

Hackathon Day 04

Implementation Report (Rental E-Commerce)

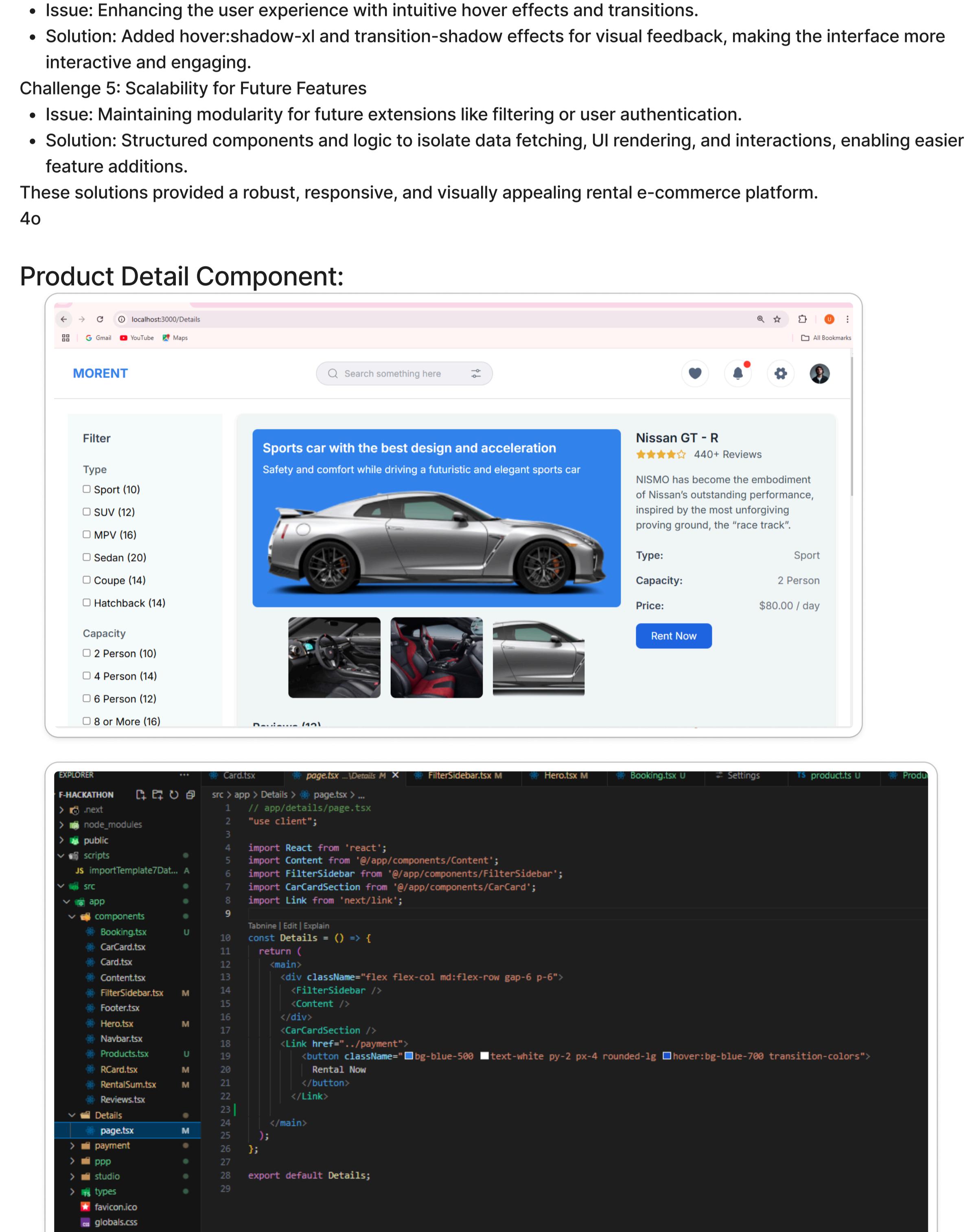
Objective:

Day 4 Building Dynamic frontend components for future Marketplace..The goal is to display data dynamically fetched from Sanity CMS and API .To develop a responsive and user-friendly rental e-commerce platform for cars using Next.js, Tailwind CSS, and Sanity CMS, providing seamless browsing, cart management, and rental features.

Product Listing Component

Rendered a Dynamic grid of product card displaying

- Product Name
- Price
- Image
- Stock Status



- Next.js for rendering Components.
- Tailwind css for add styling.
- Data fetched dynamically using sanity CMS and API.

Challenges and Solutions:

Challenge 1: Dynamic Data Fetching

- Issue: Ensuring real-time updates from Sanity CMS and handling errors during data fetch.
- Solution: Implemented sanityFetch to query car data dynamically. Added error handling with try-catch blocks for debugging and reliability.

Challenge 2: Displaying Inconsistent Data

- Issue: Missing or null values for some car properties like imageUrl or brand.
- Solution: Used fallback values (e.g., placeholder image or "N/A") to ensure smooth UI rendering without breaking components.

