Day_03 API Integration Process

Fetch data from API:

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

Migration step & tools used:

01_Environment Setup:

- Installed necessary dependencies: `@sanity/client, axios, dotenv`.
- Created an `env.local` file to securely store environment variables such as API keys and endpoints.

02_Data Fetching:

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

03_Image Upload:

- Downloaded images from the API's `image` field using Axios.
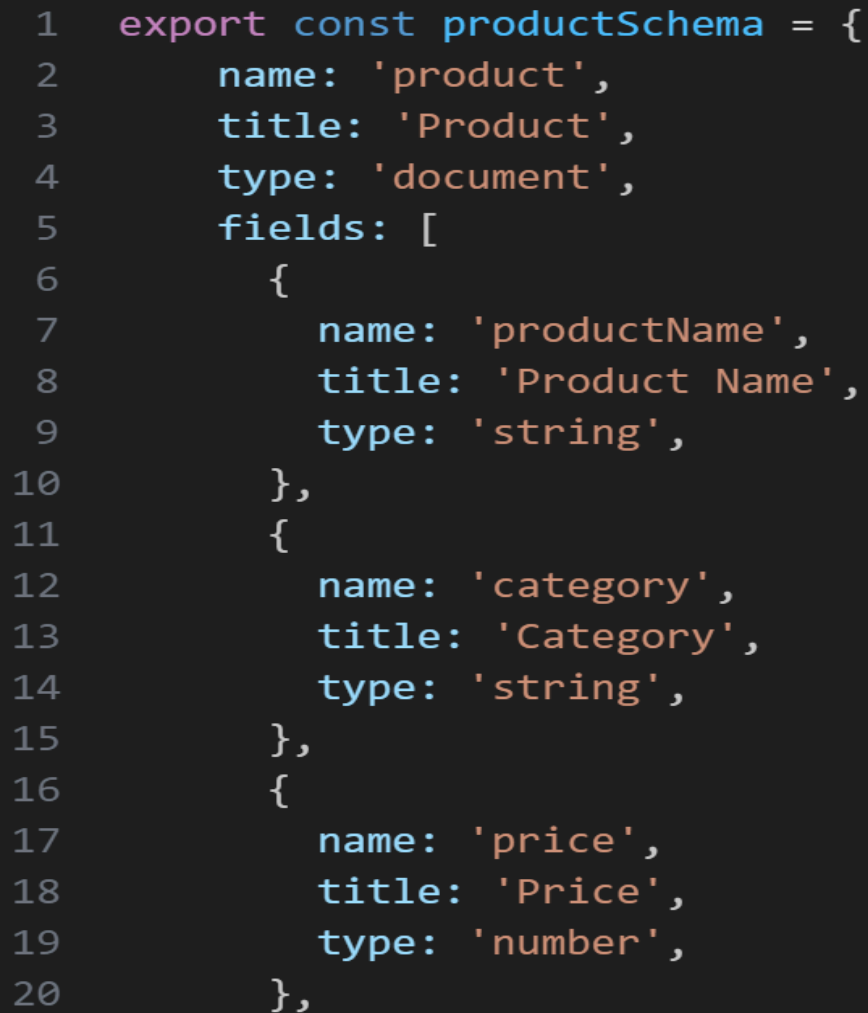- Uploaded images to Sanity's Asset Manager using the Sanity client.

```
1  import { createClient } from '@sanity/client';
2  import axios from 'axios';
3  import dotenv from 'dotenv';
4  import { fileURLToPath } from 'url';
5  import path from 'path';
```

Migration Script:

```
1   const client = createClient({
2     projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
3     dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
4     useCdn: false,
5     token: process.env.SANITY_API_TOKEN,
6     apiVersion: '2021-08-31'
7   });
8   async function uploadImageToSanity(imageUrl) {
9     try {
10      console.log(`Uploading image: ${imageUrl}`);
11      const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
12      const buffer = Buffer.from(response.data);
13      const asset = await client.assets.upload('image', buffer, {
14        filename: imageUrl.split('/').pop()
15      });
16      console.log(`Image uploaded successfully: ${asset._id}`);
17      return asset._id;
18    } catch (error) {
19      console.error('Failed to upload image:', imageUrl, error);
20      return null;
21    }
22  }
```

Sanity schema overview:

```javascript
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',
      },
```

