

Day 4 - Dynamic Front-End Components - Furniro

Introduction:

The *Dynamic FrontEnd Components* project focuses on creating a responsive, feature-rich marketplace interface for *Furniro*, a furniture e-commerce platform. The goal was to implement dynamic, reusable components using modern frontend frameworks and tools like Next.js, React.js, and Sanity CMS. This assignment allowed us to explore advanced concepts such as dynamic routing, state management, and API integrations.

Technologies Used:

- **Next.js:** For server-side rendering, dynamic routing, and overall frontend framework.
- **React.js:** For creating reusable components and managing UI state.
- **Sanity CMS:** To store and manage dynamic content like product details.
- **Lucide React:** For adding scalable vector icons.
- **Recharts:** For creating interactive charts in the analytics dashboard.
- **React Toastify:** For toast notifications to enhance user feedback.

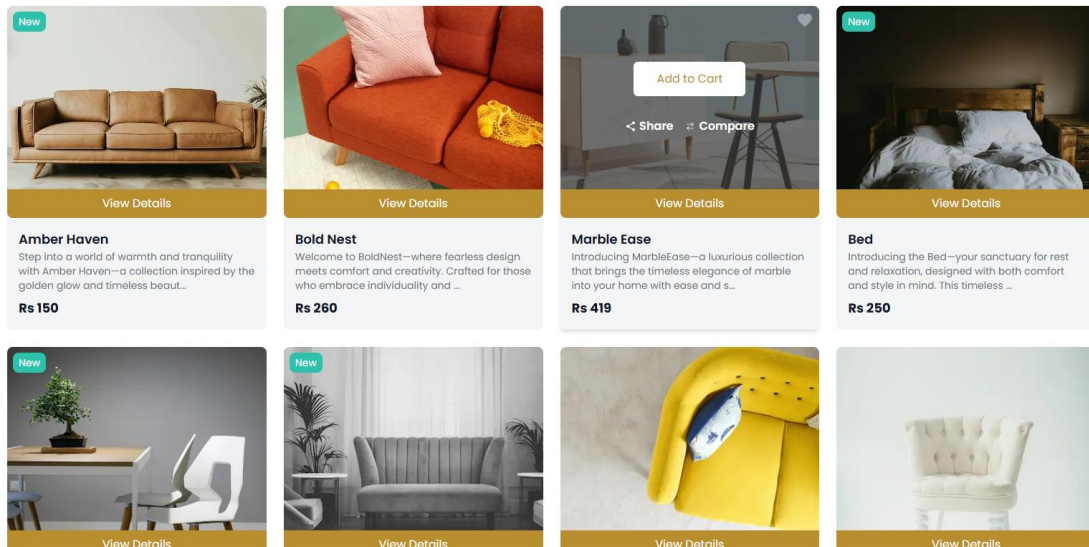
Dynamic FrontEnd Components:

1. Product Listing Page:

We implemented a dynamic product listing page by fetching product data from *Sanity CMS*. Each product was displayed in a grid layout, showing the following fields:

- Product title
- Description (shortened for the grid view)
- Product image
- Price

The page is fully responsive and adapts to different screen sizes. The grid layout ensures that users can browse multiple products conveniently.

