Marketplace_Builder_Hackathon_2025

DAY 3 - API INTEGRATION AND DATA MIGRATION

Steps for Day 3:

API integration process

Url: template-03-api.vercel.app/api/products

Adjustments made to schemas

Product;

```js
export const productSchema = {
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    {
      name: "product ID",
      title: "product ID",
      type: "number",
    },
    {
      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",
    },
    {
      name: "slug",
      type: "slug",
      title: "Slug",
      options: {
        source: "productName",
      },
    },
  ],
};
```

Migration steps and tools used

For migrating API data to sanity cms I have run a script named (data-migration.mjs) and mentioned this in (package.json) script and run the command "npm run migrate" to migrate the data from API endpoint to sanity

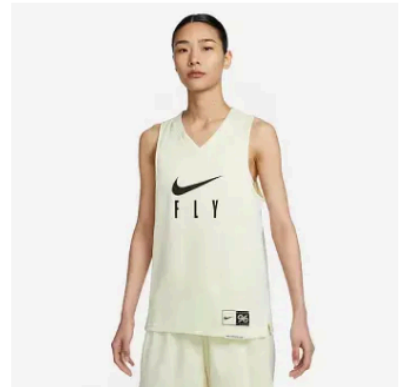# Data is successfully displayed in the front end.

All products page;

Just In
Nike Air Force 1 Mid '07
Men's Shoes
White
MRP : ₹ 10795

Just In
Nike Court Vision Low Next Nature
Men's Shoes
Black
MRP : ₹ 4995

Just In
Nike Metcon 8
Men's Training Shoes
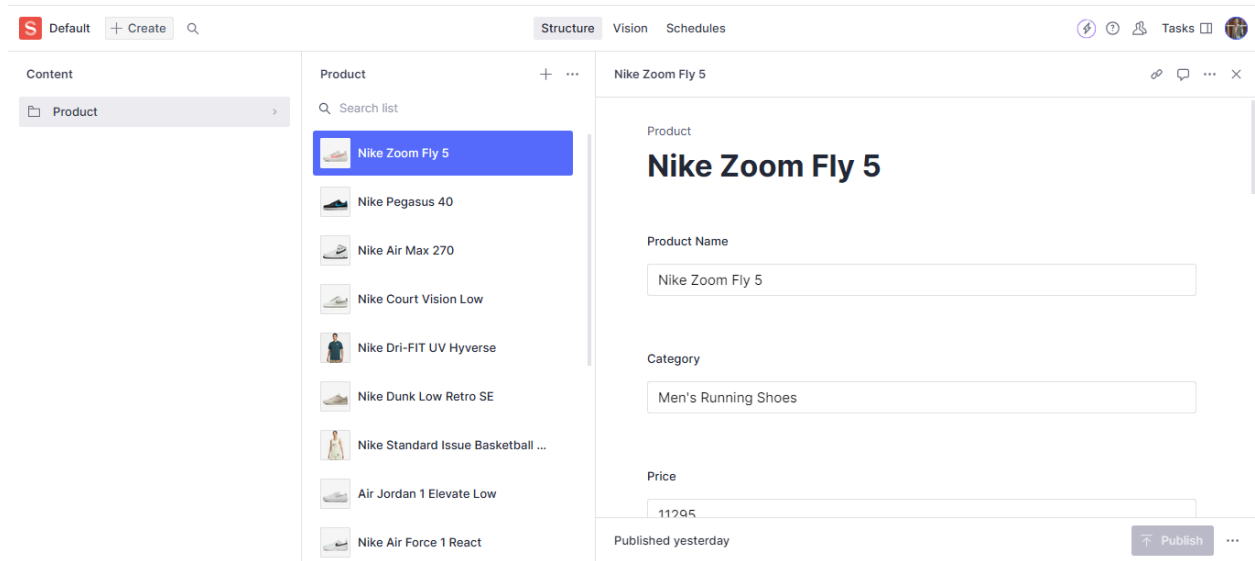Black
MRP : ₹ 10295

Product detail page;

Nike Blazer Mid '77 Vintage

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

Populated Sanity CMS fields

Code snippets for API integration and migration scripts.

Data-migration.mjs

```javascript
import { createClient } from '@sanity/client';
import axios from 'axios';
import dotenv from 'dotenv';
import { fileURLToPath } from 'url';
import path from 'path';

// Load environment variables from .env.local
const __filename = fileURLToPath(import.meta.url);
const __dirname = path.dirname(__filename);
dotenv.config({ path: path.resolve(__dirname, '../.env.local') });

// Create Sanity client
const client = createClient({
  projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
  dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
  useCdn: false,
  token: process.env.SANITY_API_TOKEN,
  apiVersion: '2021-08-31'
});
```

```javascript
async function uploadImageToSanity(imageUrl) {
  try {
    console.log(`Uploading image: ${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()
    });
    console.log(`Image uploaded successfully: ${asset._id}`);
    return asset._id;
  } catch (error) {
    console.error('Failed to upload image:', imageUrl, error);
    return null;
  }
}

async function importData() {
  try {
    console.log('migrating data please wait...');

    // API endpoint containing car data
    const response = await
axios.get('https://template-03-api.vercel.app/api/products');
    const products = response.data.data;
    console.log("products ==>> ", products);


    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 || [], // Optional, as per your schema
        status: product.status,
```

```javascript
        description: product.description,
        image: imageRef ? {
          _type: 'image',
          asset: {
            _type: 'reference',
            _ref: imageRef,
          },
        } : undefined,
      };

      await client.create(sanityProduct);
    }

    console.log('Data migrated successfully!');
  } catch (error) {
    console.error('Error in migrating data ==>> ', error);
  }
}

importData();
```