

The background is an abstract watercolor illustration. It features soft, blended washes of pink in the upper right and purple in the lower left. Delicate, swirling gold lines are scattered across the white background, some forming loops and others as straight paths. In the bottom right corner, there are circular, textured gold shapes that resemble coins or medallions. The overall style is artistic and elegant.

Day 4 - Dynamic frontend Components

Prepared By Aamna Ansari

"Day 4 - Dynamic Frontend Components – Furniro"

This session will emphasize the importance of creating modular, reusable components and applying best practices for building scalable and responsive web applications.

Key Learning Outcomes:

Develop dynamic frontend components that fetch and display data from Sanity CMS or APIs.

Implement reusable, modular components for efficient code management.

Apply state management techniques to control data flow within components.


Understand the significance of responsive design and implement UX/UI best practices.

Simulate real-world client workflows to prepare for professional web development projects.


Product Listing Component (Card View)

The Product Listing Component displays product data in a card-based format, making it easy for users to browse through the marketplace. The component fetches data from a CMS like Sanity or external APIs, rendering each product as a distinct card. This approach enhances the visual presentation and allows for clear information about each product, such as images, titles, prices, and descriptions.


Product List




Rustic Vase Set
Price: \$210
Discount: 15%




Vase Set
Price: \$150
Discount: 45%




Bed
Price: \$250
Discount: 80%




Wood Chair
Price: \$180
Discount: 18%




Timber Craft
Price: \$320
Discount: 55%




Amber Haven
Price: \$150
Discount: 50%




Cloud Haven Chair
Price: \$230
Discount: 25%




Syltherine
Price: \$200
Discount: 20%




Wood Chair
Price: \$180
Discount: 10%




Retro Vibe
Price: \$340
0




Pure Aura
Price: \$280
Discount: 55%




Tropical Vibe
Price: \$350
Discount: 50%



Classy Interior



Karana Coat



Riviera Flanazara

Code:

```
importData.mjs  page.tsx ...blog  TS client.ts  TS product.ts  TS index.ts  .gitignore  page.tsx ...f2 M X

src > app > f2 > page.tsx > ProductList > products.map() callback
18  const ProductList = () => {
58      <div className="product-container">
59          <h1 className="product-title">Product List</h1>
60          <div className="product-grid">
61              {products.map((product: Product) => {
62                  <div className="product-card" key={product._id}>
63                      <img
64                          src={product.imageUrl}
65                          alt={product.title}
66                          className="product-image"
67                      />
68                      <div className="product-details">
69                          <h2 className="product-name">{product.title}</h2>
70                          <p className="product-price">Price: ${product.price}</p>
71                          {product.discountPercentage && (
72                              <p className="product-discount">
73                                  Discount: {product.discountPercentage}%
74                              </p>
75                          )}
76                          {product.isNew && <span className="product-badge">New!</span>}
77                      </div>
78                      <button
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
GET /studio 200 in 23455ms
GET / 200 in 199ms
✓ Compiled /f2 in 442ms
GET /f2 200 in 659ms

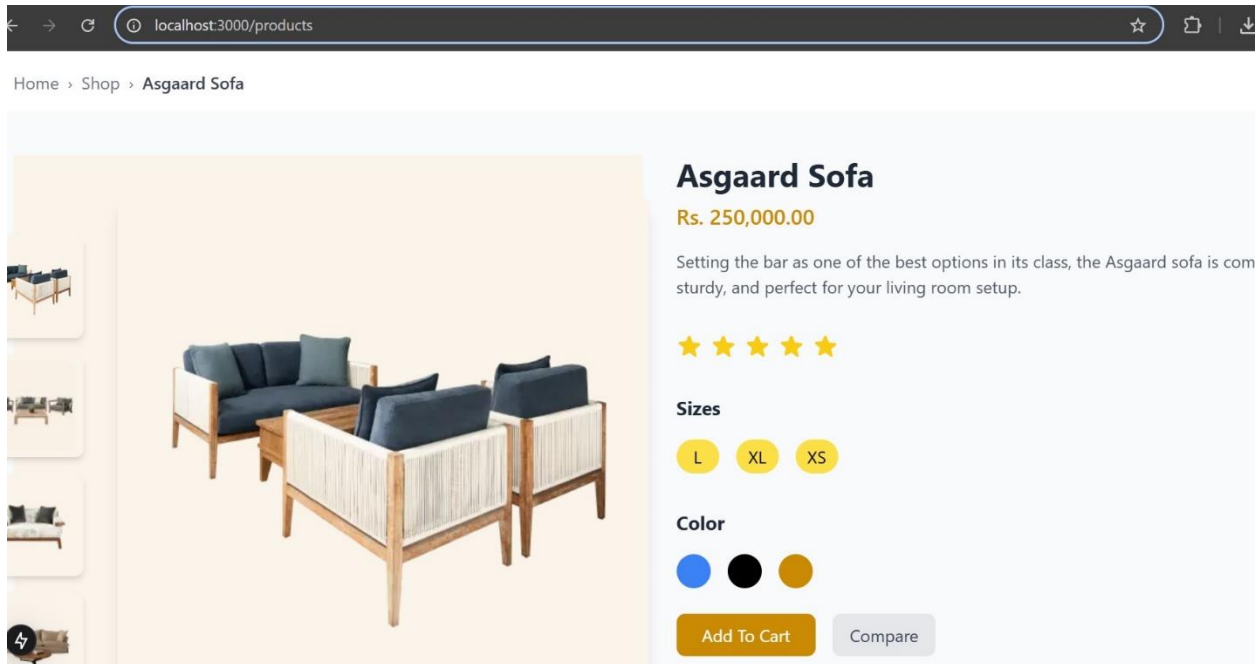
* History restored

Microsoft Windows [Version 10.0.22621.4317]
(c) Microsoft Corporation. All rights reserved.

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```

Product Detail Component:

The Product Detail Component is designed to showcase comprehensive information about a specific product, providing users with all the necessary details before making a purchase decision.



