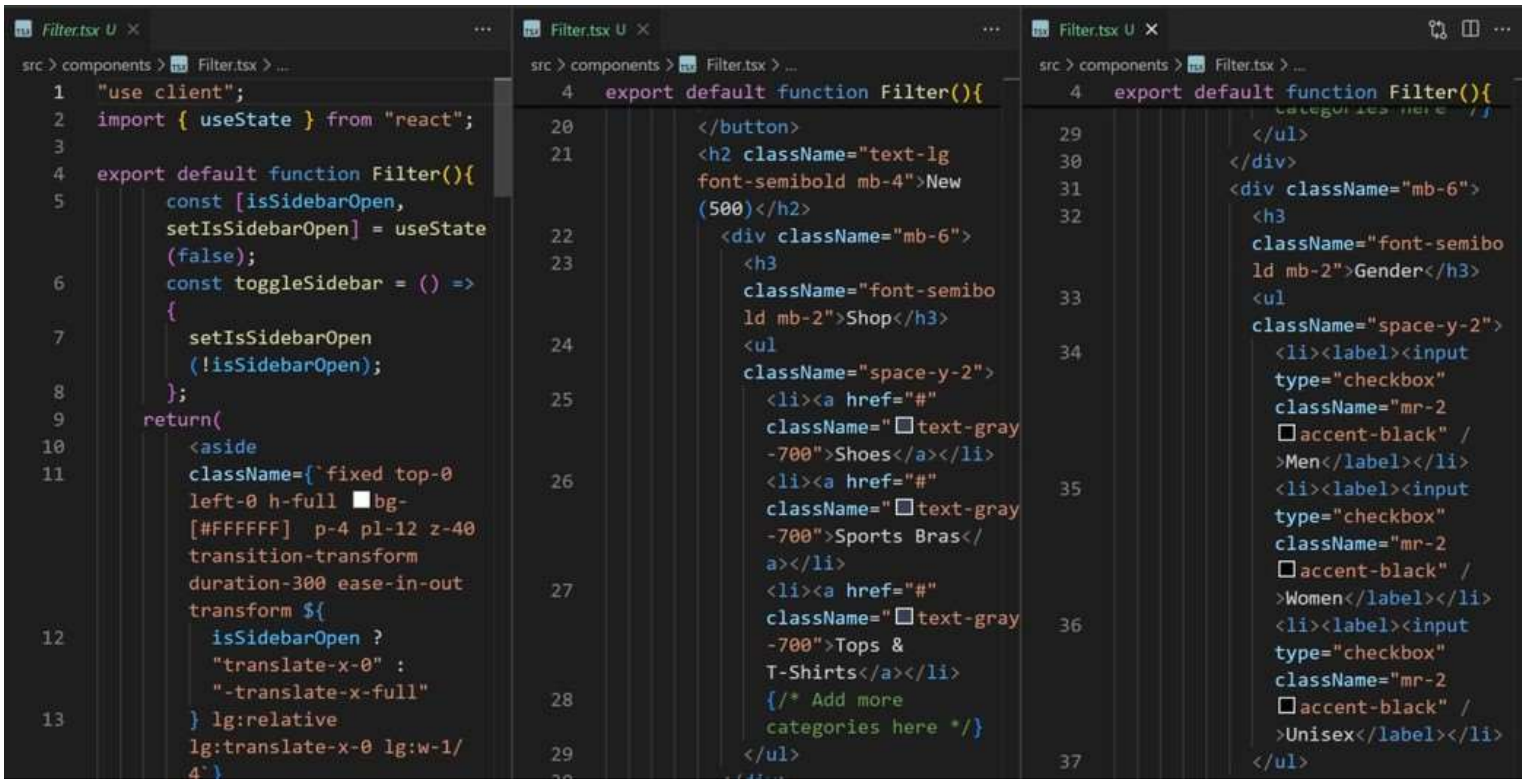
AirMax 90 Shoes - Size 10
Qty: 1

Subtotal:	₹2,980.00
Delivery:	Free
Total:	₹2,980.00

Nadia 00379333

Filter Panel Component:

Code Snippet:

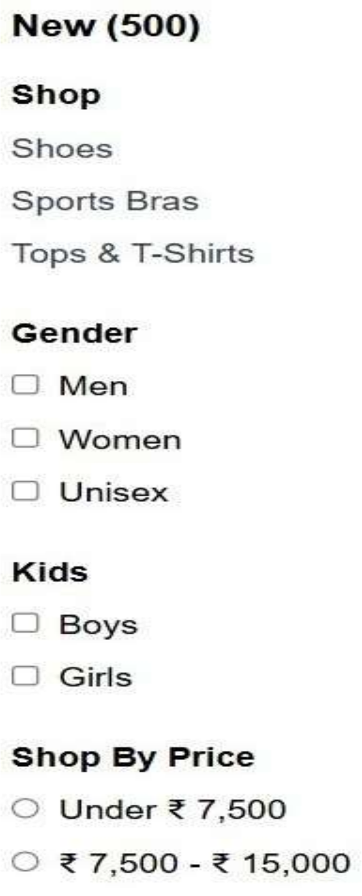


```
"use client";
import { useState } from "react";

export default function Filter(){
        const [isSidebarOpen,
        setIsSidebarOpen] = useState
        (false);
        const toggleSidebar = () =>
        {
          setIsSidebarOpen
          (!isSidebarOpen);
        };
      return(
          <aside
          className={`fixed top-0
          left-0 h-full bg-
          [#FFFFFF]  p-4 pl-12 z-40
          transition-transform
          duration-300 ease-in-out
          transform ${
            isSidebarOpen ?
            "translate-x-0" :
            "-translate-x-full"
          } lg:relative
          lg:translate-x-0 lg:w-1/
          4`}
```

```
export default function Filter(){
          </button>
          <h2 className="text-lg
          font-semibold mb-4">New
          (500)</h2>
            <div className="mb-6">
              <h3
              className="font-semibo
              ld mb-2">Shop</h3>
              <ul
              className="space-y-2">
                <li><a href="#"
                className="text-gray
                -700">Shoes</a></li>
                <li><a href="#"
                className="text-gray
                -700">Sports Bras</
                a></li>
                <li><a href="#"
                className="text-gray
                -700">Tops &
                T-Shirts</a></li>
                {/* Add more
                categories here */}
              </ul>
```

```
export default function Filter(){
              </ul>
            </div>
            <div className="mb-6">
              <h3
              className="font-semibo
              ld mb-2">Gender</h3>
              <ul
              className="space-y-2">
                <li><label><input
                type="checkbox"
                className="mr-2
                accent-black" /
                >Men</label></li>
                <li><label><input
                type="checkbox"
                className="mr-2
                accent-black" /
                >Women</label></li>
                <li><label><input
                type="checkbox"
                className="mr-2
                accent-black" /
                >Unisex</label></li>
              </ul>
```

Output Snippet:



New (500)

Shop

Shoes

Sports Bras

Tops & T-Shirts

Gender

☐ Men

☐ Women

☐ Unisex

Kids

☐ Boys

☐ Girls

Shop By Price

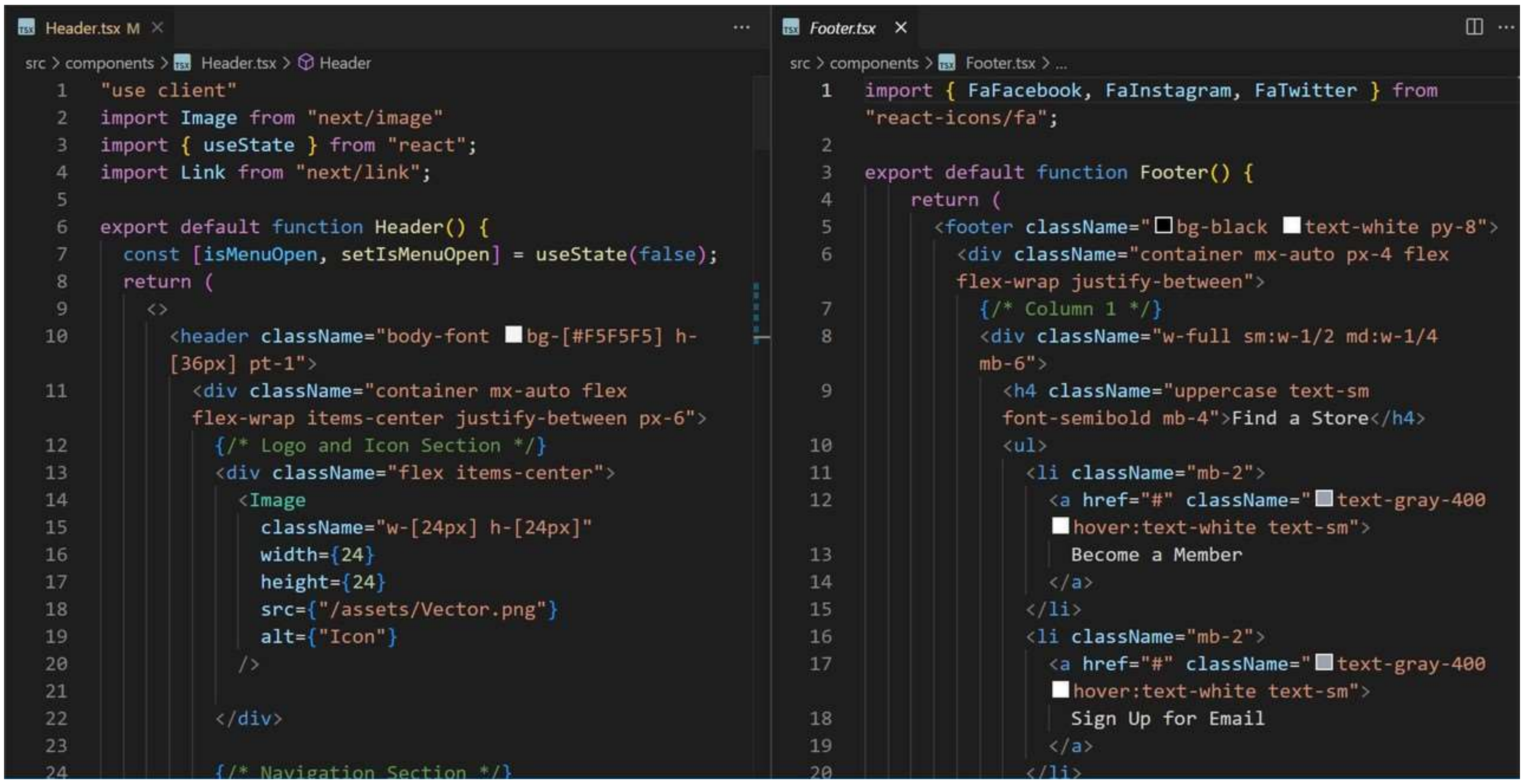
○ Under ₹ 7,500

○ ₹ 7,500 - ₹ 15,000

Nadia 00379333

Footer and Header Components:

