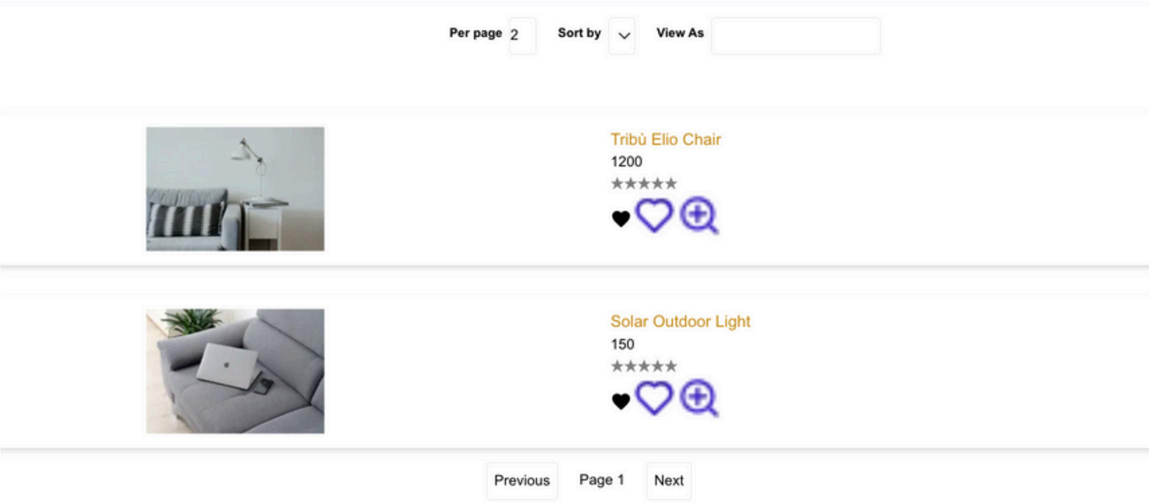
Day 4 - Building Dynamic Frontend Components for Your Marketplace

02

KEY COMPONENT TO BUILD

03

A fully functional product listing page displaying dynamic data from Sanity CMS or APIs.



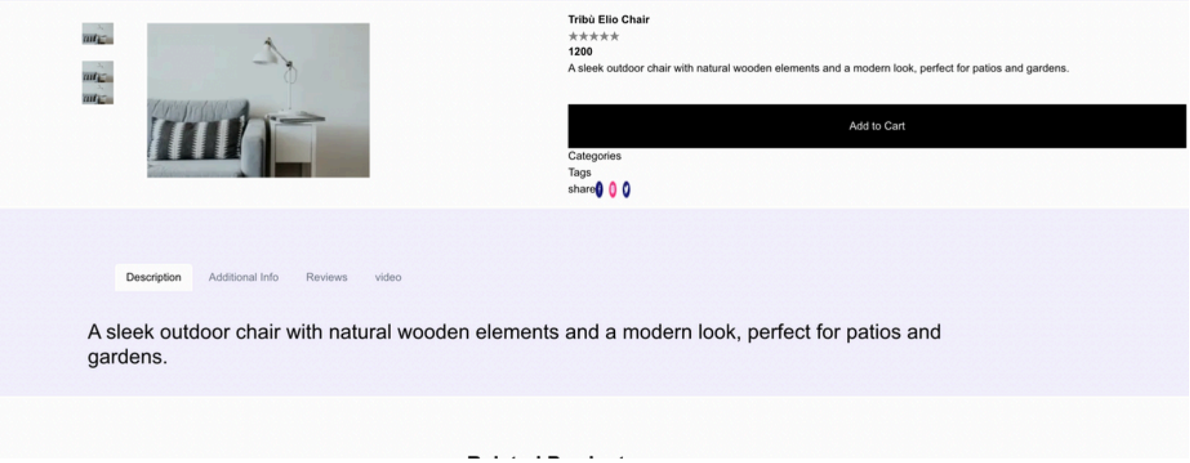
Per page 2 Sort by View As

Tribù Elio Chair
1200
★★★★★

Solar Outdoor Light
150
★★★★★

03

Individual product detail pages implemented using dynamic routing.



Tribù Elio Chair

★★★★★

1200

A sleek outdoor chair with natural wooden elements and a modern look, perfect for patios and gardens.

