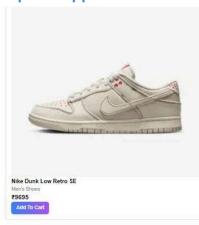
<u>Day 04: Building Dynamic Frontend</u> <u>Components For Marketplace</u>

Key Components to Build:

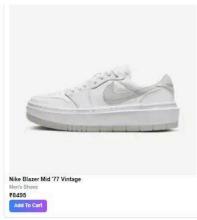
Product Listing Component:

Code Snippet:

```
import { useEffect, useState } from "react";
import { client } from "@/sanity/lib/client";
import Image from "next/image";
import Link from "next/link";
import { Product } from "../../types/products";
import { addToCart } from "../actions/actions";
import Swal from "sweetalert2";
const ProductList: React.FC = () => {
 const [products, setProducts] = useState<Product[]>([]);
  useEffect(() => {
    const fetchProducts = async () => {
      const query = '*[_type == "product"]{
        productName,
        slug,
        category,
        "imageUrl": image.asset->url
        const data: Product[] = await client.fetch(query);
        setProducts(data);
      } catch (error) {
        console.error("Error fetching products:", error);
    fetchProducts();
  const handleAddToCart = (e: React.MouseEvent, product: Product) => {
    e.preventDefault()
    Swal.fire({
      position: "top-right",
      icon: "success",
      title: ${product.productName} added to cart',
      showConfirmButton : false,
      timer: 1000
    addToCart(product)
```













Product Detail Component:

Code Snippet:

```
import { client } from "@/sanity/lib/client";
import { Product } from "../../../types/products";
import { groq } from "next-sanity";
import Image from "next/image";
import { urlFor } from "@/sanity/lib/image";
import { notFound } from "next/navigation";
import Link from "next/link";
interface ProductPageProps {
 params: { slug: string };
// Fetch Product Data from Sanity
async function getProduct(slug: string): Promise<Product | null> {
  const product = await client.fetch(
     groq
       *[_type == "product" && slug.current == $slug][0] {
         productName,
         category,
description,
          image
     { slug }
  return product;
// S Product Page Component
export default async function ProductPage({ params }: ProductPageProps) {
  const product = await getProduct(params.slug);
  // A Handle 404 Not Found
  if (!product) {
    notFound();
    <div className="max-w-6xl mx-auto px-4 py-10">
     <div className="grid grid-cols-1 md:grid-cols-2 gap-8">
```

```
div className="grid grid-cols-1 md:grid-cols-2 gap-8
{/* Product Image */}
<div className="relative aspect-square w-full max-w-md mx-auto">
 {product.image && (
   Image
    src={urlFor(product.image).url()}
    alt={product.productName}
    width={500}
    height={500}
    className="rounded-lg shadow-md object-cover w-full h-full"
[/* | Product Details */
<div className="flex flex-col gap-6">
 <h1 className="text-3xl font-bold">{product.productName}</h1>
 {product.category || "Uncategorized"}
 {product.description || "No description available"}

   {product.price ? 'f${product.price}' : "Price not available"}
 {/* L Add to Cart Button */}
 <Link href="/cart"> Add to Cart</Link>
```

Output Snippet:



Nike Dri-FIT UV Hyverse

Men's Short-Sleeve Graphic Fitness Top

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.

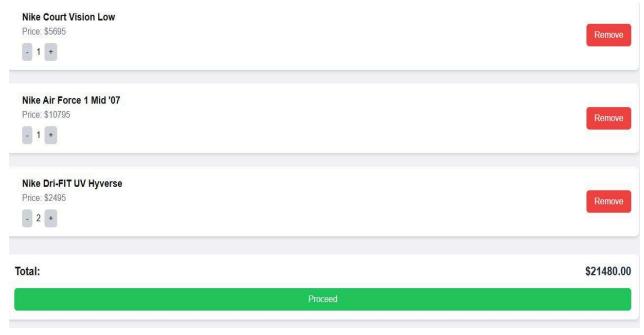
₹2495

Add to Cart

Cart Component:

Code Snippet:

```
const CartPage = () => {
  const [cartItems, setCartItems] = useState<Product[]>([]);
  useEffect(() => {
   setCartItems(getCartItems());
  const handleRemove = (id: string) => {
    Swal.fire({
      title: "Are you sure?",
      text: "You won't be able to undo this action!",
      icon: "warning",
      showCancelButton: true,
      confirmButtonColor: "#d33",
      cancelButtonColor: "#3085d6",
      confirmButtonText: "Yes, remove it!",
    }).then((result) => {
      if (result.isConfirmed) {
        removeFromCart(id);
        setCartItems(getCartItems());
        Swal.fire(
          "Removed!",
          "Item has been removed from your cart.",
```





Checkout Flow Component:

Code Snippet:

```
cport default function CheckoutPage() {
  const [discount, setDiscount] = useState<number>(0);
  const [formValues, setFormValues] = useState({
    firstName: "",
    address: "",
    city: "",
    city:
zipCode:
phone:
email:
const [formErrors, setFormErrors] = useState({
  firstName: false,
   lastName: false,
  address: false,
  city: false,
  zipCode: false,
  phone: false,
  email: false,
};
useEffect(() => {
    setCartItems(getCartItems());
    const appliedDiscount = localStorage.getItem("appliedDiscount");
    if (appliedDiscount) {
        setDiscount(Number(appliedDiscount));
    }
}
}, []);
const subtotal = cartItems.reduce(
  (total, item) => total + item.price * item.inventory,
);
const total = Math.max(subtotal - discount, 0);
 const handleInputChange = (e: React.ChangeEvent<HTMLInputElement>) => {
     setFormValues({
...formValues,
   ...rormvalues,
  [e.target.id]: e.target.value,
});
 const validateForm = () => {
    aist Valuation
const errors = {
  firstName: !formValues.firstName,
  lastName: !formValues.lastName,
  address: !formValues.address,
```

```
id="firstName"
   placeholder="Enter your first name"
   value={formValues.firstName}
   onChange={handleInputChange}
   className="border"
  (formErrors.firstName && (
   First name is required.
 <label htmlFor="lastName">Last Name </label>
   id="lastName"
   placeholder="Enter your last name"
   value={formValues.lastName}
  onChange={handleInputChange}
 (formErrors.lastName && (
   Last name is required.
<label htmlFor="address">Address </label>
 id="address"
 placeholder="Enter your address"
 value={formValues.address}
 onChange={handleInputChange}
{formErrors.address && (
 Address is required.
<label htmlFor="city">City</label>
 id="city"
 placeholder="Enter your city"
 value={formValues.city}
```

Output Snippet:

Billing Information

First Name

Last Name

Enter your first name

Enter your last name

Address Enter your address

CityEnter your city

Zip CodeEnter your zip code

PhoneEnter your phone number

EmailEnter your email address

Place Order

Header Components:

Code Snippet:



Footer Components:

Code Snippet:

```
Footertsx X
src > app > components > 🎆 Footer.tsx > _
    import Link from 'next/link';
     import React from 'react';
     import { FaFacebook, FaInstagram, FaTwitter, FaYoutube } from "react-icons/fa";
import { IolocationOutline } from 'react-icons/io5';
     const Footer = () => {
       return
        <div className="□bg-black ■text-[#FFFFFF] py-8 px-6">
          {/* Top Section */}
<div className="grid grid-cols-1 md:grid-cols-4 gap-8">
             <h3 className="text-sm font-semibold mb-4">FIND A STORE</h3>
              Link href="#" className="hover:underline mt-6">BECOME A MEMBER</Link>
                Link href="#" className="hover:underline mt-6">SIGN UP FOR EMAIL</Link>
               <Link href="#" className="hover:underline mt-6">Send Us Feedback</Link>
               Link href="#" className="hover:underline mt-6">STUDENT DISCOUNTS</Link>
             <h3 className="text-sm font-semibold mb-4">GET HELP</h3>
             Link href="#" className="hover:underline">Delivery</Link>
               Link href="#" className="hover:underline">Returns</Link>
               Link href="#" className="hover:underline">Payment Options</Link>
               k href="#" className="hover:underline">Contact Us on Nike.com</Link>k href="#" className="hover:underline">Contact Us on All Other Inquiries</Link>
             <h3 className="text-sm font-semibold mb-4 ">ABOUT NIKE</h3>
              <Link href="#" className="hover:underline">News</Link>
               Link href="#" className="hover:underline">Sustainability</Link>
```



Social Media Sharing Component:

Code Snippet:

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:

```
NEXT_PUBLIC_SANITY_PROJECT_ID=

NEXT_PUBLIC_SANITY_DATASET="production"

SANITY_API_TOKEN=
```

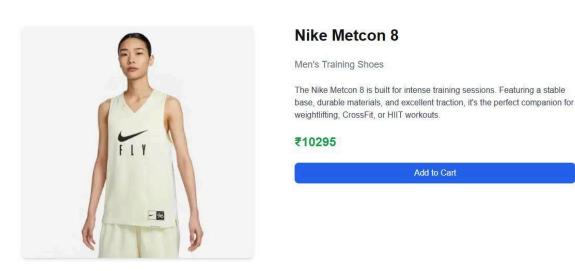
Dynamic Routing:

Dynamic routing is used to handle routes like /Productlist for individual product pages.

Create Dynamic Route File:
 In the pages directory, create a [slug] file inside the Product/[slug]

```
import { useEffect, useState } from "react";
import { client } from "@/sanity/lib/client";
import Image from "next/image";
import Link from "next/link";
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import { addToCart } from "../actions/actions";
import Swal from "sweetalert2";
const ProductList: React.FC = () => {
  const [products, setProducts] = useState<Product[]>([]);
 useEffect(() => {
    const fetchProducts = async () => {
      const query = `*[ type == "product"]{
        _id,
       productName,
       slug,
       category,
        price,
       "imageUrl": image.asset->url
       const data: Product[] = await client.fetch(query);
       setProducts(data);
      } catch (error) {
        console.error("Error fetching products:", error);
    };
   fetchProducts();
  }, []);
```

2. Get Product Data Dynamically:



Final Checklist:

- 1. Frontend Component Development : V
- 2. Styling and Responsiveness: V
- 3. Code Quality:
- 4. Documentation and Submission: V
- 5. Final Review: 🔽