Code Snippet:



Header.tsx M

src > components > Header.tsx > Header

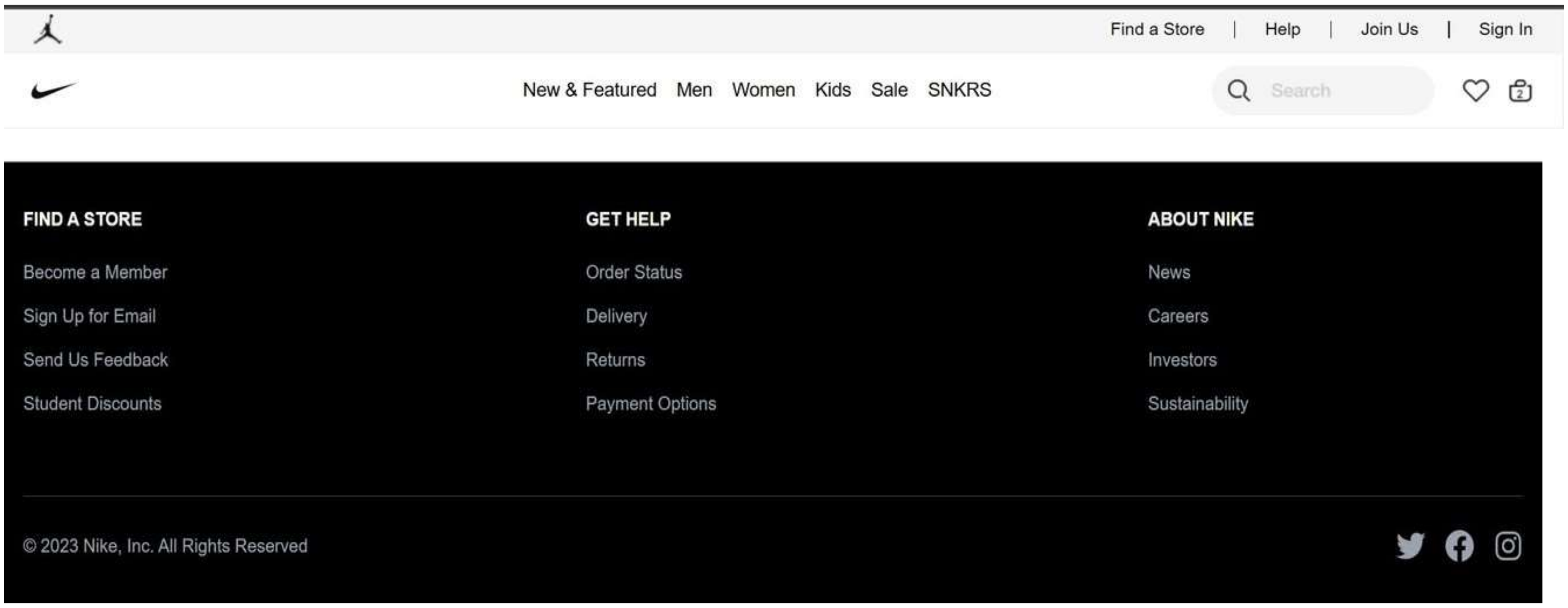
```tsx
"use client"
import Image from "next/image"
import { useState } from "react";
import Link from "next/link";

export default function Header() {
  const [isMenuOpen, setIsMenuOpen] = useState(false);
  return (
    <>
      <header className="body-font bg-[#F5F5F5] h-[36px] pt-1">
        <div className="container mx-auto flex flex-wrap items-center justify-between px-6">
          {/* Logo and Icon Section */}
          <div className="flex items-center">
            <Image
              className="w-[24px] h-[24px]"
              width={24}
              height={24}
              src={"/assets/Vector.png"}
              alt={"Icon"}
            />

          </div>

          {/* Navigation Section */}
```

Footer.tsx

src > components > Footer.tsx > ...

