

Hackathon Day 3

API Integration Process Using Sanity

Sanity, a headless CMS, was employed to streamline content management and ensure smooth API integration. Below is an overview of the process:

1. Project Setup:

- Created a new Sanity project via the Sanity CLI.
- Configured the sanity. Json file with project-specific details.
- This project involves developing an e-commerce store.
- The administrator has the capability to add products using the Sanity content management system.
- The /shop/[item] Route, situated within the app directory, is specifically designed to handle the management and display of product data.

2. Adjustments Made to Schemas

- Schema modifications were implemented to align with the website's content structure and ensure optimal performance. The Structure is showed in screenshots

Screenshots

Schema: product page

```
1  export const products={
2    name: 'Products',
3    title: 'Product Category',
4    type: 'document',
5    fields: [
6      {
7        name: 'ProductCategory',
8        type: 'string',
9        title: 'Category Name',
10     },
11     {
12       name: 'ProductCategoryImage',
13       type: 'image',
14       title: 'Category Image',
15     },
16   ],
17 },
18
19
20 }
```

Schema Shop page:

```
1  export const shop={
2    name: 'Shop',
3    title: 'Shop Products',
4    type: 'document',
5    fields: [
6      {
7        name: 'ProductID',
8        type: 'string',
9        title: 'Shop Product ID',
10     },
11     {
12       name: 'ProductName',
13       type: 'string',
14       title: 'Shop Product Name',
15     },
16     {
17       name: 'ProductImage',
18       type: 'image',
19       title: 'Shop Product Image',
20     },
21     {
22       name: 'ProductPrice',
23       type: 'string',
24       title: 'Shop Product Price',
25     },
26     {
27       name: 'ProductDescription',
28       type: 'string',
29       title: 'Shop Product Description',
30     },
31     {
32       name: 'ProductDiscount',
33       type: 'string',
34       title: 'Shop Product Discount',
35     },
36     {
37       name: 'ProductFeatured',
38       type: 'boolean',
39       title: 'Shop Product Is Featured',
40     },
41     {
42       name: 'Productcategory',
43       type: 'string',
44       title: 'Shop Product Category',
45     },
46   ],
47 },
48
49
50 }
```

3. Migration Steps and Tools Used

- Content migration was a critical phase to ensure the smooth transition of existing data into Sanity.
- Making Schema in Sanity
- Creating Documents in Sanity Including Product Category and Shop products
- Using sanity client and declare some functions to fetch data from the Sanity Studio

API Calls:

Product page:

```
1 // components/ProductGrid.tsx
2 import Link from 'next/link';
3 import Header from '../Components/component1';
4 import Footer from '../Components/component2';
5 import Image from 'next/image';
6 import { client } from '@sanity/lib/client';
7 import imageUrlBuilder from '@sanity/image-url';
8 import Bottom1 from '../Components/component3';
9
10 const builder = imageUrlBuilder(client);
11
12 function urlFor(source: any) {
13   return builder.image(source);
14 }
15
16 async function getData() {
17   const query = `*[ _type == "Products" ] {
18     _id,
19     ProductCategory,
20     ProductCategoryImage
21   }`;
22   const data = await client.fetch(query);
23   return data;
24 }
25
26 export default async function ProductGrid() {
27   const data = await getData();
28
29   return (
30     <div>
31       <Header />
32       <div className="bg-gray-50">
33         <section className="bg-purple-100 text-center py-10">
34           <h1 className="text-3xl font-bold text-gray-800">Products</h1>
35           <p className="mt-2 text-gray-600">Browse our product categories</p>
36         </section>
37       </div>
38       <div className="p-6">
39         <h1 className="text-2xl font-bold text-center mb-6">Ecommerce Items</h1>
40         <div className="text-center text-gray-500 mb-6">
41           {data.length} Product Categories
42         </div>
43         <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6">
44           {data.map((val: any) => (
45             <Link
46               key={val._id}
47               href="/shop"
48               passHref
49             >
50               <div className="group block border border-gray-200 rounded-lg overflow-hidden hover:shadow-lg transition-shadow duration:300">
51                 <div className="bg-gray-100 aspect-w-1 aspect-h-1 w-full">
52                   <Image
53                     src={urlFor(val.ProductCategoryImage).url()}
54                     alt={val.ProductCategory}
55                     className="object-cover w-full h-full group-hover:scale-105 transition-transform duration:300"
56                     width={250}
57                     height={183}
58                   />
59                 </div>
60                 <div className="p-4">
61                   <h2 className="font-semibold text-lg text-gray-800">
62                     {val.ProductCategory}
63                   </h2>
64                 </div>
65               </div>
66             </Link>
67           ))}
68         </div>
69       </div>
70       <Bottom1 />
71     </div>
72   );
73 }
```

