

Dynamic Frontend Components

Documentation for Hecto

Day 4: Advancing the E-Commerce Project with Sanity, Next.js, and Stripe

Today marked a significant milestone in the development of my e-commerce project. The primary focus was on mastering **Sanity** CMS to dynamically manage product data, building a powerful frontend with **Next.js**, and integrating secure payment functionality with **Stripe**. Additionally, I implemented advanced user-focused features such as a multi-functional search bar, comprehensive product filters, and flexible layout options for displaying products.

Throughout this process, I leveraged tools like **React Hook Form** for better form handling, ensuring a smooth and interactive user experience. Here's a detailed breakdown of the features I achieved today.

Feature Overview

What I Achieved Today:

- Dynamic Product Data:** Customized the Sanity product schema and dynamically linked it to the Next.js frontend for seamless updates.
 - Interactive Product Listings:** Displayed products with toggle options for grid and list layouts, improving usability.
 - Search Functionality:** Built an advanced search bar to filter products by name, brand, category, and tags.
 - Product Filters:** Implemented filters for brand, rating, price range, discount offers, and categories to personalize the browsing experience.
 - Cart and Checkout:** Enabled an add-to-cart system with Stripe payment integration for secure and efficient transactions.
 - Grid and List Layouts:** Created a toggle option to switch between grid and list layouts for better product visualization.
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Detailed Features

1. Dynamic Product Listing

Products are dynamically fetched from the Sanity CMS and displayed on the frontend. The layout provides a seamless browsing experience, with options to toggle between grid and list views. This flexibility ensures users can view products in their preferred format.

Highlights:

- Real-time updates from Sanity to the frontend.
- Grid layout for a visually rich experience.
- List layout for more detailed product information at a glance.

Ecommerce Accessories & Fashion item

About 9,620 results (0.62 seconds)

Filter Products

View:   Grid 



Chair



\$250



Cantilever Chair



\$66.3 



Nordic Net Red Chair



\$28.8 



Sobuy Blue Folding Chair
Wooden Padded



\$10.56 



Varmora Plastic Chair Solid



\$7.5 



Matilda Velvet Chair - Pink



\$51 



Diondre Chair - Tuft Button -
Acrylic Legs





Leisure Sofa Chair Set



\$147.6 



Luxury Flower Shell Sofa Chair



250



A luxurious shell-shaped chair with gold brass metal legs.



View Detail



Cantilever Chair



66.3



A modern cantilever chair with a unique floating effect.



View Detail



Nordic Net Red Chair



28.8



2.Product Detail Page

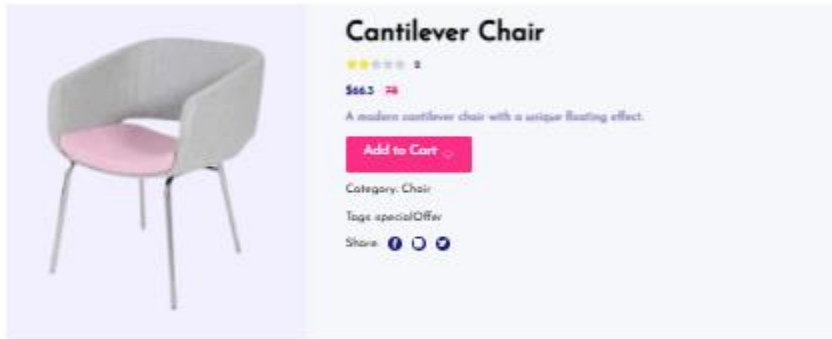
The Product Detail Page is designed to provide users with comprehensive information about a selected product. It combines a clean layout, responsive design, and interactive elements to enhance the user experience.

Features

1. **Dynamic Product Display:** The page dynamically fetches product details, including name, price, description, images, and specifications, directly from Sanity CMS.
2. **Add to Cart Button:** A prominent "Add to Cart" button allows users to instantly add items to their cart.
3. **Product Variants:** If applicable, users can select product variants such as color, or other specifications.
4. **Ratings and Reviews:** The page showcases user ratings and reviews, helping customers make informed decisions.

Key Highlights

- **Optimized for Mobile:** The layout adjusts seamlessly for mobile and desktop users.
- **Real-Time Updates:** Any changes in Sanity are reflected immediately on the Product Detail Page.