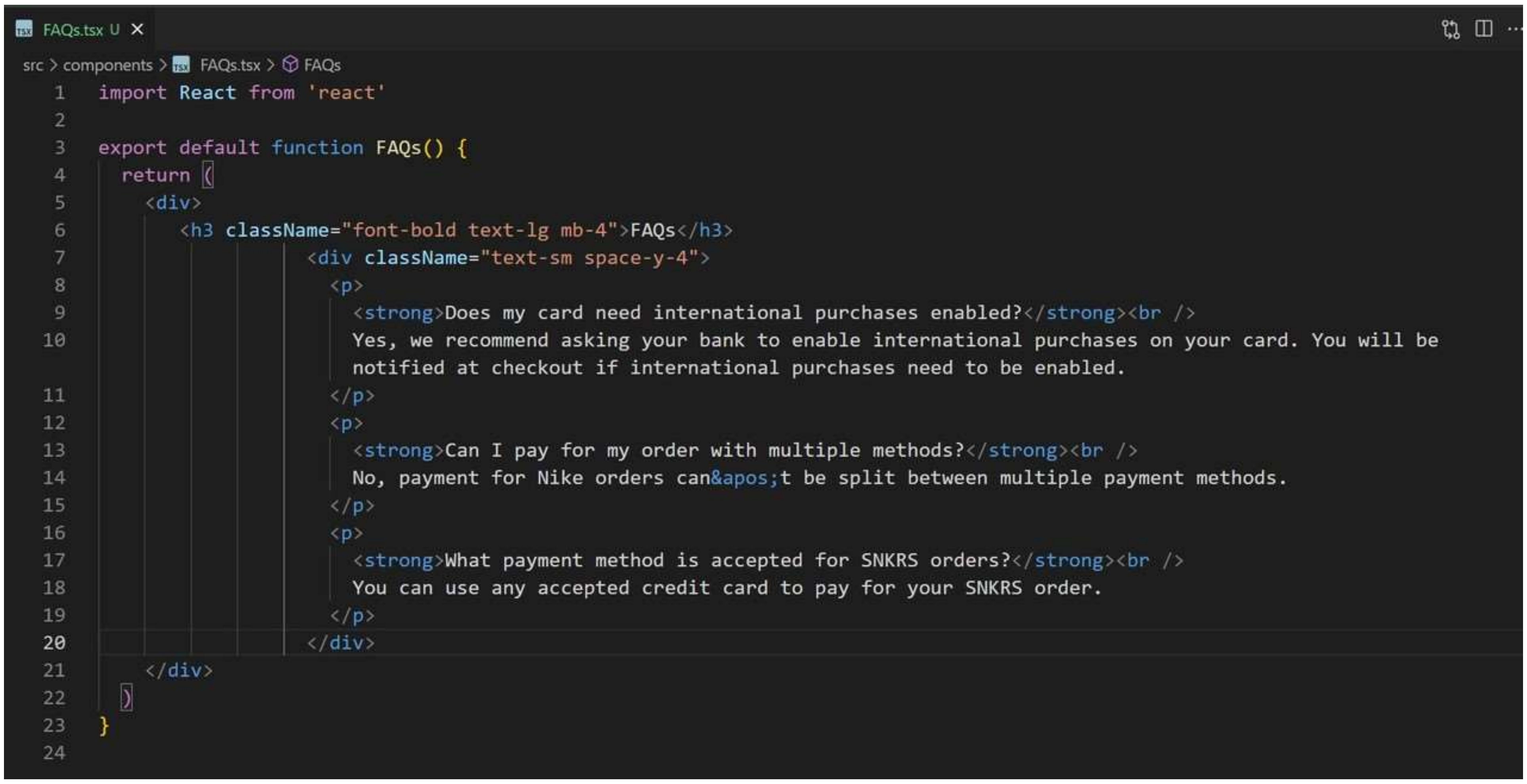
```tsx
import { FaFacebook, FaInstagram, FaTwitter } from "react-icons/fa";

export default function Footer() {
    return (
      <footer className="bg-black text-white py-8">
        <div className="container mx-auto px-4 flex flex-wrap justify-between">
          {/* Column 1 */}
          <div className="w-full sm:w-1/2 md:w-1/4 mb-6">
            <h4 className="uppercase text-sm font-semibold mb-4">Find a Store</h4>
            <ul>
              <li className="mb-2">
                <a href="#" className="text-gray-400 hover:text-white text-sm">
                  Become a Member
                </a>
              </li>
              <li className="mb-2">
                <a href="#" className="text-gray-400 hover:text-white text-sm">
                  Sign Up for Email
                </a>
              </li>
```

Output Snippet:



