DAY 4 - BUILDING DYNAMIC FRONTEND COMPONENTS FOR MARKETPLACE

Overview

On **Day 4**, I focused on designing and developing dynamic frontend components for my marketplace project. The objective was to create reusable, scalable, and modular components that fetch and display data dynamically from **Sanity CMS** or APIs. The development was done while ensuring a responsive and user-friendly UI.

Components Developed

I successfully implemented the following key components:

✓ **Product Listing Component**

✓ **Product Detail Component**

✓ **Category Component**

✓ **Search Bar**

✓ **Cart Component**

✓ **Wishlist Component**

✓ **Checkout Flow Component**

✓ **User Profile & Authentication Component**

✓ **Reviews and Ratings Component**

✓ **Pagination Component**

Product Listing Components

▲ Dynamically fetched product data.

▲ Displayed in a responsive grid layout.

▲ Fields: Product Name, Price, Image, Stock Status etc.

▲ Implemented sorting and filtering options.

Product Detail Component

▲ Implemented dynamic routing for individual product pages.

▲ Displayed detailed information including Description, Price, Available Sizes/Colors, and Customer Reviews.

▲ Included an "Add to Cart" button for seamless purchasing.

Category Component

▲ Dynamically fetched and displayed product categories.

▲ Enabled category-based product filtering.

▲ Optimized for fast loading and smooth transitions.

Search Bar

▲ Implemented search functionality to filter products by name or tags.

▲ Optimized for real-time suggestions and keyword-based results.

Cart Component

▲ Allowed users to add/remove items.

▲ Tracked quantity and total price using state management.

▲ Displayed a summary of selected products before checkout.

Wishlist Component

▲ Enabled users to save products for later.

▲ Used Local Storage for persistence.

▲ Integrated a "Move to Cart" option for quick purchasing.

Checkout Flow Component

▲ Created a multi-step form including Billing, Shipping, and Payment details.

▲ Implemented a secure checkout process with order confirmation.

User Profile & Authentication Component

▲ Implemented **Login & Signup** functionality for user authentication.

▲ Displayed user details like Name, Email, Order History, and Saved Addresses.

▲ Provided an editable profile section for better customization.

Reviews and Ratings Component

▲ Allowed users to submit and view reviews dynamically.

▲ Included a star rating system for better product insights.

Pagination Component

▲ Implemented page-based navigation for large product lists.

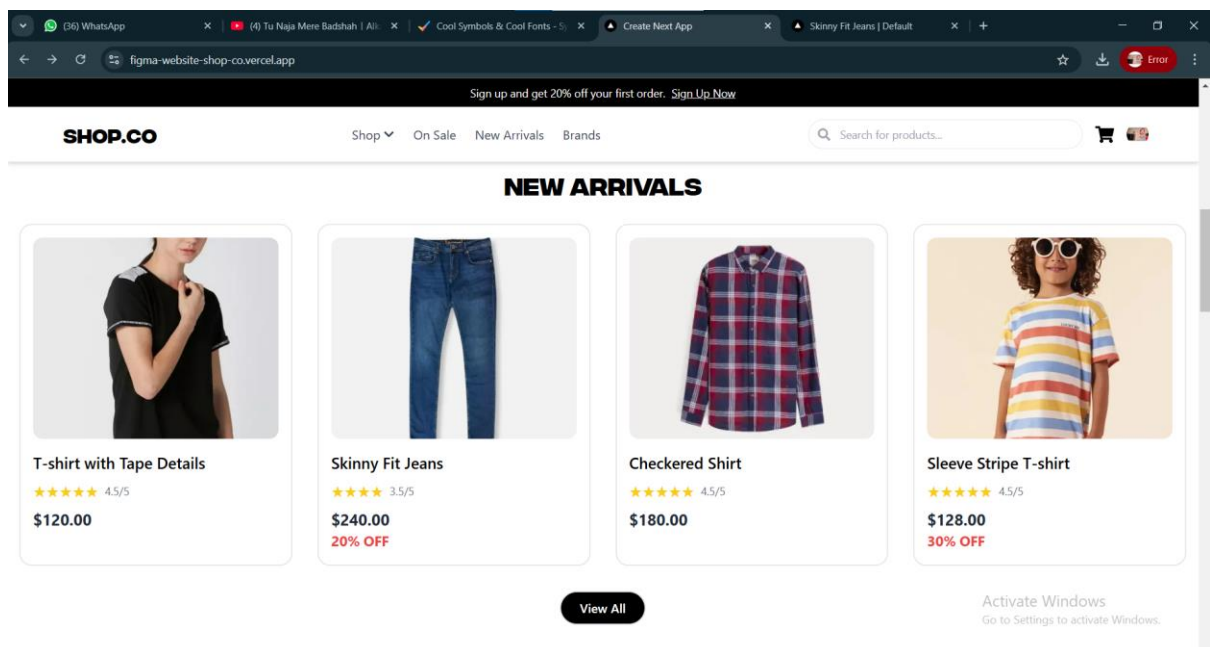▲ Added "Load More" functionality for infinite scrolling.

