Day 4 - Dynamic Frontend Components for Your Marketplace

Hackathon Submission Report

Prepared By: Jawaid
Project Name: Hekto - E-commerce Marketplace
**Hackathon Day:** 4
Submission Date: 20-01-2025

Overview

This report highlights the development and implementation of dynamic frontend components for the "Hekto" e-commerce marketplace. It covers essential features such as dynamic product listing, advanced search functionality, cart and wishlist management, checkout process, and more. The project leverages **Sanity CMS** for backend data storage, ensuring scalability and dynamic updates.

The report is divided into the following sections for clarity and better understanding:

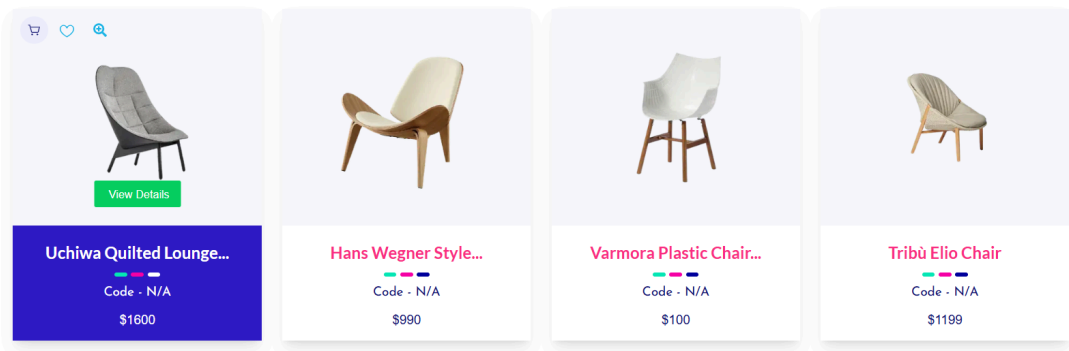
1. Header Functionality
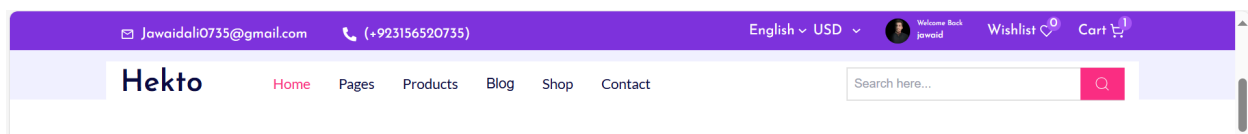
- **Wishlist and Cart Icons**:
    - Icons dynamically show the count of items added to the wishlist or cart.
    - These counters update in real-time when a product is added or removed.
- **Login/Logout**:

- Users can log in via Google sign-in or by creating an account.
- Account creation includes email verification.
- After login, the user's profile picture is displayed in the header.
- Users can log out directly from the header.

---

2. Product Display

- **Grid Layout**:
  - Products are displayed in a clean, responsive grid format, ensuring usability across devices.
- **Hover Effects**:
  - On hovering over a product, add-to-cart and wishlist buttons appear for quick actions.

Featured Products

Uchiwa Quilted Lounge...	Hans Wegner Style...	Varmora Plastic Chair...	Tribù Elio Chair
Code - N/A	Code - N/A	Code - N/A	Code - N/A
$1600	$990	$100	$1199

- **Dynamic Product Detail Page**:
  - Each product has its own detail page created using dynamic routing.
  - Features on this page:
    - **Product Details**: Description, price, and available options (e.g., sizes, colors).

■ **Ratings**: Users can view average ratings and submit their reviews dynamically.