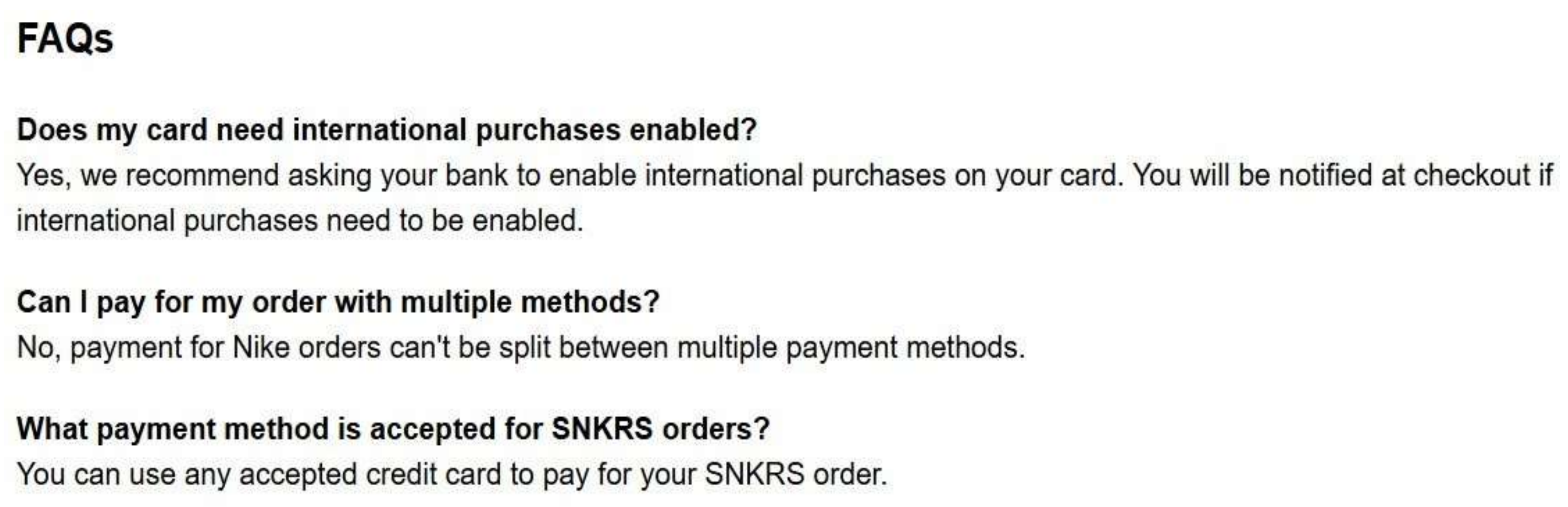
FAQ and Help Center Component:

Code Snippet:



```tsx
import React from 'react'

export default function FAQs() {
  return (
    <div>
       <h3 className="font-bold text-lg mb-4">FAQs</h3>
                  <div className="text-sm space-y-4">
                    <p>
                      <strong>Does my card need international purchases enabled?</strong><br />
                      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.
                    </p>
                    <p>
                      <strong>Can I pay for my order with multiple methods?</strong><br />
                      No, payment for Nike orders can&apos;t be split between multiple payment methods.
                    </p>
                    <p>
                      <strong>What payment method is accepted for SNKRS orders?</strong><br />
                      You can use any accepted credit card to pay for your SNKRS order.
                    </p>
                  </div>
    </div>
  )
}

```

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.

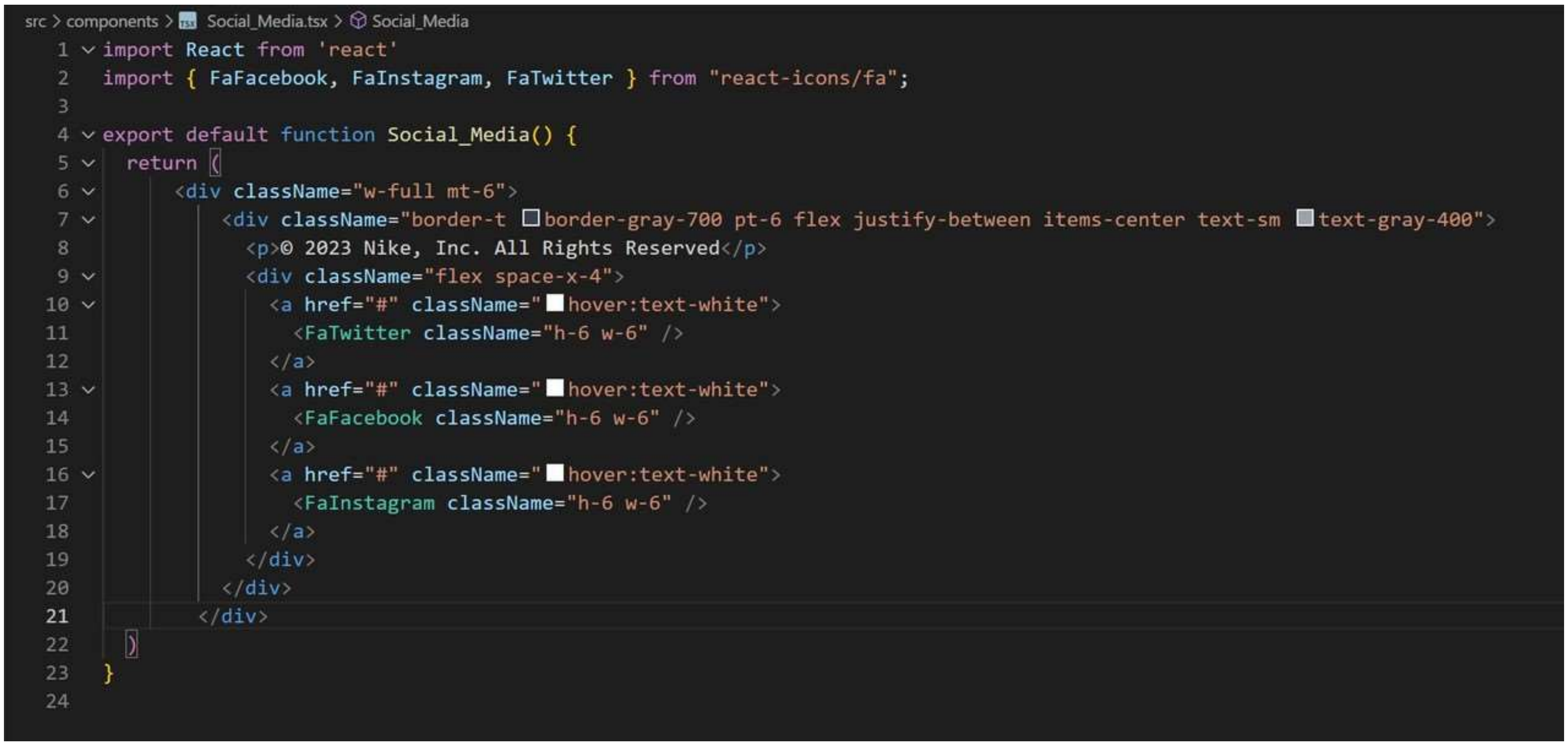
Can I pay for my order with multiple methods?
No, payment for Nike orders can't be split between multiple payment methods.

