

DAY 3 – API INTEGRATION AND DATA MIGRATION

0. Setup Sanity Studio in Your Project

Sanity Studio is a powerful tool that allows you to manage content easily. To set up Sanity in your Next.js project, follow these steps:

1. Open your terminal and navigate to your project directory.
2. Run the following command to install and configure Sanity:
3. `npm create sanity@latest -- --project jdv8stt --dataset production --template clean`
4. Follow the prompts to complete the setup.

After successfully running the command, your Sanity Studio should be set up, and you can access it via the local development server.

1. Fetch Data from API

Fetching data from an API and importing it into Sanity can save you a lot of manual effort. Follow these steps to achieve a smooth data migration:

- Download the import script from the provided link: [Import Data Script](#)
- Before executing the script, make sure to add your **Project ID** and **Token** to the script file.

Token Creation Steps:

1. Navigate to **Sanity > Your Project > API** in the Sanity dashboard.
2. Click on "Create New Token."
3. Assign the token appropriate privileges such as **Developer** or **Editor** based on your requirements.
4. Copy and securely store the token as you won't be able to view it again.

Running the Script:

Once you have configured the script with your project credentials, run the following command to execute it:

```
node importData.js
```

This script will systematically fetch all data from the API endpoint and create schemas in Sanity automatically. The script provides logging to track the progress of the data import and ensures that data integrity is maintained throughout the process.

Benefits of using the script:

- Saves significant manual effort and time.
- Ensures consistency and accuracy.
- Allows quick updates for large datasets.

2. Create a Schema

Schemas are crucial for structuring your content in Sanity. They define the shape and structure of your data, ensuring consistency for future product additions and migrations.

Steps to Create a Schema:

1. Open your Sanity Studio project.
2. Navigate to the schemas directory in your project folder.
3. Create a new schema file (e.g., product.ts).
4. Define the schema structure based on your requirements, including necessary fields such as product name, price, category, and description.
5. Register the schema in the schema.js file.
6. Deploy the changes to reflect them in the Sanity Studio.

Steps to Verify Migration:

Once the data is migrated, follow these verification steps:

1. Check Products in the Terminal:

- Ensure that the imported products are displayed correctly in the logs.

