

Day 4

Dynamic Frontend Components Development Report for Furniture Ecommerce

1. Introduction

This report highlights the progress in developing dynamic and responsive frontend components for Furniture site. The focus areas include:

- 1. Dynamic Product Display**
designed an adaptable layout to showcase products dynamically based on inventory and user preferences. Integrated responsive features to ensure compatibility across devices.
- 2. Search and Filter Functionalities**
Developed advanced search and filtering options to help users find specific products quickly. Included filters like category, price range, and availability.
- 3. Product Listing Page**
Created a clean, user-friendly product listing page. Focused on intuitive navigation and consistent design elements.
- 4. Product Detail Page**
Built detailed product pages showcasing descriptions, images, and specifications. Added features like customer reviews and "Add to Cart" buttons.
- 5. Functional Cart with Order Management**
Developed a cart system allowing users to manage their orders seamlessly. Integrated item adjustments, checkout functionality, and order tracking.

2. Tasks Overview

Step 1: Product Listing

- Dynamically fetched product data from a RESTful API, ensuring scalability and up-to-date information.
- Displayed products in a visually appealing, fully responsive grid layout optimized for both desktop and mobile devices.
- Included essential product details such as names, prices, and thumbnails for easy browsing.

Step 2: Product Detail Page

- Designed an intuitive and engaging product detail page using dynamic routing for seamless navigation.
- Showcased detailed product information, including descriptions, pricing, and high-resolution images.

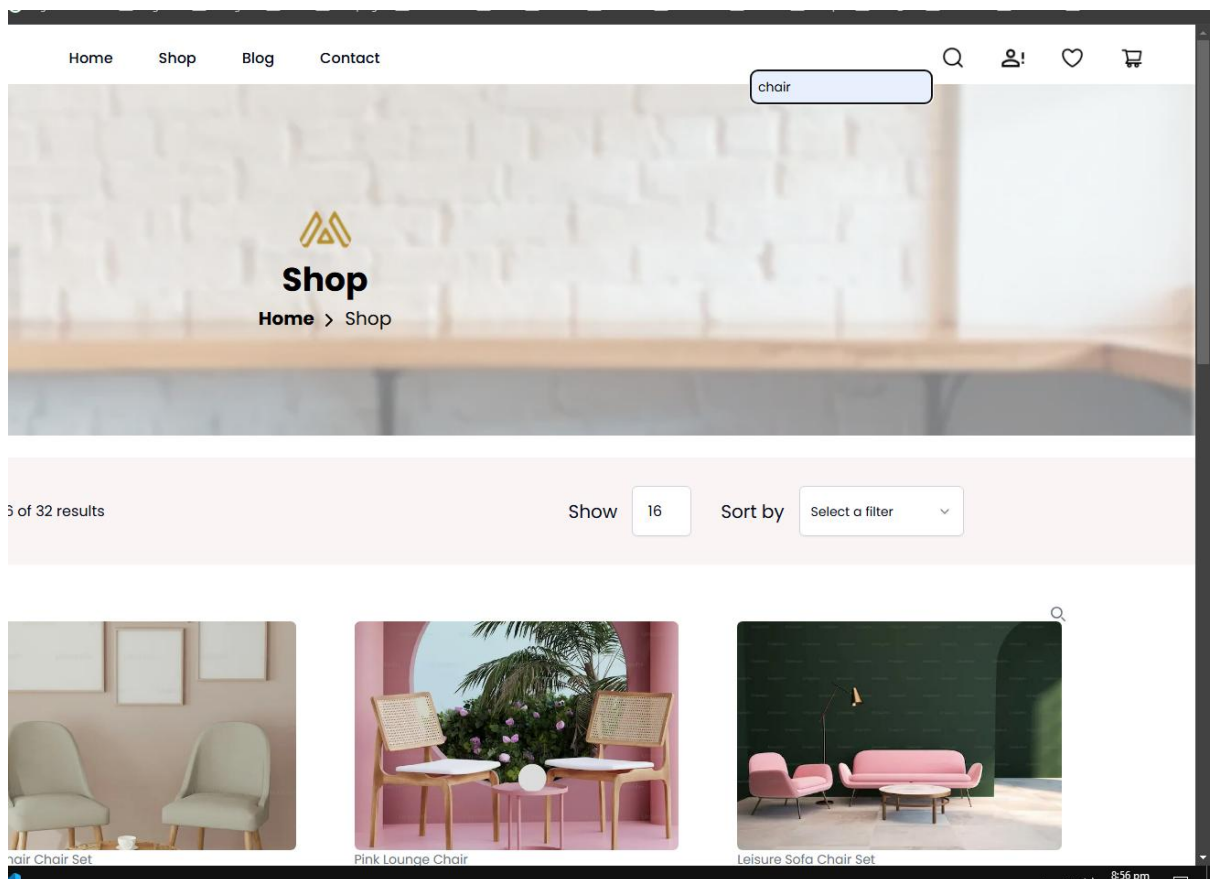
- Implemented an "Add to Cart" button with visual feedback to enhance user interaction and engagement.