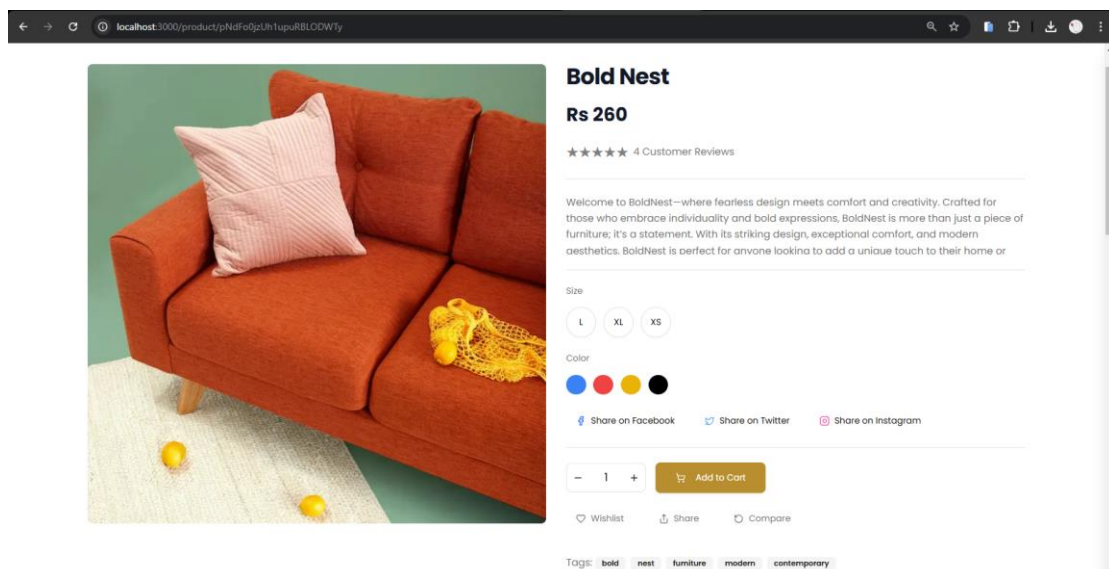


2. Product Details Page:

The product details page provides comprehensive information about each product. Using Next.js dynamic routing, we created individual pages for each product based on its unique ID.

Implementation Details:

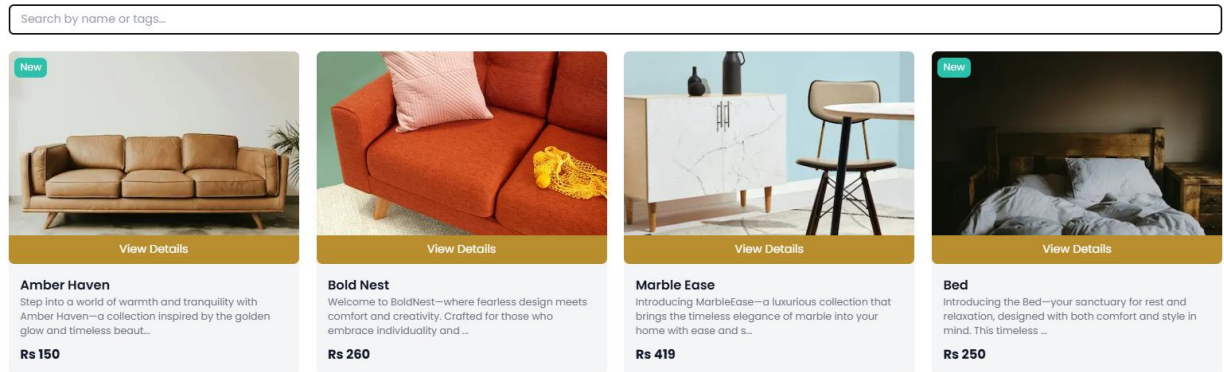
- **Dynamic Routing:** Leveraged the `[id].js` file in Next.js to generate pages dynamically based on product IDs.
- **Reusable UI Elements:** Components like buttons, rating stars, and badges were reused here.



3. Search Bar:

The search bar was implemented to enable users to filter products by name or tags dynamically. It is available on the product listing page and updates the displayed products in real-time as the user types.

BEFORE SEARCH:



AFTER SEARCH:

