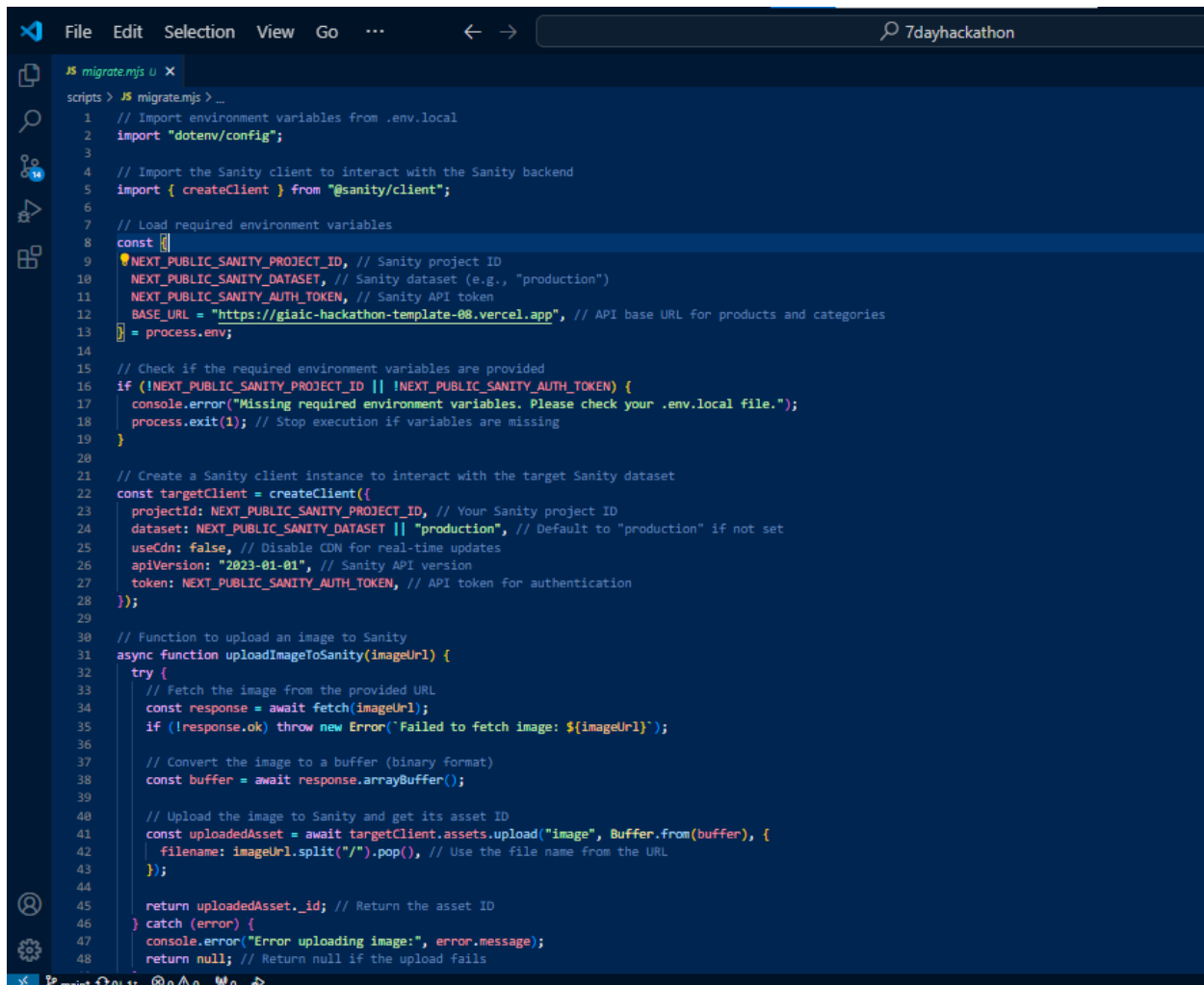