Categories

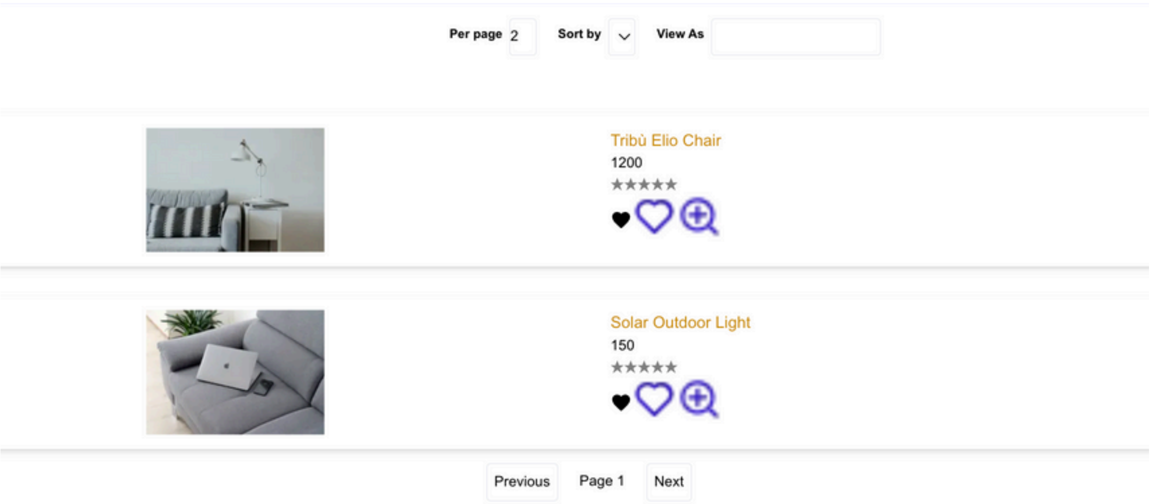
Tags

share

A sleek outdoor chair with natural wooden elements and a modern look, perfect for patios and gardens.

04

Advanced category filters to refine and segment product views dynamically.



Per page 2 Sort by View As

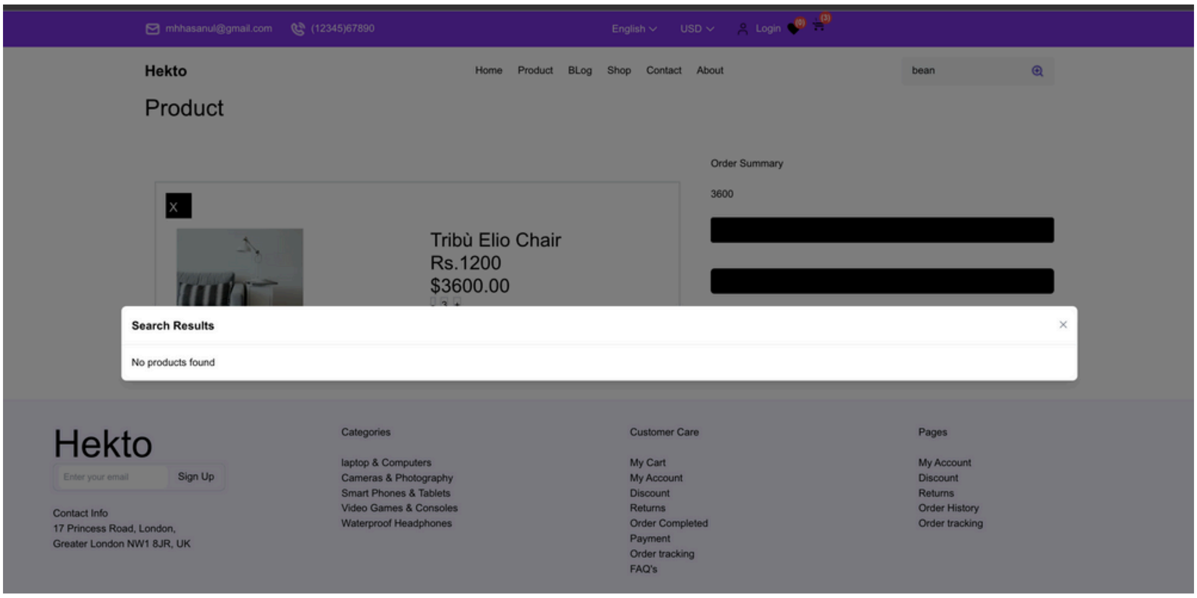
Tribù Elio Chair
1200
★★★★★

Solar Outdoor Light
150
★★★★★

Previous Page 1 Next

04

A search bar that efficiently filters products by name or tags.



Product

Tribù Elio Chair
Rs.1200
$3600.00

Order Summary

3600

Search Results

No products found

Hekto

Contact Info
17 Princess Road, London,
Greater London NW1 8JR, UK

Categories

laptop & Computers
Cameras & Photography
Smart Phones & Tablets
Video Games & Consoles
Waterproof Headphones

