

E-commerce Website - Building Dynamic Frontend Components

Objective

On Day 4, the focus was on designing and developing interactive frontend components to display product data fetched from an API or Sanity CMS. The goal was to create reusable components while following best practices for responsive and scalable web applications.

Key Learning Outcomes:

- Develop dynamic frontend components that fetch and display product data.
- Create reusable and flexible components for easier maintenance and scalability.
- Implement state management to handle data flow across components.
- Focus on responsive design and user-friendly UI/UX.
- Follow professional development workflows for real-world projects.

Key Components Built

Product Listing Component

- Displays a list of products with images, descriptions, prices, availability, and reviews.
- Built to be flexible and reusable, with data passed as props.



Gray Slim-Fit Jogger Pants

★★★★☆ 3.5/5

170rs -15%



Skinny Fit Jeans

★★★★☆ 3.5/5

240rs



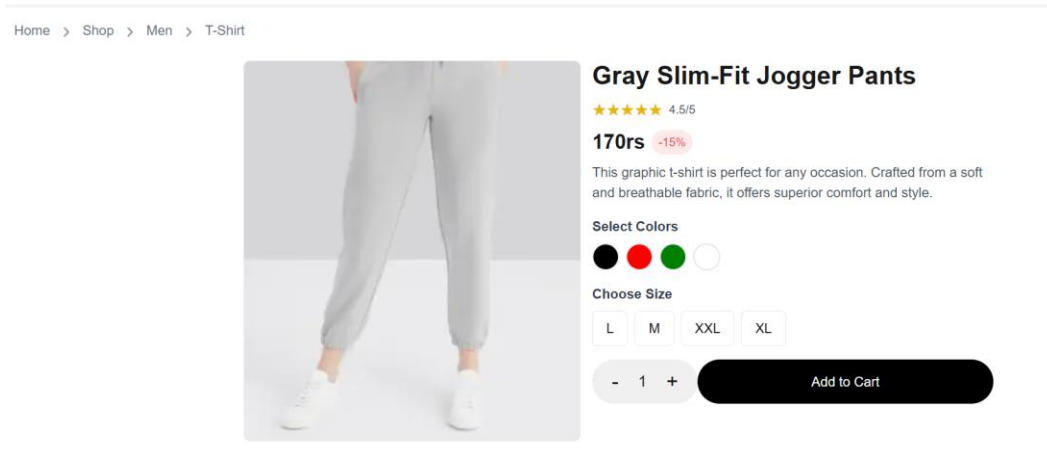
COURAGE GRAPHIC T-SHIRT

★★★★☆ 3.5/5

145rs

Product Detail Component

- Shows detailed information about a specific product, including images, name, category, price, and discount details.
- Includes a link to the full product page.



Category Component

- Allows users to filter products based on categories like Clothing, Electronics, etc., making navigation easier.

