

Day 3 - API Integration and Data Migration

Objective

This document outlines the steps taken for Day 3 tasks, focusing on API integration and data migration. These steps demonstrate real-world practices for developing a marketplace backend.

Steps Performed

1. Data Migration to Sanity CMS

Process:

- Created a Sanity CMS project.
- Analyzed the provided API data structure and adjusted Sanity schemas accordingly.
 - Example:
 - API field: `product_title`
 - Sanity schema field: `name`
- Wrote a migration script to fetch data from the API and populate Sanity CMS.

Screenshot:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Uploading image: https://cdn.sanity.io/images/7xt4qcah/production/2219cafc285ec13a2ed3f88aa36cbea852a11735-305x375.png
Image uploaded successfully: image-2219cafc285ec13a2ed3f88aa36cbea852a11735-305x375-png
Product Rustic Vase Set uploaded successfully: {
  _createdAt: '2025-01-18T14:35:43Z',
  _id: 'Pt3ANMwznCudbYDKQMBLsg',
  _rev: 'Pt3ANMwznCudbYDKQMBLsg',
  _type: 'product',
  _updatedAt: '2025-01-18T14:35:43Z',
  description: 'Bring the charm of nature into your home with the Rustic Vase Set. Perfect for those who appreciate timeless beauty and a warm, inviting atmosphere, this set of vases adds a touch of rustic elegance to any space. Crafted with care and attention to detail, these vases are designed to evoke the essence of vintage craftsmanship while seamlessly complementing both modern and traditional decor styles.\n' +
    '\n' +
    'The Rustic Vase Set features a collection of three uniquely designed vases, each with its own character. Their earthy tones, textured finishes, and artisanal touch capture the essence of the countryside, making them ideal for showcasing fresh flowers, dried arrangements, or simply as stand-alone decor pieces. Whether placed on a mantel, coffee table, or dining area, these vases effortlessly enhance the ambiance of your home.\n' +
    '\n' +
    'Made from high-quality materials, the Rustic Vase Set offers both style and durability. The natural, imperfect surfaces of the vases give them a distinct, hand-crafted appeal, ensuring that each set is one-of-a-kind. With their timeless design, these vases make a perfect gift for housewarmings, weddings, or any special occasion.\n' +
    '\n' +
    'Perfect for displaying flowers, greenery, or as standalone decorative pieces\n' +
    'Versatile design complements both modern and traditional interiors\n' +
    'Ideal for gifting or personal use in any living space\n' +
    'Add warmth and character to your home with the Rustic Vase Set-where classic design meets natural beauty.',
  discountPercentage: 10,
  isNew: false,
  price: 210,
  productImage: {
    _type: 'image',
    asset: {
      _ref: 'image-2219cafc285ec13a2ed3f88aa36cbea852a11735-305x375-png'
    }
  }
},
}
```

2. Fetching Data in Next.js

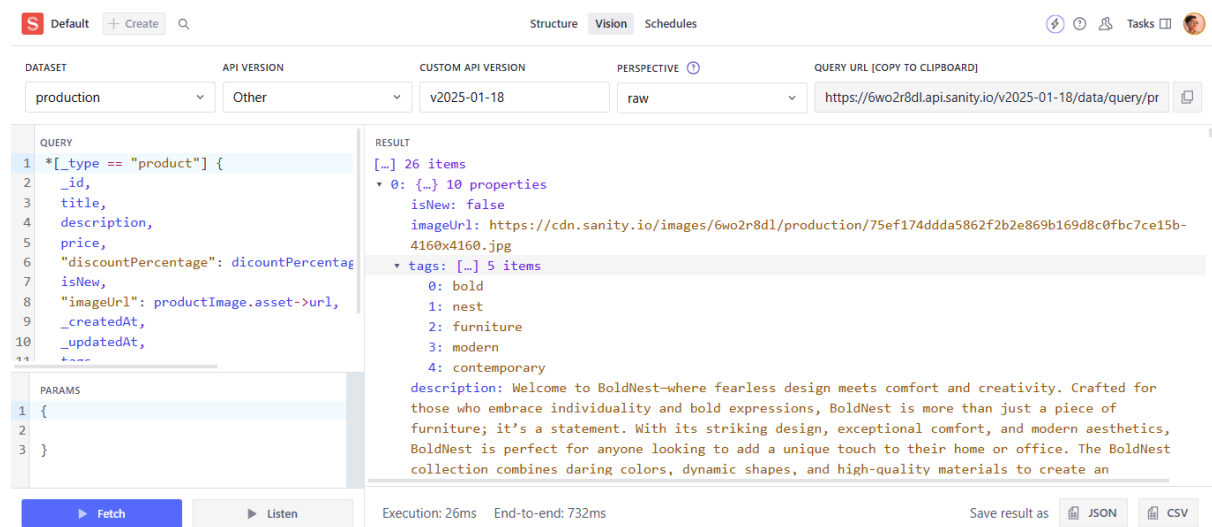
Process:

- Developed utility functions in Next.js to fetch data from Sanity CMS.
- Ensured robust error handling during the data fetch process.

Screenshot:

```
1 async function getProducts() {
2   const res = await fetch(
3     'https://api.sanity.io/v2022-02-02/data/query?projectId=7xt4qcah&type=product'
4   );
5   const data = await res.json();
6   return data.result as Product[];
7 }
8 export { getProducts };
```

Sanity Query Fetching Data



3. Product View on Frontend

Process:

- Rendered the fetched data dynamically on the frontend using React components.
- Displayed product listings and categories.
- Added error handling and loading indicators for a smooth user experience.

Screenshot:

