

# Day 4 - Dynamic Frontend Components – VAULTSNEAKS

## Objective

On Day 4, the focus was on designing and developing dynamic frontend components for the shoe marketplace. The goal was to enhance the user experience by integrating data from Sanity CMS and creating scalable, reusable components.

### Key Learning Outcomes:

1. Building dynamic frontend components to display data from Sanity CMS.
2. Implementing reusable and modular components.
3. Understanding state management techniques.
4. Applying responsive design and UX/UI best practices.

### Components Developed:

1. **Product Listing Component:** Displayed products dynamically in a grid layout.
2. **Product Detail Component:** Provided detailed views of individual products using dynamic routing.
3. **Cart Component:** Showed added items, quantities, and total price, with state management for cart items.
4. **Search Bar:** Implemented functionality to filter products by name or tags.
5. **Product Comparison Page:** Developed a feature allowing users to compare multiple products side-by-side, highlighting differences in features, prices, and reviews.

### Steps for Implementation:

1. **Setup:** Ensured the Next.js project was connected to Sanity CMS for data fetching.
2. **Component Building:** Developed each component with a focus on modularity and reusability.
3. **Styling:** Used Tailwind CSS to ensure the components were responsive across devices.
4. **State Management with Zustand:** Implemented `Zustand` for global state management, providing a lightweight and flexible solution for managing application state across components.

### Expected Output:

- A fully functional product listing page displaying dynamic data.
- Individual product detail pages with accurate data rendering
- Advanced category filters and a search bar for refined product views.
- A product comparison page for side-by-side comparison of product features.

### Challenges and Solutions:

- **Challenge:** Handling dynamic routing for product detail pages.
- **Solution:** Utilized Next.js dynamic routes to ensure seamless navigation between product listings and details.

### Best Practices Followed:

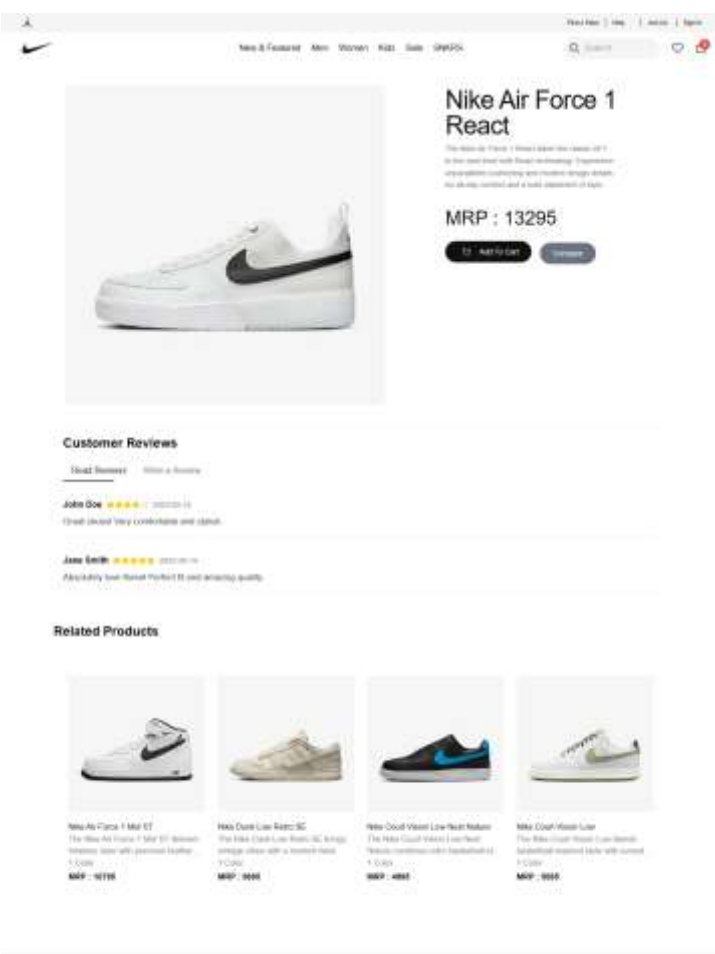
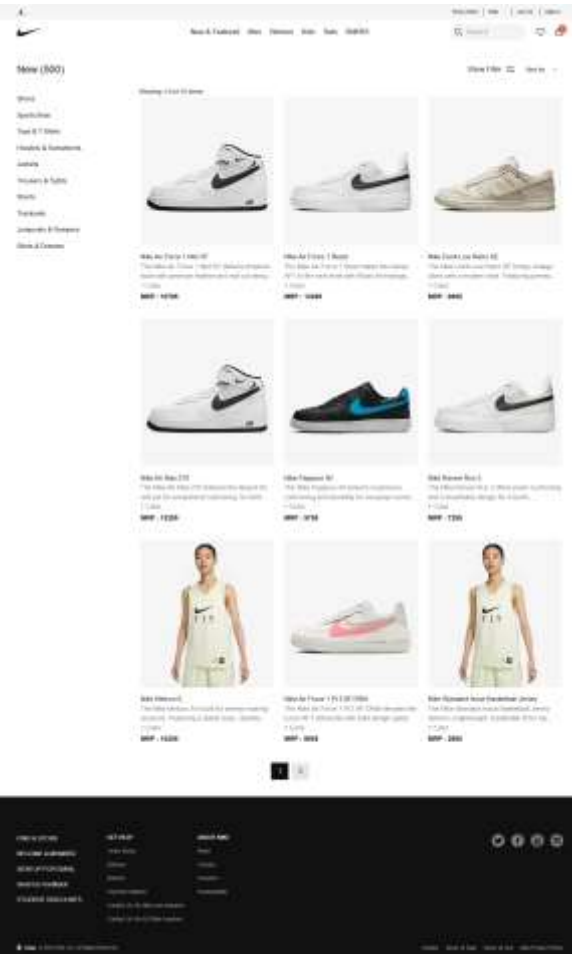
- Modular and reusable component design.

