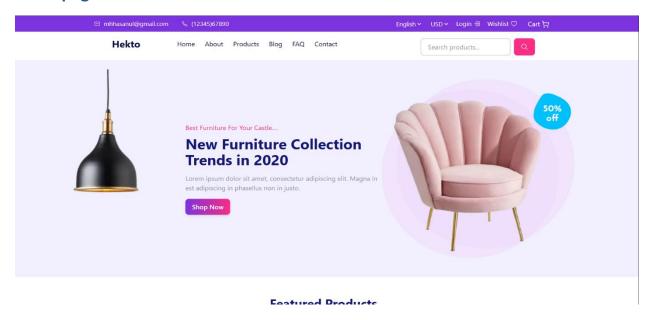
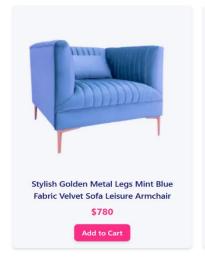
Day 4 - Building Dynamic Frontend Components for Your Marketplace: [General E-commerce]

Homepage:

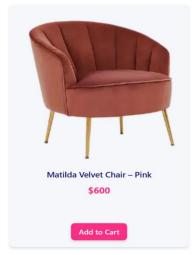


Product Page:

Featured Products







Different Components of Products:



Trending Products

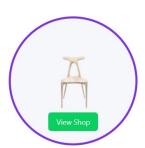








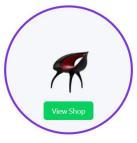
Top Categories



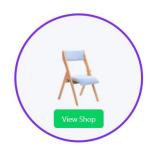
Alpha Chair – Solid Ebonised Oak 900



Replica Hans Wegner Wishbone Chair 750



Futuristic Sleek Modern Chair 2000



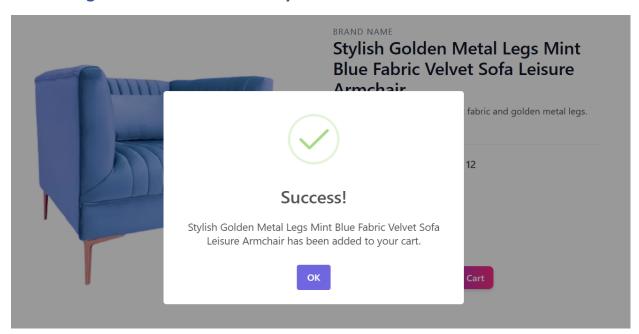
Sobuy Blue Folding Chair Wooden Padded 120

Product Details:

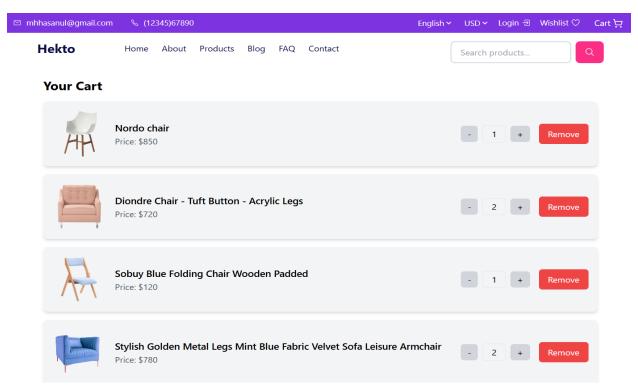


BRAND NAME

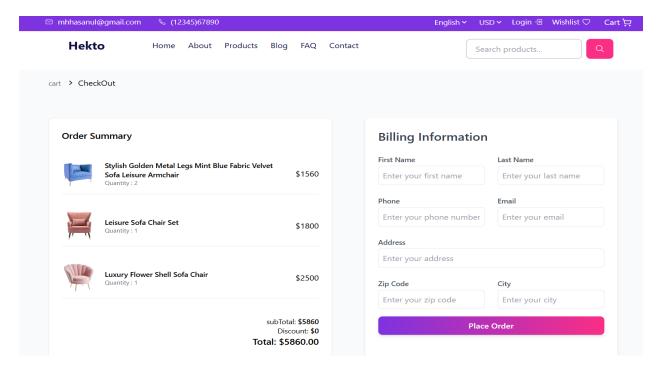
On clicking Add to Cart Functionality:



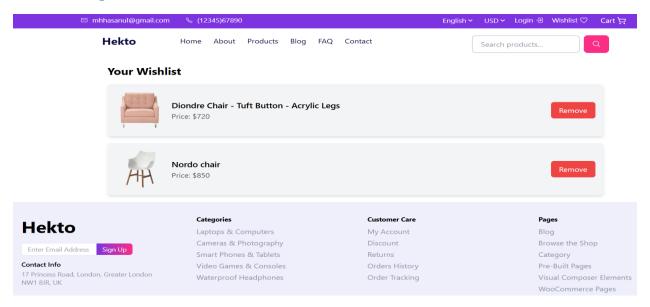
Proceed to Add to Cart page Dynamic Routing:



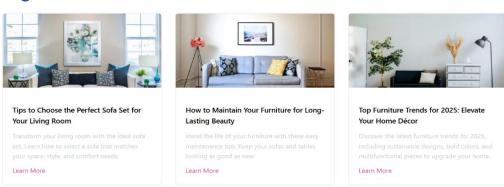
Proceed to Checkout:



Wishlist Page:



Blogs:



Blogs Dynamic Routing Page:



Tips to Choose the Perfect Sofa Set for Your Living Room

Transform your living room with the ideal sofa set. Learn how to select a sofa that matches your space, style, and comfort

Choosing the perfect sofa set for your living room can feed overwhelming, given the variety of styles, materials, and configurations available. The first step is to assess the space you're verified with Measure your living onen and take note of any obstacles, like windows, doors, or heating vents, that might affect the placement of your sofs. For compact spaces, consider L-shaped or compact two-seater sofs that maximize seating while a wider year. The same soft was a set of the same soft will be safe and commodate sectional or U shaped sofs, which offer a blend of style and commotor for big families or frequent gatherings. Always leave enough room for easy movement, around the dot far owid a campade feeling in the space.

Material is another crucial factor when selecting a sofa. The right material depends on your lifestyle and how the sofa will be used. Leather sofs as a popular choice for their select, modern appearance and durability, especially in households with pets or children. Fabric sofs, on the other hand, offer a crose when and are washable in a wide range of between and color, making them a versall choice for visuals in choice with the soft with the results of the color with and are washable in a wide range of between and color, making them a versall choice for visuals in the color with and are visuals choice for visuals the color without the soft washable in a wide range of between and color, making them a versall inches for visuals in a wide range of tother was notices, making them a versal service in the soft washable in a wide range of tother was notices, making them a versal choice for visuals and the soft washable in a wide range of tother was notices, making them a versal choice for visuals.

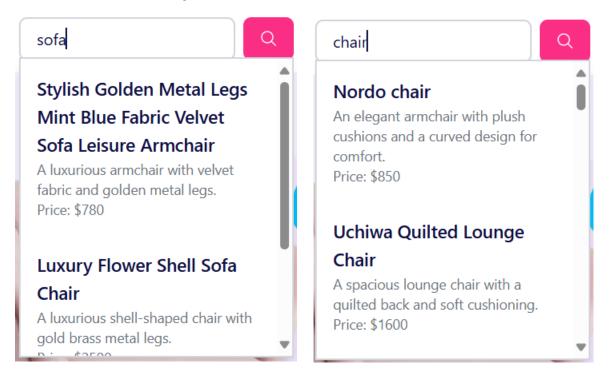


How to Maintain Your Furniture for Long-Lasting Beauty

xtend the life of your furniture with these easy maintenance tips. Keep your sofas and tables looking as good as new.