Customer Care

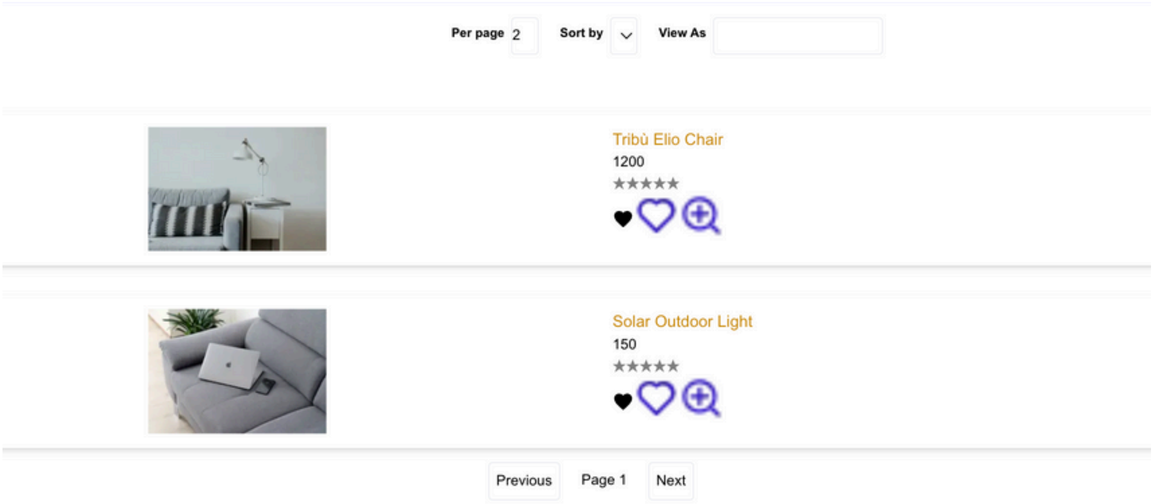
My Cart
My Account
Discount
Returns
Order Completed
Payment
Order tracking
FAQ's

Pages

My Account
Discount
Returns
Order History
Order tracking

04

Additional features like pagination and related products on detail pages.



Per page 2 Sort by View As

Tribù Elio Chair

1200

★★★★★

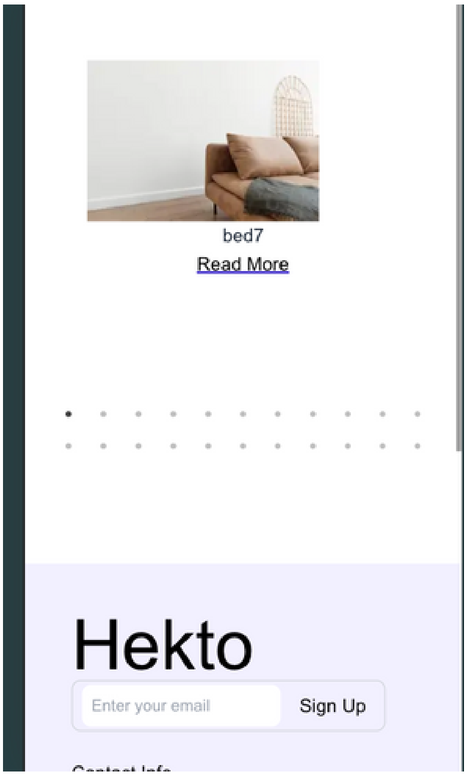
Solar Outdoor Light

150

★★★★★

04

Components styled to ensure responsiveness and a professional look across devices.



