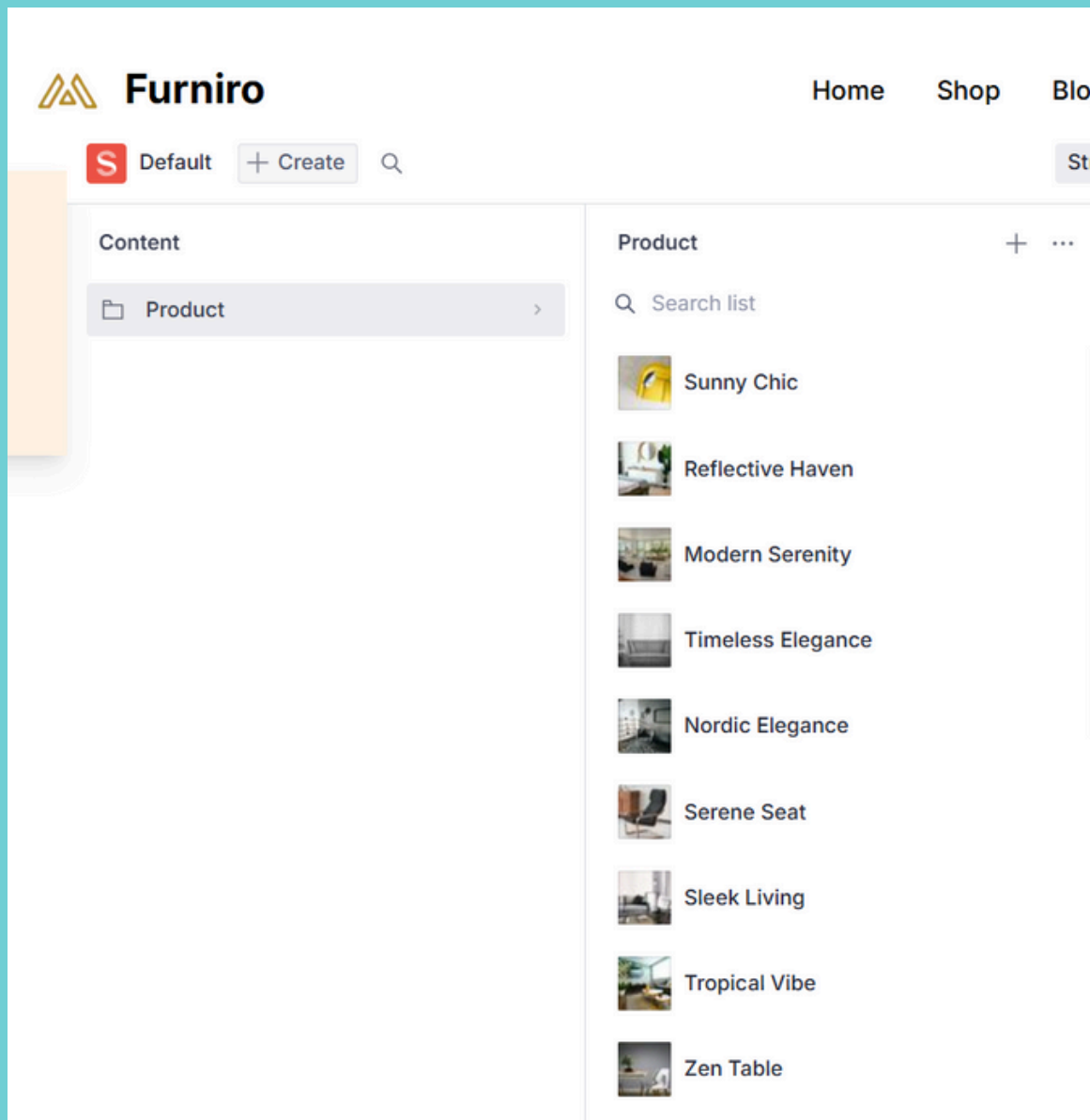


# **DAY 3 - API INTEGRATION AND DATA MIGRATION**

# Studio Cards



# GroQ

DATASET	API VERSION	CUSTOM API VERSION	PERSPECTIVE <span>?</span>	QUERY URL [COPY TO CLIPBOARD]
production	Other	v2025-01-17	raw	https://83bwh2q7.api.sanity.io/v2025-01-17/data/query/p

