# <u>Day 3 - API Integration Report - Nike</u>

## **API Integration Process**

### **Step 1: API Endpoint Setup**

- API Endpoint: 'https://template-03-api.vercel.app/api/products'
- Data Structure: The API provides product data, including fields like `productName`, `category`, `price`, `inventory`, `colors`, `status`, `description`, and `image`.
- Library Used: Axios was used to fetch data from the API.

#### Step 2: Fetch Data from API

- \*\*Code Snippet:\*\*

```
const response = await axios.get('https://template-03-api.vercel.app/api/products');
const products = response.data.data;
```

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

### **Adjustments Made to Schemas**

#### **Product Schema Modifications**

- 1. \*\*Field Updates:\*\*
- `colors`: Added as an optional array of strings to accommodate multiple color options.
- `image`: Configured as a Sanity image field with hotspot enabled for better image cropping and scaling.

### 2. \*\*Final Schema:\*\*

```
export const productSchema = {
   name: 'product',
   title: 'Product',
   type: 'document',
   fields: [
       name: 'productName',
       title: 'Product Name',
       type: 'string',
     },
       name: 'category',
       title: 'Category',
       type: 'string',
     },
       name: 'price',
       title: 'Price',
       type: 'number',
     },
       name: 'inventory',
       title: 'Inventory',
       type: 'number',
     },
       name: 'colors',
       title: 'Colors',
       type: 'array',
       of: [{ type: 'string' }],
     },
       name: 'status',
       title: 'Status',
       type: 'string',
     },
       name: 'image',
       title: 'Image',
       type: 'image',
       options: {
         hotspot: true,
       },
     },
       name: 'description',
       title: 'Description',
       type: 'text',
     },
```

### **Migration Steps and Tools Used**

#### **Migration Steps**

- 1. \*\*Environment Setup:\*\*
  - Installed required dependencies: `@sanity/client`, `axios`, `dotenv`.
  - Created 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.
  - Uploaded images to Sanity's Asset Manager using the Sanity client.
  - Code to upload images:

```
const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
const buffer = Buffer.from(response.data);
const asset = await client.assets.upload('image', buffer, {
  filename: imageUrl.split('/').pop()
});
```

- 4. \*\*Document Creation:\*\*
- Created Sanity documents for each product by combining API data and uploaded image references.

### - Code snippet:

```
const sanityProduct = {
 _type: 'product',
 productName: product.productName,
 category: product.category,
 price: product.price,
 inventory: product.inventory,
 colors: product.colors || [],
 status: product.status,
 description: product.description,
 image: imageRef ? {
   _type: 'image',
   asset: {
     _type: 'reference',
     _ref: imageRef,
   },
 } : undefined,
};
await client.create(sanityProduct);
```

### **Tools Used**

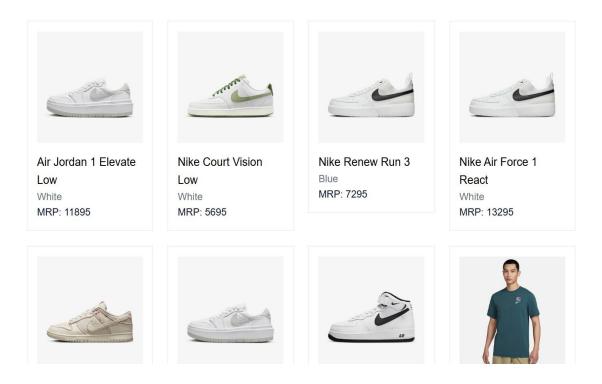
- \*\*Sanity Client:\*\* For interacting with the Sanity CMS.
- \*\*Axios:\*\* For making HTTP requests to fetch API data and images.
- \*\*Dotenv:\*\* To load environment variables from `.env.local`.

### **Screenshots**

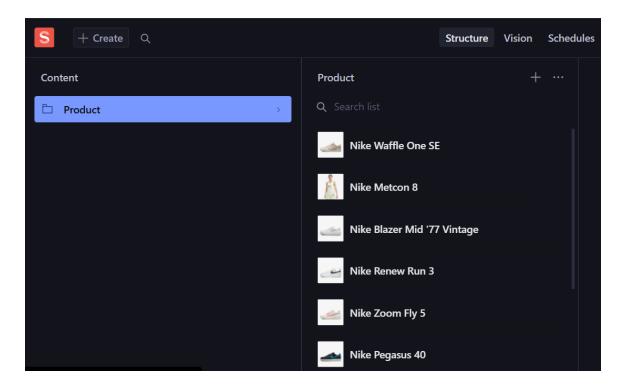
### 1. API Call Output

```
next-server (v14.2.14)
GET /studio/vision 200 in 11904ms
GET /favicon.ico 200 in 337ms
  inventory: 8,
   status: 'Promo Exclusion',
  imageUrl: 'https://cdn.sanity.io/images/tcbr17hb/production/46998b7aa7bbf7d305755b2964da5bf167434d40-348x348.png',
  description: 'The Air Jordan 1 Elevate Low features a clean, minimal design with premium materials. Its platform sol
 adds a touch of height and modern edge, while ensuring comfort and durability for all-day wear.',
  colors: [ 'White' ],
  _id: '1hj3tJP0IaKgRmKaWhsacU',
  productName: 'Air Jordan 1 Elevate Low',
  category: "Women's Shoes",
  price: 11895
  inventory: 25,
  imageUrl: 'https://cdn.sanity.io/images/tcbr17hb/production/1e45fde83014ff9ae9e4cbd280747842f522f47b-348x348.png',
  description: 'The Nike Court Vision Low blends basketball-inspired style with everyday comfort. Featuring a sleek de
ign and durable materials, this versatile shoe is perfect for any casual wardrobe.',
   _id: '1hj3tJP0IaKgRmKaWhsdCA',
  productName: 'Nike Court Vision Low',
  category: "Men's Shoes",
  price: 5695,
  colors: [ 'White' ],
  status: 'Just In'
   price: 7295,
  colors: [ 'Blue' ]
```

# 2. Frontend Display



# 3. Populated Sanity CMS Fields



### **Code Snippets**

#### **API Integration**

```
const response = await axios.get('https://template-03-api.vercel.app/api/products');
const products = response.data.data;
```

### **Migration Script**

```
async function uploadImageToSanity(imageUrl) {
 const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
 const buffer = Buffer.from(response.data);
 const asset = await client.assets.upload('image', buffer, {
   filename: imageUrl.split('/').pop()
 });
 return asset._id;
async function importData() {
 const response = await axios.get('https://template-03-api.vercel.app/api/products');
 const products = response.data.data;
 for (const product of products) {
   let imageRef = null;
   if (product.image) {
     imageRef = await uploadImageToSanity(product.image);
   const sanityProduct = {
     _type: 'product',
     productName: product.productName,
     category: product.category,
     price: product.price,
     inventory: product.inventory,
     colors: product.colors || [],
     status: product.status,
     description: product.description,
     image: imageRef ? {
       _type: 'image',
       asset: {
         _type: 'reference',
         _ref: imageRef,
     } : undefined,
   };
   await client.create(sanityProduct);
 }
}
importData();
```