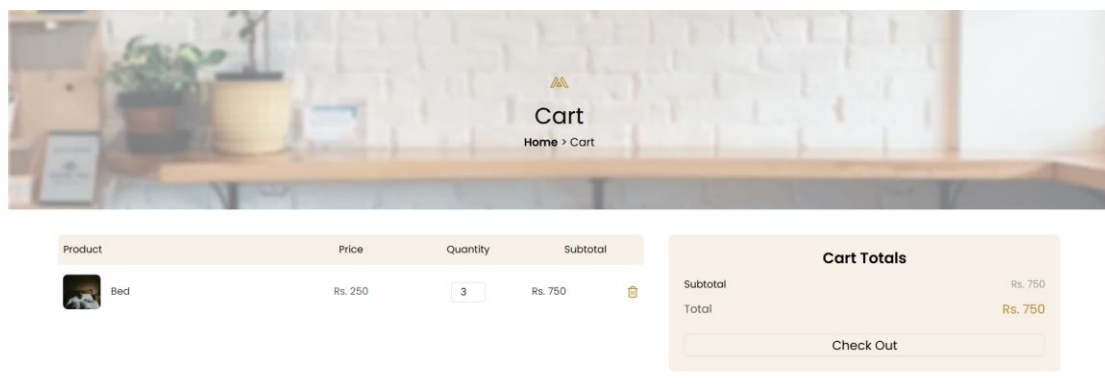
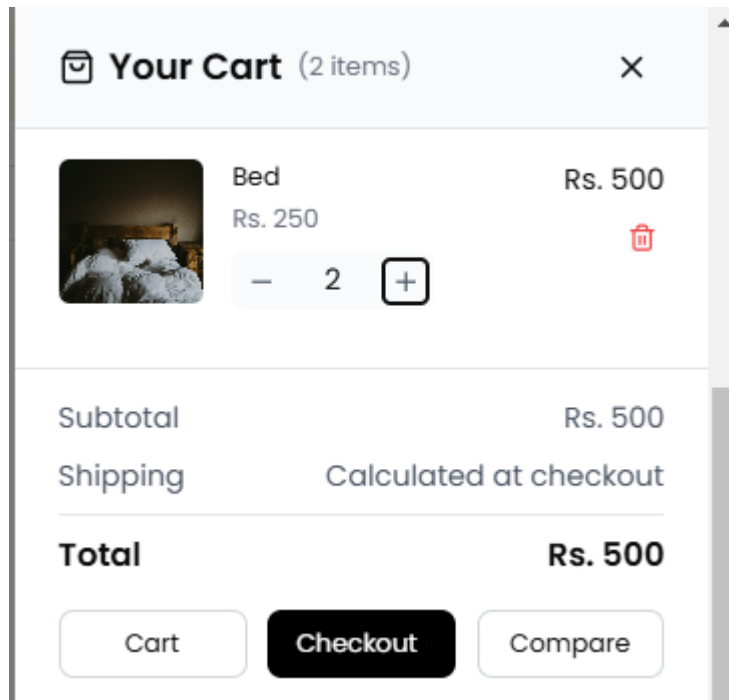


4. Cart Component:

The **Cart Component** enables users to view and manage the products they have added to their cart.

Implementation Details:

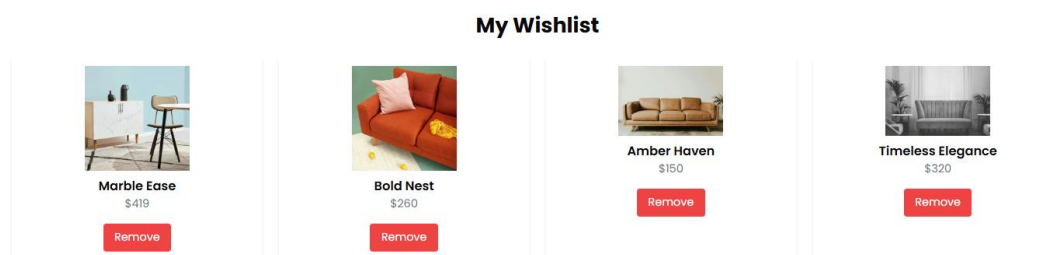
- **State Management:** We utilized the useState hook in React to track cart items and their quantities dynamically.
- **Features:**
 - Displays the list of added products with their name, price, and quantity.
 - Allows users to update the quantity of each product.
 - Automatically calculates and displays the total price.
 - Removes items from the cart when requested.



5. Wishlist Component:

The **Wishlist Component** allows users to save products for future consideration.
Implementation Details:

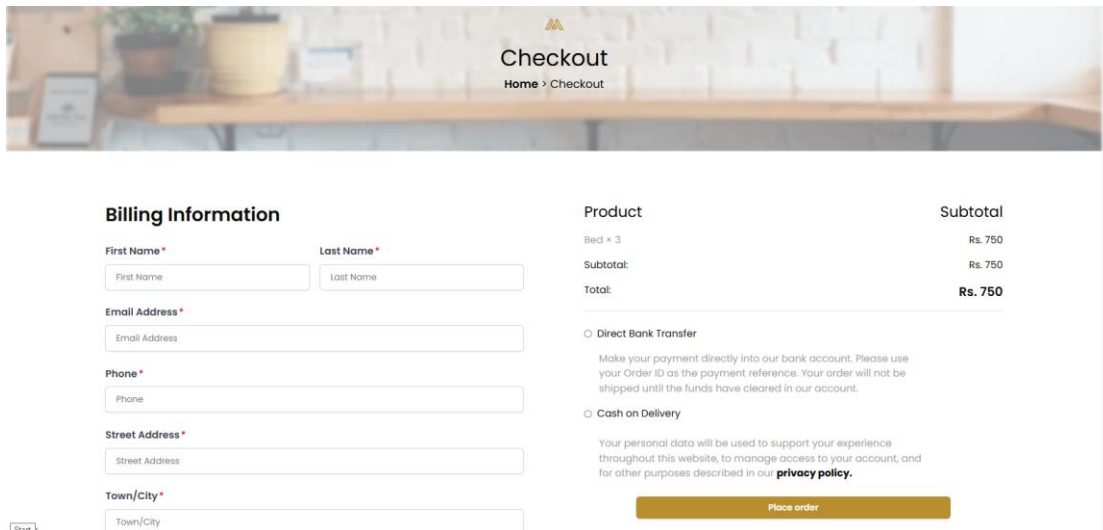
- **Local Storage:** We used localStorage to persist wishlist data so users can revisit it even after refreshing or closing the browser.



