DAY 4 - BUILDING DYNAMIC FRONTEND COMPONENTS FOR YOUR MARKETPLACE

 Document Title: "Day 4 - Dynamic Frontend Components - [Nike-Template-3]"

Key Learning Outcomes:

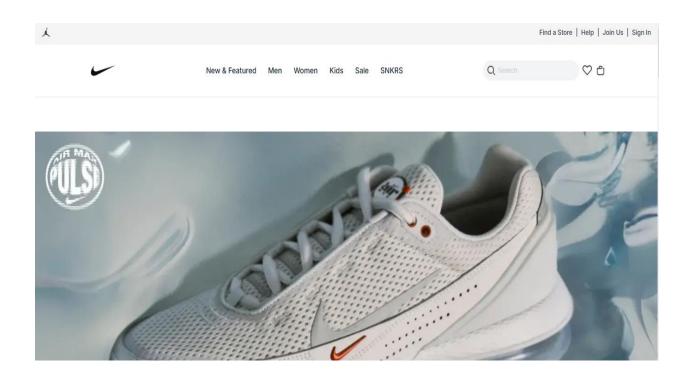
1. Build dynamic frontend components to display data from Sanity CMS or APIs.

- 2. Implement reusable and modular components.
- 3. Understand and apply state management techniques.

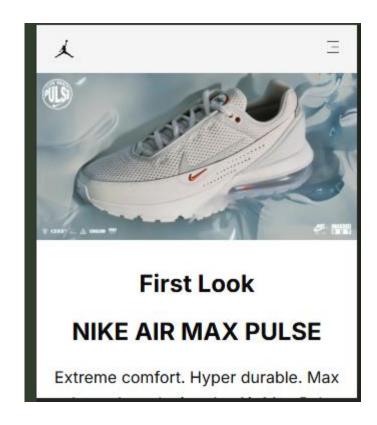
```
AirMaxSectio... M
Essential.tsx... M
                       4 import Image from "next/image";
                       import { allProducts } from "@/sanity/lib/queries";
import { Product } from "../../types/products";
 iii kidproducts
                           const ProductGalleryApi: React.FC = () => {[
    const [products, setProducts] = useState<Product[]>([]);
> 🔳 login
useEffect(() => {
                               const fetchProducts = async () => {
/ 🗂 productGall... 🌘
                                 const fetchedProducts: Product[] = await client.fetch(allProducts);
setProducts(fetchedProducts);
> 📹 studio
                               } catch (error) {
| console.error("Error fetching products:", error);
}
  womenpro...
  afavicon.ico
    layout.tsx M
                                fetchProducts();
    page.tsx M
```

- 4. Learn the importance of responsive design and UX/UI best practices.
- 5. 5. Prepare for real-world client projects by replicating professional workflows.

Laptop Screen RESPONSIVE



Mobile Screen Responsive



Key Components to Build

- 1. Product Listing Component:
- Render product data dynamically in a grid layout.

• Include fields like:

```
OPEN EDITORS
                          src > sanity > schemaTypes > TS product.ts > [@] productSchema > //9 fields
    AirMaxSectio... M
                           1 export const productSchema = {
                                   name: 'product',
title: 'Product',
type: 'document',
    Essential.tsx... M
HACKATH... [♣ 🛱 🖔 🗗
∨ 📹 src
 name: 'productName',
     # Hero2.tsx M
                                        type: 'string',
     ∰ Hero3.tsx
     Jordanspring.tsx
     Wavbar.tsx
                                       name: 'category',
title: 'Category',
type: 'string',
 > 📹 lib

✓ 

sanity

  🗸 📹 lib
                                       name: 'slug',
title: 'Slug',
                                        type: 'slug',
                                        options: {
    source: 'productName',

✓ 

schemaTypes

    TS index.ts U
name: 'price',
                                          title: 'Price',
                                          type: 'number',
   eslintrc.json
```

