Day 3: API Integration and Data Setup for Moosa’s furnishers

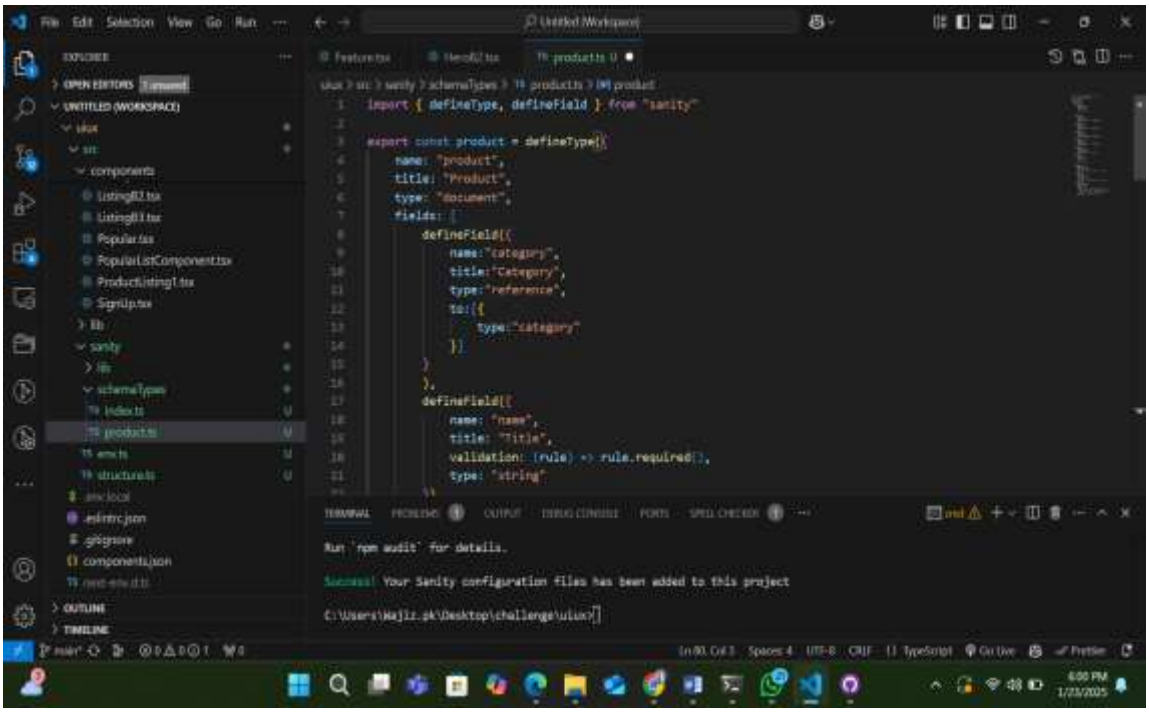
Overview

Day 3 focused on integrating Sanity CMS with the Moosa’s Furnishers website, creating structured schemas, fetching data using GROQ queries, and rendering it dynamically in a responsive Next.js application.

Key Highlights

1. Custom Schema Setup

- Schema Creation: Defined a schema for "Product Item" and “Categories” to structure data (e.g., menu items, specials, and location details).
- Validation Rules: Ensured data integrity with custom validations, like requiring positive prices and non-empty titles/descriptions.