Challenge 3: Responsive UI Design

- Issue: Creating a grid-based layout that adapts seamlessly across various devices.
- Solution: Leveraged Tailwind CSS's utility classes (grid-cols, gap, and responsive breakpoints) for a flexible, mobile-friendly layout.

Challenge 4: User Interaction and Feedback

- Issue: Enhancing the user experience with intuitive hover effects and transitions.
- Solution: Added hover:shadow-xl and transition-shadow effects for visual feedback, making the interface more interactive and engaging.

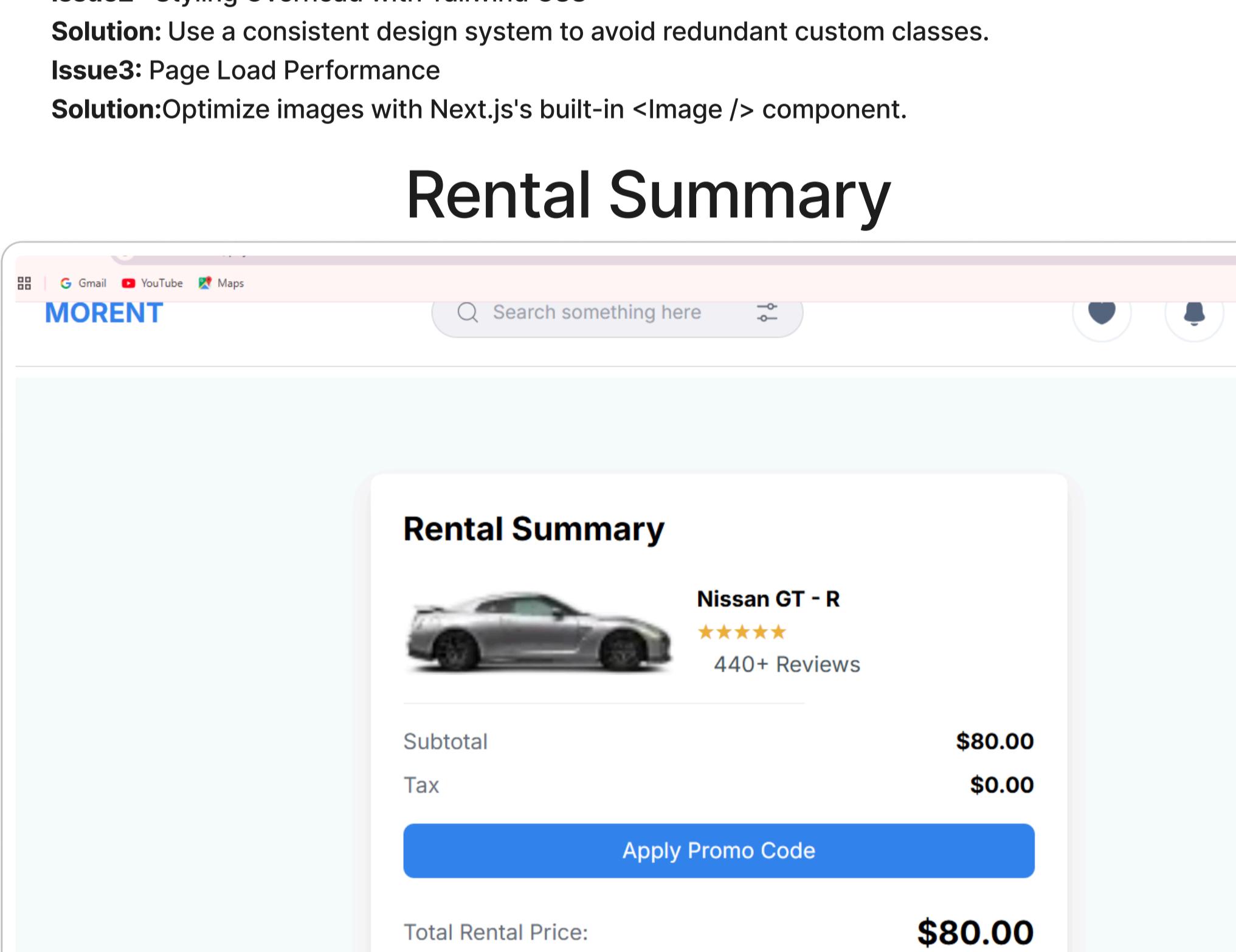
Challenge 5: Scalability for Future Features

- Issue: Maintaining modularity for future extensions like filtering or user authentication.
- Solution: Structured components and logic to isolate data fetching, UI rendering, and interactions, enabling easier feature additions.

These solutions provided a robust, responsive, and visually appealing rental e-commerce platform.

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Product Detail Component:



Category Components:

Features:

- Display dynamic categories from sanity CMS
- Enable Filtering of product by select category.
- Rent Now Button go on billing section.