API Calls show in terminal snippet:

```
C:\Users\HP\Desktop\NIKE_SHOES_WEBSITE\website>npm run data-migration

> website@0.1.0 data-migration
> node script/data-migration.mjs

migrating data please wait...
products ==>> [
  {
    productName: "Nike Air Force 1 Mid '07",
    category: "Men's Shoes",
    price: 10795,
    inventory: 20,
    colors: [ 'White' ],
    status: 'Just In',
    image: 'https://template-03-api.vercel.app/products/1.png',
    description: "The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cu
t design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-So
le cushioning adds responsive support for long-lasting performance."
  },
  {
    productName: 'Nike Court Vision Low Next Nature',
    category: "Men's Shoes",
    price: 4995,
    inventory: 35,
    colors: [ 'Black' ],
    status: 'Just In',
    image: 'https://template-03-api.vercel.app/products/2.png',
    description: 'The Nike Court Vision Low Next Nature combines retro basketball style with modern su
stainability. Made with at least 20% recycled content, it features a sleek design, durable materials,
and ultimate comfort for everyday wear.'
  },
```

Data successfully displayed in the fronted:

Shoes
Tops & T-Shirts
Hoodies & Sweatshirts
Shorts
Trousers & Tights
Jackets
Tracksuits
Accessories & Equipment

Gender ⌄
Kids ⌄
Shop By Price ⌄

Nike Air Force 1 React
Men's Shoes

The Nike Air Force 1 React takes the classic AF1 to the next level with React technology. Experience unparalleled cushioning and modern design details for all-day comfort and a bold statement of style.

$13295

Add To Cart   Wishlist

Nike Zoom Fly 5
Men's Running Shoes

The Nike Zoom Fly 5 provides next-level speed with responsive cushioning and a sleek, aerodynamic design. Its lightweight upper and durable outsole make it ideal for race day or intense training.
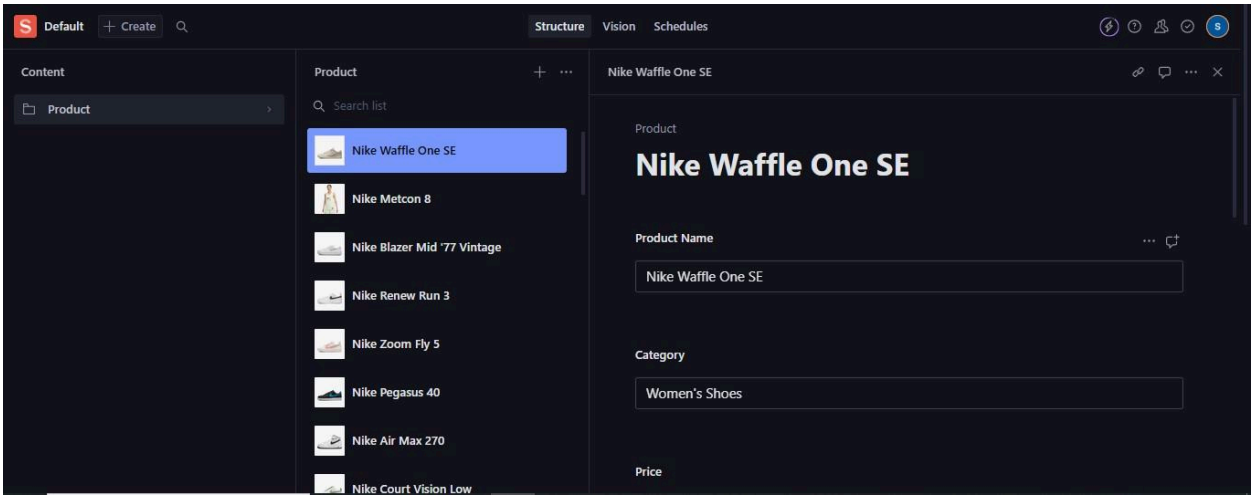
$11295

Add To Cart   Wishlist

Nike Blazer Mid '77 Vintage
Men's Shoes

The Nike Blazer Mid '77 Vintage brings old-school basketball style to modern fashion. With a high-top design and premium leather, it delivers unmatched versatility and a timeless look.

$8495

Add To Cart   Wishlist

Sanity Data Import/Migration:

Final CheckList:

API Understanding	Schema validation	Data Migration	API Integration in NextJs	Submission Preparation
✔	✔	✔	✔	✔