API Call Shop Page

Frontend Display:

Products

Browse our product categories

Ecommerce Items

8 Product Categories



Phones



Electronics



Sport goods



Cameras



Furniture



Beauty



Mobile Accessories



Watches

Live

Sunshine

Handcrafted

Mestonix

Pure

Hekto

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Categories

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

Customer Care

- My Account
- Discount
- Returns
- Orders History
- Order Tracking

Pages

- Blog
- Browse the Shop
- Category
- Pre-Built Pages
- Visual Composer Elements
- WooCommerce Pages

Shop

Filters

Product Brand

☐ Casaher Furniture

☐ Fusion Den High Fashion

☐ Unique Furniture

☐ Dream Furniture

☐ Young Responwood

☐ Green Furniture

Categories

☐ Accessories

☐ Watches

☐ Magento

☐ Clothes

☐ Furniture

Price Filter

☐ \$0 - \$150

☐ \$150 - \$350


☐ \$350 - \$550

☐ \$550 - \$600

☐ \$600 - \$1000

☐ above \$1000

Shop Products




Morius Ouis

Morius in set adjusting in pharetra non in justo.

\$20

\$50




Futuristic sleek Modern chair

A modern chair with a modern flow frame and fixed seat arms.

\$2000

\$




Floating Entertainment Center

Versatile entertainment chair for modern interiors.

\$1000

\$4400




Sodales Sit

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

\$15

\$25




Nordic Net Red Chair

An acrylic dining chair with a sleek and minimalist Nordic design.

\$280

\$920




Leisure Sofa Chair

A comfortable set of chairs with soft cushions for relaxation.

\$1500

\$1600




Cozy Armchair

Compact armchair with a cozy design for small spaces.

\$450

\$520




Morbi Sagittis

Morbi in set adjusting in pharetra non in justo.

\$34

\$94




Tribu Elio Chair

A sleek outdoor chair with natural wooden elements and a modern look.

\$1000

\$4200




Varmora Plastic Chair Solid

Durable and lightweight plastic chair for everyday use.

\$75

\$100




Replica Hans Wegner Wishbone Chair

Classic wishbone chair with a dark walnut frame and cord seat.

\$600

\$750




High Quality Modern Customized Plastic Chair

A simple and lightweight chair ideal for dining or casual use.

\$150

\$




Uchiwa Quilted Lounge Chair

A vibrant pink velvet chair with a quilted back and soft cushions.

\$1200

\$4000




Sobuy Blue Folding Chair Wooden Padded

A foldable wooden chair with a padded seat for extra comfort.

\$75

\$400




Matilda Velvet Chair

A vibrant pink velvet chair with a contemporary design.

\$520

\$600




Dictum Moribi

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

\$55

\$70




seceline Degenium

Morbi in set adjusting in pharetra non in justo.

\$60

\$94




Stylish Golden Metal Legs Mint Blue Velvet Sofa

A luxurious armchair with velvet fabric and golden metal legs.

\$780

\$




Alpha chair - Solid Ebonised oak

A sturdy oak chair with a sleek and minimalist design.

\$750

\$900




Cantilever Chair

A modern cantilever chair with a unique floating effect.

\$650

\$700




Diondre Chair - Tuft Button - Acrylic Legs

A tufted chair with acrylic legs for a modern touch.

\$500

\$200




Rapson thirty-nine guest chair

A mid-century modern chair with a clean lines and durable materials.

\$1150

\$4300




Nautilus Lounge Chair

A lounge chair with a shell-inspired design and premium upholstery.

\$1100

\$1450




Hans Wegner Style Three Legged shell chair

A classic three-legged chair with a teak leather and ash plywood frame.

\$800

\$900




Armchair

An elegant arm chair with cushions and a curved design for comfort.

\$850

\$



Luxury Flower Shell Sofa Chair

A luxurious shell-shaped chair with gold bases, metal legs.

\$2500

\$

Hekto

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Cameras & Photography
Smart Phones & Tablets
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Customer Care

My Account
Discount
Returns
Order History
Order Tracking

Pages

Blog
Browse the Shop
Category
Product Pages
Visual Comparison
Wishlist

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Sanity CMS