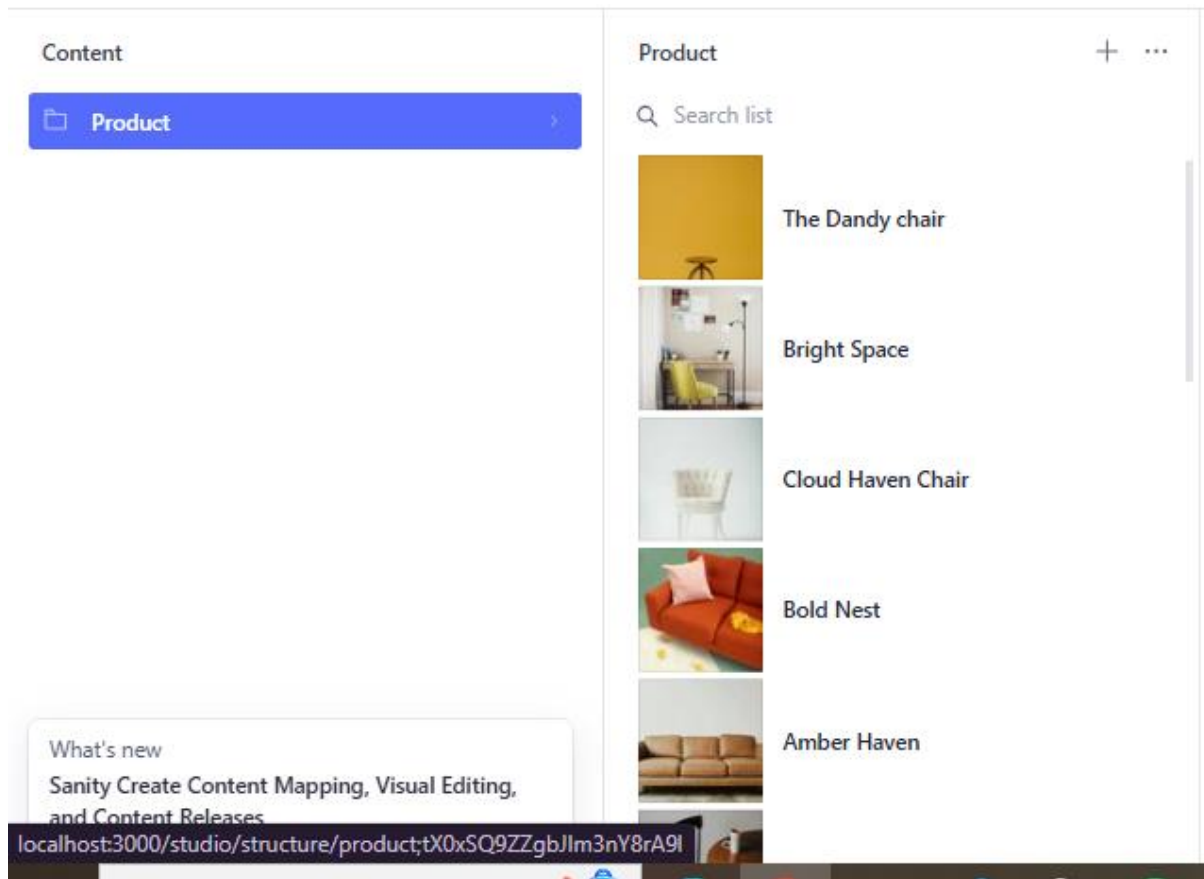
```

discountPercentage: 10,
isNew: false,
price: 210,
productImage: {
  _type: 'image',
  asset: {
    _ref: 'image-2219c4fc285ec13a2ed3f88aa36cbea852a11735-305x375-png'
  }
},
tags: [ 'rustic ', 'vase ', 'home decor', 'vintage ', 'interior design' ],
title: 'Rustic Vase Set'
}
}
Uploading image: https://cdn.sanity.io/images/7xt4qcah/production/cbfd4d2e1e3a58e25763a1d84efe10a8c25aeed7-3264x4928.jpg
Image uploaded successfully: image-35a8072e40a8b80142ff8e96e0f3af21811f5b9f-3264x4928-jpg
Product Timber Craft uploaded successfully: {
  _createdAt: '2025-01-22T07:57:41Z',
  _id: 'bGgRxcvd3u3k016Tawc2whm',
  _rev: 'bGgRxcvd3u3k016Tawc2wgy',
  _type: 'product',
  _updatedAt: '2025-01-22T07:57:41Z',
  description: 'Introducing TimberCraft—a collection that celebrates the timeless beauty of wood craftsmanship and the art of nature’s finest materials. Inspired by the rustic charm and durability of natural wood, TimberCraft brings warmth, character, and a touch of handcrafted elegance to any space. Perfect for those who value authenticity and sustainability, this collection combines the strength of timber with refined design, making it the ideal choice for modern and traditional homes alike.\n' +
    '\n' +
    "Each piece in the TimberCraft collection is meticulously crafted to highlight the unique grains and textures of the wood, bringing an organic, earthy feel

```

2. Validate Products in the Structure:

- Navigate to Sanity Studio's content section and check if the imported products are structured as expected.



3. Query Products via Vision Tool:

- Use the built-in Vision tool in Sanity Studio to run GraphQL or GROQ queries to verify the correctness of the imported data.

```

RESULT
[...] 32 items
▼ 0: {...} 12 properties
  _createdAt: 2025-01-22T07:57:30Z
  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. 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. 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. Key Features: Set includes three uniquely designed rustic vases Crafted from high-quality materials with a natural, hand-crafted finish Perfect for displaying flowers, greenery, or as standalone decorative pieces Versatile design complements both modern and traditional interiors Ideal for gifting as a personal use in any living space Add warmth and character to your home with the Rustic Vase Set where classic

```

Following these comprehensive steps ensures a smooth data migration process and allows efficient product management in your project.