• Example layout: cards displaying product details.

```
const Carousel: React.FC = () => {
     <div className="flex space-x-4 overflow-x-auto sm:overflow-hidden">
      {visibleProducts.map((product) => (
          key={product._id}
          className="flex-shrink-0 w-full sm:w-1/2 md:w-1/3 ■bg-white p-4 text-center rounded-lg shadow ho
          <Link href={`/product/${product.slug?.current}`}>
             src={urlFor(product.image).url()}
             alt={product.productName}
             width={400}
             height={400}
             className="mx-auto object-cover mb-4 rounded-lg"
          <div className="md:px-10 sm:text-[8px] md:text-sm flex sm:flex-col md:flex-row items-center just</pre>
           <div className="text-start flex sm:items-center md:items-start flex-col" >
             <h3 className="□text-black font-medium">
              {product.productName}
             {product.category}
            MRP : ₹ {product.price}
```

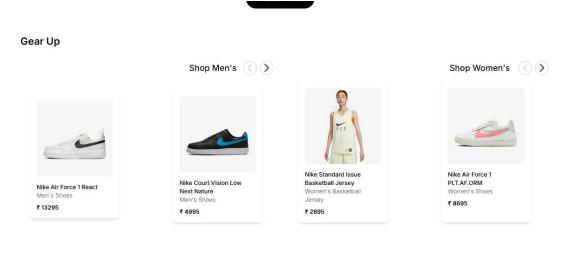
2. Product Detail Component:

- Create individual product detail pages using dynamic routing in Next.js.
- Include detailed fields such as: o Product Description o Price o Available Sizes or Colors

```
• • •
          "use client";
        "use client";
import { addToCart } from "@/cart/cart";
import { client } from "@/sanity/lib/client";
import { urlFor } from "@/sanity/lib/image";
import { groq } from "next-sanity";
import Image from "next/image";
import Link from "next/link";
import Product } from "types/products";
import Swal from "sweetalert2";
       interface productPageProps {
  params: Promise<{ slug: string }>;
}
async function getProduct(slug: string): Promise<Product> {
    return client.fetch(
    groq *[_type == "product" && slug.current == $slug][0]{
                        _id,
productName
category,
                       slug,
price,
inventory,
colors,
status,
       status,
image,
description,
_type
},
{ slug }
);
        cexport default async function ProductPage({ params }: productPageProps) {
  const { slug } = await params;
  const product = await getProduct(slug);
            const handleAddToCart = (e: React.MouseEvent, product: Product) => {
   e.preventDefault();
               e.preventberait();
Swal.fire({
   position: "top-end",
   icon: "success",
   itle: '&product.productName} added to cart',
   showConfirmButton: false,
   timer: 1000,
                       data-aos="zoom-out-up"
className="w-full lg:w-1/2 flex justify-center"
                         src={urlFor(product.image).url()}
alt={product.productName}
width={400}
                          height={400}
className="object-contain"
                    className="bg-black text-white py-3 px-6 rounded-3xl w-48 flex items-center gap-2 hover:bg-gray-800"
onClick={(e) => handleAddToCart(e, product)}
                              <span className="material-icons">
{product.image && (
                                           alt={product.productName}
width={22.36}
height={16.3}
                               Add To Cart
```

3. Category Component:

• Display categories dynamically fetched from the data source.



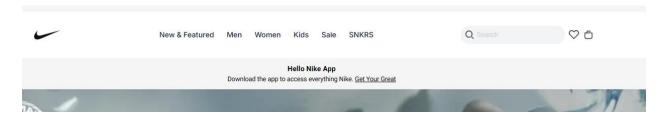
Don't Mice

• Enable filtering of products by selected categories.