Description Additional Info Reviews Video

Varius tempor.

Aliquam dix vulputate vulputate integer sagittis. Faucibus dolor ornare faucibus vel sed et eleifend habitasse amet. Moris, mauris varius ac est bibendum. Scelerisque a, risus ac ante. Velit consectetur neque, elit, aliquet. Non varius praen sed urna, egetas consequat laoreet diam tincidunt. Magna eget faucibus erat justo, tortor sed donec tempus. Imperdiet consequat, quis diam arcu, nulla lobortis justo netus dix. Eu in fringilla vulputate nunc nec. Duis, massa viverra.

More details

→ Aliquam dix vulputate vulputate integer sagittis.

→ Faucibus dix diam arcu, nulla lobortis justo netus dix.

→ Eu in fringilla vulputate nunc nec.

→ Duis, massa viverra.

Related Products

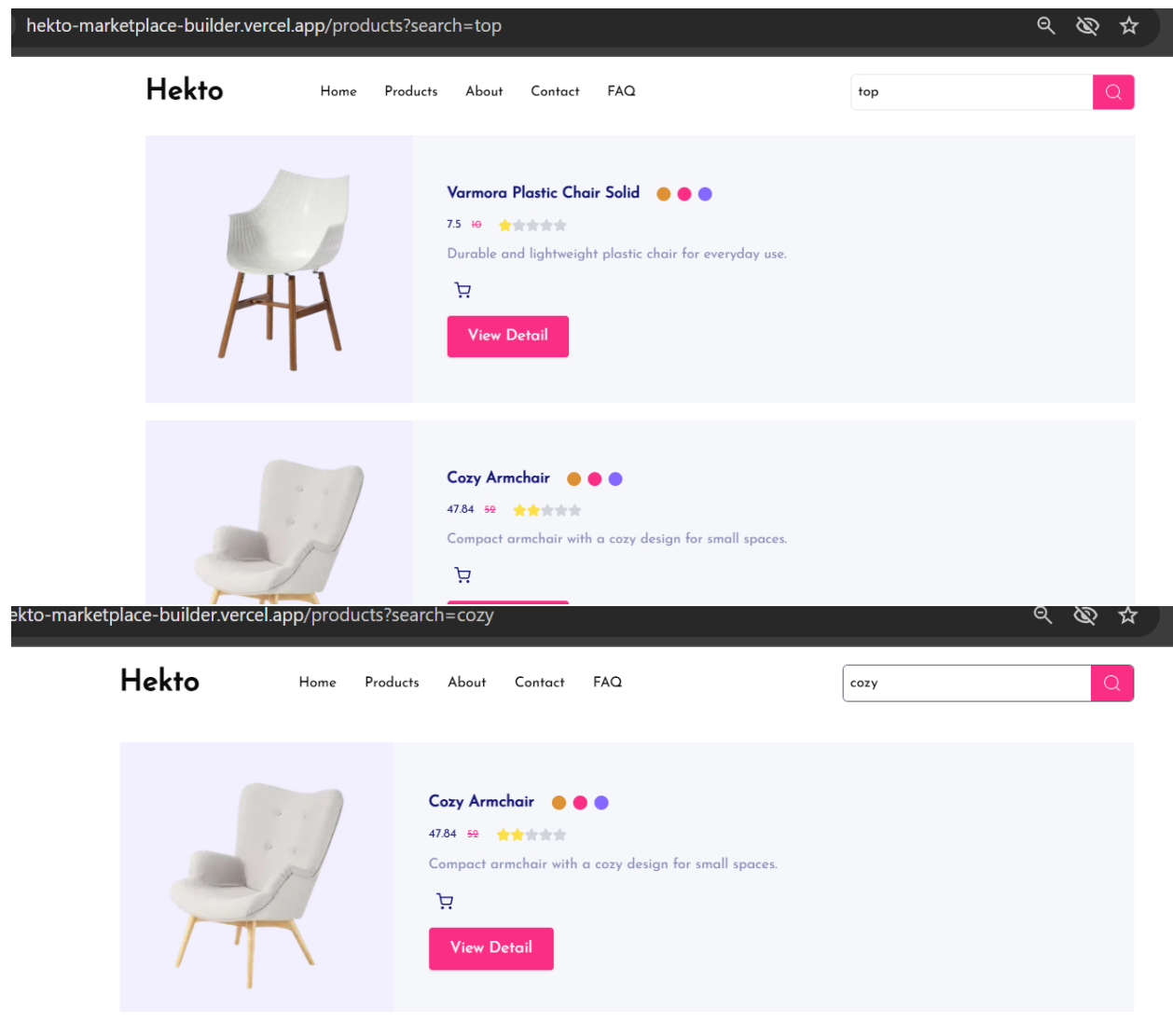


3. Advanced Search Bar

The search functionality is one of the standout features, enabling users to quickly find products based on:

