Furniro

API Integration Report - Furniro

PRESENTED BY:

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Objective

On Day 3, I integrated APIs and migrated data into Sanity CMS to build the marketplace backend.

This task helped me understand real-world API integration and data migration techniques, essential for modern web development.

API Integration Process

Step 1: Understand the Provided API

I reviewed the API documentation for my assigned template (Template 6) and focused on the provided endpoints.
Specifically, I used the /api/products endpoint to fetch product details, such as product names, prices, and descriptions.

Step 2: Set the API Token

I securely set up the API token to authenticate the requests. This allowed me to access the necessary data from the API and ensure that only authorized users could fetch the information.

Tokens   + **Add API token**

Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED	
next-app	Developer	yesterday	🗑

Step 3: Test the API with Thunderclient

To ensure the API was working correctly, I used Thunderclient (a tool similar to Postman) to test the API calls.
This allowed me to verify the responses and make sure the data was returned in the correct format.

API Call Test: GET /api/products

Schema Adjustments

I compared the API response structure with my existing Sanity CMS schema and made the necessary adjustments.

For example, if the API returned a field called product_title, I mapped it to the name field in Sanity CMS.

```js
import { defineType } from "sanity";

export const product = defineType({
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    {
      name: "title",
      title: "Title",
      validation: (rule) => rule.required(),
      type: "string",
    },
    {
      name: "description",
      type: "text",
      validation: (rule) => rule.required(),
      title: "Description",
    },
    {
      name: "productImage",
      type: "image",
      validation: (rule) => rule.required(),
      title: "Product Image",
    },
    {
      name: "price",
      type: "number",
      validation: (rule) => rule.required(),
      title: "Price",
    },
    {
      name: "tags",
      type: "array",
      title: "Tags",
      of: [{ type: "string" }],
    },
    {
      name: "dicountPercentage",
      type: "number",
      title: "Discount Percentage",
    },
    {
      name: "isNew",
      type: "boolean",
      title: "New Badge",
    },
```
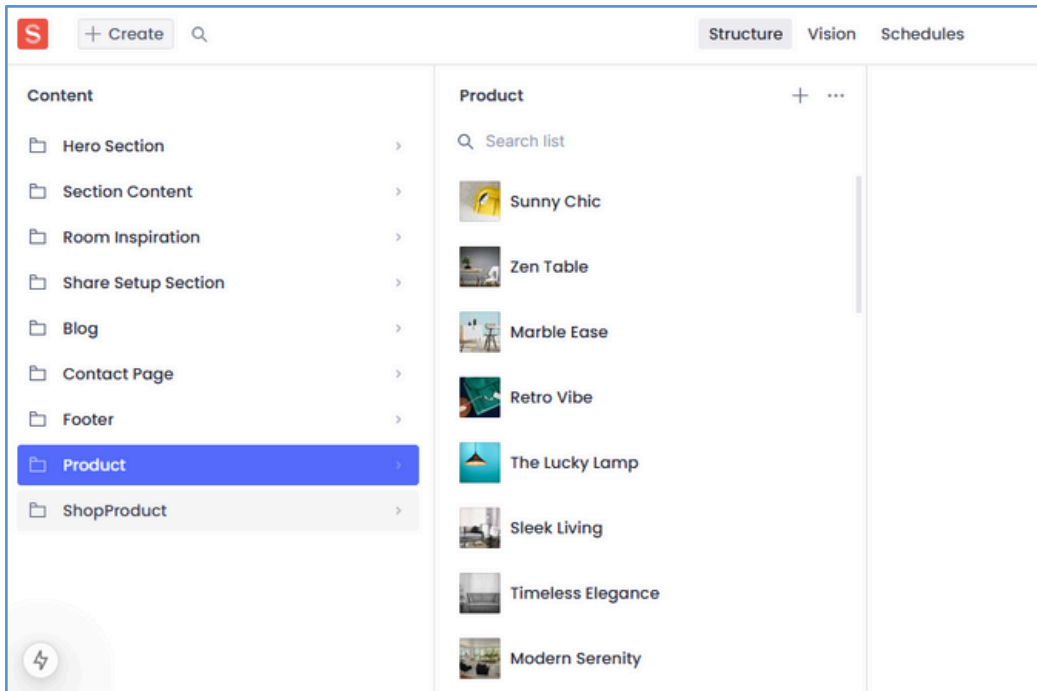
Data Migration