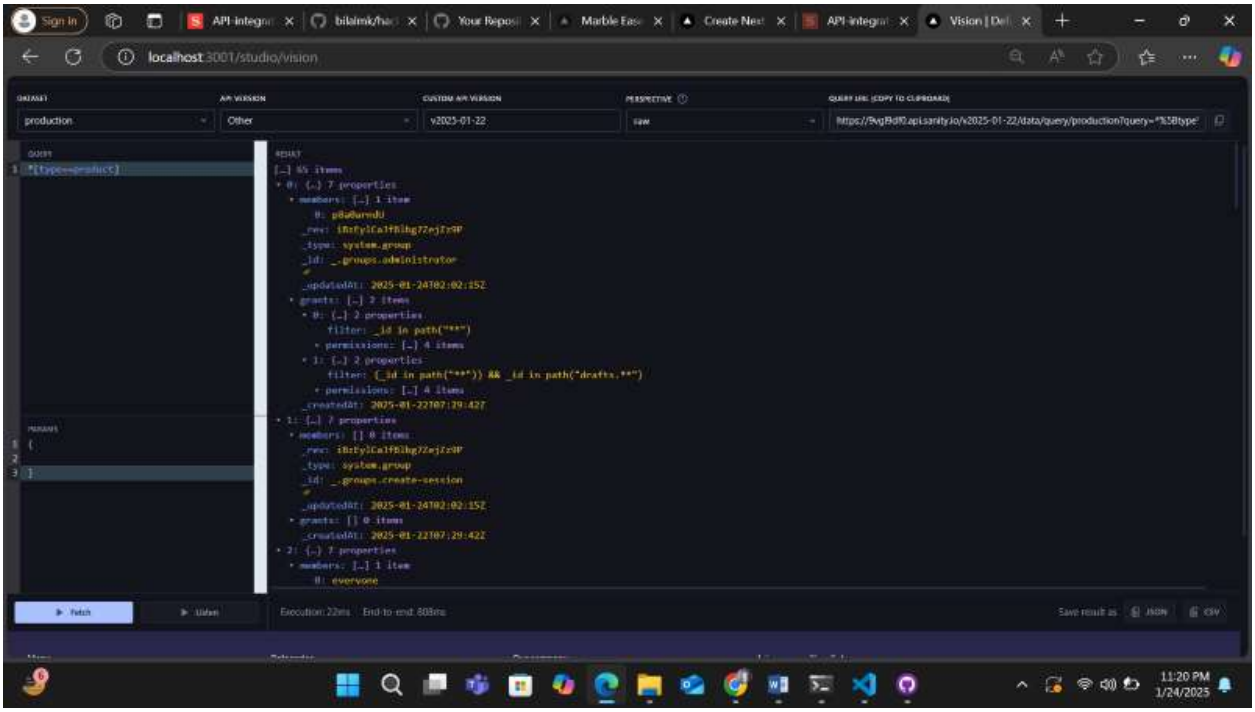


2. Sanity API Integration

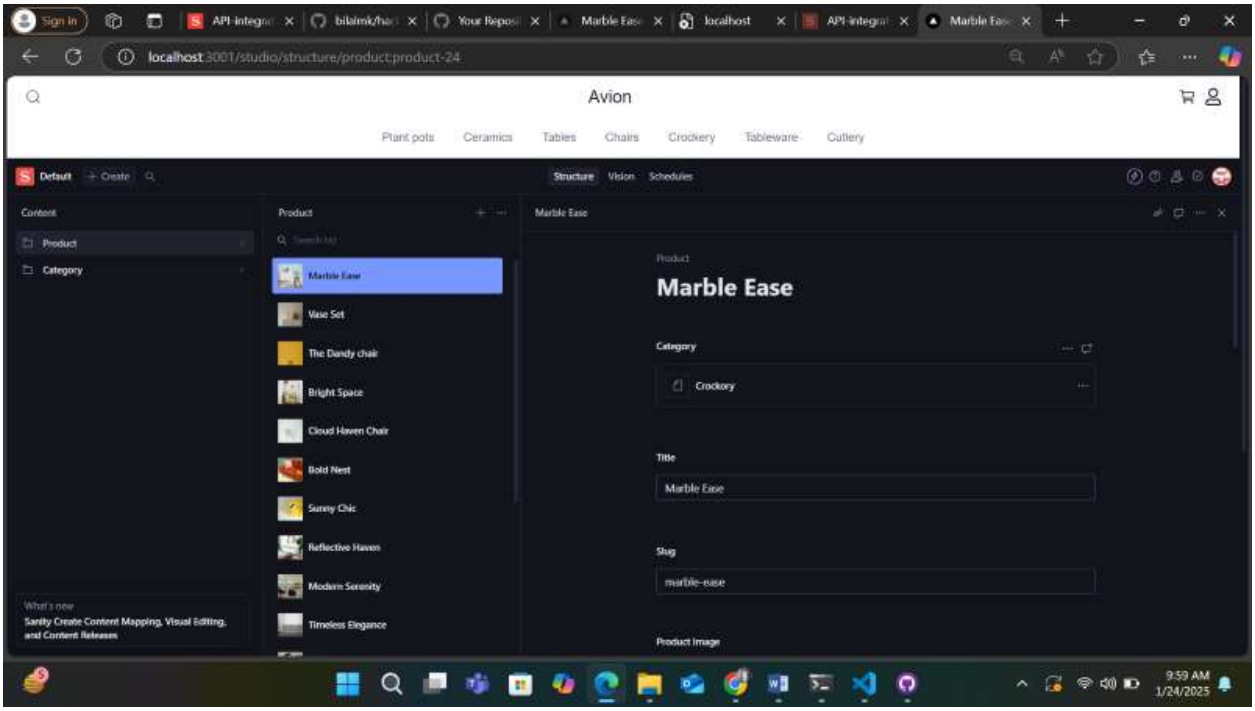
- Configuration: Connected to Sanity using project ID, dataset, and API token.
- Environment Variables: Used .env file for secure storage of sensitive information.