Hans Wegner Style Three-Legged Shell Chair

★ ★ ★ ★ ★ (5)

$990 ~~$10~~

Color:

Description   Additional Info   Hide Reviews   Video

Customer Reviews

jawaid ali
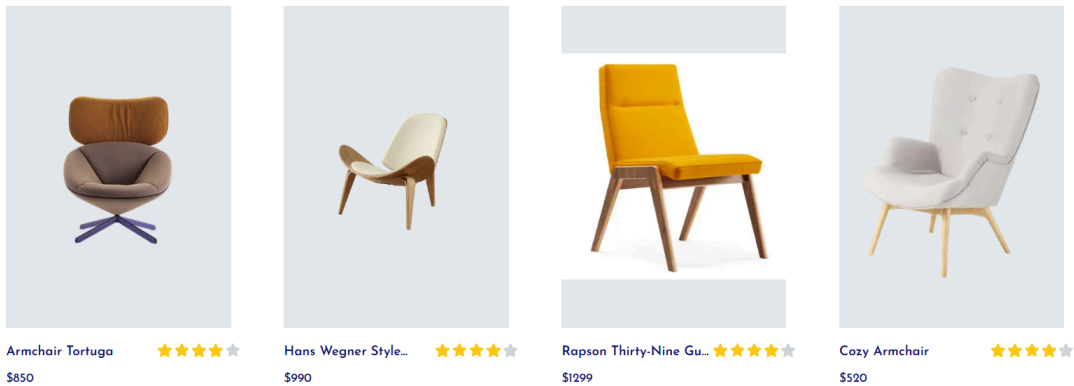Rating: 2/5
nice

Submit a Review

Name

Rating (1-5)

0

Comment

- **Related Products**: Automatically displays products similar to the one being viewed based on tags or categories.

Related Products

Armchair Tortuga ★★★★☆	Hans Wegner Style... ★★★★☆	Rapson Thirty-Nine Gu... ★★★★☆	Cozy Armchair ★★★★☆
$850	$990	$1299	$520

- **Add to Cart/Wishlist Buttons**: Users can add products directly from the detail page.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris tellus porttitor purus, et volutpat sit.
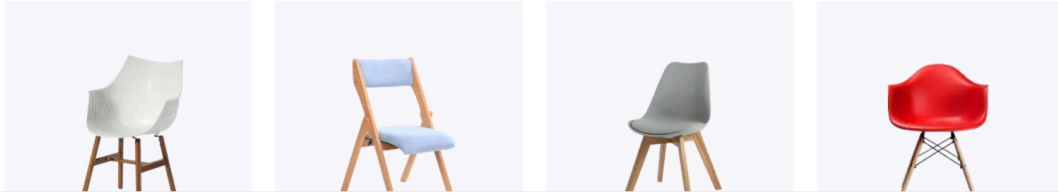
Add to Cart   ♡

---

3. Pagination and Grid System

- **Pagination**:
  - Large product lists are split into pages for better navigation.
  - Includes next/previous buttons or numbered pagination.
- **Responsive Grid System**:
  - Ensures products are displayed consistently on all devices, adjusting the layout dynamically.

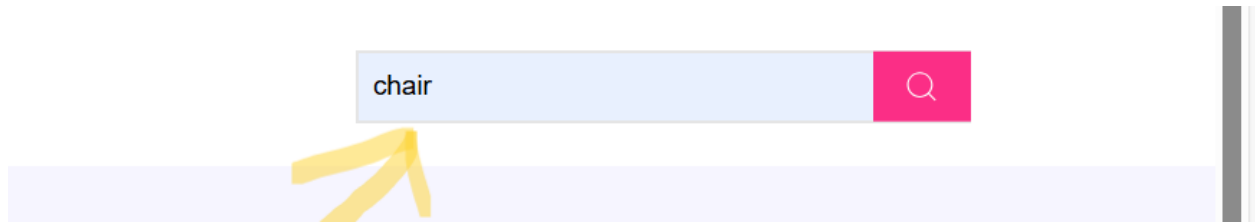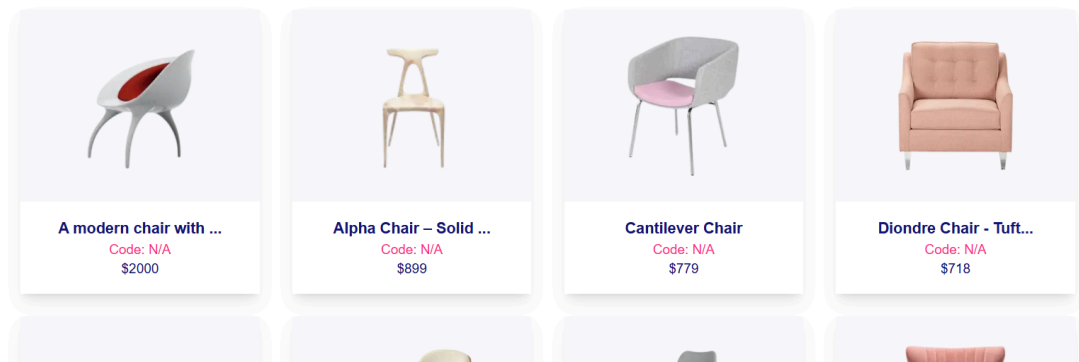Per Page: 12 items ⌄ Sort By: Low to High ⌄ View: ⊞ ☰