Using API Scripts

I decided to migrate data using the API scripts for better automation and scalability. I used the provided importData.js script to fetch and transform the data.
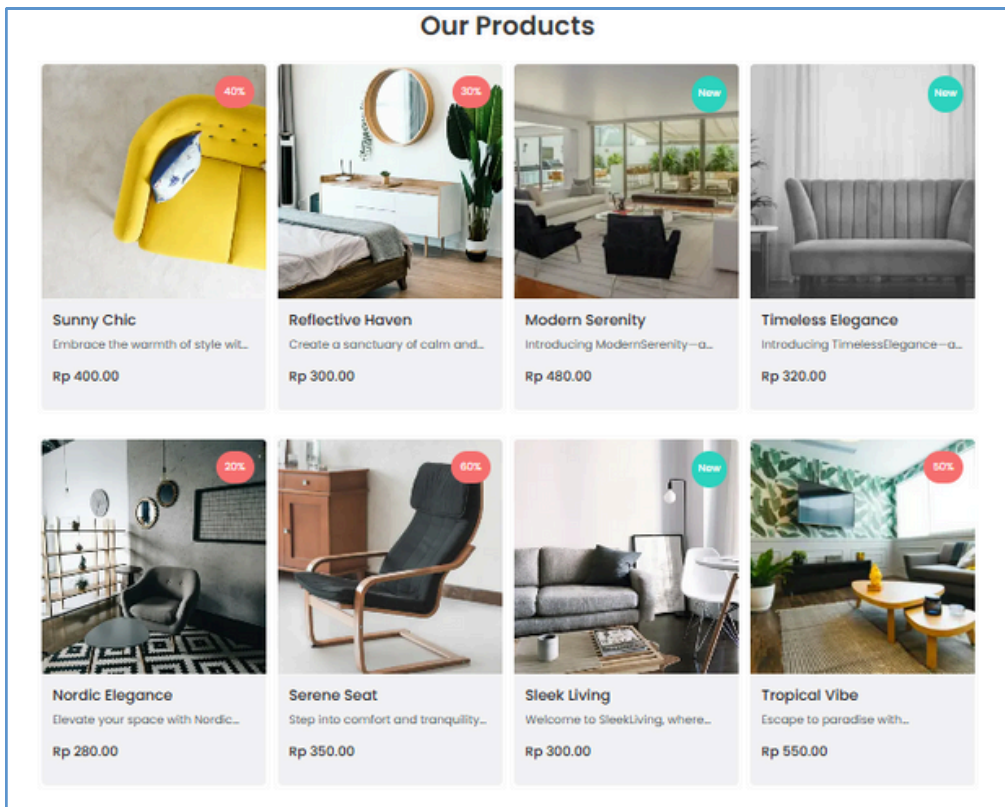
API Integration in Next.js

```
const ProductSection = () => {
  const [products, setProducts] = useState<Product[]>([]);
  const { addItem } = useCart();

  useEffect(() => {
    const fetchProducts = async () => {
      try {
        const query = `*[_type == "product"] | order(_createdAt desc)[0...8] {
          _id,
          title,
          price,
          description,
          "productImage": productImage.asset->url,
          dicountPercentage,
          isNew
        }`;
        const data = await client.fetch(query);
        setProducts(data);
      } catch (error) {
        console.error("Error fetching products:", error);
      }
    };

    fetchProducts();
  }, []);
```

Sanity CMS

Products Displayed

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