Step 3: Category Component

- Dynamically fetched and displayed categories from the data source, ensuring a cohesive user experience.
- Designed an interactive UI for category selection, allowing users to filter products effortlessly.
- Optimized filtering performance to ensure smooth transitions and quick results.

Step 4: Search Bar and Filters

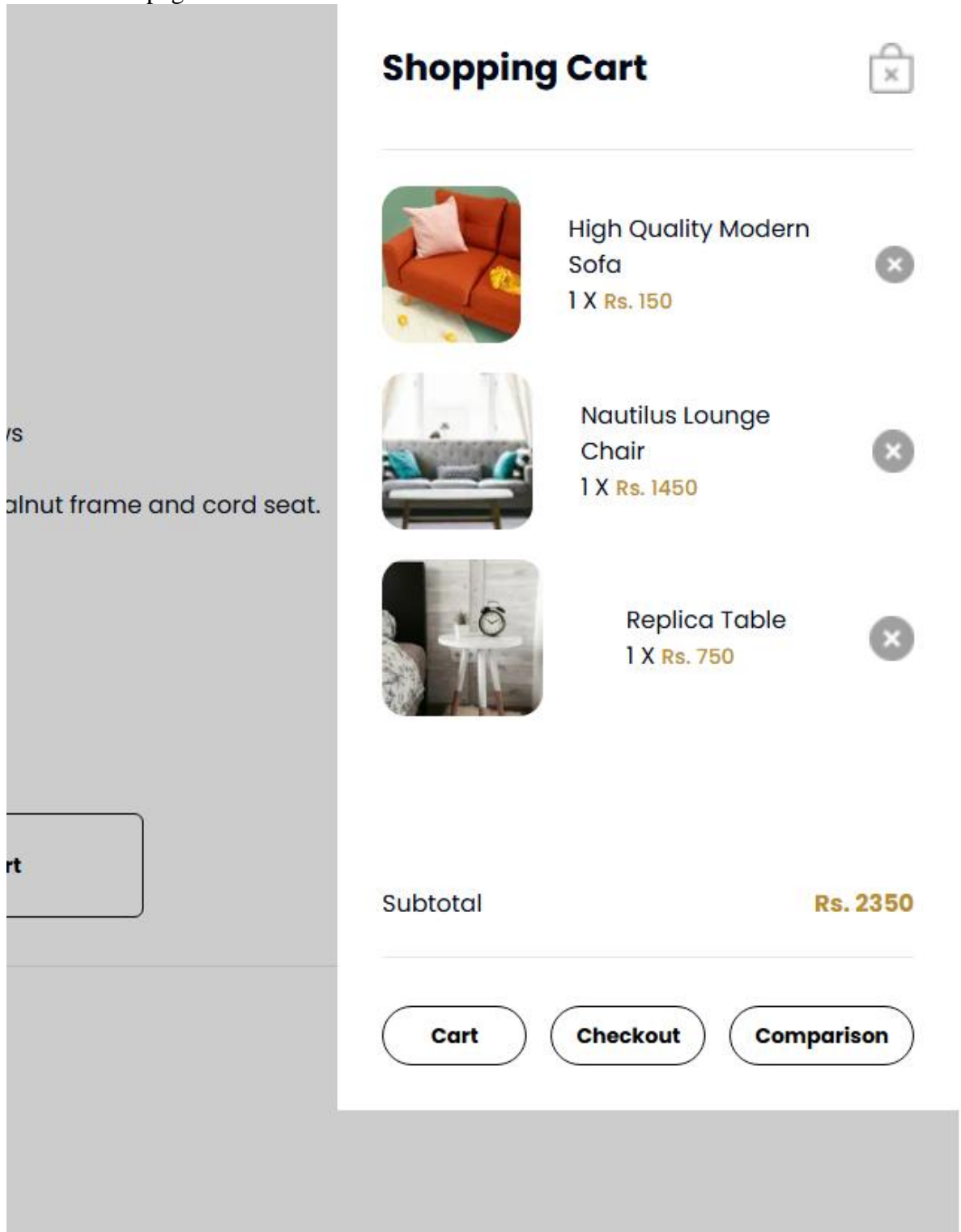
- Developed an intelligent search bar with real-time filtering capabilities, helping users find products quickly.
- Integrated category-based filters dynamically fetched from the API to enable multi-level filtering options.

