

DAY 4 - DEVELOPING DYNAMIC FRONTEND COMPONENTS

Overview

On the fourth day, my primary focus was 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.

Key Components Developed

- ✓ 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

Component Details

◆ Product Listing Component

- Fetched product data dynamically and displayed it in a responsive grid layout.
- Implemented sorting and filtering options.

- Key fields included Product Name, Price, Image, and Stock Status.

◆ **Product Detail Component**

- Enabled dynamic routing for individual product pages.
- Displayed comprehensive product information, including description, price, available sizes/colors, and customer reviews.
- Integrated an "Add to Cart" button for a seamless shopping experience.

◆ **Category Component**

- Dynamically fetched and displayed product categories.
- Allowed category-based filtering for easy navigation.

◆ **Search Bar**

- Implemented a search feature enabling users to filter products by name or tags.
- Optimized for real-time suggestions and keyword-based results.

◆ **Cart Component**

- Enabled users to add or remove items from the cart.
- Managed quantity and total price using state management.

◆ **Wishlist Component**

- Allowed users to save products for future reference.
- Utilized local storage for persistence.
- Integrated a "Move to Cart" option for quicker purchases.

◆ Checkout Flow Component

- Designed a multi-step checkout form, including Billing, Shipping, and Payment details.
- Implemented a secure checkout process with order confirmation.

◆ User Profile & Authentication Component

- Developed Login and Signup functionality for user authentication.
- Displayed user details such as Name, Email, Order History, and Saved Addresses.
- Provided an editable profile section for enhanced customization.

◆ Reviews and Ratings Component

- Allowed users to submit and view product reviews dynamically.
- Included a star rating system to improve product insights.