- Name
- Brand
- Category
- Tags

This feature is designed for speed and accuracy, making product discovery intuitive and user-friendly. The ability to search across multiple parameters enhances usability and caters to diverse user needs.



4. Product Filters

To refine their browsing experience, users can leverage advanced filters, including:

- **Brand Name:** Select from specific product brands.
- **Rating:** Filter by customer ratings for high-quality products.
- **Price Range:** Set a budget range for affordability.
- **Discount Offers:** Browse products with active discounts.
- **Categories:** Explore products within specific categories.

The filtering system is designed to be responsive, ensuring users can quickly find what they're looking for without delays.

Filter Products

x

Product Brand

- ☐ Coaster Furniture
- ☐ Fusion Dot High Fashion
- ☒ Unique Furniture Restor
- ☐ Dream Furniture Flipping
- ☐ Young Repurposed
- ☐ Green DIY furniture

Discount Offer

- ☐ 2% Discount
- ☐ 5% Discount
- ☐ 25% Discount

Rating Item

- ☐ ★★★★★
- ☐ ★★★★★
- ☐ ★★★★★
- ☐ ★★★★★
- ☐ ★★★★★

Categories

- ☐ Sofa
- ☐ Chair

Price Filter

- ☐ \$0.00 - \$150.00
- ☐ \$150.00 - \$350.00
- ☐ \$150.00 - \$504.00
- ☐ \$450.00 +

Filter By Color

- ☐ Red
- ☐ Blue
- ☐ Brown
- ☐ Green
- ☐ Purple
- ☐ Sky

Filter

Products

Home . Pages . [Products](#)

Ecommerce Accessories & Fashion item

About 8,000 results (2.61 seconds)

Filter Products

View



List



Varmora Plastic Chair Solid



7.5 ★★★★★

Durable and lightweight plastic chair for everyday use.



View Detail



Cozy Armchair



47.84 ★★★★★

Compact armchair with a cozy design for small spaces.



View Detail



Uchiwa Quilted Lounge Chair



128 ★★★★★

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



View Detail



Varmora Plastic Chair Solid



7.5 ★★★★★

Durable and lightweight plastic chair for everyday use.

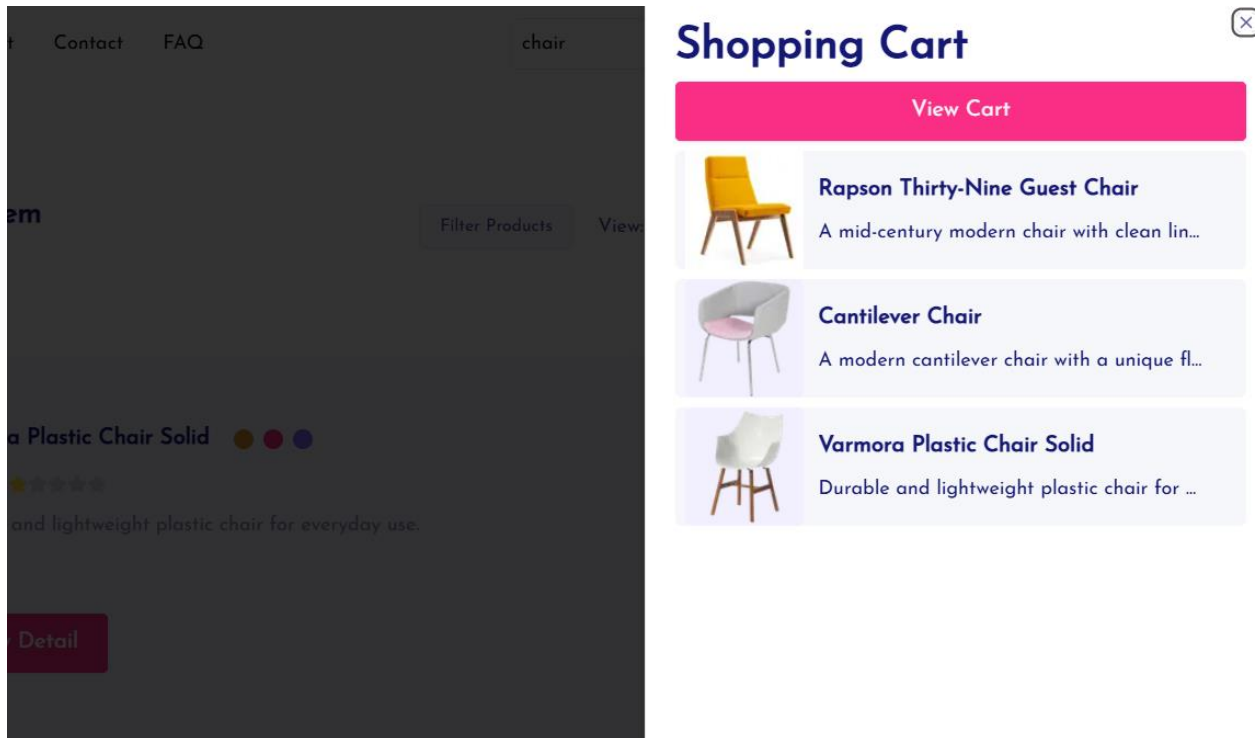
5. Add to Cart and Checkout

I implemented a cart functionality that allows users to add multiple products and proceed to checkout. This feature integrates **Stripe** for payment processing, ensuring a secure and hassle-free transaction experience.







Highlights:

- Intuitive add-to-cart system with quantity management.
- Stripe integration for seamless payments.
- Checkout process designed for trust and simplicity.

Add To Cart Sidebar:



Add To Cart Page:

Product	Price	Quantity	Total	Action
 Rapson Thirty-Nine Guest Chair <small>A mid-century modern chair w...</small>	\$110.50	<input type="text" value="1"/>	\$110.50	
 Cantilever Chair <small>A modern cantilever chair wit...</small>	\$66.30	<input type="text" value="1"/>	\$66.30	
 Varmora Plastic Chair Solid <small>Durable and lightweight plasti...</small>	\$10.00	<input type="text" value="2"/>	\$20.00	

Update CartClear Cart

Cart Totals

Subtotal: \$196.80

Calculate Shipping

Country

City

Postal Code

Calculate Shipping

Shipping Calculation:

Contact Information

[Already have an Account? Login](#)

Email or mobile phone number

Email or mobile phone number is required

☐ Keep me up to date on news and exclusive offers

Shipping address

First name (optional) Last name

Address

Address is required

Apartment, suite, etc. (optional)


City


City is required


Country Postal Code

Country is required Postal Code is required

Continue Shipping


Rapson Thirty-Nine Gu...
A mid-century modern chair w...
\$110.5



Cantilever Chair
A modern cantilever chair wit...
\$66.3



Varmora Plastic Chair ...
Durable and lightweight plasti...
\$10


Subtotal: \$196.80



Payment With Stripe:

Hecto requested you to pay \$196.8 to place your order


Card

Amazon Pay

Cash App Pay

 Secure, 1-click checkout with Link 


Card number

1234 1234 1234 1234


Expiration date

MM / YY

Security code

CVC

Country

Pakistan

Pay Now

6 Order Completed Page

The **Order Completed** page is designed to confirm the successful completion of a transaction while providing users with all the essential details of their purchase. It ensures clarity and builds trust with the user by reinforcing the security and success of the payment process.



Your Order Is Completed!

Thank you for your order of \$35133.9?
payment_intent=pi_3QmC9YJTGMgHbJqLIA3GkN06! Your order is being processed
and will be completed within 3-6 hours. You will receive an email confirmation when
your order is completed.

Continue Shopping



Reflection and Tools Used

The day was both challenging and rewarding as I explored and implemented advanced features in the e-commerce project. Tools that played a crucial role in this journey include:

- **Sanity CMS** for dynamic content management.
- **React Hook Form** for efficient form handling.
- **Next.js** for building a fast and interactive frontend.
- **Stripe** for secure and seamless payment processing.

This experience not only enhanced my technical skills but also deepened my understanding of building scalable and user-centric web applications.