Furniture can be a significant investment, and ensuring it lasts for years to come requires a bit of care and attention. The first step in maintaining your furniture is regular cleaning. Dust can accumulate quickly on all types of furniture, whether it's usood, fabric, or leather: Use a soft cloth to wipe down wooden surfaces, ensuring you don't screat the firsh. For fabric softs, securin regularly to remove dust and desiris. Fabric upolishesty care also trap allegers and pet hair, so a deep dean every be montes can help maintain a fester inversoment. Leather softs, while low maintenance, should be wiped down with a damp cloth to woold dust buildup, and a leather conditioner should be applied to maintain its supple texture. Plotection from sunlight is another key factor in preserving the beauty of your furniture. Exposure to direct sunlight can cause colors to fade and materials to weaken over time, especially fabrics and wood. It's important to position your furniture away from direct sunlight or to use UV-blocking custains that filter out harmful usy, Leather, for example, can cack and lose its luster when exposed to prolonged sunlight, while fabric furniture can lose its vibrancy. Adding sheer custains or placing furniture away from large windows can help protect it from

Searchbar Funtionality:



Project Overview

This phase focuses on developing dynamic and reusable frontend components for an interactive e-commerce experience. The implementation ensures efficiency, responsiveness, and seamless integration with Sanity CMS while maintaining a structured and modular codebase.

Core Components & Implementation

1. Product Card Component

- Reusable Design: Displays individual product information in a visually appealing card.
- Elements Included:
 - o Product image, name, and price.
 - Wishlist toggle button.
 - Clickable link to navigate to the detailed product page.
- Wishlist Functionality: Uses Local Storage to store user preferences.
- Performance Optimizations: Implements optimized image rendering.

2. Product List Component

- Two-Part Implementation for Performance:
 - Server-side Fetching: Retrieves product data from Sanity CMS using GROQ queries.
 - o Client-side Rendering: Handles filtering, display updates, and user interactions.
- **Grid Layout:** Products are displayed in a responsive grid format.

API Integration & Routing

1. Sanity CMS Integration

- Data Management:
 - Fetches product details such as images, prices, and categories.
 - Uses GROQ queries for optimized data retrieval.
- Image Optimization: Leverages Sanity's CDN for fast and responsive image loading.

2. Dynamic Routing System

- SEO-Friendly URLs: Unique URLs generated using product slugs.
- **Error Handling:** Implements fallback mechanisms for missing or non-existent product pages.

3. Data Flow

- **Server Components:** Fetch and serve initial product data.
- Client Components: Handle user interactions and dynamic updates.
- URL Parameters: Maintain the filter state across page reloads and navigation.
- Local Storage: Manages user preferences for wishlists.

Best Practices Followed

1. Code Organization

- Component-Based Architecture: Modular approach for better scalability.
- Type Safety: Implemented TypeScript for defining strict types.
- **Separation of Concerns:** Clear distinction between API calls, UI components, and business logic.

2. Performance Optimization

- Next.js Image Optimization: Improves page load speed with automatic resizing.
- Server-Side Rendering (SSR): Enhances SEO and performance.

3. Security Measures

- Environment Variables: Secures sensitive API credentials.
- API Route Protection: Restricts unauthorized access.

Challenges & Solutions

1. Handling Dynamic Routing with Sanity

- **Problem:** Displaying product pages dynamically based on data from Sanity CMS.
- **Solution:** Implemented dynamic routing in Next.js to generate product pages using slugbased URLs, ensuring each product has a unique and SEO-friendly link.

2. Optimizing Real-Time Search

- Problem: Implementing an efficient product search functionality.
- **Solution:** Integrated a client-side search bar that filters product data in real time, updating displayed products dynamically as the user types.

3. Ensuring Responsive Design

- **Problem:** Maintaining a seamless experience across various devices.
- **Solution:** Utilized Tailwind CSS for adaptive layouts and breakpoints.

Additional Features Implemented

- 1. **Related Products Section** Displays similar products dynamically.
- User Wishlist Management Allows users to save and manage favorite products.
- 3. **Dynamic Category-Based Navigation** Enables users to explore different product types efficiently.
- 4. **Real-Time Search Functionality** Enhances product discovery.
- 5. **Fully Responsive Design** Ensures a smooth user experience across devices.

Summary

This phase successfully established the foundation for dynamic, scalable, and performance-optimized frontend components in the e-commerce project. By integrating Next.js server and client-side rendering, Sanity CMS for content management, and Tailwind CSS for styling, the platform ensures an engaging and seamless shopping experience for users.