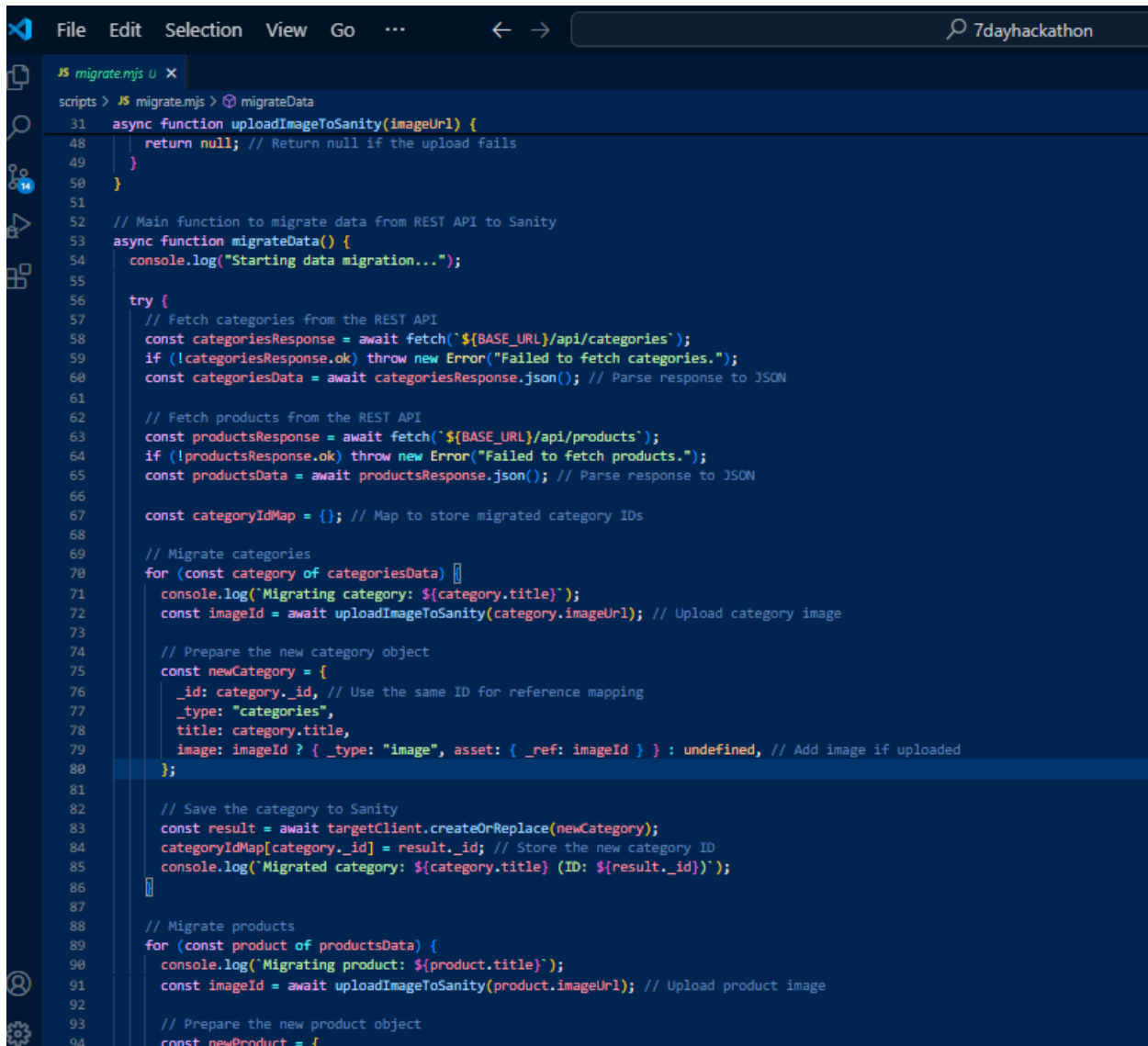


