DAY 4 - BUILDING DYNAMIC FRONTEND COMPONENTS FOR YOUR MARKETPLACE
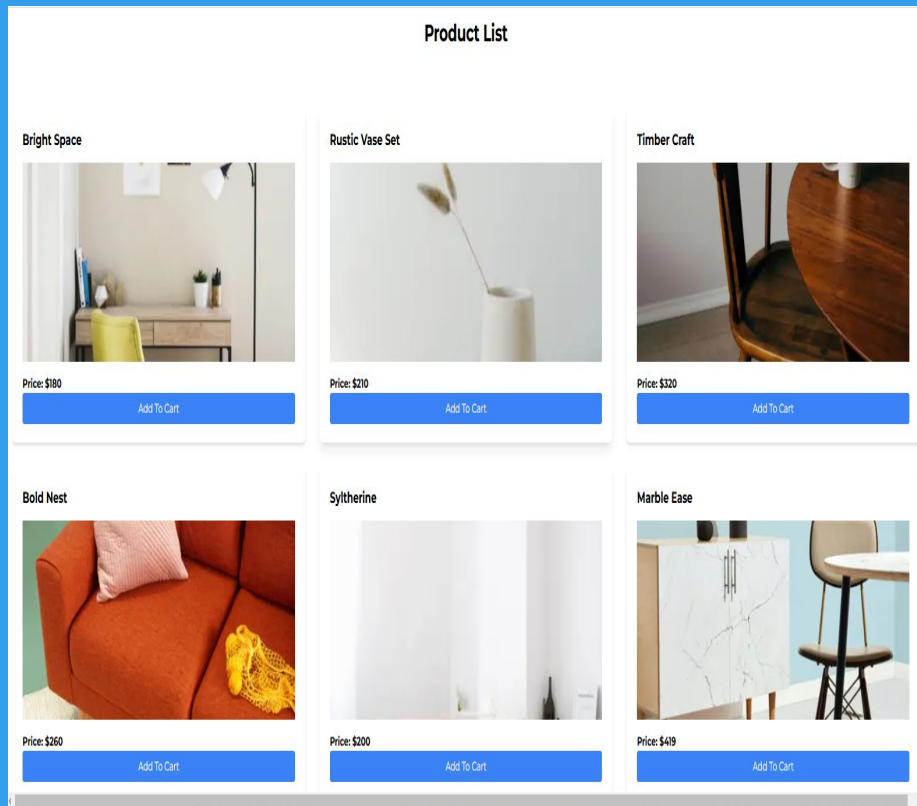
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Dynamic Frontend Components

On Day 4, I focused on developing **Dynamic Frontend Components** for a real-world client project, **Summer and Winter Collection**, using Sanity CMS and APIs. I implemented several dynamic features on the responsive user interface, such as products, dynamic product listing, cart management, add to cart, checkout,product comparison, notification system, and real-time updates. The emphasis was on creating a modular design, maintaining state management, and delivering a professional, seamless user interface and experience, enhancing both usability and content management.

Product Listing Page

This page showcases all available products, allowing customers to explore a variety of summer and winter clothing. All dynamic data is fetched from Sanity CMS and displayed in a well-organized and visually engaging interface, ensuring an enjoyable shopping experience.

Product List

Bright Space

Price: $180

Add To Cart

Rustic Vase Set

Price: $210

Add To Cart

Timber Craft

Price: $320

Add To Cart

Bold Nest

Price: $260

Add To Cart

Syltherine

Price: $200

Add To Cart

Marble Ease

Price: $419

Add To Cart

Product Detail Page

Dynamic Routing for Product Details:

Dynamic routing facilitates the creation of individual product pages, providing users with detailed information about each product. This includes descriptions, images, prices, and more, ensuring an intuitive and seamless browsing experience.

Dynamic Routing Features

- **Unique URL Generation**: Creates unique URLs for each product using IDs or slugs (e.g., /product/[id]).
- **Server-Side Rendering**: Enhances SEO and ensures faster initial page loads for a better user experience.
- **Seamless Data Display**: Dynamically displays product details such as descriptions, images, prices, stock, and reviews.
- **Scalability**: Automatically adds new product pages without manual intervention, supporting easy expansion.