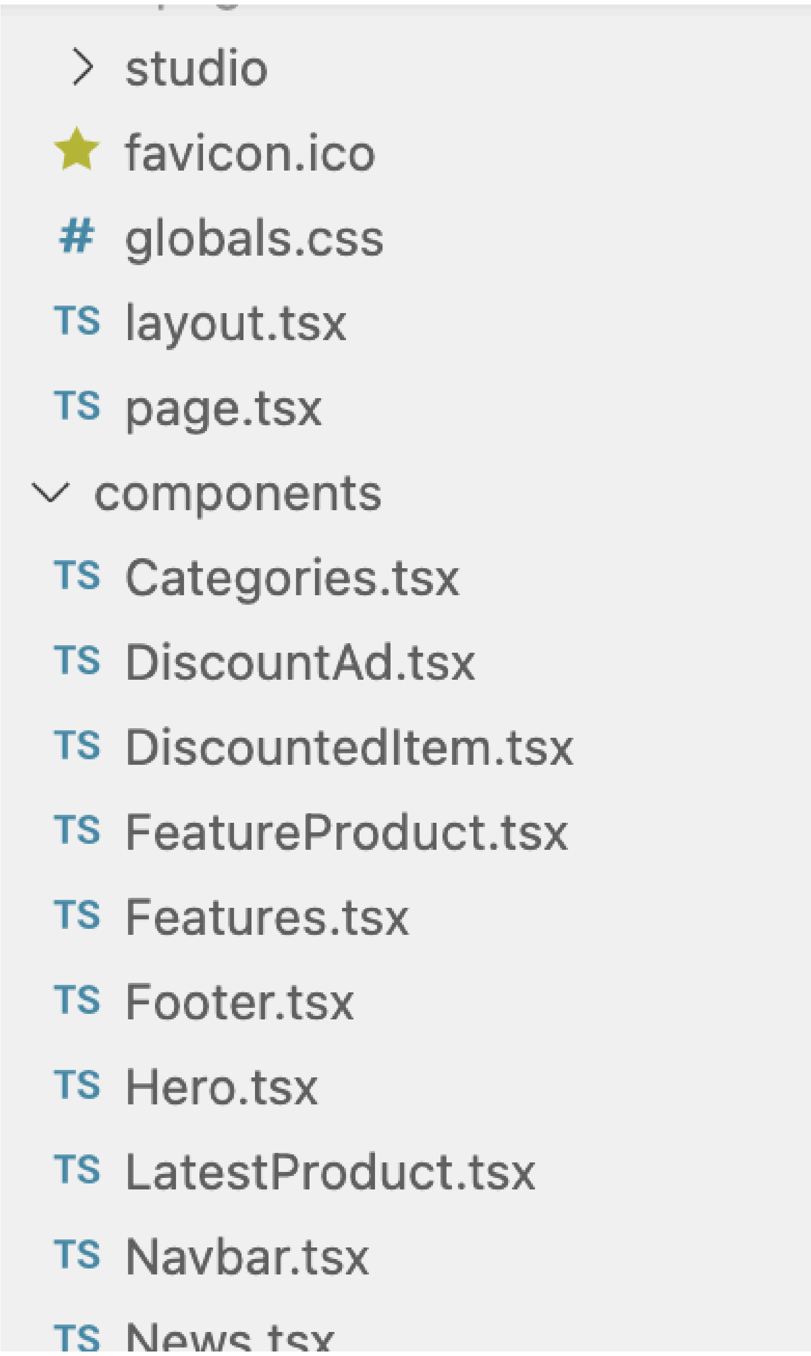
bed7

Read More

Hekto

04

Modular and reusable components for future scalability.



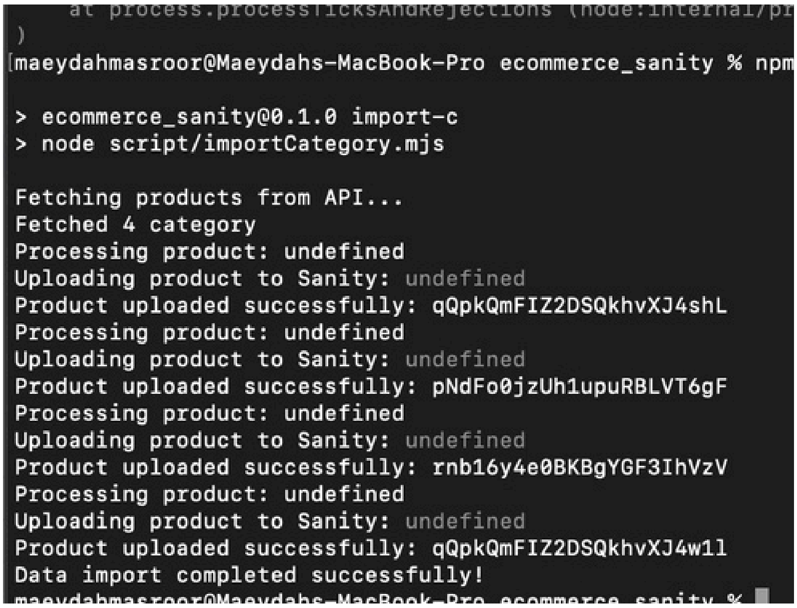
```
  > studio
  ★ favicon.ico
  # globals.css
  TS layout.tsx
  TS page.tsx
⌄ components
  TS Categories.tsx
  TS DiscountAd.tsx
  TS DiscountedItem.tsx
  TS FeatureProduct.tsx
  TS Features.tsx
  TS Footer.tsx
  TS Hero.tsx
  TS LatestProduct.tsx
  TS Navbar.tsx
  TS News.tsx
```

03

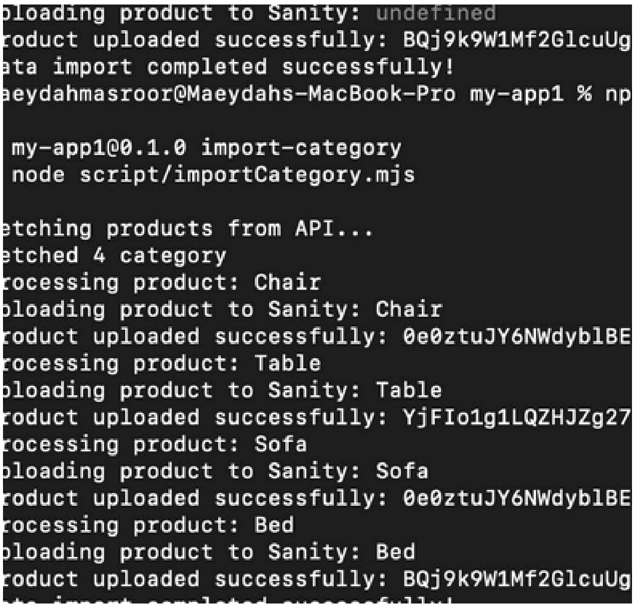
```
name: "isTrending",
title: "Is Trending",
type: "boolean",
description: "Whether the product is trending",
},
{
name: "isLatestProduct",
title: "Is Latest Product",
type: "boolean",
description: "Whether the product is a latest addition",
},
{
name: "stockLevel",
title: "Stock Level",
type: "number",
description: "Available stock of the product",
},
{
name: 'category',
type: 'reference', // Reference field
to: [{ type: 'category1' }], // Referencing the "category" schema
title: 'Category',
},
{
name: "rating",
title: "Rating",
type: "number",
description: "Rating of the product (out of 5)",
validation: (Rule:any) => Rule.min(0).max(5),
},
{
name: "color",
title: "Color",
type: "array",
of: [{ type: "string" }],
description: "Available colors for the product",
},
{
name: "additionalInfo",
title: "Additional Info",
type: "text",
description: "Additional information about the product",
},
],
};
```