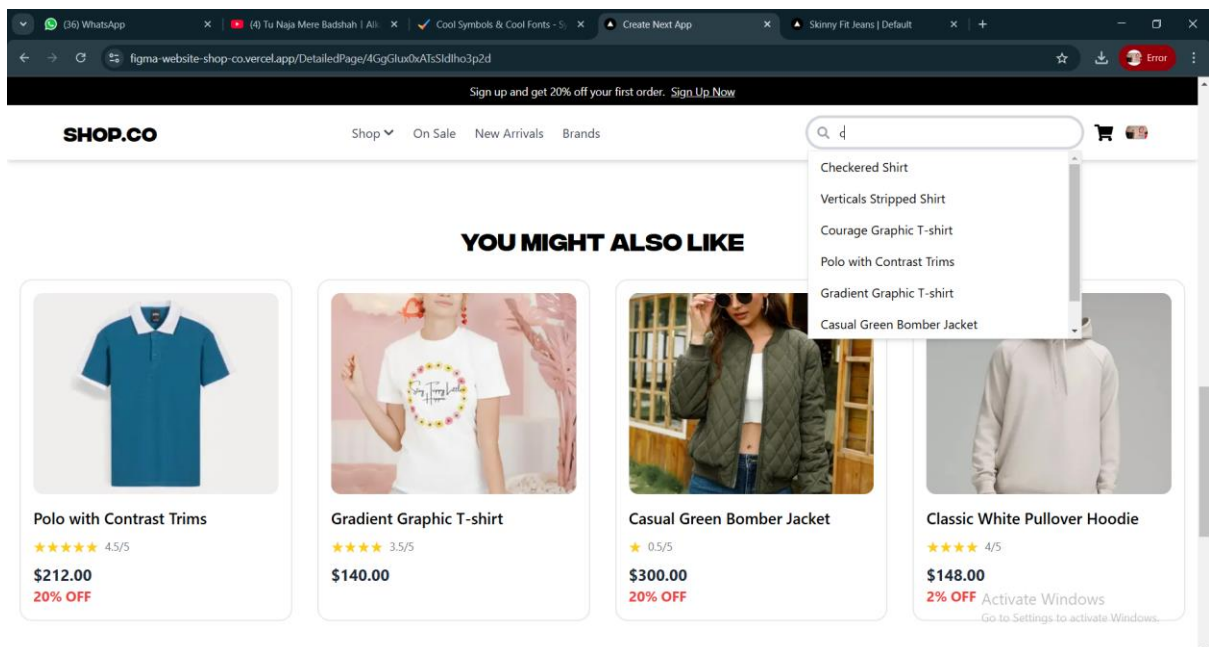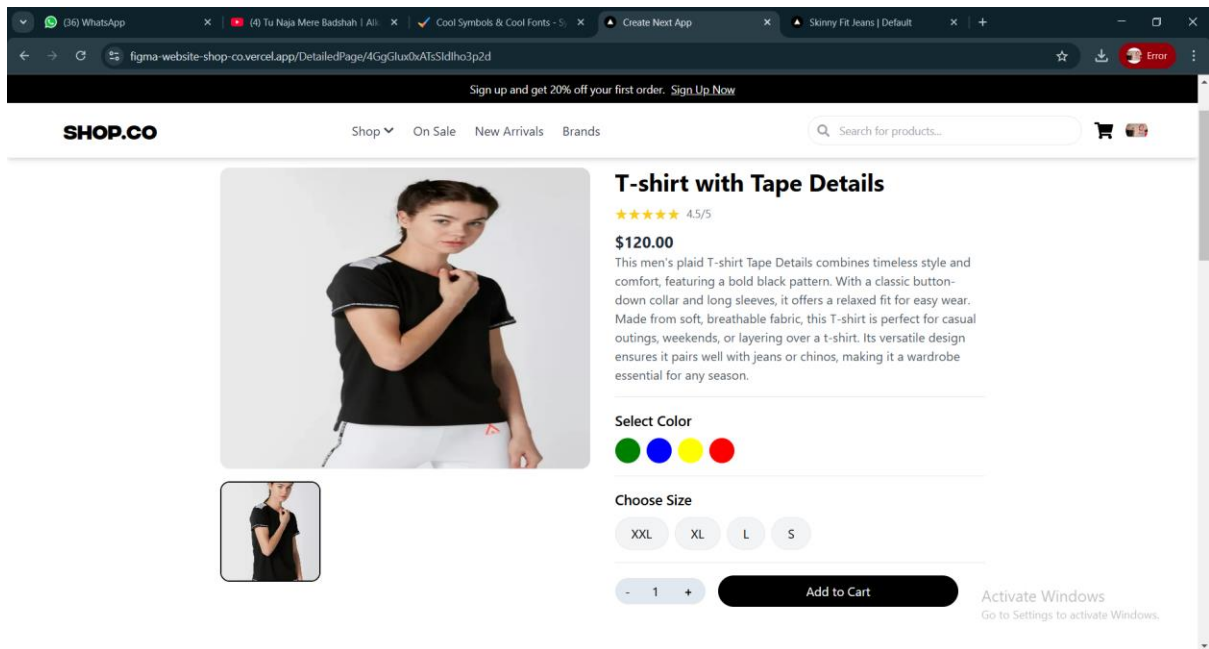## ➤ Technologies & Tools Used

