

DAY 4 - DYNAMIC FRONTEND COMPONENTS

Introduction

This report highlights the key features and functionalities I developed for my e-commerce website. The project is built using **Next.js** for the frontend, **ShadCN** for enhanced UI components, and **Sanity CMS** for content management and API integration. The website focuses on **furniture and interior design**, aiming to deliver a seamless shopping experience.

Here's a detailed outline for your report content, including descriptions of each feature and how you implemented them:

Report on My E-Commerce Website Development

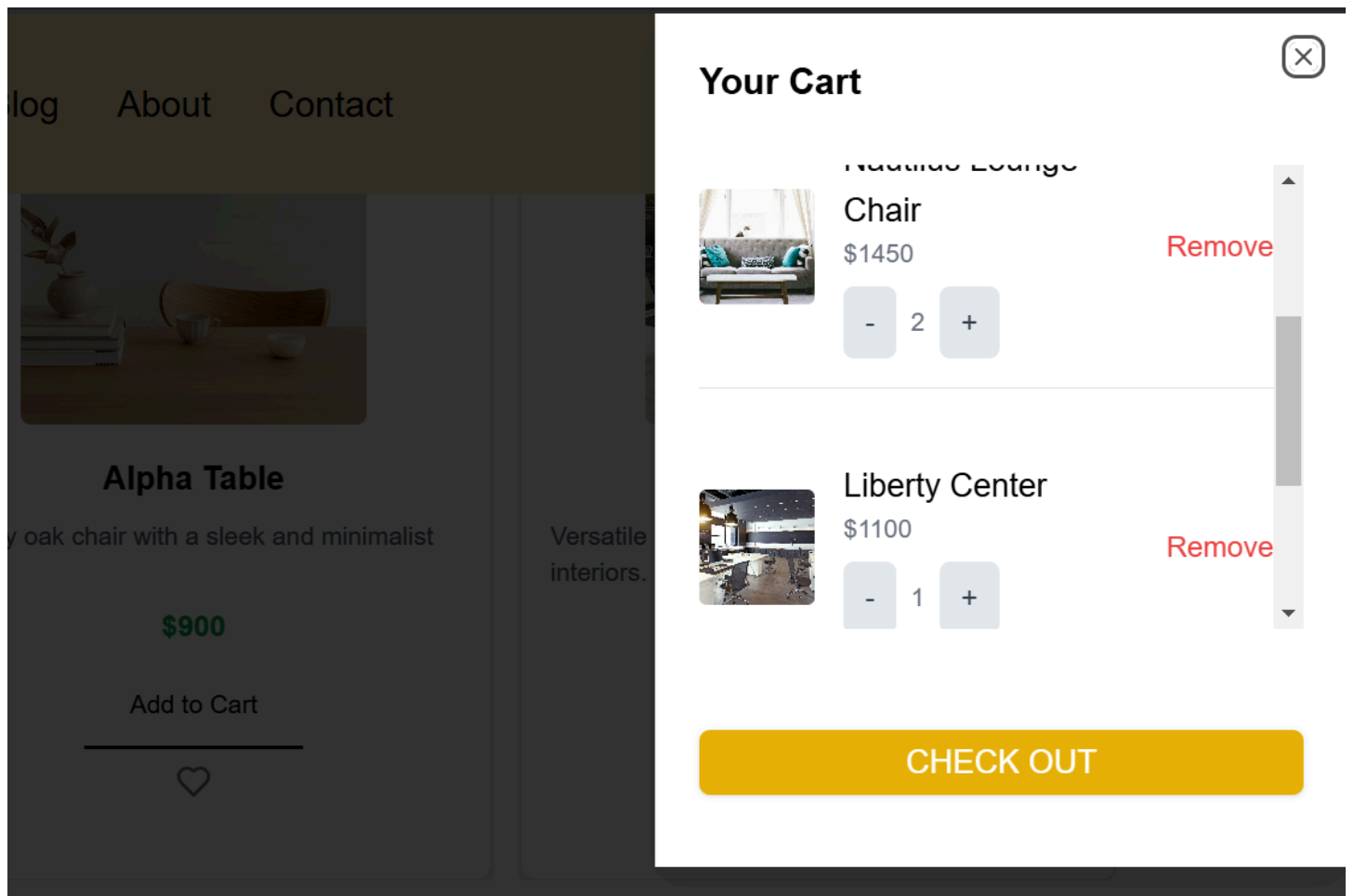
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1. Cart Functionality

The cart functionality allows users to add, remove, and view products in their shopping cart. Key highlights include:

- **State Management:** Implemented using **Zustand** for efficient and scalable state management.
- **Dynamic Updates:** Products added or removed from the cart are reflected in real-time, ensuring a smooth user experience.
- **Integration with Sanity:** Product data, including pricing and stock levels, is fetched dynamically from Sanity CMS.
- **Responsive UI:** The cart design is responsive, offering optimal usability across devices.



