<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:**

```
06 🛮 🗎 🔝 — 🙃 X
                                                                     ρ figma-templete-nextjs-hakathon
                                                                                                                     80
File Edit Selection View Go Run \cdots \leftarrow \rightarrow
                                                             TS products.ts U X
                                                                                                                                                             Ŋ 🛮 ···
                                  ··· 

BestOfMax.tsx M
    EXPLORER
                                         src > sanity > schemaTypes > 18 products.ts > 10 productSchema > 26 fields
  > OPEN EDITORS
 V FIGMA-TEMPLETE-NEXTJS-HAKATHON
                                          98 export const productSchema = {
                                                    name: 'product',
   > node_modules
                                                    title: 'Product',
   > public
                                                    type: 'document',
   ∨ scripts
                                                    fields:
   JS data-migration.mjs
                                                  name: 'productName',
   V SIC
                                                  title: 'Product Name',
    ) app
                                                   type: 'string',
    ) components
    > context
    ) data
                                                        name: 'category',
                                                        title: 'Category',

∨ sanity

                                         110
                                                        type: 'string',
     ) lib

✓ schemaTypes

      TS index.ts
                                                        name: 'price',
      TS products.ts
                                                        title: 'Price',
     TS envits
                                                        type: 'number',
     TS structure.ts
   $ .env.local
                                                        name: 'inventory',
   o .eslintrc.json
                                                        title: 'Inventory',
   .gitignore
                                                        type: 'number',
   TS next-env.d.ts
   JS next.config.mjs
   {} package-lock json
                                                        name: 'colors',
                                                        title: 'Colors',
                                                        type: 'array',
  ) TIMELINE
P main* → ⊗ 0 <u>A</u> 0 ₩ 0
                                                                                                         Q Ln 110, Col 27 Spaces: 2 UTF-8 CRLF () TypeScript @ Go Live Q
```

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`.

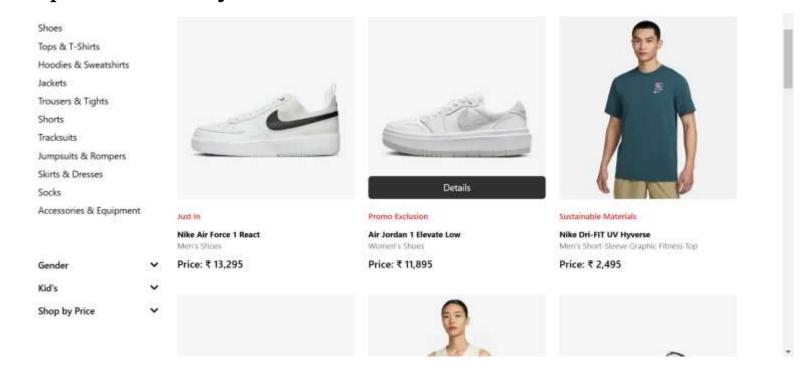
Screenshots

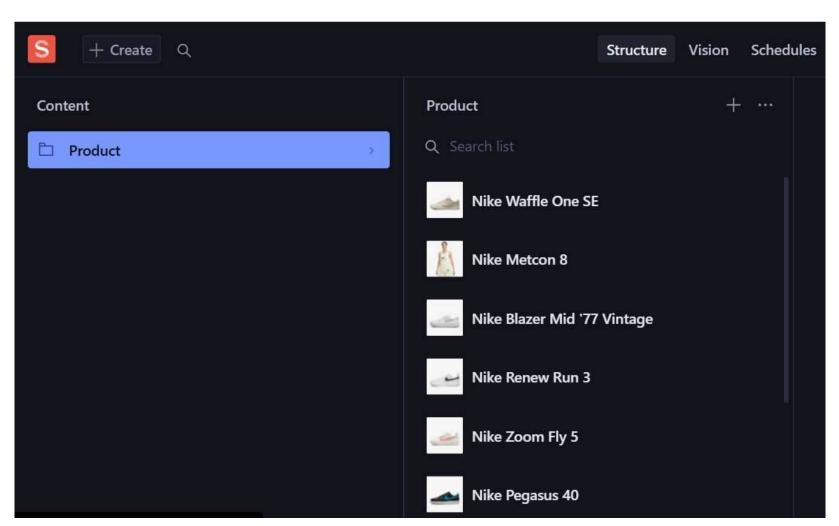
1. API Call Output

```
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
sign 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();
```

Final Check List

API	Schema	Data	API Integration in	Submission
Understanding	Validation	Migration	Next.js	Preparation
✓	1	1	√	✓
NO.PH;				