○ **Next.js** for frontend framework.

○ **React** for building modular components.

○ **Sanity CMS** for managing and fetching product data.

○ **Tailwind CSS** for responsive styling.

○ **React Context API** for state management.

○ **Local Storage** for persisting user preferences (e.g., wishlist).

○ **React Router** for smooth navigation and dynamic routing.
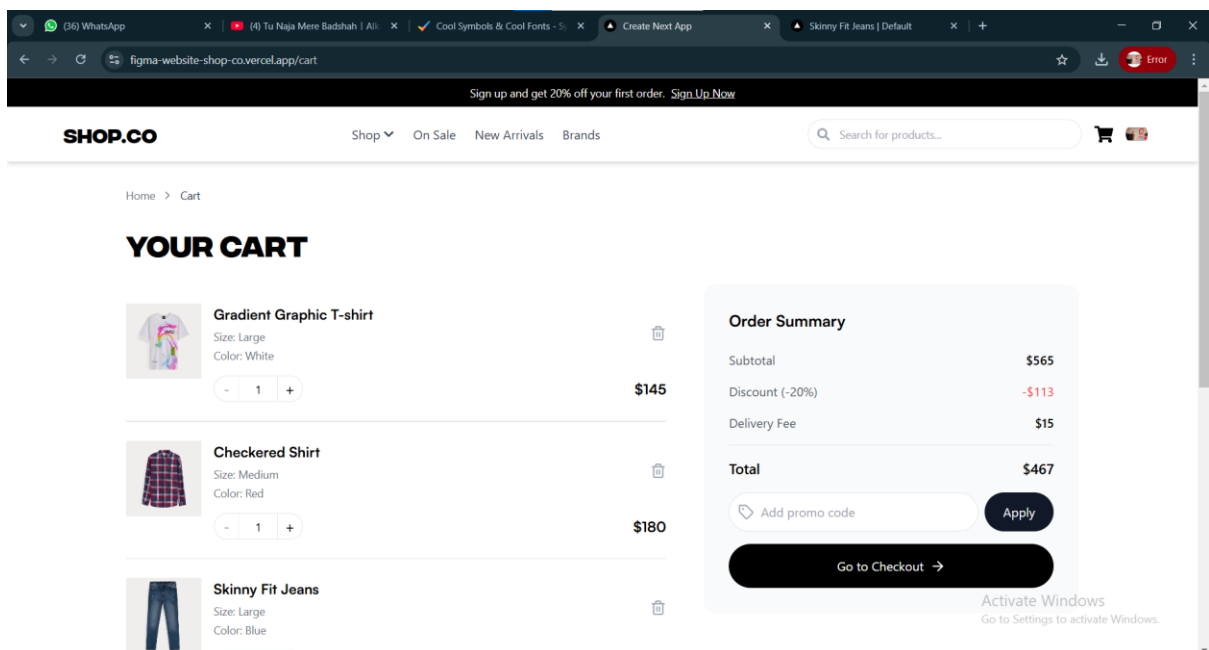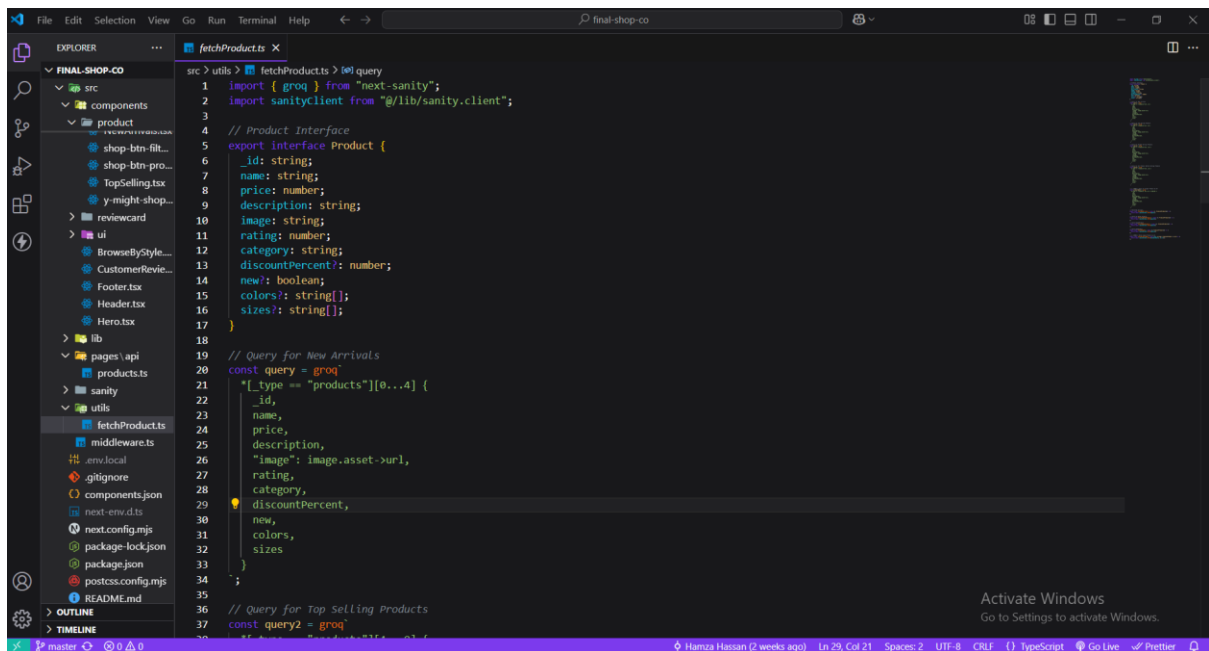
Final Outcome

By the end of Day 4, I successfully built and tested all the required components. The project is now structured with **dynamic, reusable, and scalable** frontend components, ensuring a smooth user experience. All pages are fully responsive and optimized for different screen sizes.

Here are some implemented components, features, and UI previews with project snapshots

SHOP.CO

Shop ⌄   On Sale   New Arrivals   Brands

Search for products...

T-shirt with Tape Details

★★★★★ 4.5/5

$120.00

This men's plaid T-shirt Tape Details combines timeless style and comfort, featuring a bold black pattern. With a classic button-down collar and long sleeves, it offers a relaxed fit for easy wear. Made from soft, breathable fabric, this T-shirt is perfect for casual outings, weekends, or layering over a t-shirt. Its versatile design ensures it pairs well with jeans or chinos, making it a wardrobe essential for any season.

Select Color

🟢 🔵 🟡 🔴

Choose Size

XXL   XL   L   S

-    1   +   **Add to Cart**

SHOP.CO

Shop ⌄   On Sale   New Arrivals   Brands

Q c

Checkered Shirt

Verticals Stripped Shirt

Courage Graphic T-shirt

Polo with Contrast Trims

Gradient Graphic T-shirt

Casual Green Bomber Jacket

YOU MIGHT ALSO LIKE

Polo with Contrast Trims

★★★★★ 4.5/5

$212.00
20% OFF

Gradient Graphic T-shirt

★★★★ 3.5/5

$140.00

Casual Green Bomber Jacket

★ 0.5/5

$300.00
20% OFF

Classic White Pullover Hoodie

★★★★ 4/5

$148.00
2% OFF

Prepared By Hamza Hassan