

DAY 3 - API INTEGRATION AND DATA MIGRATION

(Fashion Product)

Objective:

The objective for Day 3 is to integrate APIs and migrate data into Sanity CMS for a marketplace focused on fashion products like shirts, t-shirts, jeans etc. The goal is to ensure that product data is accurately imported, schemas are properly validated, and the Next.js frontend displays the information dynamically. This approach replicates real-world scenarios in eCommerce development, preparing you to handle API integration and data migration tasks effectively.

Steps for Day 3:

1. Understand the Provided API:

Focus on API endpoints related to fashion products.

Key endpoints:

Products: /products (fetch details for shirts, t-shirts, jeans etc)

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2. Validate and Adjust Your Schema:

Compare your Sanity CMS schema fields with API data structure.

Adjust field names to match the imported data:

Example Adjustments:

API Field: product_title → Schema Field: name

API Field: category_name → Schema Field: category

API Field: image_url → Schema Field: image

3. Data Migration for Fashion Products:

Using the Provided API

- Fetch the products from the API endpoint and transform the data

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Using the Provided API

- Fetch the products from the API endpoint and transform the data.
- Rename fields (product_title → name, price → price).
- Ensure that each product includes relevant categories and images.
- Import the data into Sanity CMS.

4. API Integration in Next.js

Step 1: Create Utility Functions

Write functions to fetch and transform product data dynamically.

Step 2: Render Data in Components

Display the fashion products in a responsive layout.

Day 3 Checklist:

<u>Task</u>	<u>Status</u>
API Understanding	✓

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<u>Task</u>	<u>Status</u>
API Understanding	✓
Schema Validation	✓
Data Migration	✓
API Integration in Next.js	✓
Submission Preparation	✓

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SHOP.CO

Shop

On Sale

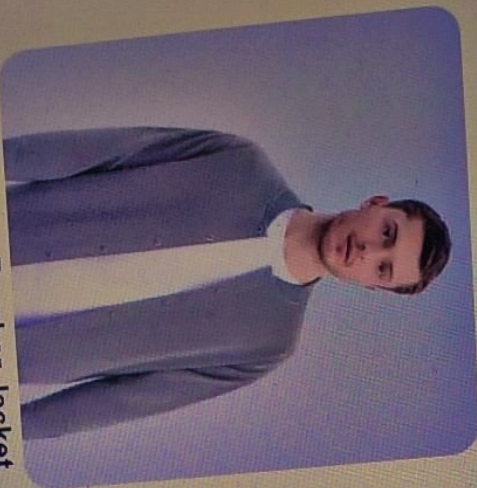
New Arrival

Brands

Casual

Search for products...

Showing 1-10 of 100 Products



Casual Green Bomber Jacket

300

20



Classic Black Straight-Leg Jeans

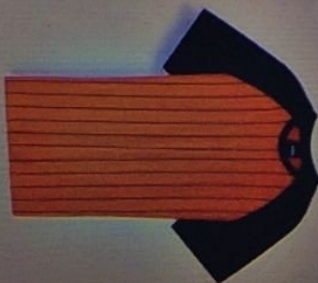
170



COURAGE GRAPHIC T-SHIRT

145

0



Sleeve Stripe T-Shirt

130

40

Type here to search



24°C Haze



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Default



Create



Content



Products



Products

Q Search list



Classic Polo Shirt



Black Athletic Jogger Pants with Side Stripe



Skinny Fit Jeans



Beige Slim-Fit Jogger Pants



Black Striped T-Shirt



Checkered Shirt



LOOSE FIT BERMUDA SHORTS



Vertical Striped Shirt



Sleeve Stripe T-Shirt



COURAGE GRAPHIC T-SHIRT

What's new

Sanity Create Content Mapping, Visual Editing,
and Content Releases



Type here to search



EXPLORER

PROJECT1

src

app

section1

pages.tsx

section2

id

pages.tsx

studio

favicon.ico

global.css

layout.tsx

pages.tsx

components

lib

sanity

lib

schematypes

indexes

products

envs

structures

env.local

eslint.config

gitignore

components.json

importData.js

next-env.d.ts

next.config.mjs

package-lock.json

package.json

postcss.config.mjs

README.md

OUTLINE

TIMELINE

Type here to search

TS products

src > sanity > schematypes > TS products > [0] 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'},

],

},

},

],

},

]

},

]

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

GET /favicon.ico 200 in 603ms

Ln 3, Col 26 (10 selected) Spaces: 4 UTF-8 CRLF (1) TypeScript Go live

24°C Mostly cloudy

6:16 pm 19/01/2023

"description": "This stylish green bomber jacket offers a sleek and modern twist on a classic design. Made from soft and comfortable fabric, it features snap buttons and ribbed cuffs, giving it a sporty yet refined look. The minimalist style makes it perfect for layering over casual t-shirts or hoodies. Whether you're out with friends or just lounging, this jacket provides a laid-back yet fashionable vibe. Its muted green color is subtle, earthy tone that pairs well with a variety of outfits, making it a versatile addition to your casual wardrobe.",
"imageUrl": "https://cdn.sanity.io/images/7xt4qcah/production/4e2ed6a9ea6e14138043e53f3113ccfd2104c301-278x296.png",
"category": "hoodie",
"sizes": [
"S",
"XXL",
"XL",
"L",
],
"id": "0dc7c847-8599-45d0-b02c-34429f7a639e",
"name": "Casual Green Bomber Jacket",
"isNew": true,
"colors": [
"Blue",
"Red",
"Black",
"Yellow",
],
"price": 300,
"discountPercent": 20
},
{
"colors": [
"Blue",
"Red",
"Black",
"White",
],
"description": "This white pullover hoodie offers a clean, minimalist look with its soft fabric and timeless design. The hoodie features a cozy, spacious fit, complete with an adjustable drawstring for a personalized fit and a large front pocket for added convenience. The bright white color is perfect for a fresh, casual style and pairs well with various bottoms like jeans, joggers, or shorts. Whether worn for lounging or as part of an everyday outfit, this hoodie provides comfort and versatility with a modern, relaxed flair.",
"isNew": false,
"price": 150,
"imageUrl": "https://cdn.sanity.io/images/7xt4qcah/production/a93f8ab0d0d857ce42c057d8835e419d68a87eb-193x262.jpg",
"category": "hoodie",
"discountPercent": 10,
"sizes": [
"S",
"XL",
"M",
"L",
],
"id": "17bb7c82-6fb6-462b-8bc6-d39fc05fe4e2",
"name": "Classic White Pullover Hoodie"