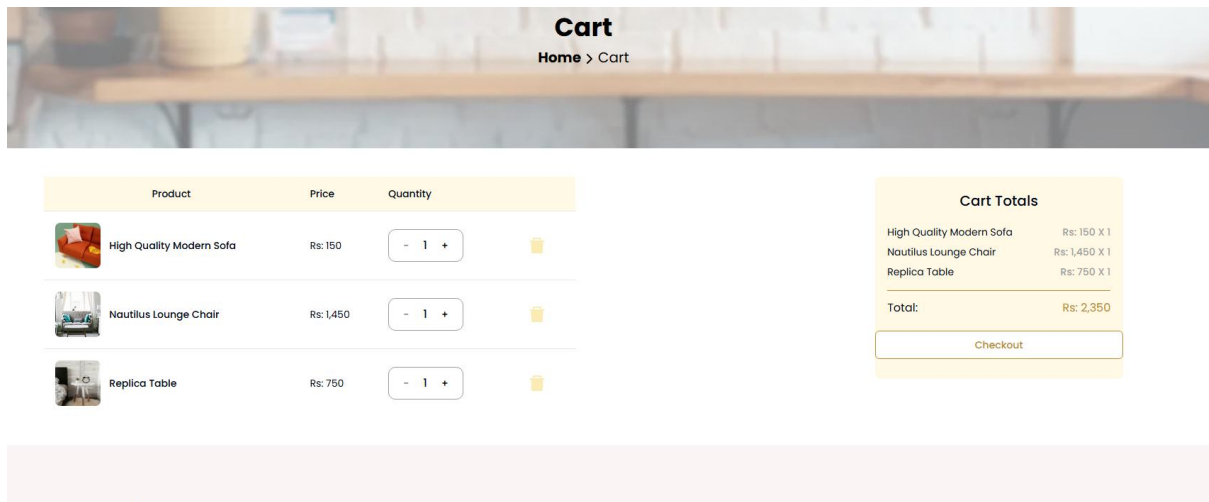


- Enhanced the user experience with debounced input for improved search performance.

Step 5: Cart Functionality

- Built robust cart functionality allowing users to add, remove, or update product quantities with ease.
- Implemented real-time cart updates, including subtotal calculations, to provide instant feedback.
- Designed a checkout button with seamless redirection to the checkout process or confirmation page.



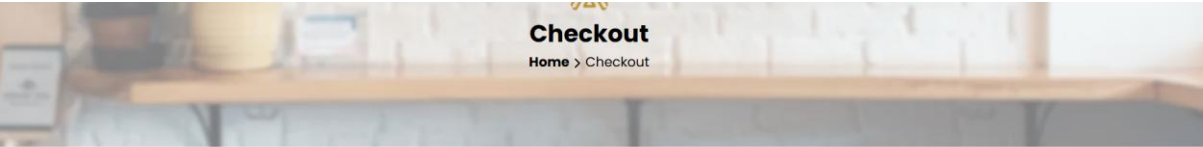


Additional Features

- **Error Handling:** Implemented user-friendly error messages for scenarios such as failed API calls or invalid inputs.
- **Loading States:** Added responsive loading indicators for data fetching, improving the overall UX.
- **Responsive Design:** Ensured a consistent and intuitive interface across all devices and screen sizes.
- **Performance Optimization:** Minimized API calls and optimized data handling to ensure fast load times.

Step 6: Checkout

- Clicking the checkout button navigates to the checkout page.
- Added functionality for completing checkout details.



Checkout

[Home](#) > [Checkout](#)

Billing details

First Name

Last Name

Company Name (Optional)

Country / Region

Select Country

Street

Product	Subtotal
Chair Wilbe X1	1200
Total	Rs. 1200

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our [privacy policy](#).

Place order

Tax