- State management for dynamic data binding using **Zustand**.
- Responsive and user-friendly UI design.

## Day 4 Checklist: Self-Validation

This checklist provides a quick validation of the key tasks accomplished on Day 4, ensuring all critical steps in building dynamic frontend components were thoroughly completed.

Task	Status
Component Development	✓
API Integration with Sanity CMS	✓
State Management with Zustand	✓
Responsive Design Implementation	✓
Pagination and Filtering	✓
Submission Preparation	✓



Product Comparison

Product to Compare



Nike Air Force 1 React  
\$13295

Category: Men's Shoes

Description: The Nike Air Force 1 React takes the classic AF1 to the next level with React technology. Experience unparalleled cushioning and modern design details for all-day comfort and a bold statement of style.

Add to Cart

Compare With

Nike Blazer Mid '77 Vintage



Nike Blazer Mid '77 Vintage  
\$8495

Category: Men's Shoes

Description: The Nike Blazer Mid '77 Vintage brings old-school basketball style to modern fashion. With a high-top design and premium leather, it delivers unmatched versatility and a timeless look.

Add to Cart

Feature Comparison

Feature	Nike Air Force 1 React	Nike Blazer Mid '77 Vintage
category	Men's Shoes	Men's Shoes
price	\$13295	\$8495

Free Delivery

Applies to orders of ₹14,000.00 or more. [View details](#)

Cart



Nike Air Force 1 React MRP: 13295  
The Nike Air Force 1 React takes the classic AF1 to the next level with React technology. Experience unparalleled cushioning and...  
White  
Size: L Quantity: 3



Nike Blazer Mid '77 Vintage MRP: 8495  
The Nike Blazer Mid '77 Vintage brings old-school basketball style to modern fashion. With a high-top design and premium leather, it...  
White/Black  
Size: L Quantity: 1



Summary

Subtotal	₹20,890.00
Estimated Delivery & Handling	Free
Total	₹20,890.00

Member Checkout

Favourites

There are no items saved to your favourites.