

# Dynamic Frontend Components - Furniro

## Objective:

To develop scalable, reusable, and high-performance frontend components for **Furniro**, seamlessly integrating a headless CMS to enhance user experience and ensure a responsive, modern e-commerce platform.

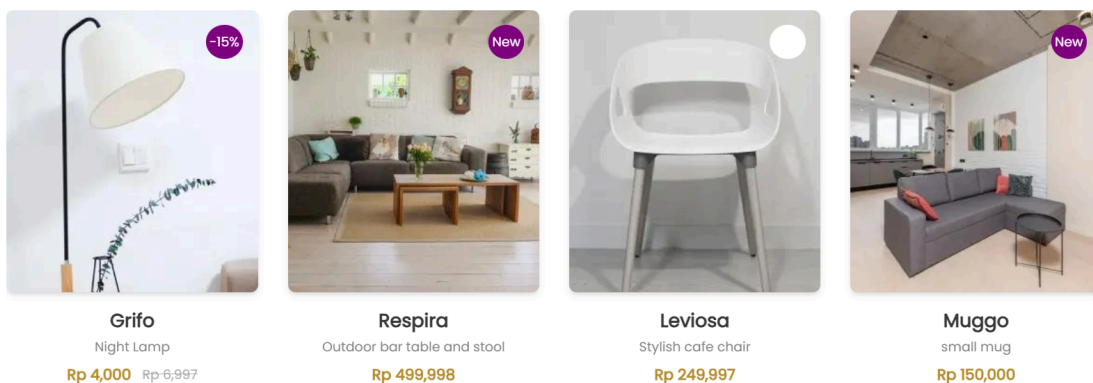
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## Components Developed

### 1. Product Display System

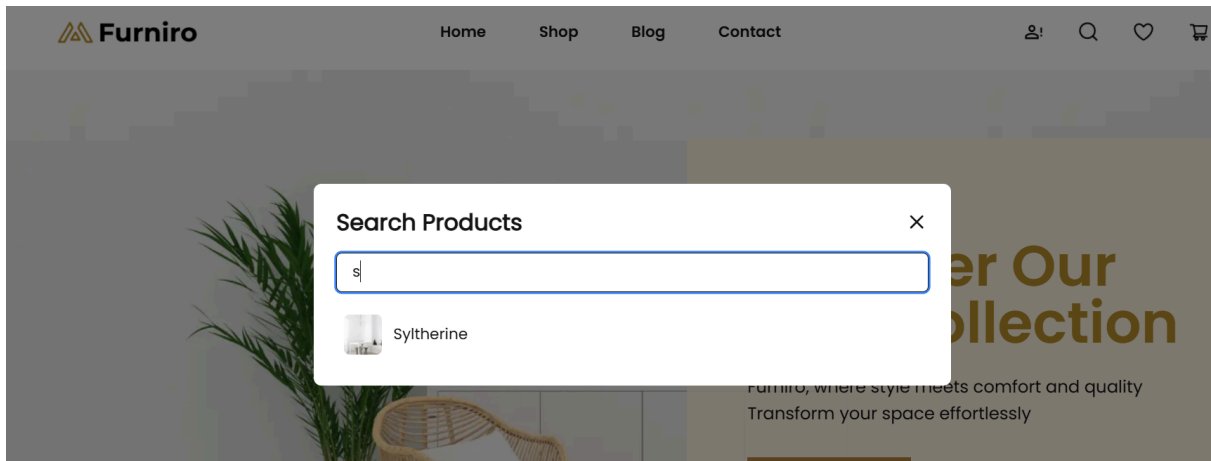
- Fetches and displays products dynamically in a modern grid layout.
- Ensures a smooth browsing experience with optimized rendering.

#### Our Products



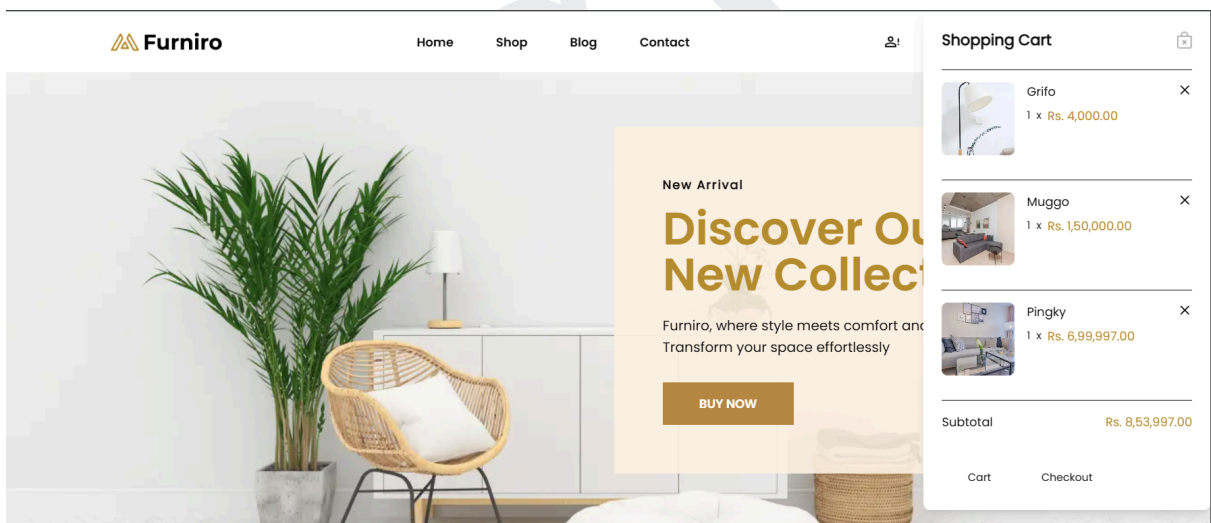
### 2. Smart Search Feature

- Real-time filtering by product name, category, or tags.
- Offers instant search suggestions for an enhanced user experience.



