Comforty - Day 4 Documentation

Introduction

On Day 4, the focus is on designing and developing dynamic frontend components to display marketplace data fetched from Sanity CMS or APIs. This step emphasizes modular, reusable component design and real-world practices for building scalable and responsive web applications.

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Participating in Hackathon: Held on 15th, 2025

GAIAC Slot: Friday, 7 PM to 10 PM

Key Components

1. **Product Listing Component**:

   - Render product data dynamically in a grid layout.

   - Include fields like Product Name, Price, Image, and Stock Status.

2. **Product Detail Component**:

   - Create individual product detail pages using dynamic routing in Next.js.

3. **Search Bar**:

   - Implement search functionality to filter products by name or tags.

4. **Cart Component**:

   - Display added items, quantity, and total price.

5. **Checkout Flow Component**:

   - Create a multi-step form for checkout, including fields for billing, shipping address, and payment

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details.

6. **User Profile Component**:

   - Display user-specific details like name, email, and order history.

7. **Filter Panel Component**:

   - Provide advanced filtering options, such as price range sliders, brand selection, and availability

toggles.

Steps for Implementation

1. **Setup**:

   - Ensure your Next.js project is connected to Sanity CMS or your chosen API.

2. **Build Components**:

   - Create dynamic components for product listing, search bar, and filters.

3. **Test and Validate**:

   - Test components on different devices to ensure responsiveness and functionality.

Expected Outputs

By the end of Day 4, the following deliverables should be ready:

1. A fully functional product listing page displaying dynamic data from Sanity CMS or APIs.

2. Individual product detail pages implemented using dynamic routing.

3. Advanced category filters and a working search bar.

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4. Modular and reusable components for future scalability.

Submission Checklist

1. **Functional Deliverables**:

   - Product listing and detail pages.

   - Working filters, search bar, and cart.

2. **Code Deliverables**:

   - Key components (`ProductCard`, `SearchBar`, `FilterPanel`).

   - Integration with Sanity CMS or mock API.

3. **Repository Submission**:

   - Organized project files on GitHub for review.