# DAY03: API INTEGRATION AND DATA MIGRATION



```
1 // Import environment variables from .env.local
2 import "dotenv/config";
3
4 // Import the Sanity client to interact with the Sanity backend
5 import { createClient } from "@sanity/client";
6
7 // Load required environment variables
8 const {
9   NEXT_PUBLIC_SANITY_PROJECT_ID, // Sanity project ID
10   NEXT_PUBLIC_SANITY_DATASET, // Sanity dataset (e.g., "production")
11   NEXT_PUBLIC_SANITY_AUTH_TOKEN, // Sanity API token
12   BASE_URL = "https://giaic-hackathon-template-00.vercel.app", // API base URL for products and categories
13 } = process.env;
14
15 // Check if the required environment variables are provided
16 if (!NEXT_PUBLIC_SANITY_PROJECT_ID || !NEXT_PUBLIC_SANITY_AUTH_TOKEN) {
17   console.error("Missing required environment variables. Please check your .env.local file.");
18   process.exit(1); // Stop execution if variables are missing
19 }
20
21 // Create a Sanity client instance to interact with the target Sanity dataset
22 const targetClient = createClient({
23   projectId: NEXT_PUBLIC_SANITY_PROJECT_ID, // Your Sanity project ID
24   dataset: NEXT_PUBLIC_SANITY_DATASET || "production", // Default to "production" if not set
25   useCdn: false, // Disable CDN for real-time updates
26   apiVersion: "2023-01-01", // Sanity API version
27   token: NEXT_PUBLIC_SANITY_AUTH_TOKEN, // API token for authentication
28 });
29
30 // Function to upload an image to Sanity
31 async function uploadImageToSanity(imageUrl) {
32   try {
33     // Fetch the image from the provided URL
34     const response = await fetch(imageUrl);
35     if (!response.ok) throw new Error(`Failed to fetch image: ${imageUrl}`);
36
37     // Convert the image to a buffer (binary format)
38     const buffer = await response.arrayBuffer();
39
40     // Upload the image to Sanity and get its asset ID
41     const uploadedAsset = await targetClient.assets.upload("image", Buffer.from(buffer), {
42       filename: imageUrl.split("/").pop(), // Use the file name from the URL
43     });
44
45     return uploadedAsset._id; // Return the asset ID
46   } catch (error) {
47     console.error("Error uploading image:", error.message);
48     return null; // Return null if the upload fails
49   }
50 }
```