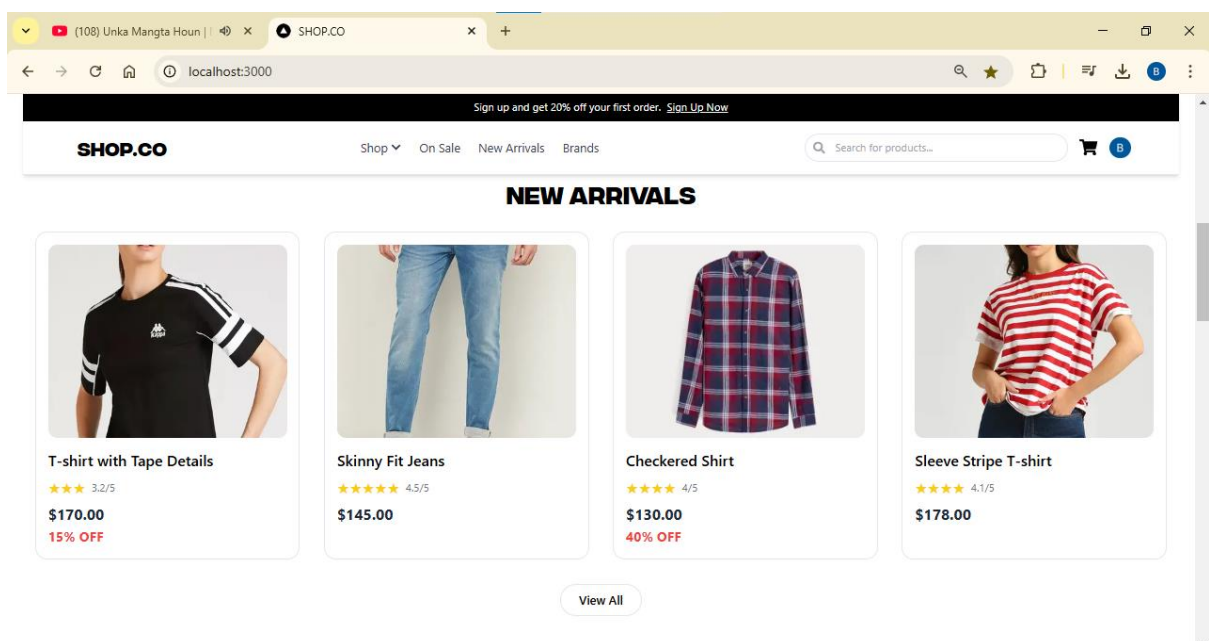
◆ Pagination Component

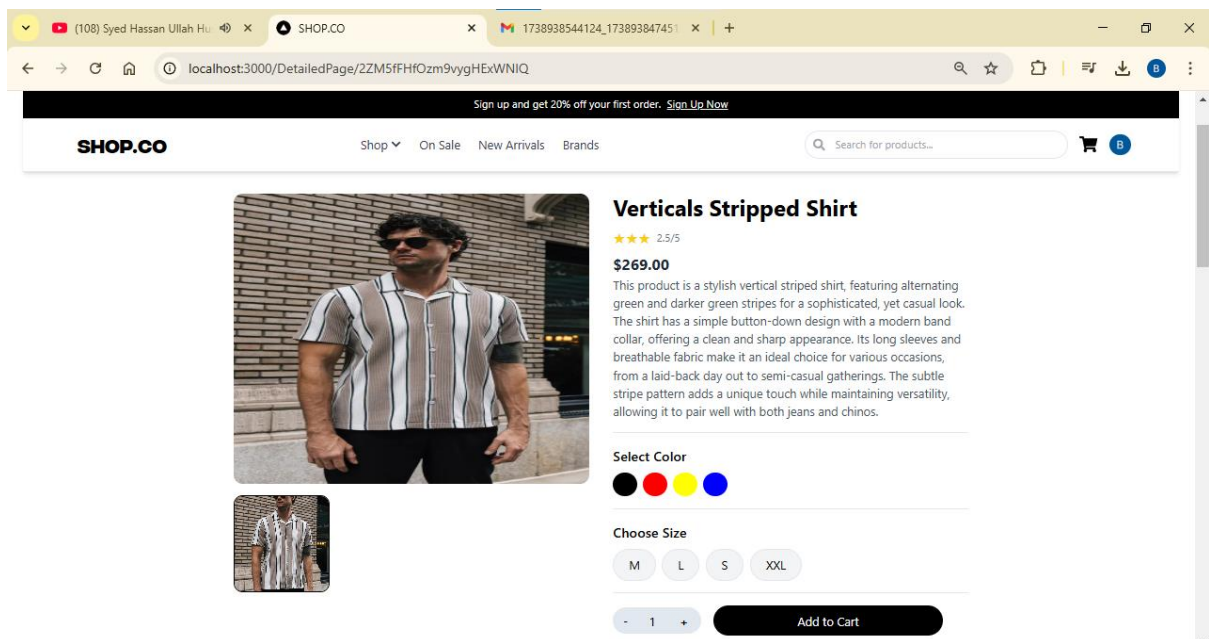
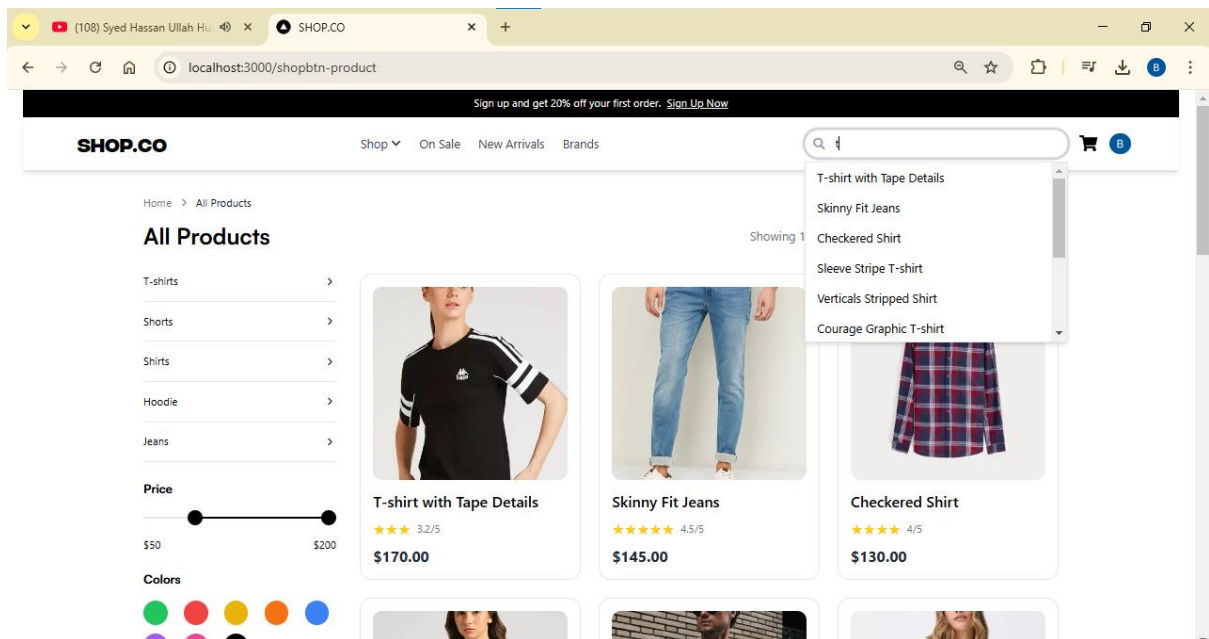
- Implemented page-based navigation for large product lists.
- Added a "Load More" feature to enable infinite scrolling.