1 2

---

4. Search Functionality

- **Real-Time Search**:
  - Users can search for products by name or tag.
  - Results are fetched dynamically as the user types.

Search Results for chair

- **Loader**:
  - A loading animation runs while the results are being fetched to improve user experience.


---

5. Cart Functionality

- **Item Management**:
  - Users can increase or decrease product quantities or remove items entirely.
- **Total Price**:

- ○ Automatically calculates and displays the total price based on the items in the cart.
- **Clear Cart**:
  - ○ A single button to remove all items from the cart.
- **Access Restrictions**:
  - ○ Only logged-in users can access the cart. Logged-out users are prompted to log in first.

Product		Price	Quantity	Total		Cart Totals	
A modern chair with a carbon fiber frame and bold red accents.		$2000.00	− 1 +	£2000.00		Subtotal:	£3738.99
Alpha Chair - Solid Ebonised Oak		$899.00	− 1 +	£899.00		Total:	£4396.00
Cantilever Chair		$779.00	− 1 +	£779.00		☐ Shipping & taxes calculated at checkout.	
Diondre Chair - Tuft Button - Acrylic Legs		$718.00	− 1 +	£718.00		Proceed to Checkout	

Update Cart   Clear Cart

6. Wishlist Functionality

- **Save for Later**:
  - ○ Users can add products to their wishlist for future reference.
- **Move to Cart**:
  - ○ Products from the wishlist can be directly moved to the cart.
- **Clear Wishlist**:
  - ○ Option to remove all items from the wishlist.
- **Access Restrictions**:
  - ○ Only logged-in users can access the wishlist.

Product		Price	Old Price	Actions
Diondre Chair - Tuft Button - Acrylic Legs		$718.00	$7.00	Add to Cart
Cantilever Chair		$779.00	$15.00	Add to Cart
Futuristic Sleek Modern Chair		$2000.00	$0.00	Add to Cart
				Clear Wishlist

7. Checkout Process

- **Billing Information**:
    - A multi-step form collects billing and shipping information, which is stored in Sanity CMS.
- **Payment System**:
    - Integration of a payment method for completing purchases.
- **Order Completion**:
    - After successful payment, users are redirected to an order completion page displaying their order details.
    - The completed order data, including billing details and products, is stored in Sanity CMS for future reference.

Hekto   Home   Pages   Products   Blog   Shop   Contact   [Search products...]   🔍

✓

Your Order Is Completed!

Thank you for your order! Your order is being processed and will be completed within 3-6 hours.
You will receive an email confirmation when your order is completed.

Continue Shopping

Self-Validation Checklist

1. Header Functionality

- ✔ Wishlist and cart icons show dynamic item counts.
- ✔ Login via Google and email verification.
- ✔ Profile picture displayed after login.
- ✔ Logout functionality available.

