

Day 3 - API Integration Report - FURINO

This report highlights the process of integrating product and category data from an external API into FURINO's backend system. The integration utilizes Sanity CMS for efficient data management and Next.js for rendering a dynamic frontend. The primary goals of this integration were fetching data from provided API, Organizing and storing the data within Sanity CMS and dynamically Displaying the data on frontend

API Integration Process

Step 1: Fetching Data From API

The API provided the following endpoints:

- **Products Endpoint:** Includes details such as titles, prices, descriptions, discount percentage, images.

BASE API URL

```
async function importProducts() {
  try {
    const response = await fetch('https://template6-six.vercel.app/api/products');

    if (!response.ok) {
      throw new Error(`HTTP error! Status: ${response.status}`);
    }
  }
}
```

Console Output

```
'Set includes three uniquely designed rustic vases\n' +
'Crafted from high-quality materials with a natural, hand-crafted finish\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'
  }
},
tags: [ 'rustic ', 'vase ', 'home decor', 'vintage ', 'interior design' ],
title: 'Rustic Vase Set'
}
Uploading image: https://cdn.sanity.io/images/7xt4qcqh/production/cbfd4d2e1e3a58e25763a1d84efe10a8c25aead7-3264x4928-jpg
Image uploaded successfully: image-35a8072e40a8b80142ff8e96e0f3af21811f5b9f-3264x4928-jpg
Product Timber Craft uploaded successfully: {
  createdAt: '2025-01-26T11:29:06Z',
```

Step 2: Migrating Data to Sanity CMS

Key Schema Fields:

- title
- description
- price
- badge
- image
- tags

```
> importData.js > uploadImageToSanity
import { createClient } from '@sanity/client';

const client = createClient({
  projectId: 'vlokume5',
  dataset: 'production',
  useCdn: true,
  apiVersion: '2025-01-13',
  token:
    'sk1KcF7Bldt0tqQoL1Ye00HfG5jpuJXq420a1827WpCj55XuGwXj7Am223gD5kwdU4Hbk1HkVACv02duV3gVcmtpo3TaoF3H7BghuXXCRPsqkc7kubRRYGSshdO
    7HeCDVFP5AhuERkHJNUNX501IqWdaTP7K2goEhgGauVSZ4vRDg1',
});

async function uploadImageToSanity(imageUrl) {
  try {
    console.log('Uploading image: ${imageUrl}');

    const response = await fetch(imageUrl);
    if (!response.ok) {
      throw new Error('Failed to fetch image: ${imageUrl}');
    }

    const buffer = await response.arrayBuffer();
    const bufferImage = Buffer.from(buffer);

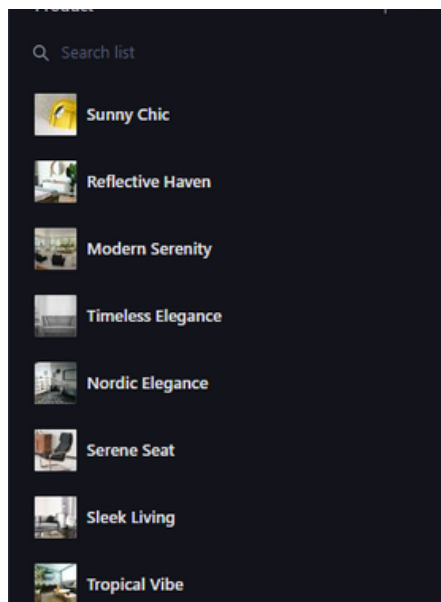
    const asset = await client.assets.upload('image', bufferImage, {
      filename: imageUrl.split('/').pop(),
    });

    console.log('Image uploaded successfully: ${asset._id}');
    return asset._id;
  } catch (error) {
    console.error('Failed to upload image:', imageUrl, error);
    return null;
  }
}

async function uploadProduct(product) {
  try {
    const imageId = await uploadImageToSanity(product.imageUrl);

    if (imageId) {
      const document = {
        _type: 'product',
        title: product.title,
        price: product.price,
        productImage: {
          _type: 'image',
          asset: {
            _ref: imageId,
          },
        },
        tags: product.tags,
        discountPercentage: product.discountPercentage, // Typo in field name: discountPercentage -> discountPercentage
        description: product.description,
        isNew: product.isNew,
      };
    }
  }
}
```

Sanity Dashboard



Step 3: Frontend Integration

```
const fetchProducts = async () => {
  try {
    const query = `*[_type == "product"] {
      _id,
      title,
      price,
      description,
      dicountePercentage,
      "productImage": productImage.asset->url,
      tags,
      isNew,
      "slug": slug.current
    }`;
    const data = await sanity.fetch(query);
    setProducts(data);
  } catch (error) {
    console.error("Error fetching products: ", error);
  }
};
```



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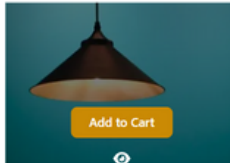
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Color

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1

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