HACKATHON-03 DAY-03

My MarketPlace Name [Costco Club]

A report documenting

- API INTEGRATION PROCESS:

1. Install Sanity Client

First, install the Sanity client library in your project. npm install @sanity/client

2. Configure the Sanity Client

Create a sanity.js file to configure the client with your Sanity project details (project ID, dataset, and API version).

```
import { createClient } from "next-sanity";

import { apiVersion } from "../env";

export const client = createClient({
   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
   useCdn: true,
   token: process.env.NEXT_PUBLIC_SANITY_TOKEN,
   apiVersion,
});
```

3. Fetch Data with GROQ Query

Write a function to fetch data using a GROQ query.

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

export async function GET() {
  try {
    const data = await client.fetch(`*[_type=="product"]`);

    return NextResponse.json(data, { status: 200 });
  } catch (error) {
    console.error('Error fetching data from Sanity:', error);
```

```
return new NextResponse('Error fetching data', { status: 500 });
}
```

- ADJUSTMENTS MADE TO SCHEMA:

```
import { defineType, defineField } from "sanity"
export const product = defineType({
    name: "product",
    title: "Product",
    type: "document",
    fields: [
        defineField({
            name: "title",
            title: "Title",
            validation: (rule) => rule.required(),
            type: "string"
        }),
        defineField({
            name: "slug",
            type: "slug",
            title: "Slug",
            options: {
              source: "title",
             maxLength: 96,
            },
          },),
        defineField({
            name: "productImage",
            type: "image",
            validation: (rule) => rule.required(),
            title: "Product Image"
        }) ,
        defineField({
            name: "price",
            type: "number",
            validation: (rule) => rule.required(),
            title: "Price",
        }),
        defineField({
```

```
name: "quantity",
        title: "Quantity",
        type: "number",
        validation: (rule) => rule.min(0),
      }),
    defineField({
        name: "tags",
        type: "array",
        title: "Tags",
        of:[{
            type: "string"
        }]
    }) ,
    defineField({
        name: 'description',
        title: 'Description',
        type: 'text',
        description: 'Detailed description of the product',
      }),
      defineField({
        name: 'features',
        title: 'Features',
        type: 'array',
        of: [{ type: 'string' }],
        description: 'List of key features of the product',
      }),
      defineField({
        name: 'dimensions',
        title: 'Dimensions',
        type: 'object',
        fields: [
          { name: 'height', title: 'Height', type: 'string' },
          { name: 'width', title: 'Width', type: 'string' },
          { name: 'depth', title: 'Depth', type: 'string' },
        description: 'Dimensions of the product',
      }),
]
```

- MIGRATION STEPS AND TOOLS USED :

1. Sanity Installation

First we have to install sanity by: npm create sanity@latest

2. Sanity Schema

After the installation Navigate to your schema folder: If you have a src folder, go to /src/sanity/schemaTypes. Otherwise, go to /sanity/schemaTypes.

Than place your sanity schema there.

Don't forget to import schema's in your index.ts file

3. Data Migration Script

- Create .env file and add the following variables:

```
NEXT_PUBLIC_SANITY_PROJECT_ID="Your Id"

NEXT_PUBLIC_SANITY_DATASET="Your DataSet"

NEXT_PUBLIC_SANITY_TOKEN="Your Token"
```

- Create migrate.mjs inside of the script folder and put your migarting data there
- Open 'package.json' file and add the following code inside of script

