Project Overview:

ASRA FURNITURE'S MARKETPLACE E-COMMERCE WEBSITE

Day 1: Marketplace Goals

- **Objective:** Build a marketplace where users can browse and purchase furniture products online.
- **Target Audience:** Homeowners, interior designers, and furniture enthusiasts looking for high-quality furniture.
- Core Features:
 - Product Catalog: Display a wide range of furniture products with detailed descriptions.
 - Product Details: Include product name, price, images, material, dimensions, and more.
 - Shopping Cart: Allow users to add products to the cart and proceed to checkout.
 - User Profiles: Provide an option for users to create accounts, track orders, and save preferences.
 - Search and Filter: Enable users to search products by category, price range, size, material, etc.

Day 2: Technical Breakdown

• <u>Technology Stack:</u>

- Frontend: Next.js (React-based framework) for building the user interface and handling routing.
- Backend: Sanity CMS for managing product data and other content.
- State Management: React hooks for managing product states and handling dynamic updates.
- o **Styling:** Tailwind CSS for responsive and modern design.
- Image Hosting: Next.js Image component to handle optimized image rendering for faster loading times.

Project Structure:

Sanity CMS Setup:

- Used Sanity to create a product schema and store data for various furniture items.
- Implemented fields for name, price, description, dimensions, material, image, etc.
- Set up product categories and optional attributes like discount percentage and stock quantity.

o Frontend Setup:

- Created a homepage with a product list showcasing various furniture items.
- Developed a product detail page with a more detailed view of each item.
- Integrated dynamic routing to fetch product data using the product ID.

Step 1: Fetching Products from Sanity CMS

• Sanity Migration:

 Successfully ran the Sanity migration to set up the product schema for the furniture products.

o Fields in Product Schema:

- Name (String): The name of the furniture item.
- Price (String): The price of the product.
- Image (Image): The image associated with the product.
- Description (Text): A detailed description of the product.
- Dimensions (String): The dimensions of the product (e.g., 50 x 30 x 10 cm).
- Material (String): The material used in the product (e.g., wood, metal).
- Category (String): The category of the furniture (e.g., sofa, table).

Sanity Query:

Created a query to fetch product data based on the product ID
(*[_type == "product" && _id == \$id][0]) for detailed pages.

Fetching Products:

- Implemented fetching logic in the frontend using useEffect to get product data when the page loads.
- Used the useParams hook to capture the product ID from the URL and query Sanity for that specific product.

• <u>Displaying Product Data on Frontend</u>:

Product Details Page:

- Displayed detailed information including the product name, image, description, price, dimensions, and material.
- Implemented static details like dimensions and material directly in the component for display on the product page.
- Ensured the UI is responsive and looks good on all devices using Tailwind CSS.

o Error Handling:

 Added error handling in case the product fetch fails (e.g., product not found).

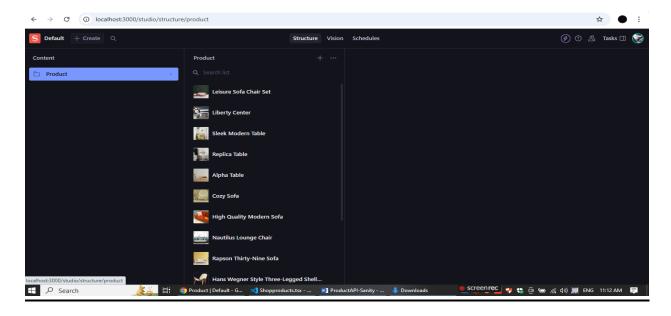
API Migration:

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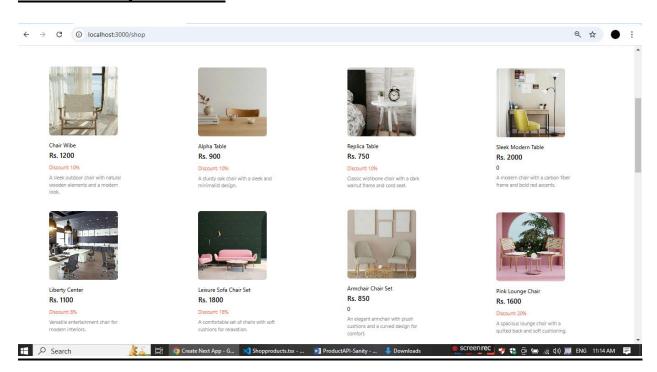
API Integration:

Schema (product.ts):

Sanity Studio:



Successfully fetched:



Self-Validation Checklist

Task	Status
API Understanding	✓
Schema Validation	✓
Data Migration	✓
API Integration in Next.js	✓
Submission Preparation	√

Future Steps and Enhancements

- User Authentication: Add user login and account management.
- **Shopping Cart and Checkout:** Implement the shopping cart functionality and integrate a payment gateway.
- **Search and Filters:** Add a search bar and filters for users to easily find products based on categories, price, and material.
- **Product Reviews and Ratings:** Allow users to rate and review products to provide feedback and enhance user trust.