6. Checkout Flow Component:

The **Checkout Flow Component** simplifies the process of placing an order.

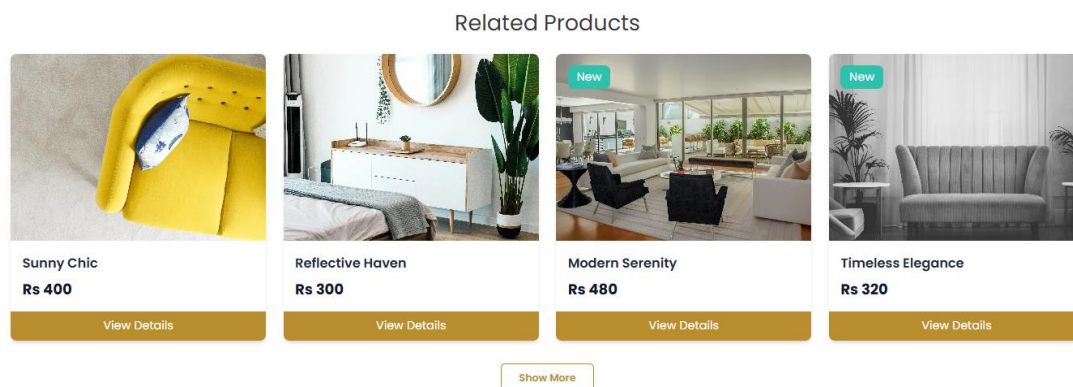
- **Form Creation:**
 - Includes fields for billing and shipping information such as name, address, city, and country.
 - Collects payment details for order processing.
- **Validation:**
 - Ensures all required fields are filled before allowing the order to proceed.
 - Displays error messages for missing or invalid inputs.



The screenshot displays a checkout page with a header featuring a logo and the text "Checkout" and "Home > Checkout". The main content is divided into two columns. The left column, titled "Billing Information", contains form fields for "First Name", "Last Name", "Email Address", "Phone", "Street Address", and "Town/City", each with a red asterisk indicating a required field. A "Start" button is located at the bottom left of this column. The right column, titled "Product", shows a summary of the order: "Bed x 3" for "Rs. 750", a "Subtotal" of "Rs. 750", and a "Total" of "Rs. 750". Below this, there are two payment options: "Direct Bank Transfer" and "Cash on Delivery", each with a brief description. A "Place order" button is positioned at the bottom right of the right column.

