Day 4 - Dynamic Frontend Components - Chairify

Tasks Completed Today:

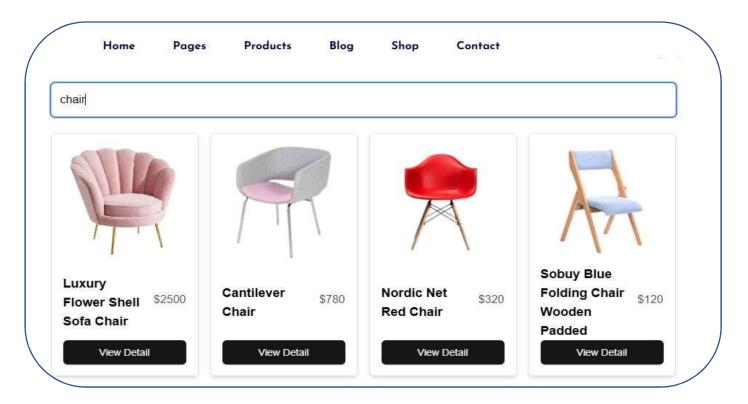
1. Product Listing Page with Dynamic Data

```
import { client } from "@/sanity/lib/client";
import { NextResponse } from "next/server";
export async function GET(request: Request) {
  const { searchParams } = new URL(request.url);
  const page = Number(searchParams.get("page")) || 1;
  const limit = Number(searchParams.get("limit")) || 10;
  const start = (page - 1) * limit;
    const products = await client.fetch(
       `*[_type == "product"] | order(_createdAt desc) [${start}...${end}] {
        "image": image.asset->url,
        price
    const totalCount = await client.fetch(
       count(*[_type == "product"])
    const totalPages = Math.ceil(totalCount / limit);
    return NextResponse.json({
      products,
      totalPages,
      currentPage: page,
  } catch (error) {
    console.error("Error fetching products:", error);
    return NextResponse.json(
      { message: "Error fetching products" },
      { status: 500 }
```

- **Objective**: Create a product listing page that dynamically fetches data.
- Implementation:
 - Connected to the API to fetch and display product data dynamically.
 - o Designed a responsive grid layout using Tailwind CSS.
 - o Included essential fields such as product name, price, and image.
- **Reference**: Aligned with the "Product Listing Component" section from the document

2. Search Bar

- **Objective**: Implement a search bar to filter products by name or tags.
- Implementation:
 - Added a search input field with debounce functionality to optimize filtering.
 - o Dynamically filtered the product list based on user input.
 - o Included a clear button to reset the search term.
- **Reference**: Built according to the "Search Bar" section in the document.

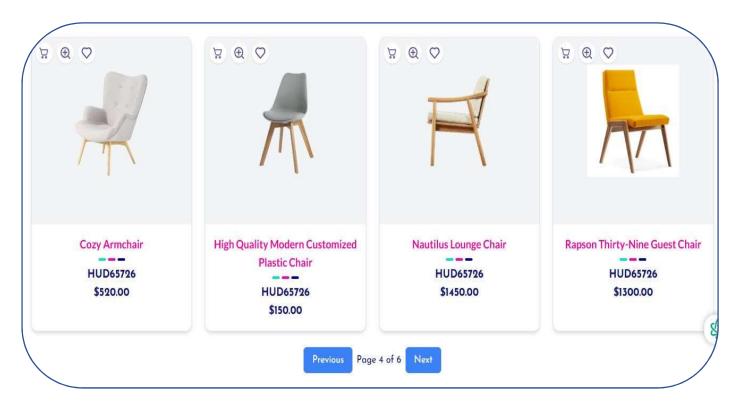


3. Pagination

• **Objective**: Divide the product list into pages to enhance performance and user experience.

Implementation:

- Set up a pagination component to navigate through pages.
- Integrated pagination with the API to fetch products based on the current page.
- Displayed navigation buttons for previous and next pages with appropriate styles.
- **Reference**: Followed the guidelines from the "Pagination Component" section in the document.



