Day 4 - Dynamic Frontend Components Submission Documentation

Marketplace Name: Eventique (Hybrid Q-commerce for Rentals)

Introduction

This documentation provides a detailed summary of the work done on Day 4, focusing on building dynamic frontend components for the marketplace project. The components are designed to display data dynamically fetched from Sanity CMS or APIs, ensuring modularity, reusability, and responsiveness.

Steps Taken

1. Project Setup

- Verified connection between the Next.js project and Sanity CMS.
- Tested data fetching to confirm availability of required data.

```
Fetched Data: [
  {
    _id: '0f5721e2-5fea-420b-96b2-3446317093da',
    price: 500,
    name: 'Fairy Lights and String Lights',
    slug: 'fairy-lights-and-string-lights',
    categoryName: 'Decor',
    imageUrl: 'https://cdn.sanity.io/images/ulk0nhk2/production/07689cfb95244a15c63db2c7a6b78c23084d8230-1001x1001.jpg'
  },
  {
    name: 'Backdrops',
    slug: 'backdrops',
    categoryName: 'Decor',
    imageUrl: 'https://cdn.sanity.io/images/ulk0nhk2/production/7e13ee7a503bfaa1eeb9d49d071788c2aab40350-533x522.webp',
    _id: 'aa62df6b-c79c-4cf3-8fe5-18ffed0df256',
    price: 1232
  },
  {
    name: 'Balloons',
    slug: 'balloons',
    categoryName: 'Decor',
    imageUrl: 'https://cdn.sanity.io/images/ulk0nhk2/production/1f20a4970c9282274fe0b9d0d3ef36da87a42ee5-400x400.jpg',
    _id: '758e21da-e82f-427c-b626-af92e86d43a5',
    price: 10
  }
]
Fetched Data: [
  {
    _id: '0f5721e2-5fea-420b-96b2-3446317093da',
    price: 500,
    name: 'Fairy Lights and String Lights',
```

2. Component Development

1. **Product Listing Component**
   - Rendered product data dynamically in a grid layout.
   - Included fields: Product Name, Price and Image.

      o   Implemented responsive design for desktop and mobile views.
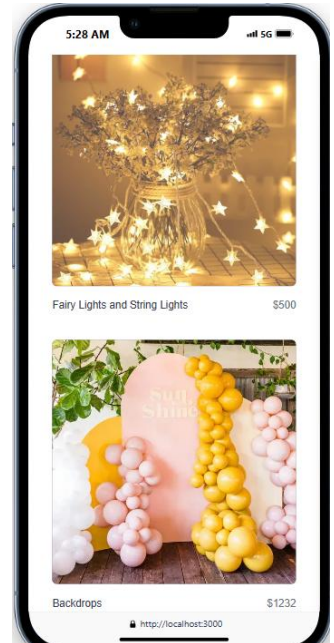
2. **Product Detail Component**
   - o Created dynamic product detail pages using Next.js routing.
   - o Displayed detailed fields: Product Description, Price, and other Images.

3. **Category Component**
   - o Fetched and displayed product categories dynamically.
   - o Enabled filtering of products by selected categories.

Our All Products

Decor ⌄

Fairy Lights and String Lights $500
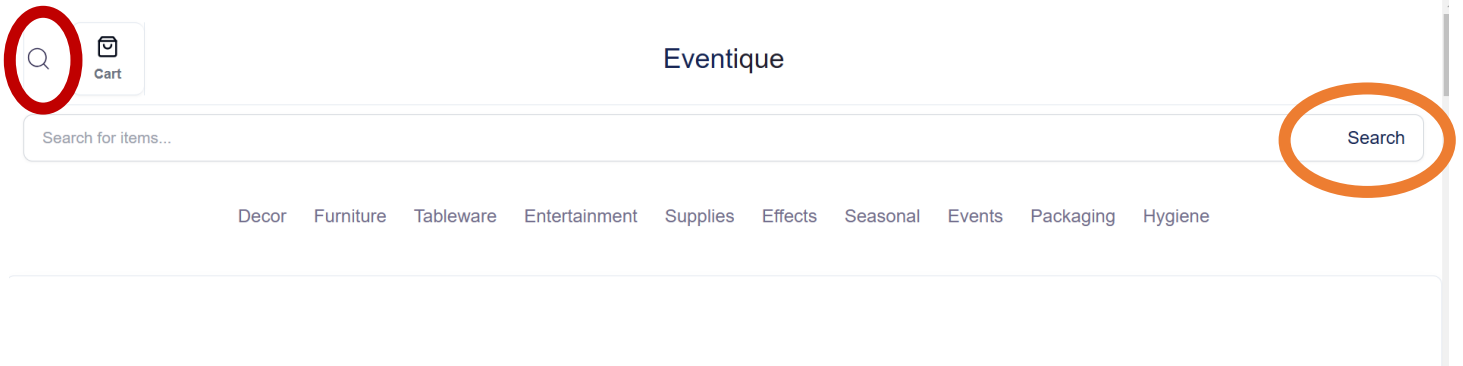Decor