3. Data Fetching with GROQ

- Querying: Used GROQ queries to fetch structured data (e.g., menu categories, prices, descriptions, images).



- Dynamic Updates: Data is pulled live from Sanity, avoiding database insertion.

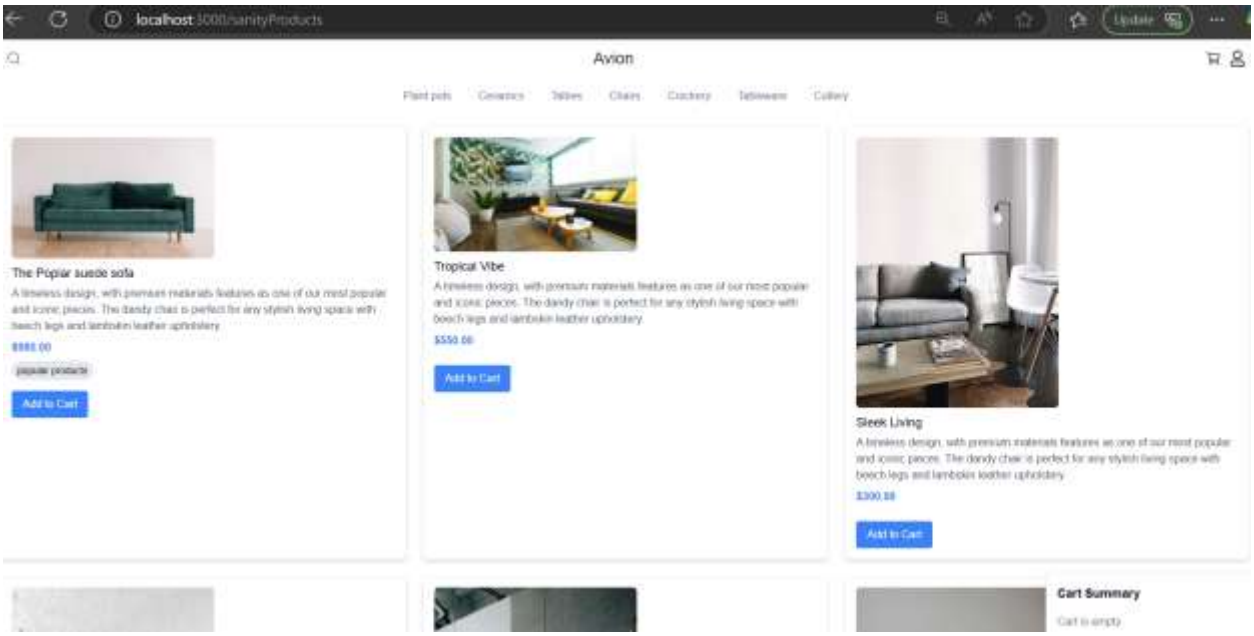


1. Frontend Rendering

- Server-Side Rendering (SSR): Fetched data in getServerSideProps for faster load times and improved SEO.
- Responsive Design: Rendered mobile-friendly menu layouts dynamically using React's .map() method.
- Dynamic Routing: Added links for individual product detail pages.

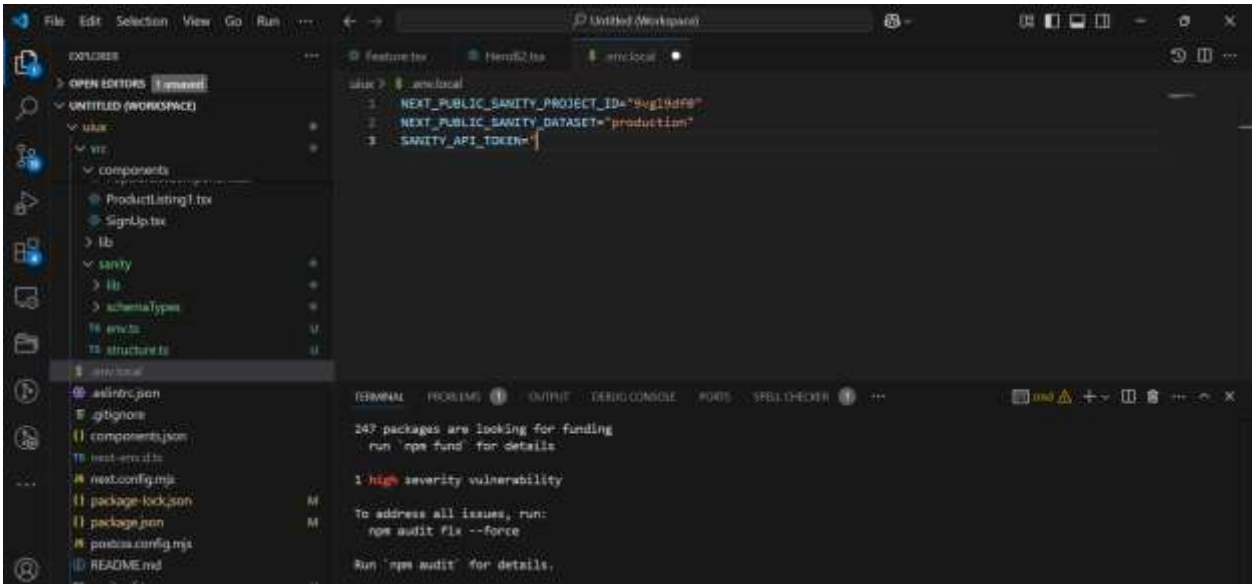
2. Product Card Component

- Reusable Design: A dynamic, styled component to display product details like title, price, description, and image.
- Interactivity: Includes buttons for actions like adding items to the cart.
- Optimized Features: Uses libraries like next/image for efficient image rendering.



3. Environment and Security

- Environment Variables:
  SANITY_PROJECT_ID,
  SANITY_DATASET,
  SANITY_API_TOKEN securely stored in .env file.



- Security Measures: Ensured API tokens are not exposed on the frontend. Achievements
- Created a dynamic schema for product items in Sanity.
- Successfully integrated data fetching using GROQ queries.
- Built responsive and reusable frontend components.
- Secured sensitive configurations using environment variables

Conclusion

The setup on Day 3 established a robust backend integration and dynamic frontend rendering for the Moosa’s furnishers website. This foundation supports real-time updates, scalability, and future feature enhancements.