QUERY

```
1 *[_type == 'product']
```

PARAMS

```
1 {  
2  
3 }
```

RESULT

```
[...] 24 items  
▼ 0: {...} 12 properties  
  isNew: false  
  title: Bold Nest  
  _updatedAt: 2025-01-18T12:36:17Z  
  ▼ tags: [...] 5 items  
    0: bold  
    1: nest  
    2: furniture  
    3: modern  
    4: contemporary  
  price: 260  
  _id: 9pIJ000PMKhFhzCfbSupto  
  _rev: 9pIJ000PMKhFhzCfbSupq1  
  _type: product  
  description: Welcome to BoldNest-where fearless design meets comfort and creativity. Crafted for those who embrace individuality and bold expressions, BoldNest is more than just a piece of furniture; it's a statement. With its striking design, exceptional comfort, and modern aesthetics, BoldNest is perfect for anyone looking to add a unique touch to their home or office. The BoldNest collection combines daring colors,
```

Fetch

Listen

Execution: 14ms End-to-end: 177ms

Save result as JSON CSV

# Fetching Data

services > TS mockApi.ts > ...

```
import { client } from "@sanity/lib/client";

async function uploadImageToSanity(imageUrl: string) {
  try {
    const response = await fetch(imageUrl);
    if (!response.ok) throw new Error(`Failed to fetch image: ${response.statusText}`);
    const blob = await response.blob();
    const asset = await client.assets.upload("image", blob);

    return asset;
  } catch (error) {
    console.error("Image upload failed:", error); //aik new folder create karay is project ko close kary ok is ko cmd mein open karay
    throw error;
  }
}

export async function fetchData() {
  try {
    const response = await fetch("https://template6-six.vercel.app/api/products");
    console.log("🥳 Response status:", response.status);

    if (!response.ok) throw new Error(`Failed to fetch products: ${response.statusText}`);
    const products = await response.json();
    console.log("Fetched products:", products);

    // Upload images concurrently
    const uploadPromises = products.map(async (product: any) => {
      if (!product.image) {
        console.warn(`Skipping product with missing image: ${product.id}`);
        return;
      }

      const imageAsset = await uploadImageToSanity(product.image);

      // await client.createOrReplace(sanityProduct);
    });
  }
}
```

# GroQ

```
pp > example > page.tsx > page

import { Card, Container, Grid, Text, Title, Image } from '@groq/ui';

const page = async () => {
  const res = await client.fetch(`*[_type == 'product']{
    'productImage': productImage.asset->url,
    price,
    // tags,
    description,
    // isNew,
    title,
    dicountPercentage
  }`);

  //console.log("data", res)
  return (
    <div className="container px-10 py-10">
      <h2 className="text-3xl font-bold text-center py-10 leading-10">Our Products</h2>
      {/* Wrapper div for flex grid */}
      <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-y-4 justify-items-center">

        {/* Map Method to render ourProduct cards */}
        {res.map((ourProduct: any, i: any) => {
          return (
            <div key = {i}
              className="bg-white rounded-lg shadow-md border border-gray-300 justify-center items-center w-[280px] h-[400px]" // Fixed card
            >
              <div className="relative w-full h-[270px]">
                {" "}
                {/* Fixed image container */}
                <Image
                  src={ourProduct.productImage}
                  alt={"ourProduc"}
                  fill // Use fill to ensure the image fits the container
                />
              </div>
              <div>
                <Text>
                  {ourProduct.title}
                </Text>
                <Text>
                  {ourProduct.description}
                </Text>
                <Text>
                  {ourProduct.price}
                </Text>
                <Text>
                  {ourProduct.dicountPercentage}
                </Text>
              </div>
            </div>
          );
        })}
      </div>
    </div>
  );
};
```

# Schema

```
src > constant > TS product.ts > ...
 1 // Types for our products
 2 interface Product {
 3     id: string
 4     name: string
 5     category: string
 6     image: string
 7     price: number
 8     originalPrice?: number
 9     discount?: number
10     isNew?: boolean
11 }
12
13 // Sample product data
14 export const products: Product[] = [
15     {
16         id: "1",
17         name: "Syltherine",
18         category: "Stylish cafe chair",
19         image: "/Syltherine.png",
20         price: 2500000,
21         originalPrice: 3500000,
22         discount: 30,
23     },
24     {
25         id: "2",
26         name: "Leviosa",
27         category: "Stylish cafe chair",
28         image: "/Leviosa.png",
29         price: 2500000,
30     },
31     {
32         id: "3",
33         name: "Lolito",
34         category: "Luxury big sofa",
35         image: "/Lolito.png",
36         price: 7000000,
37         originalPrice: 14000000,
```

# What is API Integration?

API (Application Programming Interface) integration is the process of connecting different software systems or applications to enable them to communicate and share data seamlessly. APIs act as intermediaries that define how applications or components should interact. Through API integration, businesses can enhance their workflows by enabling real-time data sharing, automating processes, and connecting third-party services or tools with their existing systems. This process ensures systems can exchange information efficiently, reducing manual intervention and improving overall productivity.