```
page.tsx ...\products M X  page.tsx ...\compare U  page.tsx ...\cart M  page.tsx ...\Order M  () package.json M  page.tsx ...\checkout M  JS importData.mjs

src > app > products > page.tsx > page > map() callback
12  const page = () => {
101    <h1 className="text-3xl font-bold text-gray-800">Asgaard Sofa</h1>
102    <p className="text-yellow-600 text-xl font-semibold mt-2">Rs. 250,000.00</p>
103    <p className="mt-4 text-gray-600">
104      Setting the bar as one of the best options in its class, the Asgaard
105      sofa is compact, sturdy, and perfect for your living room setup.
106    </p>
107
108    <div className="flex justify-start items-center mt-8 space-x-2">
109      <Array(5)>
110        .fill('')
111        .map((_, index) => {
112          <svg
113            key={index}
114            className="w-6 h-6 text-yellow-400"
115            fill="currentColor"
116            viewBox="0 0 20 20"
117            xmlns="http://www.w3.org/2000/svg">
118              <path d="M9.049 2.927a1 1 0 011.902 0l1.716 4.409 4.939a1 1 0 011.564 1.753l-3.684 3.074 1.106 4.833a1 1 0 01-1.451 1.054l10 15.001" data-bbox="0 0 20 20"/>
119            </svg>
120          </div>
121        </div>
122
123    <div className="mt-8 text-left">
124      <h2 className="text-lg font-bold text-gray-800 mb-4">Sizes</h2>
125      <div className="flex space-x-4">
126        {['L', 'XL', 'XS'].map((size, index) => (
127          <div
128            key={index}
129            className="w-10 h-8 rounded-full bg-yellow-300 flex items-center justify-center"
130          >
131            {size}
132          </div>
133        ))}
134      </div>
135    </div>
136  </div>
137}
138
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
GET /studio 200 in 23455ms
GET / 200 in 199ms
✓ Compiled /f2 in 442ms
GET /f2 200 in 659ms