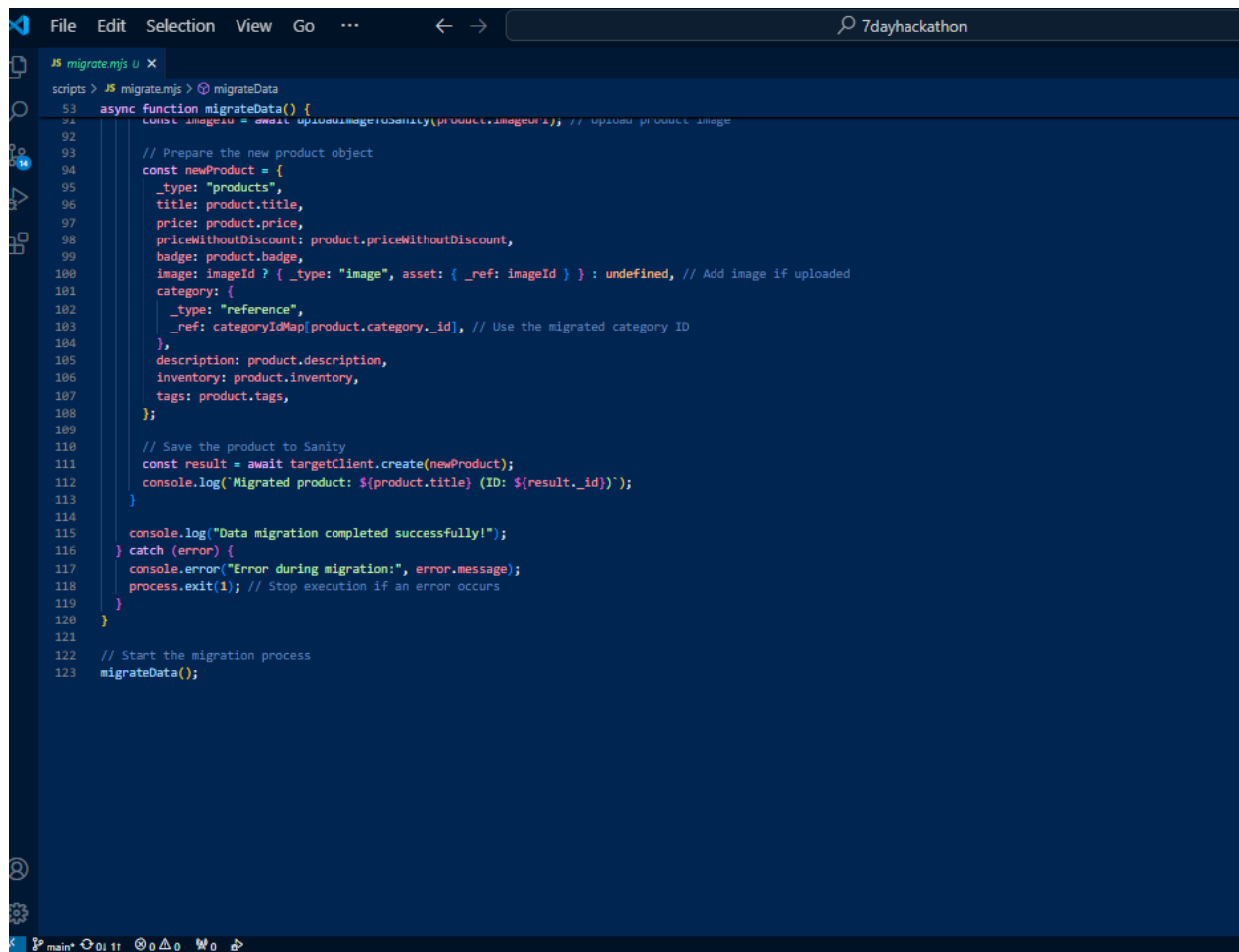
# DAY03: API INTEGRATION AND DATA MIGRATION



```
File Edit Selection View Go ... ← → 7dayhackathon

JS migrate.mjs x
scripts > JS migrate.mjs > migrateData
31 async function uploadImageToSanity(imageUrl) {
48   return null; // Return null if the upload fails
49 }
50 }
51
52 // Main function to migrate data from REST API to Sanity
53 async function migrateData() {
54   console.log("Starting data migration...");
55
56   try {
57     // Fetch categories from the REST API
58     const categoriesResponse = await fetch(`${BASE_URL}/api/categories`);
59     if (!categoriesResponse.ok) throw new Error("Failed to fetch categories.");
60     const categoriesData = await categoriesResponse.json(); // Parse response to JSON
61
62     // Fetch products from the REST API
63     const productsResponse = await fetch(`${BASE_URL}/api/products`);
64     if (!productsResponse.ok) throw new Error("Failed to fetch products.");
65     const productsData = await productsResponse.json(); // Parse response to JSON
66
67     const categoryIdMap = {}; // Map to store migrated category IDs
68
69     // Migrate categories
70     for (const category of categoriesData) {}
71     console.log(`Migrating category: ${category.title}`);
72     const imageId = await uploadImageToSanity(category.imageUrl); // Upload category image
73
74     // Prepare the new category object
75     const newCategory = {
76       _id: category._id, // Use the same ID for reference mapping
77       _type: "categories",
78       title: category.title,
79       image: imageId ? { _type: "image", asset: { _ref: imageId } } : undefined, // Add image if uploaded
80     };
81
82     // Save the category to Sanity
83     const result = await targetClient.createOrReplace(newCategory);
84     categoryIdMap[category._id] = result._id; // Store the new category ID
85     console.log(`Migrated category: ${category.title} (ID: ${result._id})`);
86   }
87
88   // Migrate products
89   for (const product of productsData) {
90     console.log(`Migrating product: ${product.title}`);
91     const imageId = await uploadImageToSanity(product.imageUrl); // Upload product image
92
93     // Prepare the new product object
94     const newProduct = {
```