<u>DYNAMIC ROUTING</u>

Cloud Haven Chair

$230.00

Sink into comfort with the Cloud Haven Chair—where softness meets support in a beautifully designed piece that feels like a personal retreat. Inspired by the gentle, calming presence of clouds, this chair offers an ultra-comfortable, inviting experience that lets you relax and unwind, making it the perfect addition to any living room, bedroom, or cozy nook. The Cloud Haven Chair is crafted with premium materials that create a plush, cloud-like seating experience. Its luxurious cushioning provides gentle support, cradling you in comfort while the ergonomic design ensures the perfect balance between relaxation and posture. The chair's sleek, modern lines and soft, neutral tones blend seamlessly into any decor, adding a touch of sophistication and tranquility to your space. Whether you're enjoying a good book, meditating, or simply relaxing after a long day, the Cloud Haven Chair creates a peaceful sanctuary where you can escape into serenity. Its durable construction guarantees lasting comfort and style, while its cloud-inspired design brings a sense of lightness and ease to your home. Key Features: Ultra-soft, cloud-like cushioning for a relaxing seating experience Ergonomically designed for optimal comfort and support Sleek, modern design that complements a variety of home decor styles Crafted from high-quality materials for durability and long-lasting comfort Perfect for creating a peaceful, inviting space in any room Transform your living space into a serene haven with the Cloud Haven Chair—where comfort and style come together to create the ultimate relaxation experience.
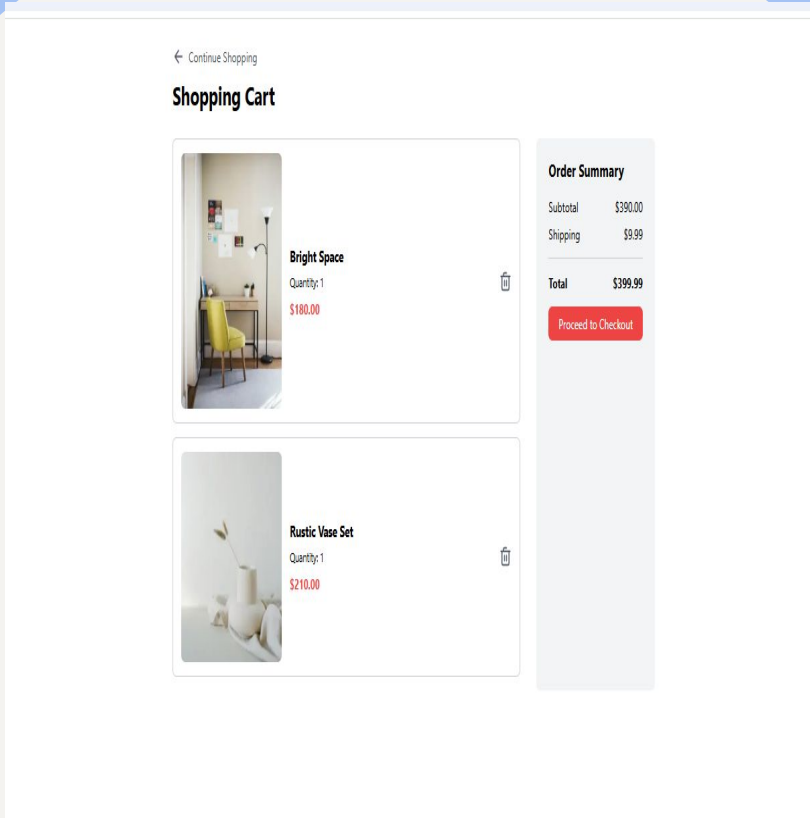
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Add to Cart

Cart Functionality

The cart feature handles users' selected items, ensuring a smooth shopping experience by keeping track of their choices and providing a detailed cost summary.

Cart Functionality Workflow

1. **Item Selection**: Users can add products to the cart directly from the product listing or detail pages.
2. **Quantity Management**: Allows users to adjust item quantities or remove items as needed.
3. **Cost Calculation**: Automatically calculates the total cost, including item prices, taxes, and discounts.
4. **Persistent Data**: Saves cart data in local storage or the backend to retain user selections during navigation or page reloads.
5. **Checkout Integration**: Links the cart to the checkout process, ensuring seamless transition for order placement.

<u>Checkout Page</u>

The checkout page displays all cart items for a final review. Customers can choose their preferred payment method and securely complete their order.

Checkout Page Workflow

1. **Cart Overview**: Displays all items from the cart, including details like product names, quantities, and prices for a final review.
2. **Address Input**: Customers enter their shipping address for delivery.
3. **Payment Selection**: Users choose from available payment methods (e.g., credit card, PayPal) for secure transaction processing.
4. **Order Review**: Provides a summary of the order, including total cost, shipping fees, and any discounts applied.
5. **Order Confirmation**: Once the payment is processed, users receive an order confirmation, and the order is prepared for fulfillment.

<u>CONCLUSION</u>

The integration of **dynamic routing** in the product listing and detail pages provides a seamless browsing experience, allowing users to access unique pages for each product with up-to-date information. **Cart functionality** efficiently tracks user selections, calculates costs, and ensures a smooth shopping experience. The **checkout page** streamlines the final purchase process by allowing users to review their cart, select payment methods, and securely complete their orders. Together, these features create a highly functional, user-friendly e-commerce experience, enhancing both convenience and customer satisfaction

Thank you!

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