04 Data Migration Option

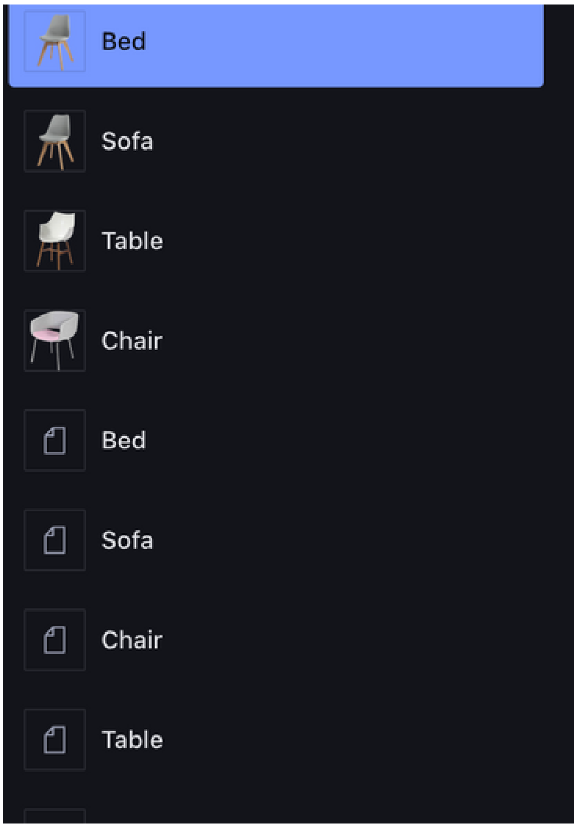
in this step we are going to create a script folder in main folder and then write a script and import[product or category].mjs and then to use and run script we are going to write node “pathname of script” and then on command prompt run npm run [importdata]



```
   at process.processTicksAndRejections (node:internal/pr
 )
[maeydahmasroor@Maeydahs-MacBook-Pro ecommerce_sanity % npm

 > ecommerce_sanity@0.1.0 import-c
 > node script/importCategory.mjs

 Fetching products from API...
 Fetched 4 category
 Processing product: undefined
 Uploading product to Sanity: undefined
 Product uploaded successfully: qQpkQmFIZ2DSQkhvXJ4shL
 Processing product: undefined
 Uploading product to Sanity: undefined
 Product uploaded successfully: pNdFo0jzUh1upuRBLVT6gF
 Processing product: undefined
 Uploading product to Sanity: undefined
 Product uploaded successfully: rnb16y4e0BKBgYGF3IhVzV
 Processing product: undefined
 Uploading product to Sanity: undefined
 Product uploaded successfully: qQpkQmFIZ2DSQkhvXJ4w1l
 Data import completed successfully!
 maeydahmasroor@Maeydahs-MacBook-Pro ecommerce_sanity %
```



```
ploading product to Sanity: undefined
roduct uploaded successfully: BQj9k9W1Mf2GlcuUg
ata import completed successfully!
aeydahmasroor@Maeydahs-MacBook-Pro my-app1 % np

 my-app1@0.1.0 import-category
 node script/importCategory.mjs

etching products from API...
etched 4 category
rocessing product: Chair
ploading product to Sanity: Chair
roduct uploaded successfully: 0e0ztuJY6NWdyblBE
rocessing product: Table
ploading product to Sanity: Table
roduct uploaded successfully: YjFIo1g1LQZHJZg27
rocessing product: Sofa
ploading product to Sanity: Sofa
roduct uploaded successfully: 0e0ztuJY6NWdyblBE
rocessing product: Bed
ploading product to Sanity: Bed
roduct uploaded successfully: BQj9k9W1Mf2GlcuUg
ata import completed successfully!
```