## What is Data Migration?

Data migration involves transferring data from one system, database, or storage format to another. This process is often required when upgrading to a new system, consolidating data from multiple sources, or adopting cloud-based technologies. Data migration ensures that critical information is preserved and accessible in the new environment while maintaining data accuracy and integrity. Proper planning, validation, and testing are crucial for a successful data migration to minimize downtime and prevent data loss during the transition.

Both processes are vital for modernizing systems and ensuring smooth operation across platforms, especially during system upgrades or digital transformations.

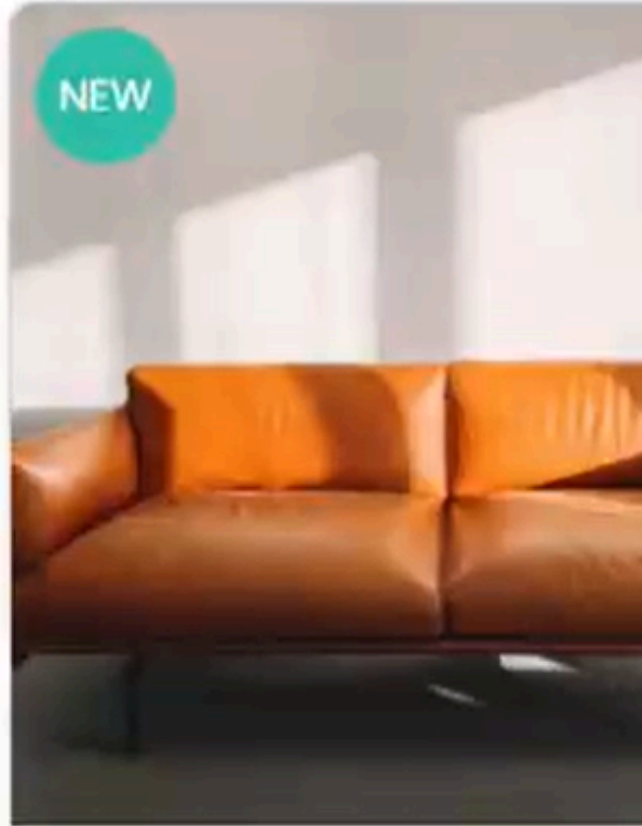
# Cards



## Cafe-Chair

Stylish cafe chair

**\$4500**



## 2-Seater-Sofa

Compact 2 Seater Sofa

**\$17000**



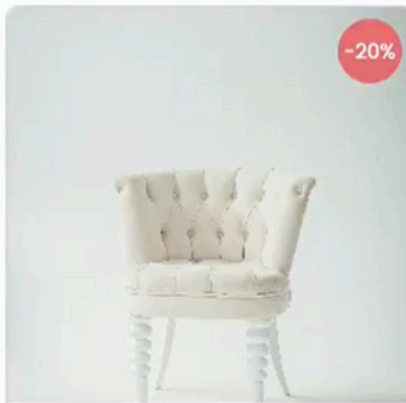
# Cards on Website



## Rustic Vase Set

Bring the charm of nature into your home with the Rustic Vase Set...

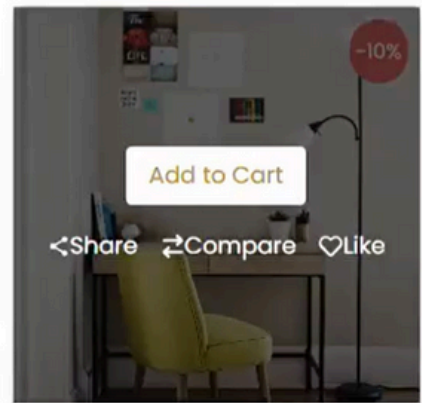
**\$210**



## Cloud Haven Chair

Sink into comfort with the Cloud Haven Chair—where softness...

**\$230**



## Bright Space

Welcome to BrightSpace—a collection designed to infuse your...

**\$180**