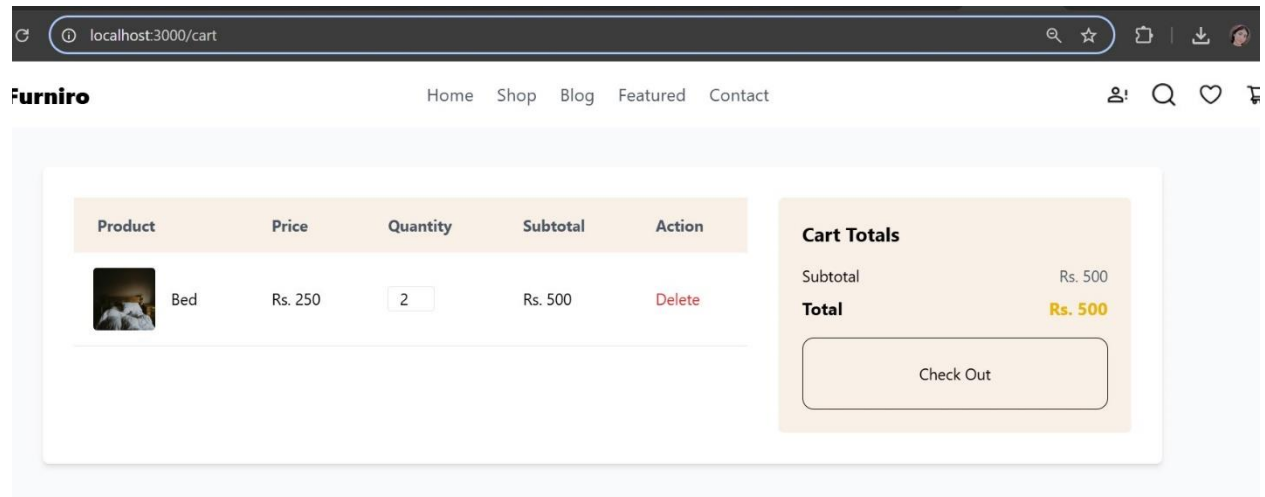
* History restored

Microsoft Windows [Version 10.0.22621.4317]
(c) Microsoft Corporation. All rights reserved.

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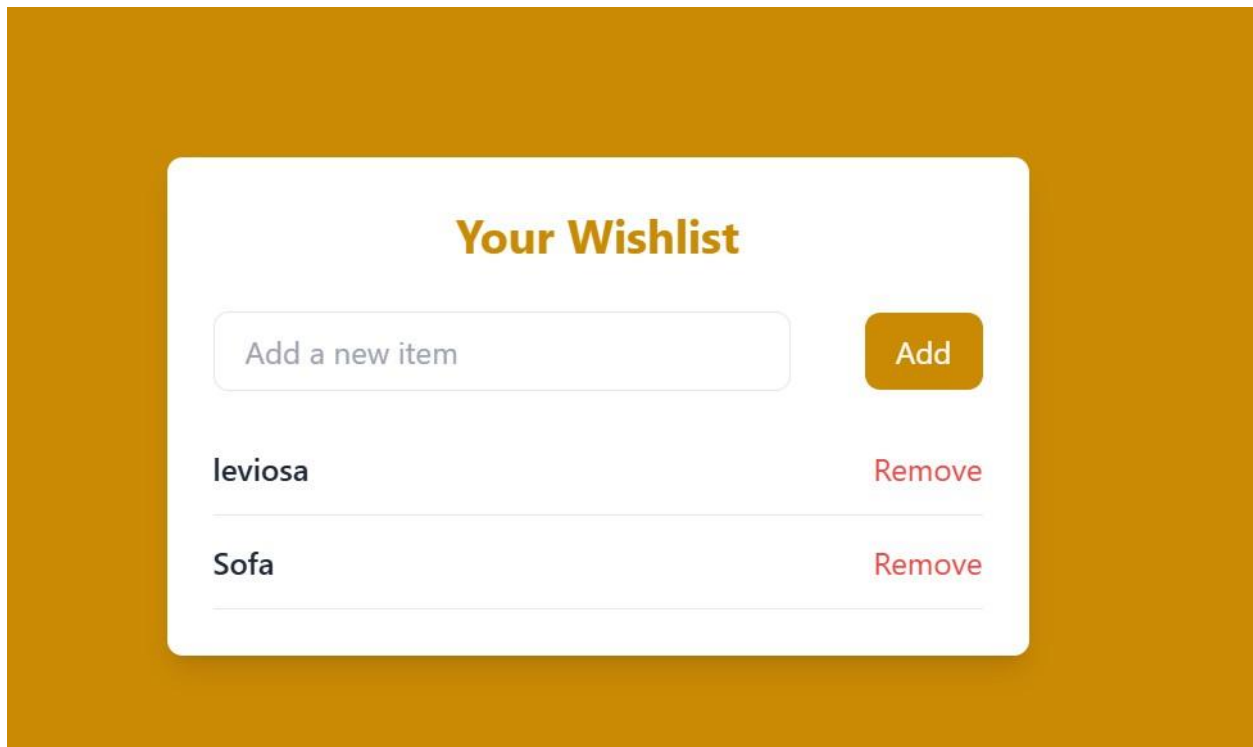
Cart Component:

The Cart Component is a crucial part of any e-commerce platform, allowing users to view the items they've added to their cart, adjust quantities, and see the total price. This component integrates state management to efficiently track and update cart items in real-time, providing a seamless shopping experience.