2. Product Display

- ✔ Dynamic product listing in a responsive grid layout.
- ✔ Hover effects for quick actions (add to cart/wishlist).
- ✔ Dynamic product detail page with full product details.
- ✔ Ratings system for viewing and submitting reviews.
- ✔ Related products displayed dynamically on the detail page.

3. Pagination and Grid System

- ✔ Pagination implemented for large product collections.
- ✔ Responsive grid adapts to all screen sizes (mobile, tablet, desktop).

4. Search Functionality

- ✔ Real-time product search with dynamic filtering.
- ✔ Smooth loader animation while fetching results.

---

5. Cart Functionality

- ✔ Add, remove, and update product quantities.
- ✔ Total price calculated dynamically.
- ✔ Clear cart option available for quick actions.
- ✔ Access restricted to logged-in users only.

---

6. Wishlist Functionality

- ✔ Products can be saved to the wishlist.
- ✔ Wishlist items can be moved directly to the cart.
- ✔ Clear wishlist option implemented.
- ✔ Wishlist access restricted to logged-in users.

---

7. Checkout Process

- ✔ Multi-step form collects billing and shipping information.
- ✔ Billing details stored securely in Sanity CMS.
- ✔ Payment system integrated to process orders.
- ✔ Order summary displayed after payment.
- ✔ Completed orders stored in Sanity CMS for tracking.

---

8. Styling and Responsiveness

- ✔ Responsive grid layout for product listings.
- ✔ Consistent UI design across all pages.
- ✔ Mobile responsiveness for all components.
- ✔ Modern styling with proper fonts, colors, and spacing.

---

9. Code Quality

- ✔ Modular and reusable components.

- ● ✔ Clean and organized code structure.
- ● ✔ Proper use of state management and data binding.
- ● ✔ Optimization for performance and loading speed.

---

10. Documentation and Submission

- ● ✔ Clear documentation for each component.
- ● ✔ Detailed steps for setting up and running the application.
- ● ✔ Screenshots and videos provided for all key features.
- ● ✔ Submission completed before the deadline.

---

11. Final Review

- ● ✔ All functionality tested (products, cart, checkout).
- ● ✔ UI/UX reviewed for user-friendliness.
- ● ✔ No bugs/issues identified during development.

---

12. Professional Practices Emphasized

- ● ✔ Modular and reusable component design.
- ● ✔ State management and dynamic data binding.
- ● ✔ Responsive and user-friendly UI design.
- ● ✔ Thorough documentation for code and processes.

Featured Products

user browsing products

cart page to checout

frontend send req to api sanity

Products fetching from sanity to frontend

after order confirmed order saved in sanity

payment info also saved in order doc

shipping information saved in sanity

Hekto
Shopping Cart
Home / Pages / cart

Access Denied

Sign In

can't access cart page without log-in

Hekto
My Account
Home / Pages / Sign In

Sign In

after logged-in see the product

Hekto
Product   Price   Quantity   Total
Cart Totals
Subtotal
Total
Proceed to Checkout

Hekto
Shipping Address
First name (optional)   Last name
Subtotal
Total
Proceed to Checkout

Pay with card
$42.00
Container chair

Your Order Is Completed!

Continue Shopping

Achievements

✅ Successfully implemented key e-commerce features like dynamic product listing, search, cart, and checkout.

✅ Ensured a responsive, user-friendly design with modular and reusable components.

Efforts & Tools

🌟 Dedicated consistent effort to deliver a scalable and professional marketplace project.

🔧 **Technologies Used:** React.js, Next.js, Tailwind CSS, Sanity CMS, Stripe (for payment).

🛠️ **Tools:** GitHub, Visual Studio Code, Sanity Studio.

Future Enhancements

📈 AI-based recommendations to personalize the shopping experience.

📊 Enhanced admin dashboard for monitoring sales and analytics.

By Jawaid Ali

🔗LinkedIn   💻GitHub   📸Instagram   ✉Email

Class Slot: 📅 Saturday, 2:00 PM to 5:00 PM

Task Completed: 🎯 Day 4 - Building Dynamic Frontend Components