Comforty: Luxury Chairs and Sofas

Technical Documentation
Day 4: Building Dynamic Frontend Components

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Introduction

On Day 4, we focused on building **dynamic frontend components** for the Comforty marketplace. This included creating interactive and responsive components such as product listings, product detail pages, category filters, search bars. The goal was to ensure a seamless and engaging user experience while dynamically fetching and rendering data from Sanity CMS.

Objective

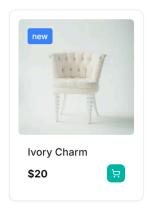
To design **dynamic, reusable components** for the **Comforty Store**, integrating Sanity CMS and ensuring a scalable and responsive user experience.

Components Built

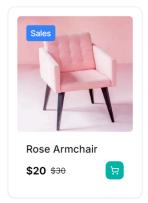
Products Component

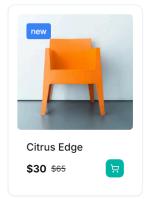
- Dynamic rendering of product data fetched from Sanity CMS.
- Example:

Featured Products









Product Detail Page

- Accurate routing and rendering of individual product details.
- Example:



SleekSpin

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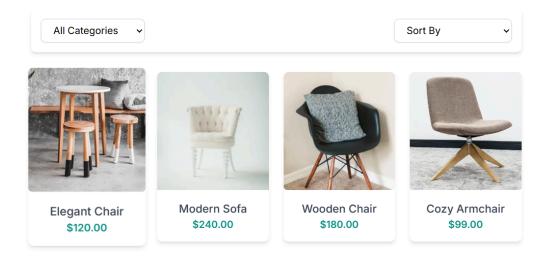
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Add to Cart

Category Filters

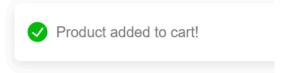
- Functional category filters for easy navigation.
- Example:

Shop Our Collection

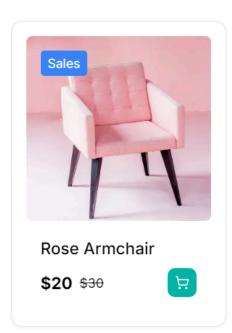


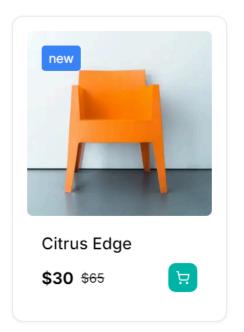
Cart Components

- Cart: Add cart items in a cart component when the cart icon is clicked with a notification.
- Example:



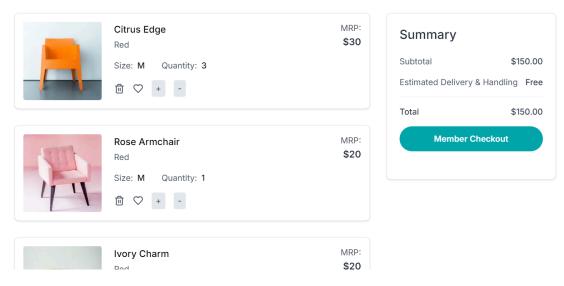






- **Cart Page**: Provides a detailed view of cart items, allowing quantity adjustments and total price calculation.
- Example:





Code Deliverables

Dynamic Routing Logic

Technical Report

Steps Taken

- Set up dynamic routing for product detail pages.
- Integrated Sanity CMS API for fetching product data.
- Built reusable components (ProductCard, ProductList).
- o Implemented category and filters logic.

Challenges Faced

- Ensuring accurate data rendering for dynamic routes.
- o Optimizing API calls for better performance.

Solutions Implemented

- Used useEffect and useState hooks for data fetching and state management.
- Implemented caching for API responses to reduce load times.

Best Practices

- o Followed modular component design for reusability.
- Used TypeScript for type safety and cleaner code.
- o Wrote unit tests for key components.