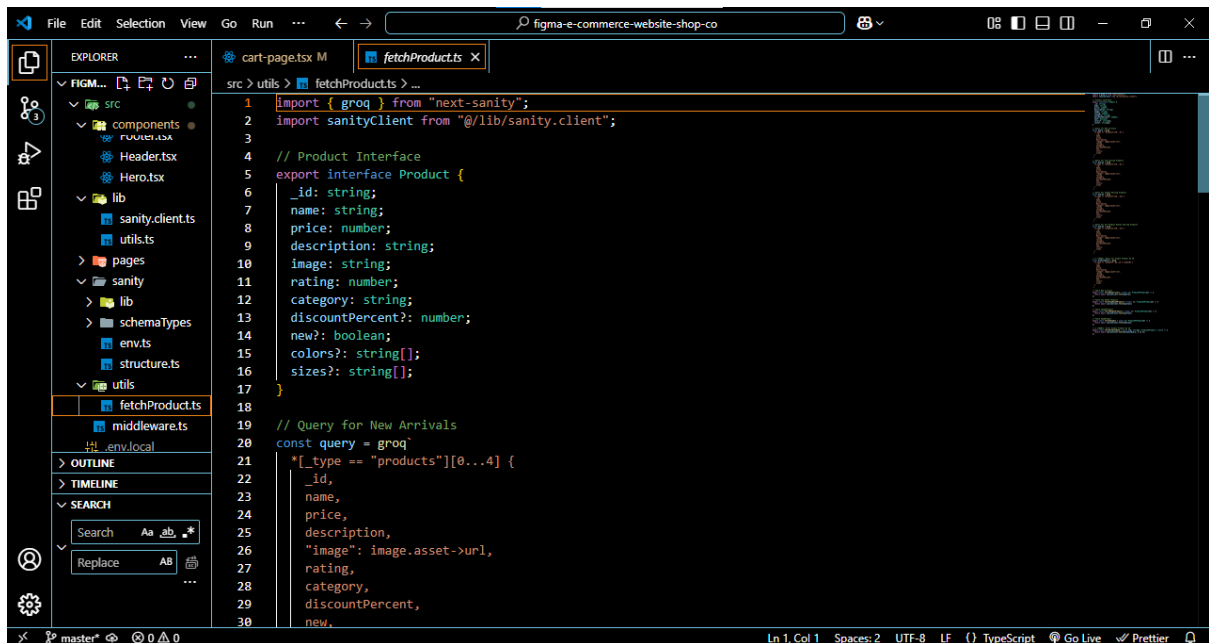
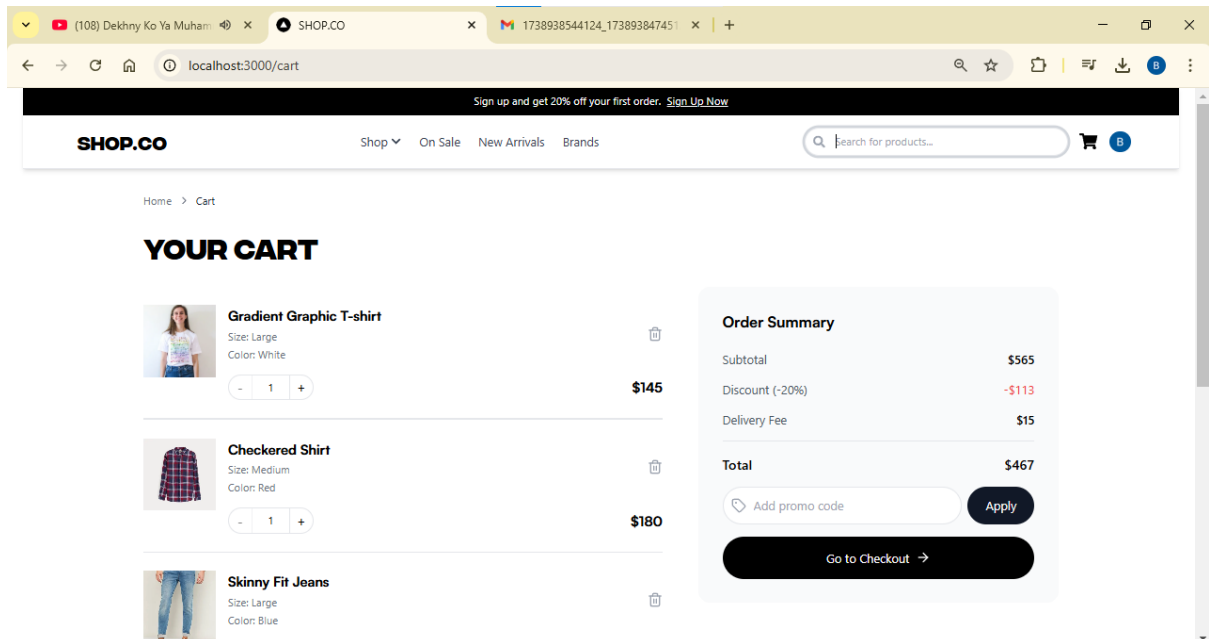
Technologies Used

- ✓ **Next.js** – Frontend framework
- ✓ **React** – Component-based UI development
- ✓ **Sanity CMS** – Content management and data fetching
- ✓ **Tailwind CSS** – Responsive styling
- ✓ **React Context API** – State management
- ✓ **Local Storage** – Persisting user preferences (e.g., wishlist)
- ✓ **React Router** – Smooth navigation and dynamic routing

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







Final Outcome

By the end of Day 4, all essential components were successfully built and tested. The project now consists of dynamic, reusable, and scalable frontend components, ensuring a seamless user experience. The entire UI is fully responsive and optimized for various screen sizes.