Bed

Sofa

Table

Chair

Bed

Sofa

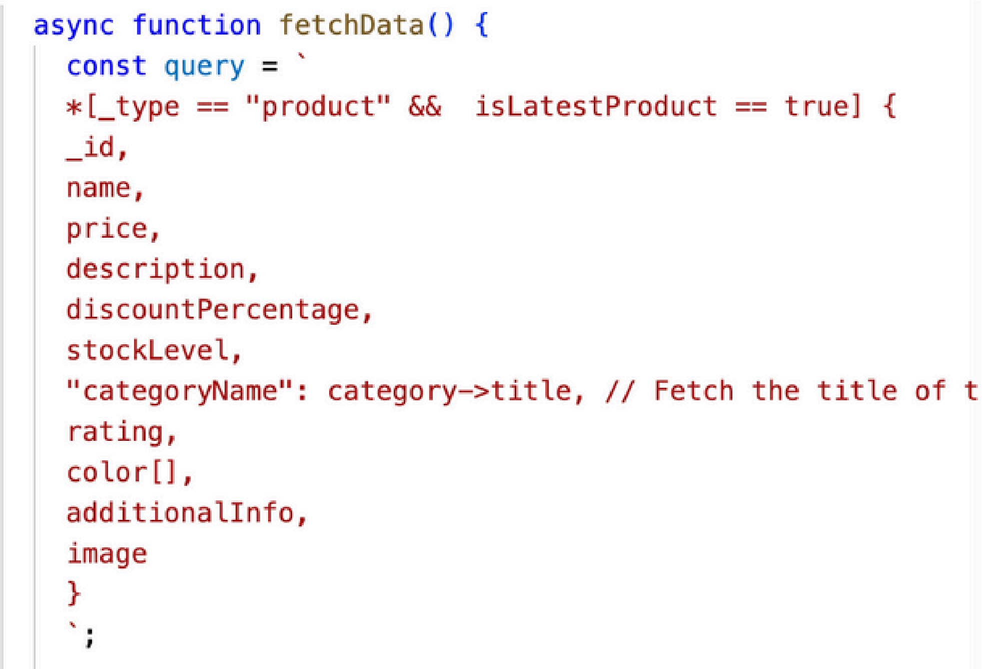
Chair

Table

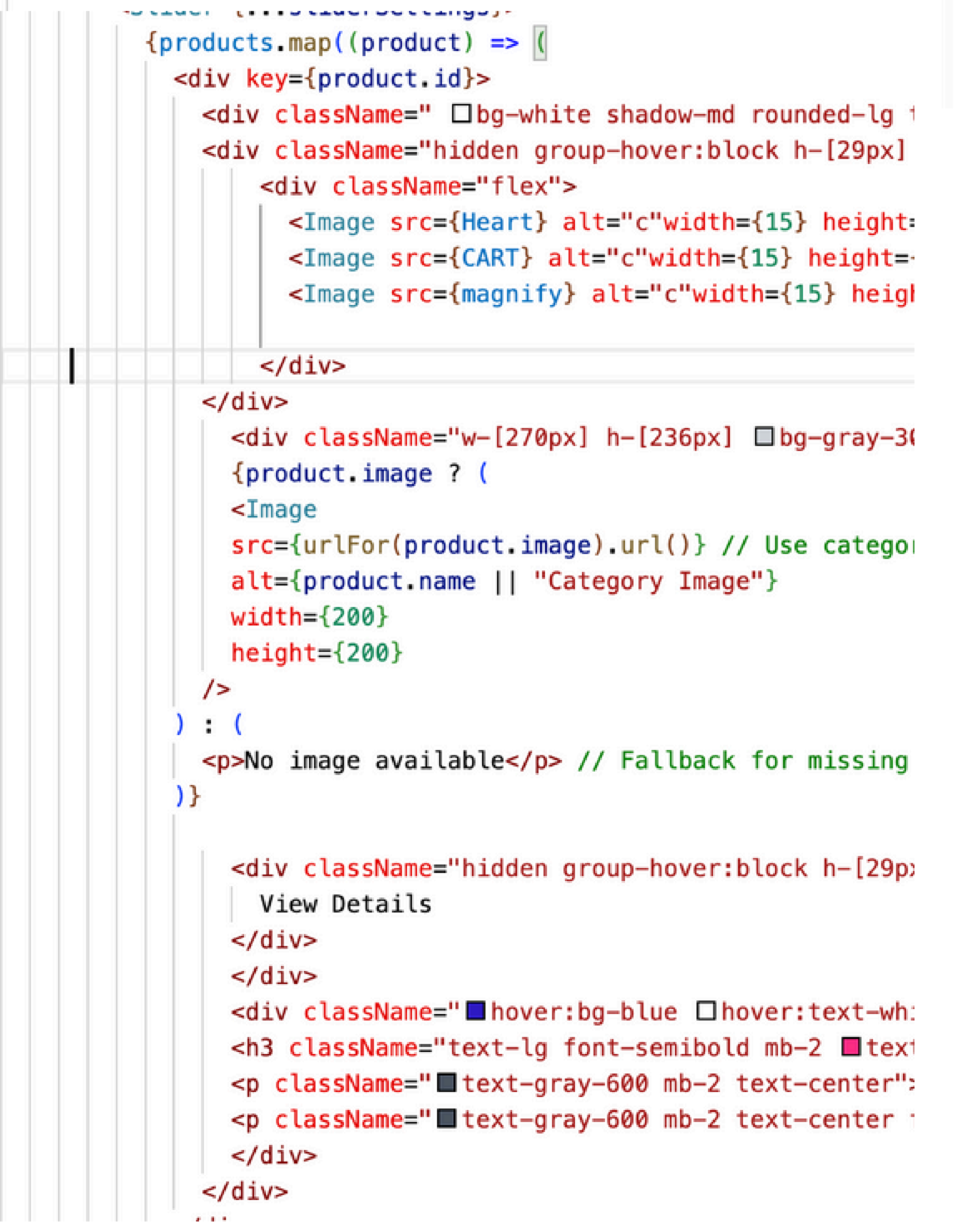
Some of the info was not properly upload so i use manual import then.