Balloons $10
Decor

Backdrops $1232
Decor

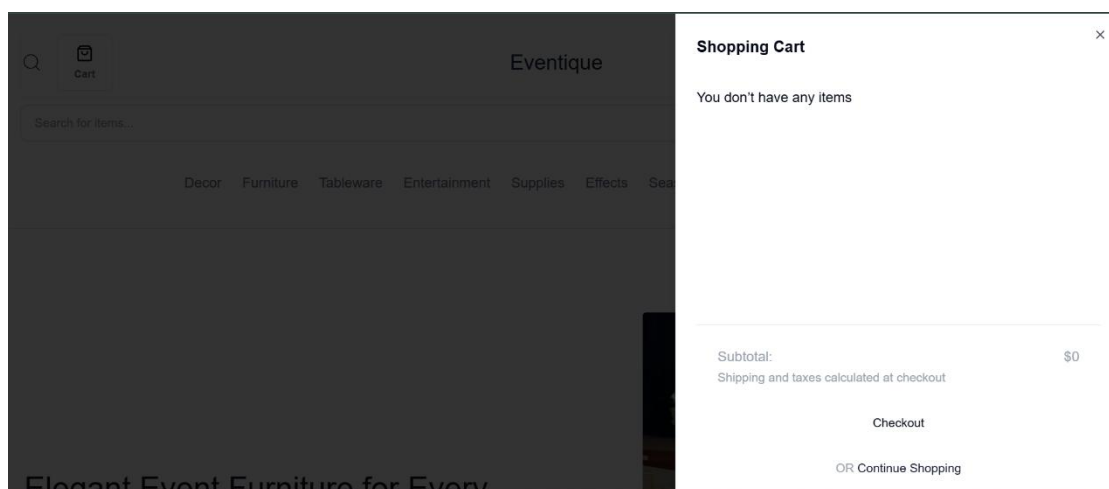Foil Balloons $200
Decor

4. **Search Bar**
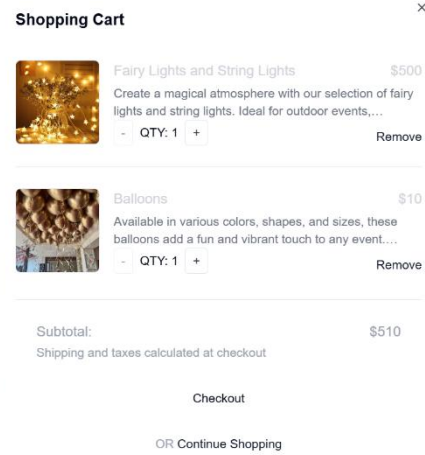   o Implemented a search bar for filtering products by name or tags dynamically.

🔍   🛍
       Cart   Eventique

Search for items...   Search

Decor   Furniture   Tableware   Entertainment   Supplies   Effects   Seasonal   Events   Packaging   Hygiene

5. **Cart Management Component**
   o Implemented functionality to add, update, and remove items from the cart.
   o Displayed cart details including product name, quantity, price, and total cost.