4. Product Detail Page

- Objective: Create a detailed product page using dynamic routing.
- Implementation:
 - Added dynamic routes to display individual product details.
 - Displayed additional fields such as product description, price, and stock status.
 - Ensured mobile-friendly design and smooth navigation.
- **Reference**: Developed as per the "Product Detail Component" section in the document.

```
COMME... [] 日 ひ 自
                         src > app > product > [_id] > 👺 page.tsx > 🕪 fetchProductsbyld > 🕪 query
                                 "use client";
 a public
   products
                                 import Tabs from "@/components/Tabs";
RIS STO
                                 import RelatedProducts from "@/components/RelatedProducts";

✓ Image
app

                                 import Link from "next/link";
 > about
                                 import Image from "next/image";
 > all
                                 import { useCart } from "@/context/CartContext";
  api
                    60
                                 import { client } from "@/sanity/lib/client";
 > 🔳 blog
                                 import { urlFor } from "@/sanity/lib/image";
                                 import { Product } from "../../../data/products";
   cart
                    •
                                 import { useState, useEffect } from "react";
   chekout
                                const fetchProductsbyId = async (
   contact
                                   id string
   fonts
                                 ): Promise<Product | null> => {
> login
                                   const query = `*[_type == "product" && _id == $_id][0]{
                           15
> ordercompeleted
> 📑 pages
                                     name,

✓ Improduct \ [id]

                                     price,
                                    discountPercentage,
                    U
       page.tsx
> review&rating
                                     image,
> signup
                                     rating,
> 🔳 studio
                                     category,
> UserProfile
                                     isSale.
  wishlist
                                     description,
                                    colors,
   * favicon.ico
                                     stockLevel,
   globals.css
                                     size,
   layout.tsx
                   M
   not-found.tsx
                                   const allProducts = await client.fetch(query, { _id });
```

```
type ProductDetailsProps = {
all
                                 params: {
🗦 📮 api
                  .
                                   id: string;
> 🖿 blog
> 📑 cart
> chekout
                               export default function ProductDetailsPage({ params }: ProductDetailsProps) {
                                 const { addToCart } = useCart();
> contact
                                 const { id } = params;
> 🙀 fonts
                                 const [product, setProduct] = useState<Product | null>(null);
> 🖿 login
> ordercompeleted
                                 useEffect(() => {
> pages
                                   const fetchProduct = async () => {

✓ improduct \ [id]

                                     try {
                                       const data = await fetchProductsbyId( id);
   page.tsx
                                       setProduct(data);
> review&rating
                                     } catch (error) {
> 🔳 signup
                                       console.error("Error fetching product:", error);
> 🖿 studio
UserProfile
                                   };
> wishlist
                                   fetchProduct();
  * favicon.ico
                                 }, [_id]);
  globals.css
                                 if (!product) {
  layout.tsx
                                   return (
  not-found.tsx
                                     <div className="text-center py-20 text-2xl">Product loading ...</div>
  🎡 page.tsx
                  M
components
```

roduct Details

Home / Pages Product Details





5. Wishlist Functionality

- **Objective**: Allow users to save products for future reference.
- Implementation:
 - Built a wishlist feature using local storage to persist data.
 - o Added a "Save to Wishlist" button to product cards and detail pages.

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- Styled buttons dynamically to indicate if a product is already in the wishlist.
- Reference: Used the "Wishlist Component" section for guidance.

Product Product	Price Quantity		У	Total	
Luxury Flower Shell Sofa Chair	\$2500.00		1	4.	\$2500.00
Sobuy Blue Folding Chair Wooden Padded	\$120.00	:#:	1	(#)	\$120.00
Matilda Velvet Chair - Pink	\$600.00	727	1	+	\$600.00
Armchair Tortuga	\$850.00	-	Ŧ	+	\$850.00

6. Cart with Functionalities

- **Objective**: Enable users to add, remove, and view products in the cart.
- Implementation:
 - o Integrated a cart context to manage the cart state globally.
 - Added "Add to Cart" buttons with dynamic styling (e.g., color change on adding to cart).
 - Included cart functionalities such as increasing/decreasing quantities and calculating the total price.
- **Reference**: Followed the "Cart Component" section in the document.

Summary of Professional Practices:

1. Dynamic Data Handling:

o Fetched data dynamically from APIs for a real-world, scalable setup.

2. Responsive Design:

 Used Tailwind CSS to ensure all components are mobile and desktop friendly.

3. Reusable Components:

o Created modular components like ProductCard, Pagination, and SearchBar for easy reuse and maintenance.

4. State Management:

o Utilized React Context for managing cart and wishlist functionality.

5. User Experience Enhancements:

 Added visual feedback (e.g., dynamic button styling) to improve interactivity.

Next Steps:

- 1. Implement professional multi-language support across the website.
- 2. Enhance the search functionality with advanced filters and suggestions.
- 3. Optimize API calls for better performance.
- 4. Add user authentication to integrate personalized features like wishlists and carts.

Submission Requirements:

- Screenshots or screen recordings of:
 - o Product listing page with dynamic data.
 - o Functional search bar and pagination.
 - o Product detail page with accurate routing.
 - Working wishlist and cart functionalities.
- Code snippets for key components (e.g., ProductCard, Pagination, SearchBar).

Self-Validation Checklist

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