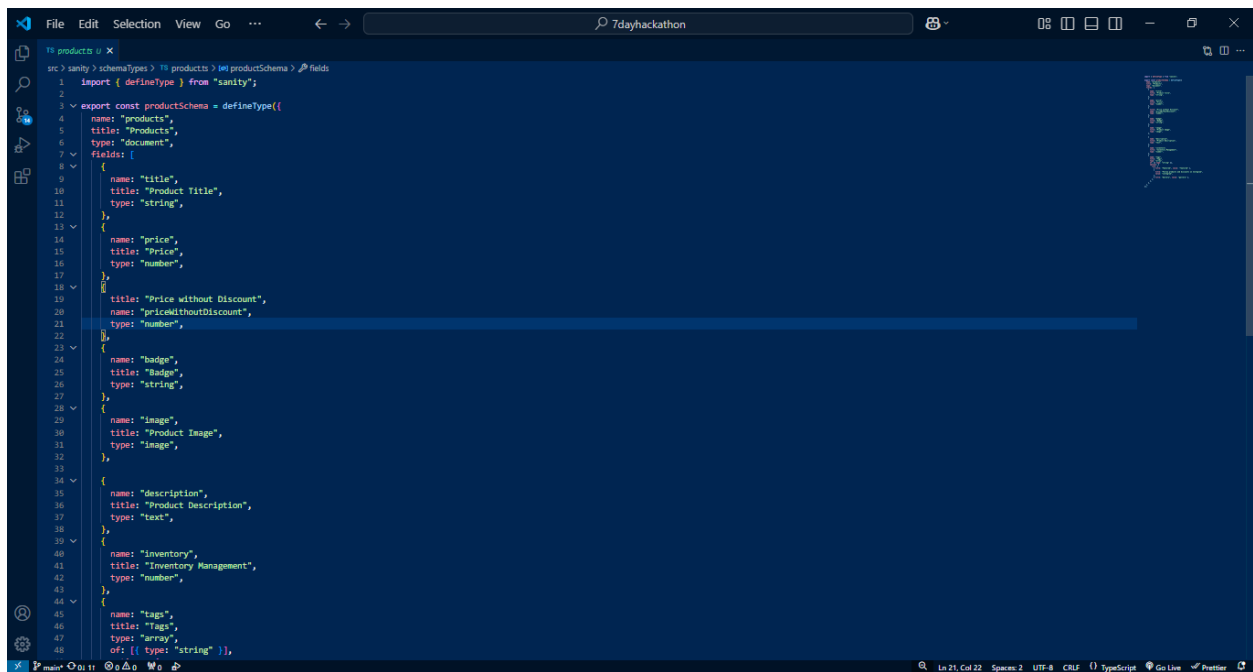
# DAY03: API INTEGRATION AND DATA MIGRATION



```
File Edit Selection View Go ... 7dayhackathon

migrate.mjs X
scripts > migrate.mjs > migrateData
53 async function migrateData() {
54   const images = await uploadImageToSanity(product.imageUrl); // Upload product image
92
93   // Prepare the new product object
94   const newProduct = {
95     _type: "products",
96     title: product.title,
97     price: product.price,
98     priceWithoutDiscount: product.priceWithoutDiscount,
99     badge: product.badge,
100    image: imageId ? { _type: "image", asset: { _ref: imageId } } : undefined, // Add image if uploaded
101    category: {
102      _type: "reference",
103      _ref: categoryIdMap[product.category._id], // Use the migrated category ID
104    },
105    description: product.description,
106    inventory: product.inventory,
107    tags: product.tags,
108  };
109
110  // Save the product to Sanity
111  const result = await targetClient.create(newProduct);
112  console.log(`Migrated product: ${product.title} (ID: ${result._id})`);
113 }
114
115 console.log("Data migration completed successfully!");
116 } catch (error) {
117   console.error("Error during migration:", error.message);
118   process.exit(1); // Stop execution if an error occurs
119 }
120 }
121
122 // Start the migration process
123 migrateData();
```