05 API Integration in nextjs

In this step we are going to make utility function like query to fetch data

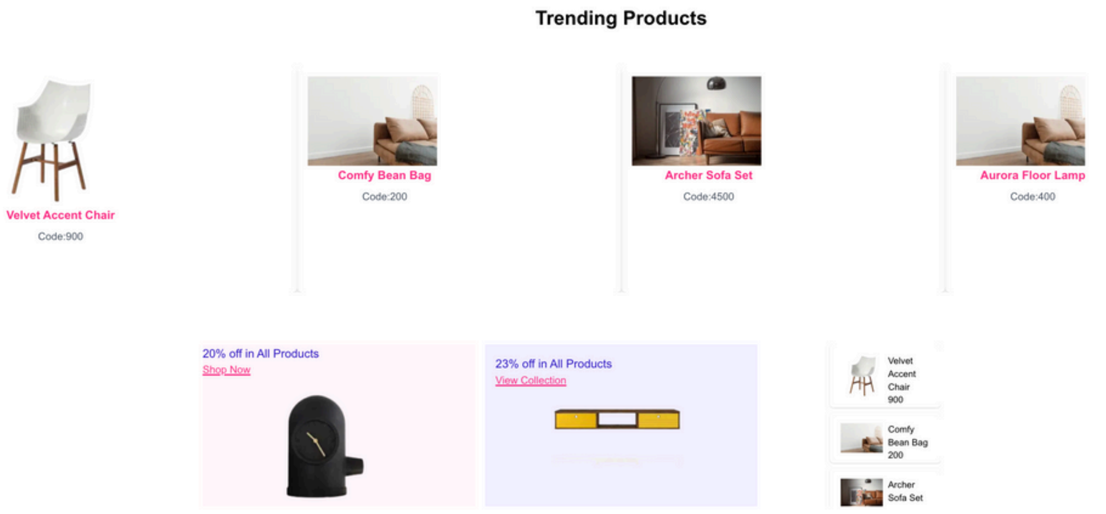


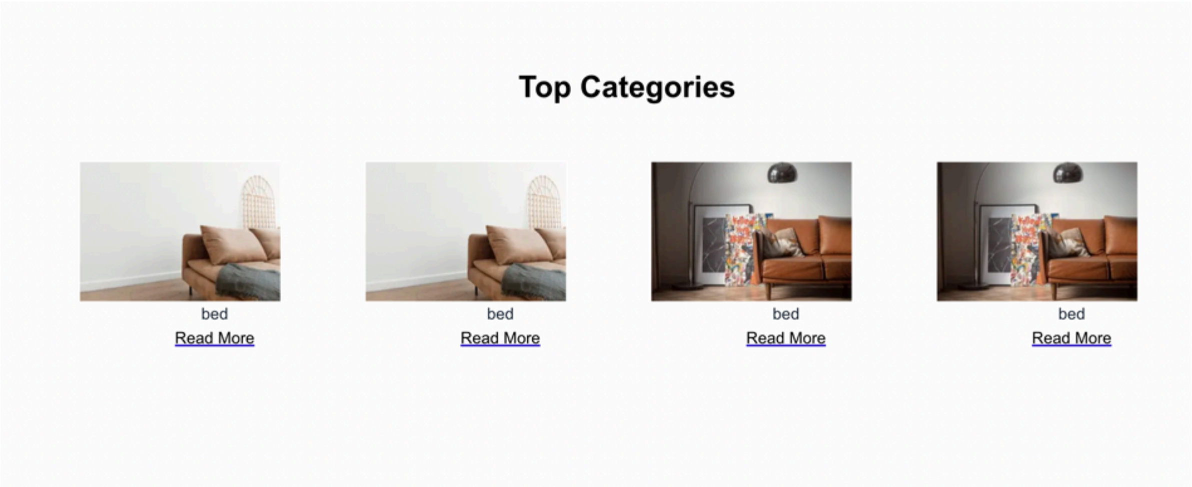
```
async function fetchData() {
  const query = `
  *[_type == "product" &&  isLatestProduct == true] {
  _id,
  name,
  price,
  description,
  discountPercentage,
  stockLevel,
  "categoryName": category->title, // Fetch the title of t
  rating,
  color[],
  additionalInfo,
  image
  }
  `;
```