7. Related Products Component:

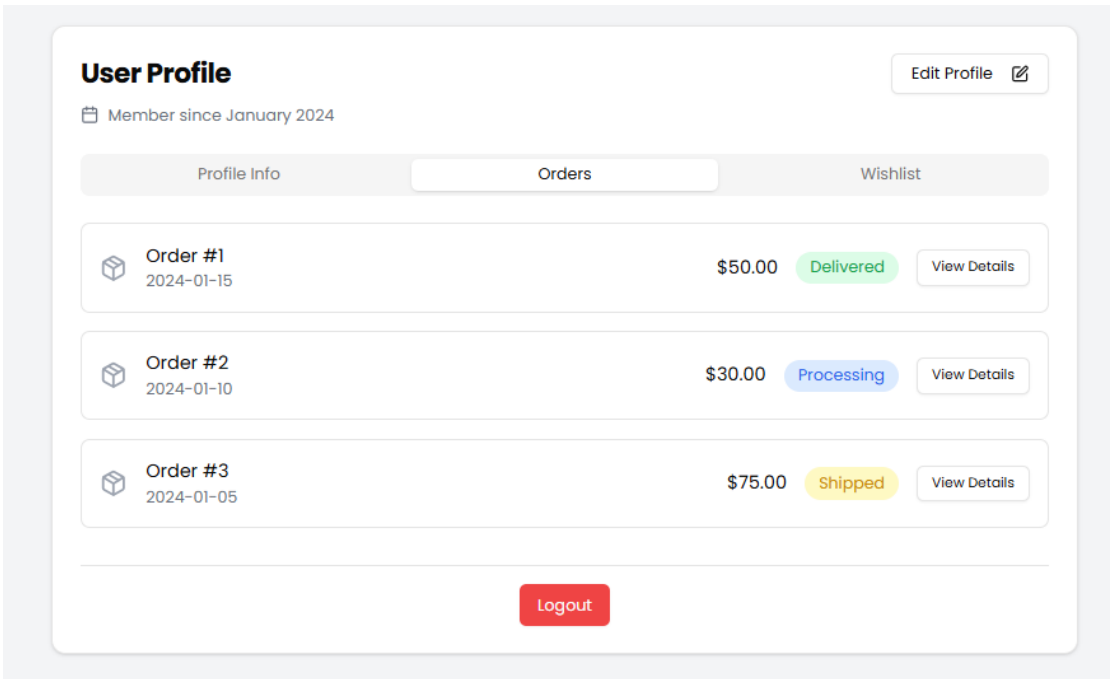
The **Related Products Component** enhances user experience by suggesting products related to the one currently being viewed.



8. User Profile Component:

Displays user-specific information and order history.

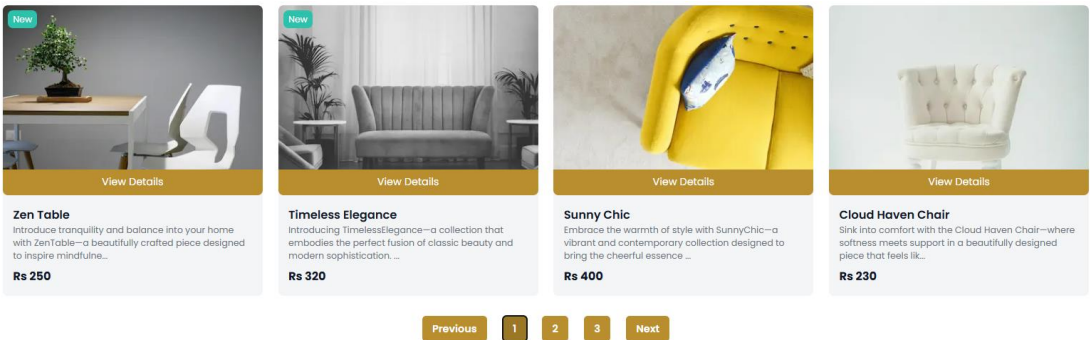
- **Features:**
 - User details: name, email, saved addresses.
 - Order history with links to individual orders.
- **Authentication:** Redirects non-logged-in users to the login page.



9. Pagination Component:

Organizes large product lists into pages for easier navigation.

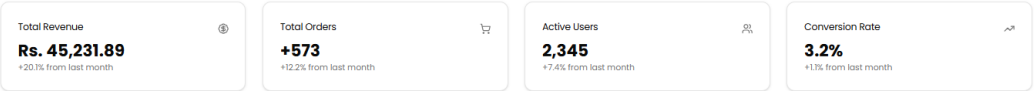
- **Navigation:** Includes previous, next, and numbered buttons.