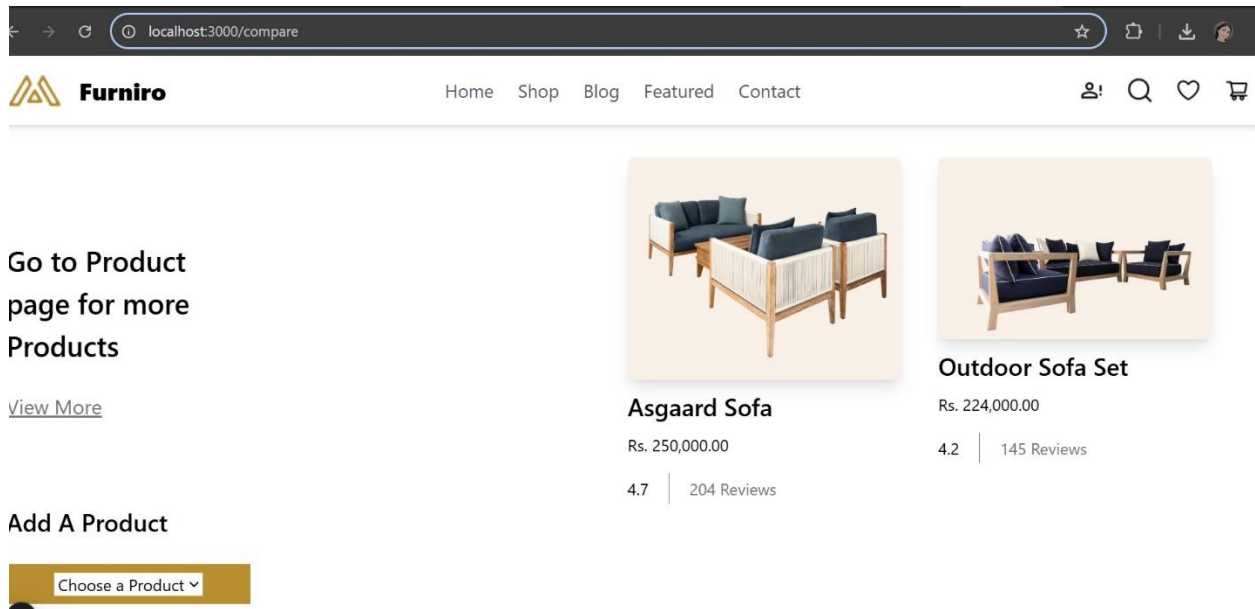
Wishlist Component:

The Wishlist Component enables users to save products for future reference, allowing them to easily revisit items they are interested in purchasing later.



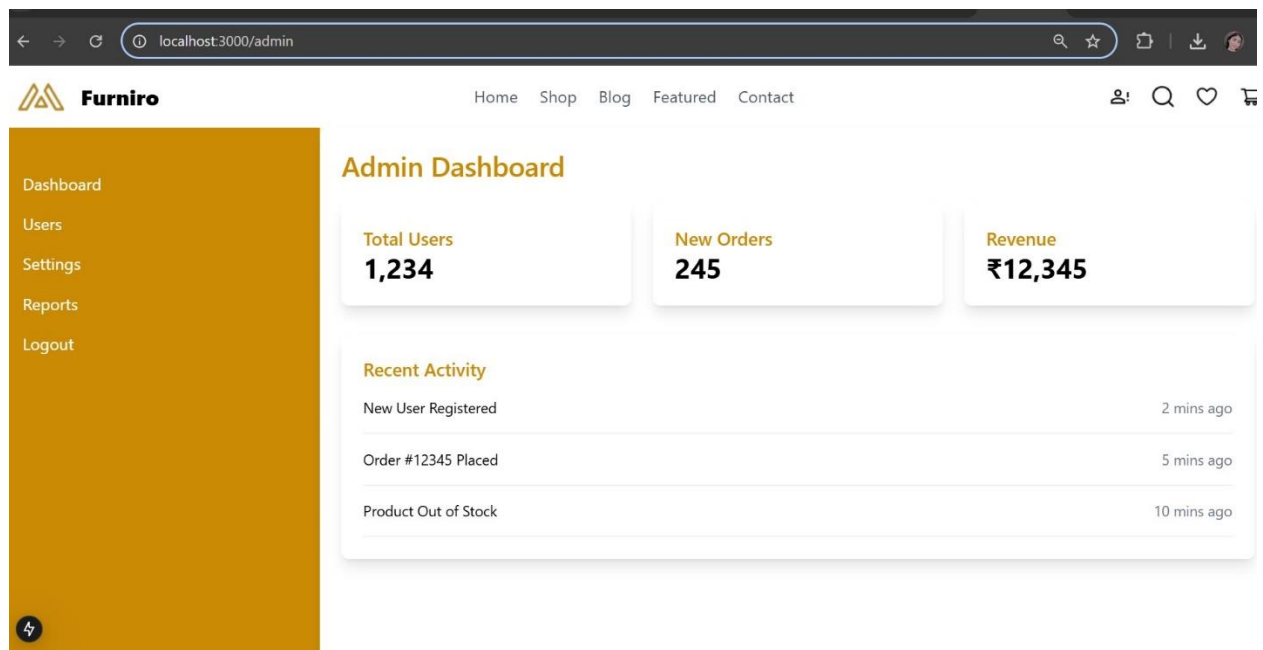
Product Comparison Component:

By displaying key details such as price, features, and ratings, this component enables users to easily evaluate and contrast products, ensuring they find the best option to meet their needs.



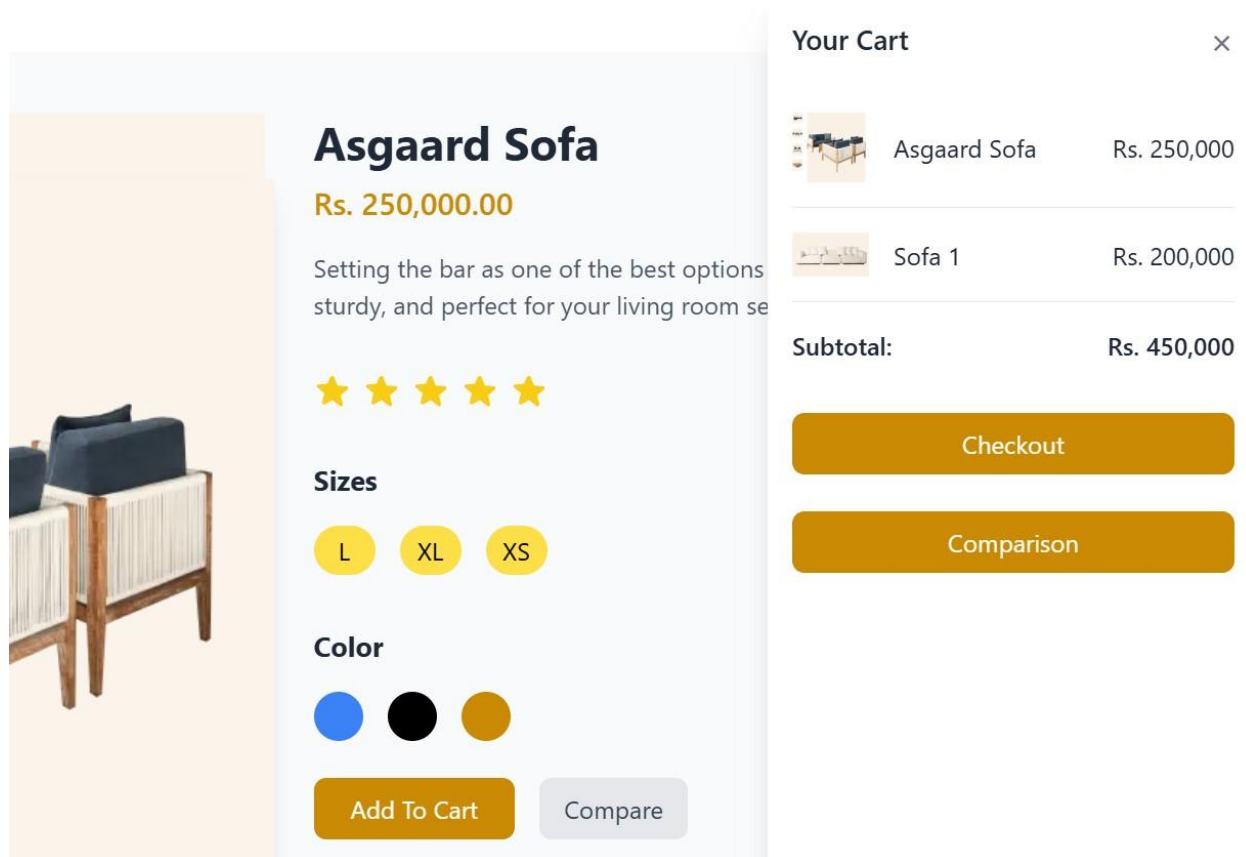
Admin Dashboard:

Allows administrators to manage user accounts, including permissions, roles, and activity tracking.