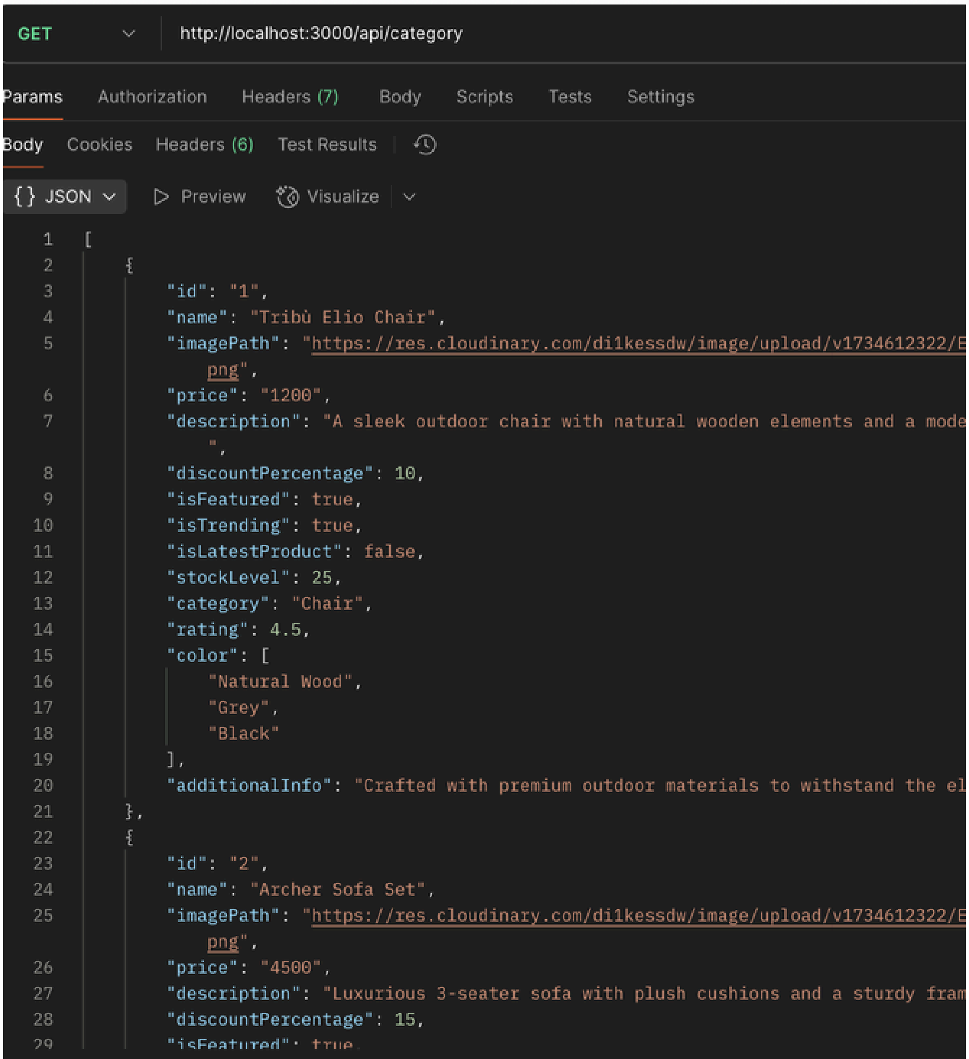


```
      <Slider {...sliderSettings}>
        {products.map((product) => (
          <div key={product.id}>
            <div className=" □bg-white shadow-md rounded-lg 
            <div className="hidden group-hover:block h-[29px]
                <div className="flex">
                  <Image src={Heart} alt="c"width={15} height=
                  <Image src={CART} alt="c"width={15} height=
                  <Image src={magnify} alt="c"width={15} heig

                </div>
            </div>
              <div className="w-[270px] h-[236px] □bg-gray-3
              {product.image ? (
              <Image
              src={urlFor(product.image).url()} // Use catego
              alt={product.name || "Category Image"}
              width={200}
              height={200}
            />
          ) : (
            <p>No image available</p> // Fallback for missing
          )}

              <div className="hidden group-hover:block h-[29p
                View Details
              </div>
              </div>
              <div className="■hover:bg-blue □hover:text-wh
              <h3 className="text-lg font-semibold mb-2 ■tex
              <p className="■text-gray-600 mb-2 text-center">
              <p className="■text-gray-600 mb-2 text-center 
              </div>
            </div>
```

06







GET http://localhost:3000/api/category

```
[
    {
        "id": "1",
        "name": "Tribù Elio Chair",
        "imagePath": "https://res.cloudinary.com/di1kessdw/image/upload/v1734612322/E
            png",
        "price": "1200",
        "description": "A sleek outdoor chair with natural wooden elements and a mode
            ",
        "discountPercentage": 10,
        "isFeatured": true,
        "isTrending": true,
        "isLatestProduct": false,
        "stockLevel": 25,
        "category": "Chair",
        "rating": 4.5,
        "color": [
            "Natural Wood",
            "Grey",
            "Black"
        ],
        "additionalInfo": "Crafted with premium outdoor materials to withstand the el
    },
    {
        "id": "2",
        "name": "Archer Sofa Set",
        "imagePath": "https://res.cloudinary.com/di1kessdw/image/upload/v1734612322/E
            png",
        "price": "4500",
        "description": "Luxurious 3-seater sofa with plush cushions and a sturdy fram
        "discountPercentage": 15,
        "isFeatured": true,
```

Day 3 Checklist:
Self-Validation Checklist:

API UNDERSTANDING	**YES**	
SCHEMA VALIDATION	YES	
DATA MIGRATION	YES(DID BUT I ADDED SOME INFO MANUALLY)	
API INTEGRATION	YES(BUT DYAMIC DATA NOT BEING ON VERCEL)	
SUBMISSION PREPARATION	YES	