# DAY03: API INTEGRATION AND DATA MIGRATION



```
1 import { defineType } from "sanity";
2
3 export const productSchema = defineType({
4   name: "products",
5   title: "Products",
6   type: "document",
7   fields: [
8     {
9       name: "title",
10      title: "Product Title",
11      type: "string",
12    },
13    {
14      name: "price",
15      title: "Price",
16      type: "number",
17    },
18    {
19      title: "Price without Discount",
20      name: "priceWithoutDiscount",
21      type: "number",
22    },
23    {
24      name: "badge",
25      title: "Badge",
26      type: "string",
27    },
28    {
29      name: "image",
30      title: "Product Image",
31      type: "image",
32    },
33    {
34      name: "description",
35      title: "Product Description",
36      type: "text",
37    },
38    {
39      name: "inventory",
40      title: "Inventory Management",
41      type: "number",
42    },
43    {
44      name: "tags",
45      title: "Tags",
46      type: "array",
47      of: [{ type: "string" }],
48    },
49  ],
50 });
```

# DAY03: API INTEGRATION AND DATA MIGRATION

```
src > sanity > schemaTypes > TS products > TS productSchema > fields
3   export const productSchema = defineType({
7     fields: [
36       title: "Product Description",
37       type: "text",
38     ],
39     {
40       name: "inventory",
41       title: "Inventory Management",
42       type: "number",
43     },
44     {
45       name: "tags",
46       title: "tags",
47       type: "array",
48       of: [{ type: "string" }],
49       options: {
50         list: [
51           { title: "Featured", value: "featured" },
52           {
53             title: "Follow products and discounts on Instagram",
54             value: "instagram",
55           },
56           { title: "Gallery", value: "gallery" },
57         ],
58       },
59     },
60   ],
61 });
```

# DAY03: API INTEGRATION AND DATA MIGRATION

```
File Edit Selection View Go ... 7dayhackathon

Ts getProducts.ts x
src > sanity > lib > TS getProducts > getProducts > query
1 // lib/getProducts.ts
2 import { client } from './sanityClient';
3
4 export interface Product {
5   priceWithoutDiscount: number;
6   title: string | undefined;
7   _id: string;
8   name: string;
9   slug: { current: string };
10  price: number;
11  originalPrice: number;
12  discount: number;
13  image: { asset: { url: string } };
14 }
15
16 export async function getProducts(): Promise<Product[]> {
17   const query = '*[_type == "products"] {
18     _id,
19     title,
20     price,
21     priceWithoutDiscount,
22     badge,
23     image {
24       asset -> {
25         url
26       }
27     },
28     description,
29     inventory,
30     tags
31   }';
32   const products = await client.fetch(query);
33   return products;
34 }
```

PAGE1

Grab the best deal on [Perfumes](#)

[View All](#)



Enigma Bois Noir EDP for Men - 100 ML

Rs. 10000 Rs:

Save Rs. -10000



J. UROOSA NOIR EAU DE PERFUME 50ML

Rs. 2599 Rs:

Save Rs. -2599



Riiffs Cafe Noir For Men Perfume 100ml

Rs. 0.461 Rs:

Save Rs. -0.461



Junaid Jamshed J. Mika Noir Perfume For Men 50ml

Rs. 0.31 Rs:

Save Rs. -0.31



Enigma Bois Noir EDP for Men - 100 ML

Rs. 100000 Rs: 30

Save Rs. -99970

# DAY03: API INTEGRATION AND DATA MIGRATION

Default

+ Create

Q

Structure

Vision

Schedules

⚡

🕒

👤

Tasks


🚗


Content


Products


Products


Q Search list

 Enigma Bois Noir EDP for Men - 100...

 Riiffs Cafe Noir For Men Perfume 10...

 J. UROOSA NOIR EAU DE PERFUME ...

 Enigma Bois Noir EDP for Men - 100...

 Junaid Jamshed J. Mika Noir Perfu...

Riiffs Cafe Noir For Men Perfume 100ml

Products

## Riiffs Cafe Noir For Men Perfume 100ml

Product Title

Riiffs Cafe Noir For Men Perfume 100ml

Price

0.461

Price without Discount

Published 19 hr. ago

Publish

Default

+ Create

Q

Structure

Vision

Schedules

⚡

🕒

👤

Tasks

🚗

DATASET

API VERSION

CUSTOM API VERSION

PERSPECTIVE

production

Other

v2025-01-19

raw

QUERY

PARAMS

RESULT

1 \*[\_type == "products"] {

2 \_id,

3 title,

4 price,

5 priceWithoutDiscount,

6 badge,

7 image {

8 asset -> {

9 url

10 }

11 },

12 description,

1 {

2

3 }

Execution: n/a

End-to-end: n/a