Shopping Cart   ✕

You don't have any items

Subtotal: $0
Shipping and taxes calculated at checkout

Checkout

OR Continue Shopping
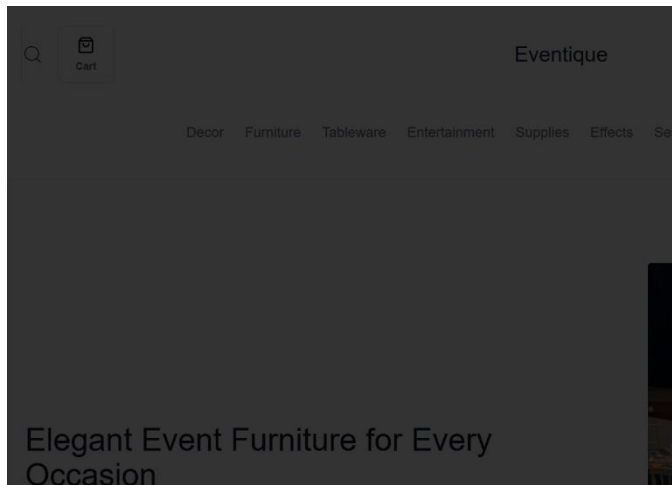
6. **Footer and Header Components**
   - o Built consistent navigation and branding elements with links to key pages (Home, About, Contact).
   - o Ensured responsiveness and accessibility.
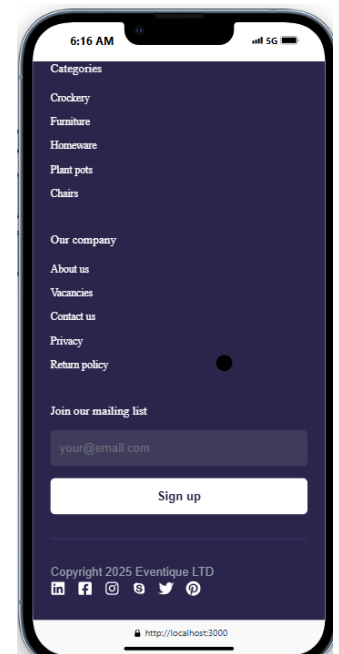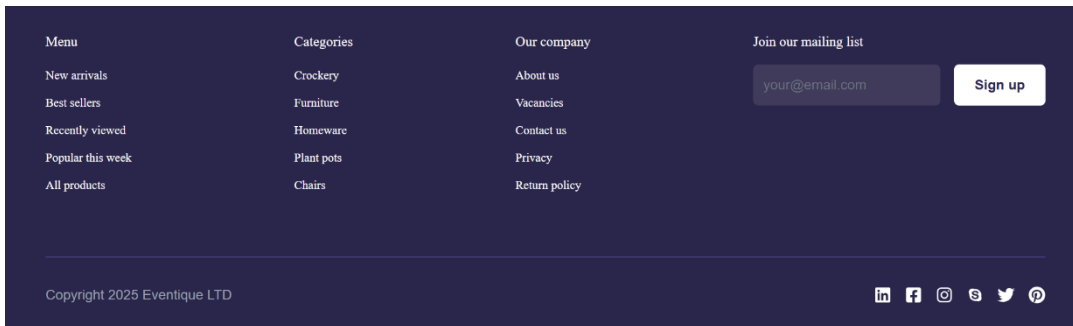
Challenges Faced and Solutions

Challenge 1: API Integration Errors

- **Issue:** Encountered errors while fetching data from Sanity CMS.
- **Solution:** Verified API keys and dataset configurations, and logged errors to identify and fix issues.

Challenge 2: Managing Component State

- **Issue:** State management for multiple components became complex.
- **Solution:** Utilized React Context API for global state management and useState for local states.

Challenge 3: Responsive Design

- **Issue:** Some components were not fully responsive on mobile devices.
- **Solution:** Used Tailwind CSS and media queries to ensure consistent layouts across devices.

Checklist for Day 4

Task	Status
Frontend Component Development	☑
Styling and Responsiveness	☑
Code Quality	☑
Documentation and Submission	☑

Final Remarks

This documentation summarizes the implementation of dynamic frontend components as part of the marketplace project. The components are designed with a focus on scalability, responsiveness, and real-world usability, ensuring readiness for client projects.