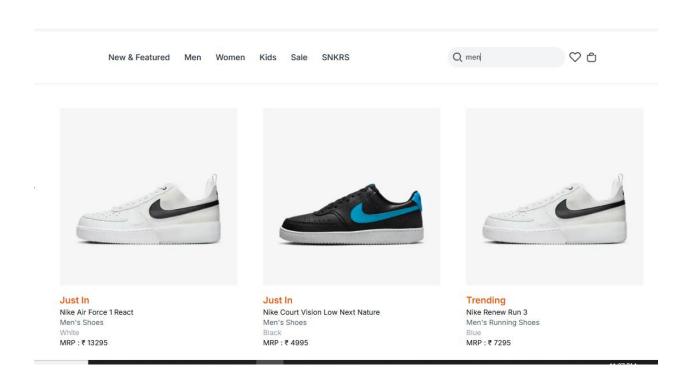
```
const GearUp: React.FC = () => {
 const [menProducts, setMenProducts] = useState<Product[]>([]);
 const [womenProducts, setWomenProducts] = useState<Product[]>([]);
 const [currentMenIndex, setCurrentMenIndex] = useState(0);
 const [currentWomenIndex, setCurrentWomenIndex] = useState(0);
 useEffect(() => {
   const fetchProducts = async () => {
       const fetchedProducts: Product[] = await client.fetch(allProducts);
       const men = fetchedProducts.filter(
         (product) =>
           product.category?.toLowerCase().includes("men")
       const women = fetchedProducts.filter(
           product.category?.toLowerCase().includes("women")
       setMenProducts(men);
       setWomenProducts(women);
     } catch (error) {
       console.error("Error fetching products:", error);
```

4. Search Bar:

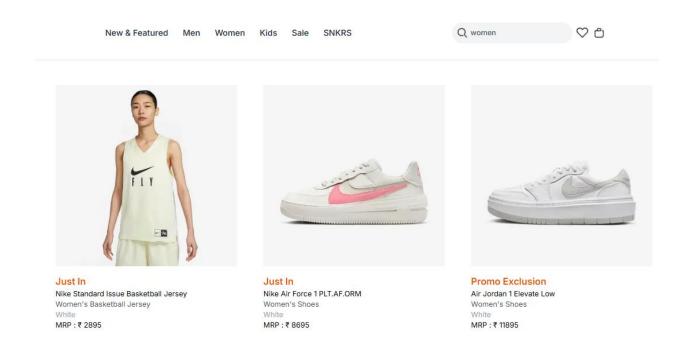
• Implement search functionality to filter products by name or tags.



Searching men product:

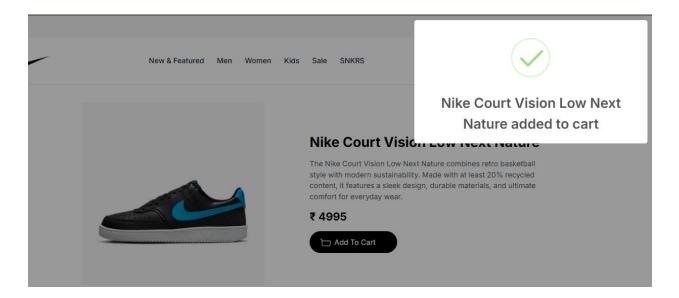


Searching women product:

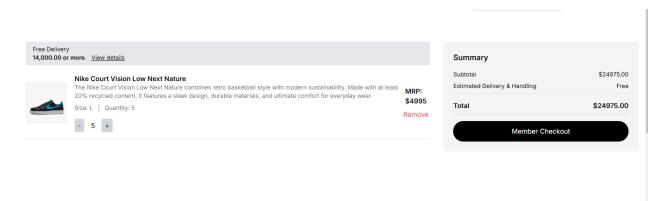


5. Cart Component:

- Display added items, quantity, and total price.
- Use state management for tracking cart items.



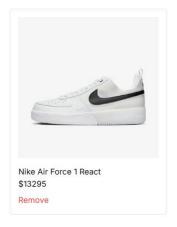
Add and remove:



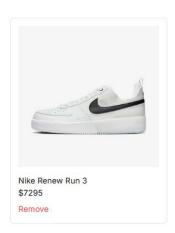
6. Wishlist Component:

- Allow users to save products for future reference.
- Use local storage or a global state management tool to persist data.

My Wishlist







Icons number add:



- Checklist for Day 4: Self-Validation Checklist:
- Frontend Component Development: 🗸
- Styling and Responsiveness: 🗸
- Code Quality:
- Documentation and Submission: 🗸
- Final Review: 🗸 🗶