What payment method is accepted for SNKRS orders?
You can use any accepted credit card to pay for your SNKRS order.

Nadia 00379333

Social Media Sharing Component:

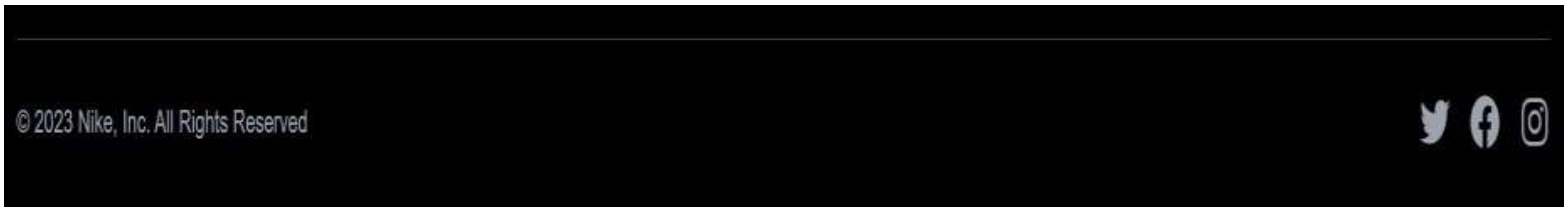
Code Snippet:



src > components > Social_Media.tsx > Social_Media

```
import React from 'react'
import { FaFacebook, FaInstagram, FaTwitter } from "react-icons/fa";

export default function Social_Media() {
  return (
      <div className="w-full mt-6">
          <div className="border-t border-gray-700 pt-6 flex justify-between items-center text-sm text-gray-400">
            <p>© 2023 Nike, Inc. All Rights Reserved</p>
            <div className="flex space-x-4">
              <a href="#" className="hover:text-white">
                <FaTwitter className="h-6 w-6" />
              </a>
              <a href="#" className="hover:text-white">
                <FaFacebook className="h-6 w-6" />
              </a>
              <a href="#" className="hover:text-white">
                <FaInstagram className="h-6 w-6" />
              </a>
            </div>
          </div>
        </div>
  )
}
```

Output Snippet:



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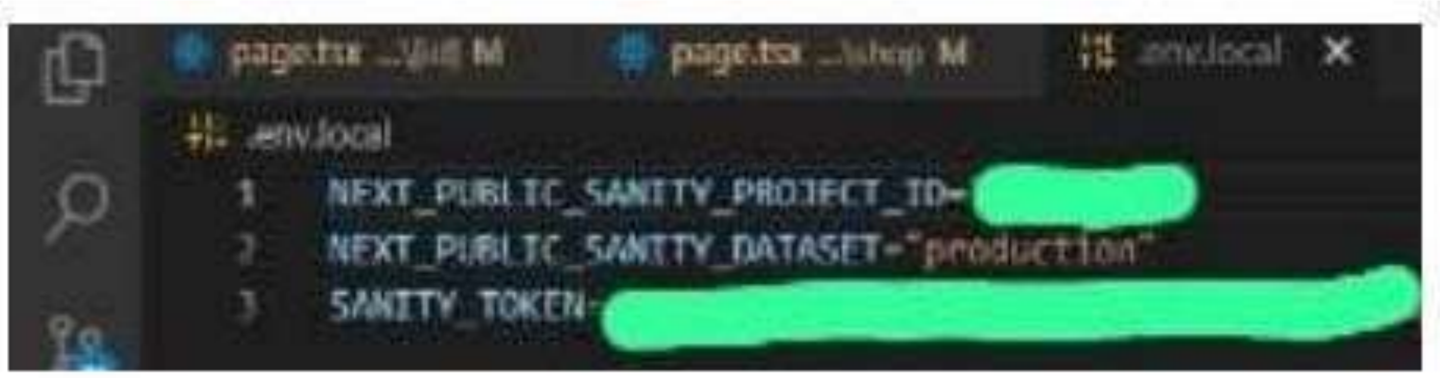
API Integration:

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:



```
NEXT_PUBLIC_SANITY_PROJECT_ID=[redacted]
NEXT_PUBLIC_SANITY_DATASET="production"
SANITY_TOKEN=[redacted]
```