```
"import-data": "node ./scripts/importData.mjs"
```

- Install

npm install dotenv

- Now run the command

npm run import

Data successfully displayed in the frontend.



Rustic Vase Set
A timeless design, with premium materi...
Price: \$210



Bed
A timeless design, with premium materi...

Price: \$250



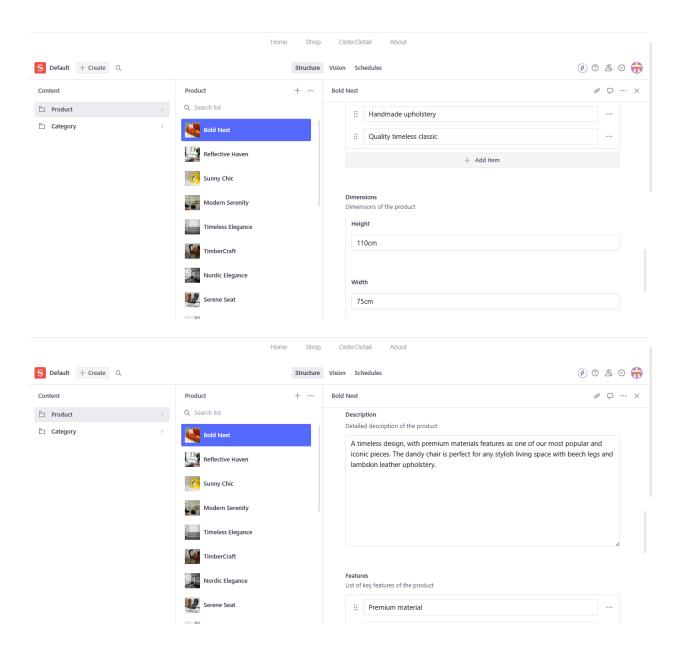
Wood Chair
A timeless design, with premium materi..
Price: \$100

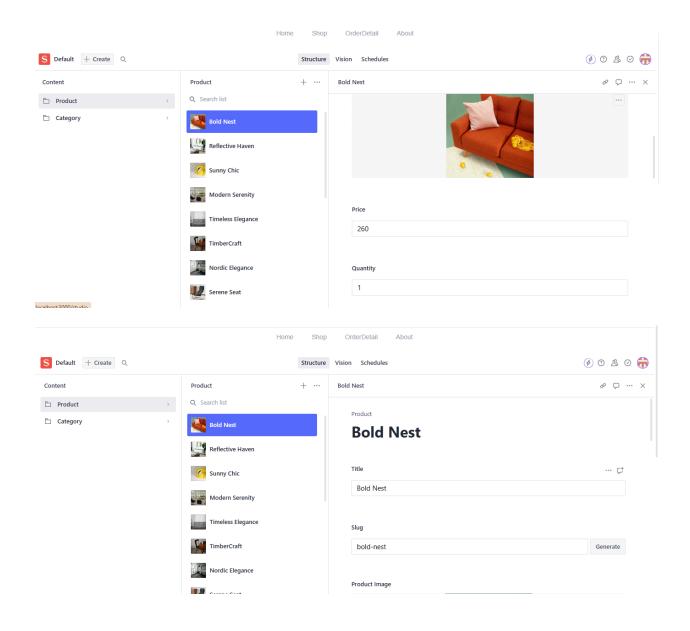


Pure Aura
A timeless design, with premium materi..

Price: \$280

Populated Sanity CMS fields.





Code snippets for API integration and migration scripts.

```
import { createClient } from '@sanity/client';
import dotenv from 'dotenv';
import { fileURLToPath } from 'url';
import path from 'path';

// Load environment variables from .env.local
const __filename = fileURLToPath(import.meta.url);
const __dirname = path.dirname(__filename);
```

```
const client = createClient({
 projectId: "vlsu19wp",
 dataset: "production",
 useCdn: false,
token:"skCld6mBzzpblu9A6fhJSz82tqkvw5tLQJzPxyTPXd0mg0SZ5GThiII1EZHW9A9Jx1F
iBP18uqC78wk0Xhup7bmZx9m5R0NwmYsEJj6iqYvrI49qc4E61PqM3BuyG7IKFqdiOZI1TfUOE
TTqTbdh9gtIVHYt2QGp6qMnMZB01EmkssPk1bkt",
 apiVersion: '2021-08-31',
});
async function uploadImageToSanity(imageUrl) {
 try {
   console.log(`Uploading image: ${imageUrl}`);
   const response = await fetch(imageUrl);
   if (!response.ok) {
     throw new Error(`Failed to fetch image: ${imageUrl}`);
   const buffer = await response.arrayBuffer();
   const bufferImage = Buffer.from(buffer);
   const asset = await client.assets.upload('image', bufferImage, {
     filename: imageUrl.split('/').pop(),
   });
   console.log(`Image uploaded successfully: ${asset. id}`);
   return asset. id;
 } catch (error) {
   console.error('Failed to upload image:', imageUrl, error);
   return null;
async function uploadProduct(product) {
 try {
```

```
const imageId = await uploadImageToSanity(product.image);
    if (imageId) {
      const document = {
        _type: 'product',
        title: product.name,
        description: product.description,
       productImage: {
         _type: 'image',
         asset: {
           ref: imageId,
          },
        features: product.features,
        dimensions: product.dimensions,
       category: product.category,
       price: product.price,
        tags: product.tags,
      };
      const createdProduct = await client.create(document);
      console.log(`Product ${product.title} uploaded successfully:`,
createdProduct);
    } else {
      console.log(`Product ${product.title} skipped due to image upload
failure. `);
 } catch (error) {
    console.error('Error uploading product:', error);
async function importProducts() {
 try {
   const response = await
fetch('https://hackathon-apis.vercel.app/api/products');
    if (!response.ok) {
      throw new Error(`HTTP error! Status: ${response.status}`);
```

```
const products = await response.json();

for (const product of products) {
    await uploadProduct(product);
  }
} catch (error) {
    console.error('Error fetching products:', error);
}

importProducts();
```