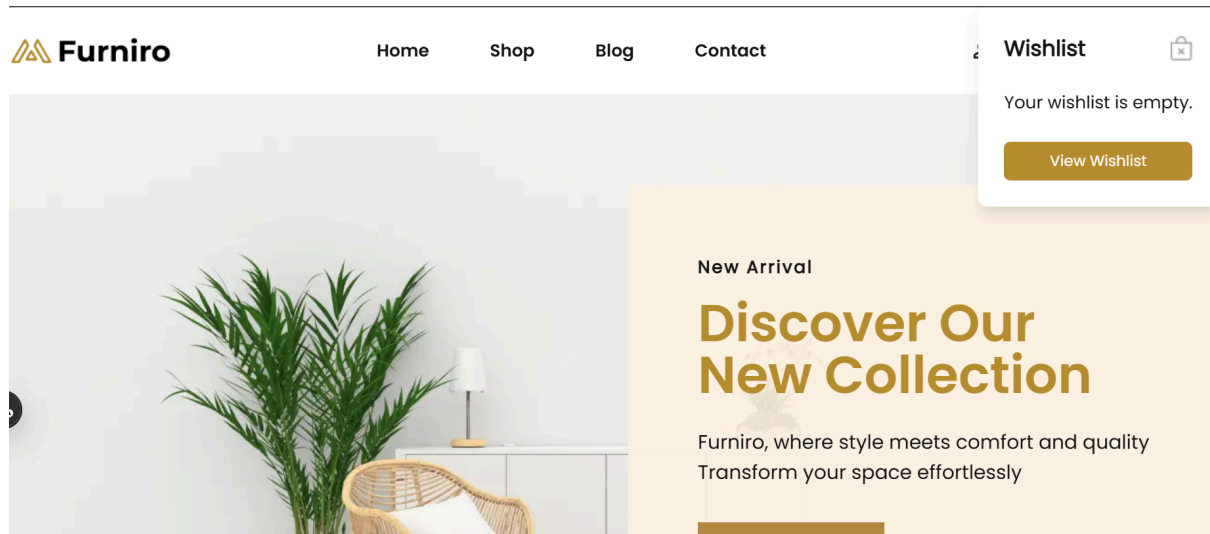
### 3. Shopping Cart System

- **Cart Sidebar:** Opens when the cart icon is clicked, providing a quick view of selected items.
- **Cart Page:** Displays detailed cart contents, allowing quantity updates and automatic total calculations.



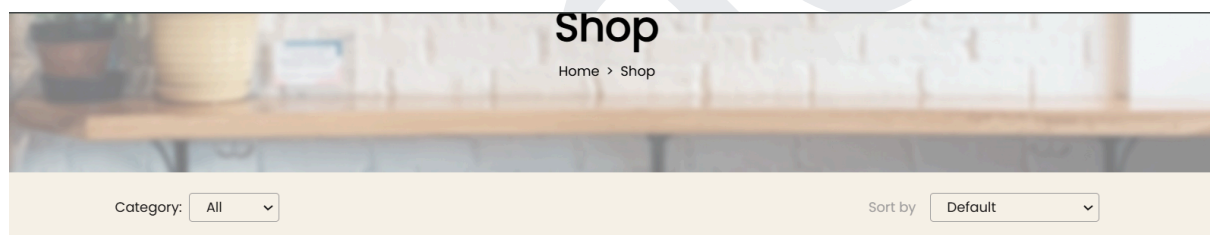
### 4. Wishlist System

- **Wishlist Sidebar:** Enables users to save items and access them easily.
- **Wishlist Page:** Lists favorited products with an option to move them to the cart or remove them.



## 5. Advanced Filtering System

- Users can filter products by category, price range, stock availability, and more.
- Improves product discovery and boosts user engagement.



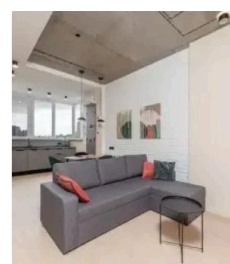
**Grifo**  
Night Lamp  
Rp 4,000



**Respira**  
Outdoor bar table and stool  
Rp 499,998



**Leviosa**  
Stylish cafe chair  
Rp 249,997



**Muggo**  
small mug  
Rp 150,000

## Key Features

- ✓ **State Management:** Efficiently handled using `useContext` and `useState`.
- ✓ **Mobile-First Design:** Built with **Tailwind CSS** for responsiveness.
- ✓ **Reusable UI Components:** Created modular elements like `ProductCard`, `Filter`,

and `CartItem` for scalability.

✓ **Optimized Performance:** Lazy loading and API caching for a seamless experience.

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## Challenges & Solutions

- **State Synchronization Issues**
    - Resolved using `useContext` for centralized state management.
  - **Maintaining UI Consistency**
    - Applied **Tailwind utilities** for uniform styling across all components.
  - **Optimizing Performance for Large Product Catalogs**
    - Implemented **lazy loading & API caching** to speed up data fetching.
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## Achievements

- Built a feature-rich, responsive, and highly interactive shopping experience.
- Strengthened expertise in modular architecture, state management, and API integrations.
- Delivered a seamless e-commerce solution optimized for performance and scalability.