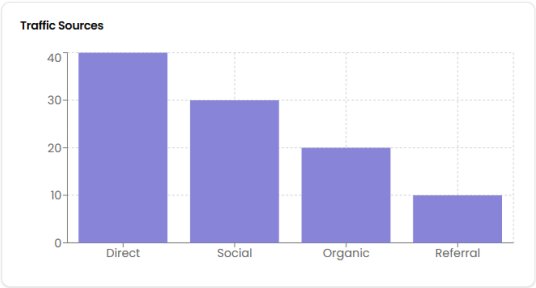
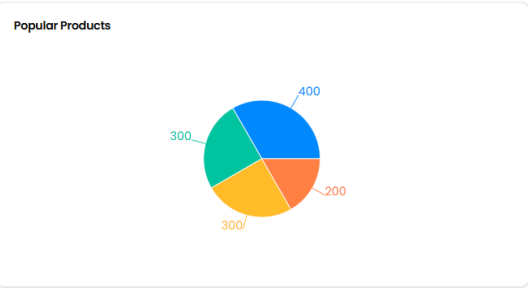
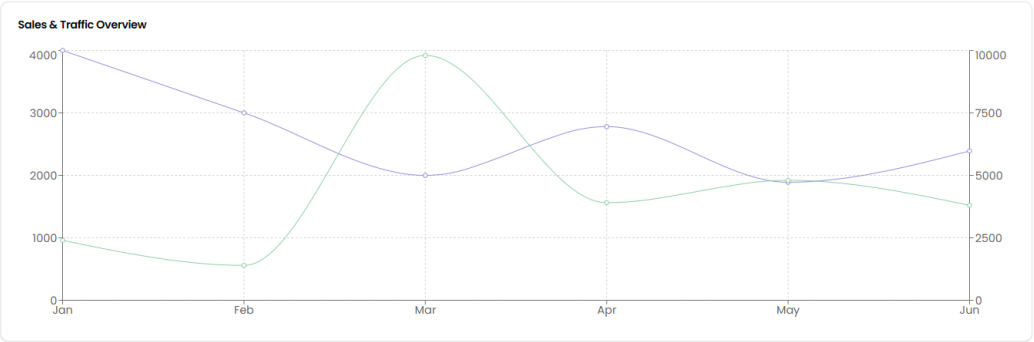
10. Analytics Dashboard Component:

Displays key performance indicators (KPIs) such as sales, traffic, and popular products.

Analytics Dashboard



Overview Analytics Products



11.FAQ and Help Center Component:

Provides a searchable FAQ section and support options.

Frequently Asked Questions

Search FAQs...

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How can I track my order?

You can track your order using the tracking link sent to your email after purchase.

What is your return policy?

We accept returns within 30 days of purchase. Items must be unused and in original packaging.

How can I contact customer support?

You can contact us via the contact form above or at support@example.com.

Do you offer international shipping?



Yes, we ship to most countries worldwide. Shipping charges may apply.

12. Product Comparison Component:

Allows users to compare multiple products side by side.

- Details: Compares product features, price, and ratings.

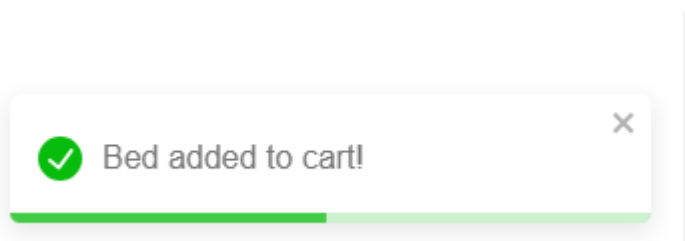
Compare Products

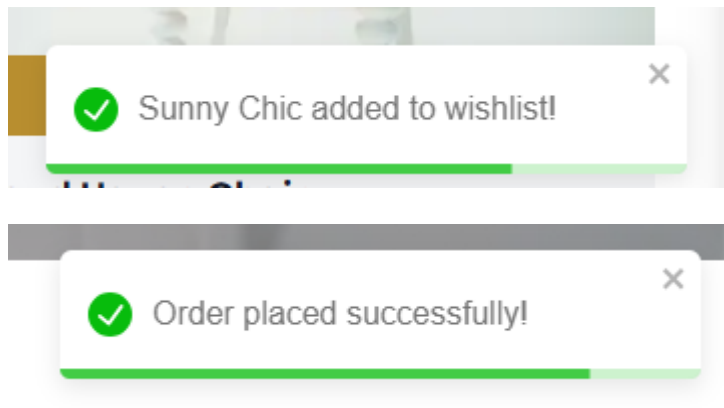
 <p>Bed</p> <p>Rs. 250</p> <p>★★★★★ (103 reviews)</p> <p>Remove</p>	 <p>Bold Nest</p> <p>Rs. 260</p> <p>★★★ (57 reviews)</p> <p>Remove</p>
<h3>Price Information</h3>	
Current Price	Current Price
Rs. 250	Rs. 260
Original Price	Original Price
No discount	No discount
Discount	Discount
No discount	No discount
<h3>Features</h3>	
Tags	Tags
bed , furniture , sleep , cozy , modern	bold , nest , furniture , modern , contemporary

13. Notifications Component

Displays real-time alerts for actions like adding to the cart, errors, or successful purchases.

- **Toast Notifications:** For instant feedback.





Self Validation Checklist:

Task	Status
FrontEnd components	✓
Styling and responsiveness	✓
Code Quality	✓
Documentation and submission	✓
Final Review	✓

-Made by Sabeh Shaikh