2. Dynamic Routing

Dynamic routing was implemented to create product-specific pages and handle navigation seamlessly. Key aspects include:

- **[Dynamic Routes]:** Used Next.js dynamic route generation (`[slug].js`) to display individual product details.
- **Enhanced SEO:** Routes are optimized for search engines, ensuring better visibility for products.
- **User-Friendly Navigation:** Each product page includes clear breadcrumbs for better navigation.

Example URL Structure:

- `/products/modern-sofa`
- `/products/vintage-lamp`



Matilda Velvet Bed

Rs. 600

A vibrant pink velvet chair with a retro-inspired design.



Add to Cart

400 University Drive Suite 200 Coral
Gables,
FL 33134 USA

Links

[Home](#)
[Shop](#)
[About](#)

Help

[Payment Options](#)
[Returns](#)
[Privacy Policies](#)

Newsletter

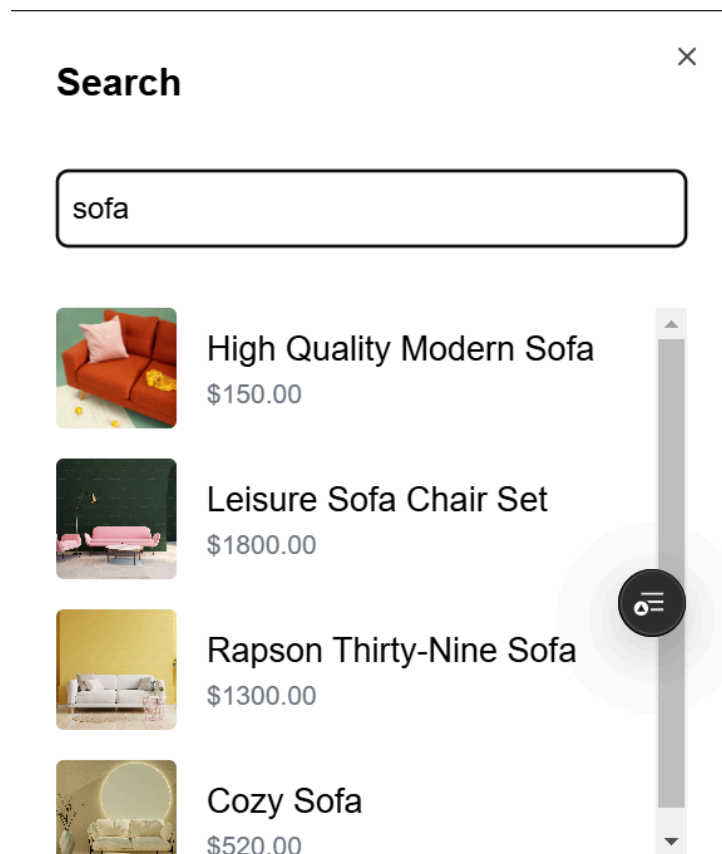
Enter Your Email Address

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4. Search Functionality

A search icon and functionality were added to help users quickly find products. Key highlights include:

- **Search Bar Integration:** Integrated a search bar in the header to provide users with quick access to their desired products.
- **Real-Time Results:** Search results are updated dynamically as users type.
- **Efficient Filtering:** Products are filtered based on their name, category, or description using API queries.
- **User Feedback:** Added a "no results" message to enhance user interaction when no matching items are found.



4. Wishlist Functionality

The wishlist functionality allows users to save their favorite products for future reference. Key highlights include:

- **State Management:** Zustand is used to manage the wishlist state efficiently.
- **Add and Remove Items:** Users can add products to their wishlist and remove them when desired.
- **Integration with Sanity:** Product details, such as name, price, and images, are dynamically fetched from Sanity CMS.
- **Persistent Storage:** Wishlist data is saved in localStorage, ensuring that items remain saved even after the page is refreshed.
- **User-Friendly UI:** A dedicated wishlist page provides an overview of saved products, with quick links to their respective product pages.

My Wishlist



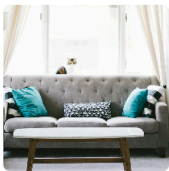
Pink Lounge Chair

A spacious lounge chair with a quilted back and soft cushioning.

Category: N/A

\$1600

Add to Cart



Nautilus Lounge Chair

A lounge chair with a shell-inspired design and premium upholstery.

Category: N/A

\$1450

Add to Cart



5. Flowchart for Zustand State Management

Below is the flowchart illustrating how Zustand manages the Cart, Wishlist, and Search functionalities:

