

Day 3 -API Integration Report - Shop.com

API Integration Process

Step 1- API EndPoint StepUP

- API EndPoint : `https://template1-neon-nu.vercel.app/api/products`
- Structure: The API Provides Product Data, including field like `Product Name`, `Product Price`, `Product Image`, `Product Color`, `Category`, `Description`.
- Library : Axios was used to fetch data from the Api

Step 2 -Fetch Data API

- **** CODE SNIPPET ****

```
async function importProducts() {  
  try {  
    const response = await fetch('https://template1-neon-nu.vercel.app/api/products');  
  
    if (!response.ok) {  
      throw new Error(`HTTP error! Status: ${response.status}`);  
    }  
  }  
}
```

- The API call retrieves an array of product object from endpoint , ensuring proper data serialization.

Adjustment Made to Schemas

Product Schema Modifications

1 . ** Field Updates:**

- `Color`: Added as an optional array of string to accommodate multiple color options .
- `image`: Configured as a Sanity image field with hotspot enabled for better image cropping and scaling.

2 . **Final Schema:**

```
src > sanity > schemaTypes > products.ts > default
import { defineType } from "sanity"

export default defineType({
  name: 'products',
  title: 'Products',
  type: 'document',
  fields: [
    {
      name: 'name',
      title: 'Name',
      type: 'string',
    },
    {
      name: 'price',
      title: 'Price',
      type: 'number',
    },
    {
      name: 'description',
      title: 'Description',
      type: 'text',
    },
    {
      name: 'image',
      title: 'Image',
      type: 'image',
    },
    {
      name: 'category',
      title: 'Category',
      type: 'string',
      options: {
        list: [
          {title: 'T-Shirt', value: 'tshirt'},
          {title: 'Short', value: 'short'},
          {title: 'Jeans', value: 'jeans'},
          {title: 'Hoodie', value: 'hoodie'},
          {title: 'Shirt', value: 'shirt'},
        ]
      }
    },
    {
      name: 'discountPercent',
      title: 'Discount Percent',
      type: 'number',
    },
    {
      name: 'new',
      type: 'boolean',
      title: 'New',
    },
    {
      name: 'colors',
      title: 'Colors',
      type: 'array',
      of: [
        {type: 'string'}
      ]
    },
    {
      name: 'sizes',
      title: 'Sizes',
      type: 'array',
      of: [
        {type: 'string'}
      ]
    }
  ],
})
```

Migration Steps and Tools Used

**** Migration Steps ****

1. ****Environment Setup****

- Installed required dependencies: `@sanity/client`, `axios`, `dotenv`.
- Create a `.env.local` file to securely store environment variables.

2. ****Data Fetching:****

- Retrieved product data from the API endpoint using Axios.
- Parsed and logged the data to confirm its structure and integrity.

3. ****Image Upload:****

- Downloaded images from the API's `image` field using Axios.
- Uploading images to sanity asset Manger using the Sanity Client.
- Code To Upload images:

```
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(),  
});
```

ScreenShot

1. API CALL OUTPUT

```
0 Compiling / ...  
[x] Compiled / in 634ms  
[  
  {  
    description: "This stylish green bomber jacket offers a sleek and modern twist on a cl  
ribbed cuffs, giving it a sporty yet refined look. The minimalist style makes it perfect f  
st lounging, this jacket provides a laid-back yet fashionable vibe. Its muted green color  
versatile addition to your casual wardrobe.",  
    category: 'hoodie',  
    discountPercent: 20,  
    colors: [ 'Blue', 'Red', 'Black', 'Yellow' ],  
    _id: 'T085KYtXNFHGKpMRVSw7zP',  
    name: 'Casual Green Bomber Jacket',  
    price: 300,  
    new: null,  
    sizes: [ 'S', 'XXL', 'XL', 'L' ],  
    imageUrl: 'https://cdn.sanity.io/images/p98zwfgl/production/4e2ed6a9eaa6e1413843e53f31  
  },  
  {  
    price: 130,  
    description: 'This product is a vibrant orange and black striped t-shirt with a sporty  
mented by contrasting black raglan sleeves for a casual, athletic-inspired look. Ideal for  
perfect for daily wear or sporting events. The soft fabric ensures a comfortable fit, whi  
    category: 'tshirt',  
    discountPercent: 40,  
    imageUrl: 'https://cdn.sanity.io/images/p98zwfgl/production/b47f45391dc6913311e87f6afa  
    name: 'Sleeve Stripe T-Shirt',  
    new: null,  
    colors: [ 'Red', 'Black', 'Blue', 'White' ],  
    sizes: [ 'S', 'L', 'XL', 'M' ],  
    _id: 'T085KYtXNFHGKpMRVSw9cX'  
  },  
]
```

****Fronted Display****

NEW ARRIVALS



T-shirt with Tape Details
★★★★☆ 4.5/5
\$120



Skinny Fit Jeans
★★★★☆ 3.5/5
\$240 ~~\$260~~ -20%



Checkered Shirt
★★★★☆ 4.5/5
\$180



Sleeve Striped T-shirt
★★★★☆ 4.5/5
\$130 ~~\$160~~ -30%

[View All](#)





Default

+ Create



Structure

Vision

Schedules

Content

Products

Products



Search list



Classic Polo Shirt



Black Athletic Jogger Pants with Side S...



Skinny Fit Jeans



Beige Slim-Fit Jogger Pants



Black Striped T-Shirt



Checkered Shirt



LOOSE FIT BERMUDA SHORTS



Vertical Striped Shirt