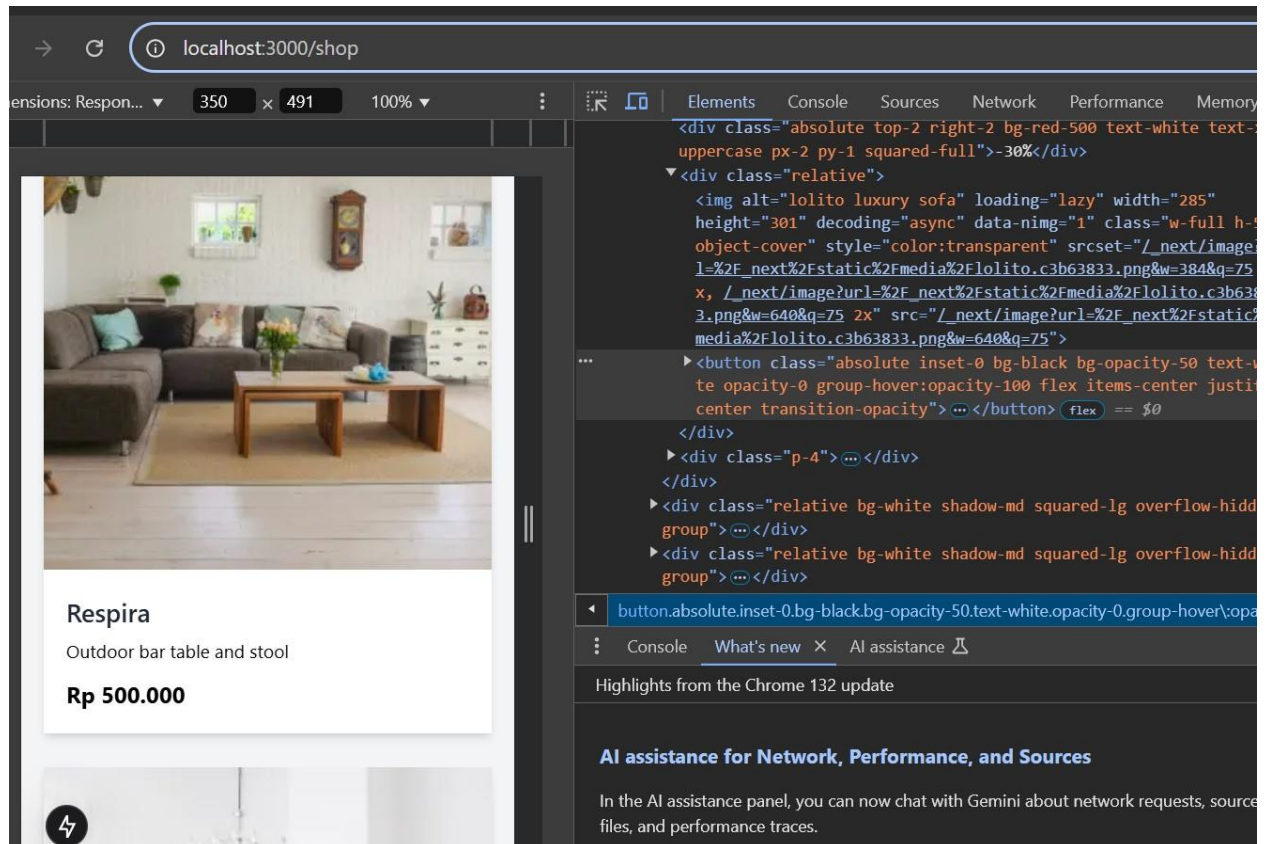
Cart Sidebar

The Cart Sidebar provides users with a convenient, collapsible interface to view and manage the items in their shopping cart without navigating away from the current page.



Responsiveness:

A responsive web design ensures that the layout, content, and interactions adjust seamlessly based on the screen size, resolution, and orientation of the device being used.





Checklist

☐

**Front-end Component
development**

☐

**Styling and
Responsiveness**

☐

Code Quality

☐

**Documentation and
submission**

☐

Final Review