Filters

T-shirts>

Shorts>

Shirts>

Hoodie>

Jeans>

Price

\$50\$200

Colors

Size

XX-Small

X-Small

Small

Medium

Large

X-Large

XX-Large

3X-Large

4X-Large

Dress Style

Casual>

Formal>

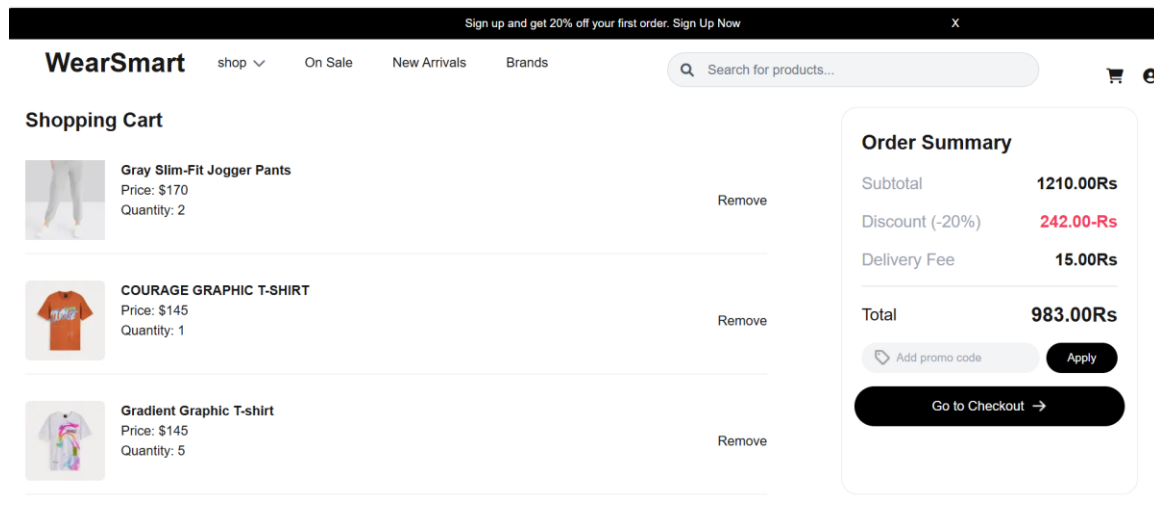
Party>

Gym>

Apply Filter

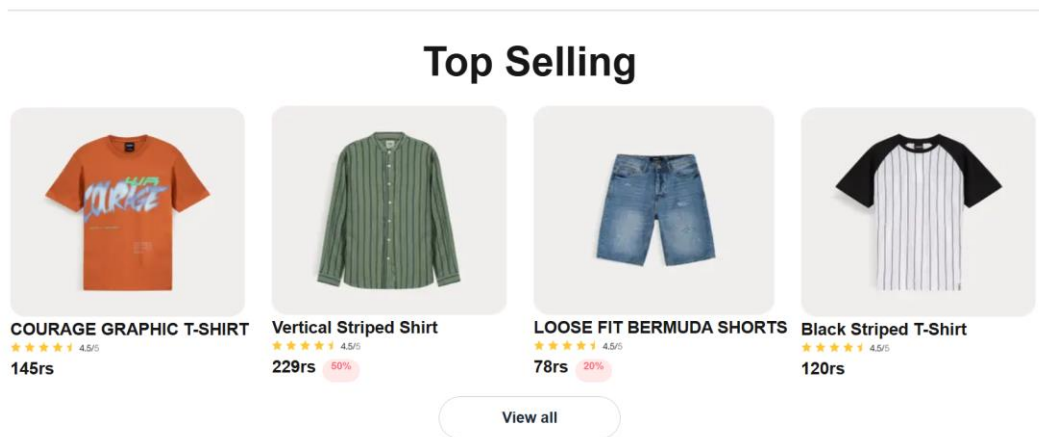
Cart Component

- Lets users add products to the cart, view selected items, and proceed to checkout.



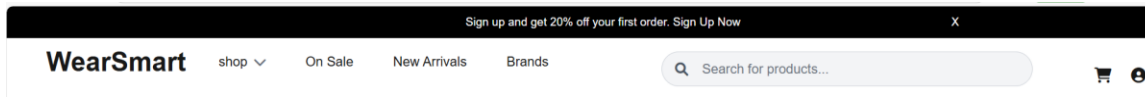
Related Products Component

- Suggests similar products to the one currently being viewed, increasing cross-selling opportunities.



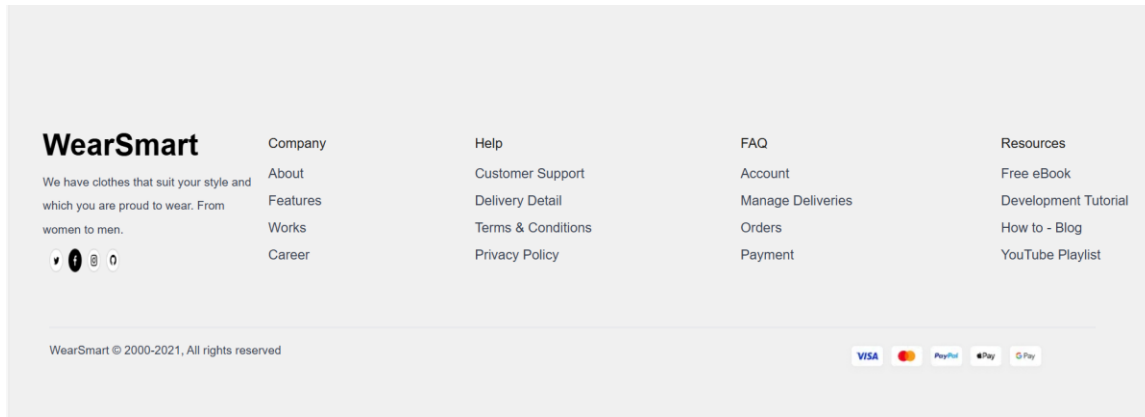
Header Component

- Provides navigation links and contact information, ensuring easy access to important pages.



Footer Component

- Contains navigation links, contact details, and other useful site information.



Conclusion

On Day 4, we successfully built dynamic frontend components using real-time data from an API or Sanity CMS. The focus on modularity, state management, and responsive design made these components efficient and user-friendly. With these best practices, the e-commerce website is now more interactive, scalable, and ready for real-world use.