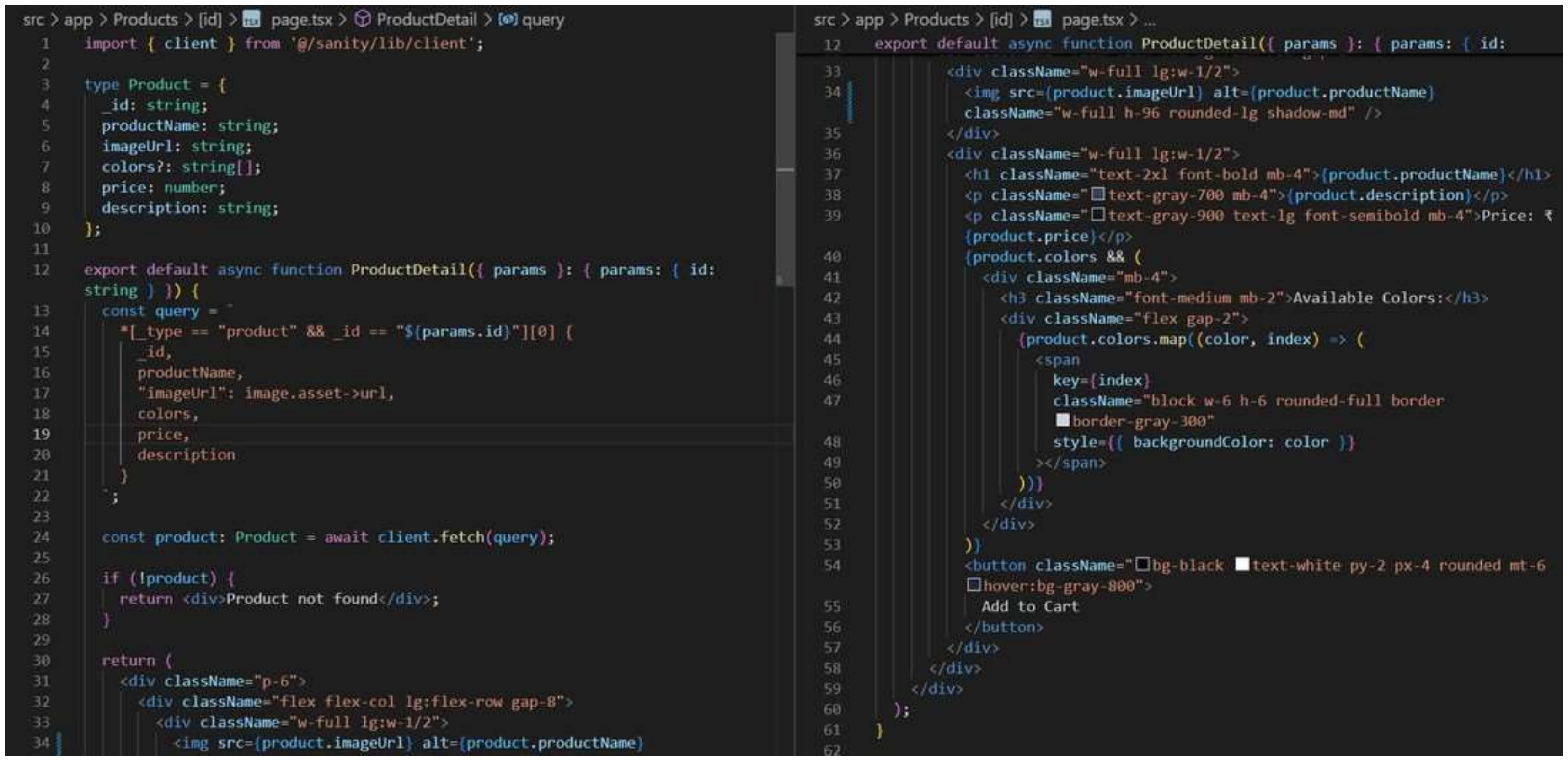
Dynamic Routing:

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:

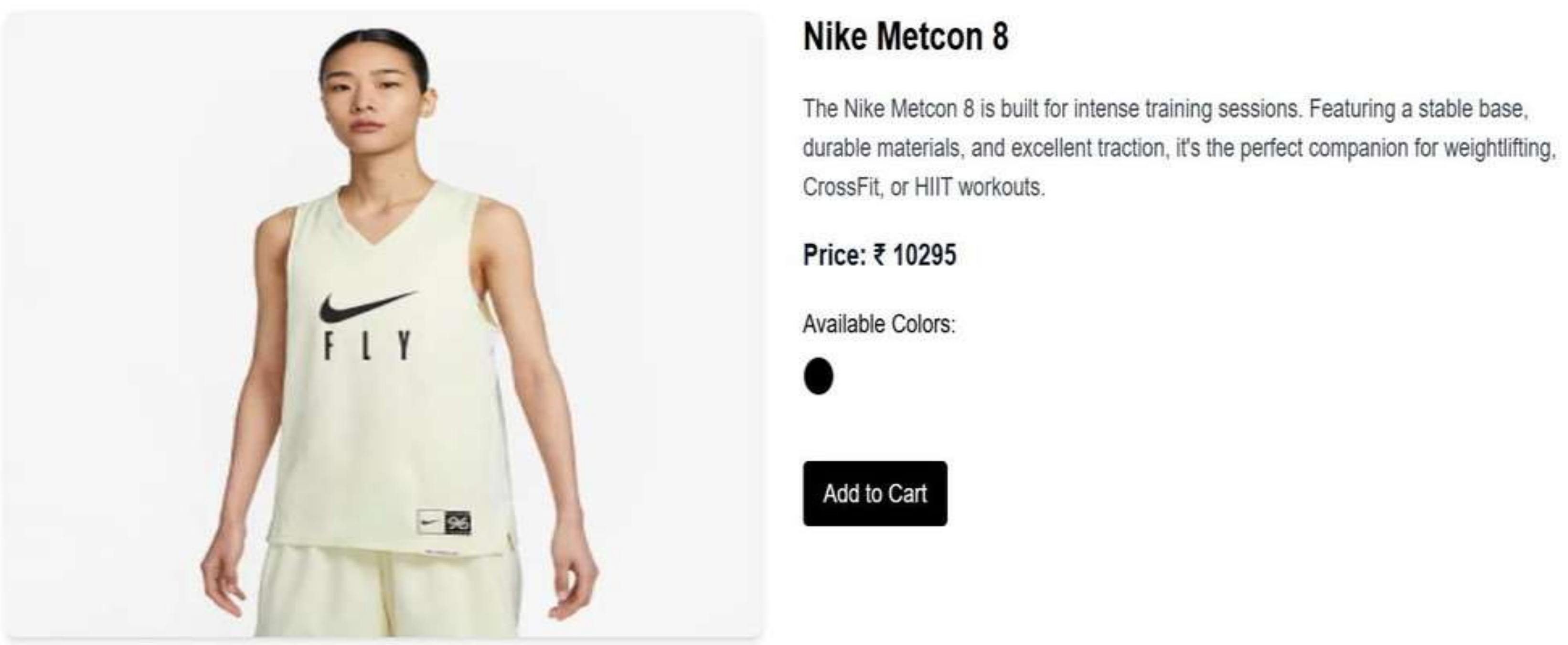
pages/Products/[id]


src > app > Products > [id] > page.tsx > ProductDetail > query

```tsx
import { client } from '@/sanity/lib/client';

type Product = {
  _id: string;
  productName: string;
  imageUrl: string;
  colors?: string[];
  price: number;
  description: string;
};

export default async function ProductDetail({ params }: { params: { id:
string } }) {
  const query = `
    *[_type == "product" && _id == "${params.id}"][0] {
      _id,
      productName,
      "imageUrl": image.asset->url,
      colors,
      price,
      description
    }
  `;

  const product: Product = await client.fetch(query);

  if (!product) {
    return <div>Product not found</div>;
  }

  return (
    <div className="p-6">
      <div className="flex flex-col lg:flex-row gap-8">
        <div className="w-full lg:w-1/2">
          <img src={product.imageUrl} alt={product.productName}
```

```tsx
export default async function ProductDetail({ params }: { params: { id:
        <div className="w-full lg:w-1/2">
          <img src={product.imageUrl} alt={product.productName}
          className="w-full h-96 rounded-lg shadow-md" />
        </div>
        <div className="w-full lg:w-1/2">
          <h1 className="text-2xl font-bold mb-4">{product.productName}</h1>
          <p className="text-gray-700 mb-4">{product.description}</p>
          <p className="text-gray-900 text-lg font-semibold mb-4">Price: ₹
          {product.price}</p>
          {product.colors && (
            <div className="mb-4">
              <h3 className="font-medium mb-2">Available Colors:</h3>
              <div className="flex gap-2">
                {product.colors.map((color, index) => (
                  <span
                    key={index}
                    className="block w-6 h-6 rounded-full border
                    border-gray-300"
                    style={{ backgroundColor: color }}
                  ></span>
                ))}
              </div>
            </div>
          )}
          <button className="bg-black text-white py-2 px-4 rounded mt-6
          hover:bg-gray-800">
            Add to Cart
          </button>
        </div>
      </div>
    </div>
  );
}
```

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:

●

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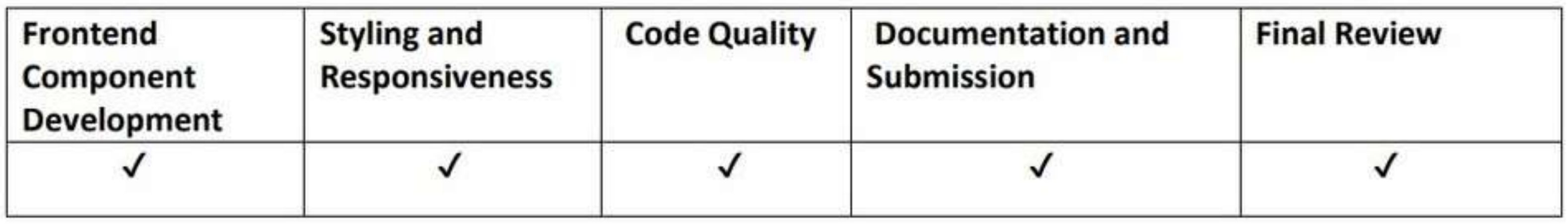
Final CheckList



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