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API Integration Report

(Stylestride)

API Integration Process:

Overview:

This reports outlines the activities completed on Day 3 of the hackathon The main focus was on migrating to the market place using Sanity CMS ..The detailed are given below

STEP # 1 :- API Endpoint Setup :

API Endpoint: 'Https://template-03-api.vercel.app/api/products'

Data Structure: The API provides produce data, including field like product Name' 'price', "inventory"," fields category "colors" 'status', 'description", "image".

Library Used: Axios was used - Library used to fetch data from the API.

STEP # 2 :- Fetch Data From API :

```
const response = await axios.get('https://template-03-api.vercel.app/api/products');
const products = response.data.data;
console.log("products ==>> ", products);
```

The API call retrieves an array of product objects from the endpoint, ensuring proper serialization.

PRODUCT SCHEMA MODIFICATION:

1 Scehama pics". "

2. "Fieldupdates"

Colors: Added as optional tancopadate array of strings to multiple color options.

<u>Image</u>: Configured as a sanity image field with hotspot enabled for better image cropping & scaling.

STEPS TAKEN:

1.Environmental Setup:

- utilized doteny to load environment variables from env.local.
- Key environment variables include.
- NEXT_PUBLIC_SANITY_PROJECT_ID.
- NEXT_PUBLIC_SANITY_DATASET.
- SANITY_TOKEN.

2. Data Fetching:

- Retrieved product data from the API endpoint using Axios.
- Parsed and logged the data to confirm its structure and integrity.

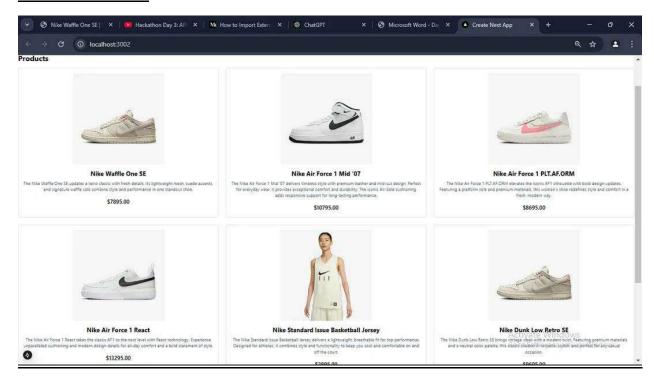
3. Document Creation:

 Created Sanity documents for each product by combining API data and uploaded image references.

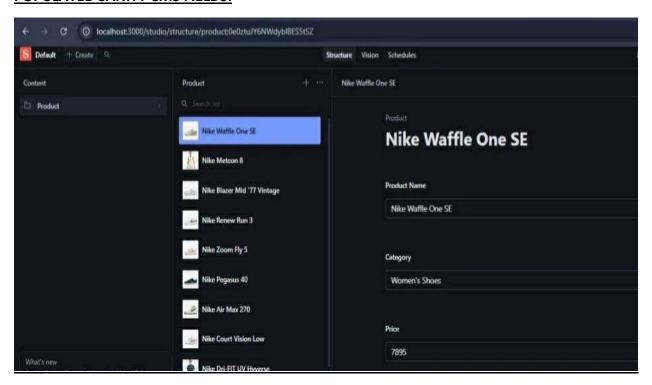
```
const sanityProduct = {
 type: 'product',
 productName: product.productName,
 category: product.category,
 price: product.price,
 inventory: product.inventory,
 colors: product.colors || [],
  status: product.status,
 description: product.description,
 image: imageRef ? {
   _type: 'image',
     _type: 'reference',
     ref: imageRef,
   },
  } : undefined,
await client.create(sanityProduct);
```

SCREEN SHOTS:

FRONTED DISPLAY:



POPULATED SANITY CMS FIELDS:



MIGRATION STEPS AND TOOL USED:

- Back up Data
- Update Schema
- Deploy Updated Schema
- Inspect Data
- Migrate Data
- Test Locally
- Validate Date
- Deploy to Production

TOOLS USED:

1. Sanity CLI

For exporting and importing datasets and deploying schema updates.

2. Sanity Studio

• To update and test schema changes locally before deploying to production.

3. Sanity Dashboard

To monitor and manage the live dataset and environment.

4. GROQ Queries

For querying and inspecting existing documents to find missing or invalid data.

5. Custom Scripts (Optional)

• For large-scale migrations, use JavaScript and the Sanity Client to automate updates to multiple documents.

DATA FETCHED:

```
1
             CUSTOM API VERSION
                                             PERSPECTIVE
                                                                              QUERY URL [COPY TO CLIPBOARD]
              v2025-01-18
                                               raw
                                                                               https://x18ojk87.api.sanity.io/v2025-01-18/data/query/productic
[...] 16 items
 0: {_}} 9 properties
    imageUrl: https://cdn.sanity.io/images/x180jk87/production/b039b2d23e832f1d29375236a80f613bc011dbc3-348x348.png
     _id: @e@ztuJY6NWdyb1BE55tSZ
     category: Women's Shoes
  · colors: [_] 1 item
       0: Pink
    status: Just In
    price: 7895
    productName: Nike Waffle One SE
     inventory: 30
    description: The Nike Waffle One SE updates a retro classic with fresh details. Its lightweight mesh, suede accents,
     and signature waffle sole combine style and performance in one standout shoe.
* 1: {_} 9 properties
    status: Just In
    description: The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive
    support for long-lasting performance.
    price: 10795
     _id: BQj9k9W1Mf2GlcuUg2MsdZ
    productName: Nike Air Force 1 Mid '07
Execution: 7ms End-to-end: 1869ms
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CODE SNIPPETS FOR MIGRATION SCRIPTS:

```
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                                                                         scripts > 12 importSanityData.mis > 12 importData
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22 async function uploadImageToSanity(imageUrl) {
     V MY-APP
       > next
     > 🛅 node_modules
                                      console.log(`Uploading image: ${imageUrl}`);
       > to public
                                      const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });

→ lig scripts

          importSanityDat...
       filename: imageUrl.split('/').pop()
        → 🕮 app
                                      comsole.log('Image uploaded successfully: ${asset. id}');
        > 📑 assets
                                      return asset._id;
         components
                                     } catch (error) {
            ard.tsx
                                      console.error('Failed to upload image:', imageUrl, error);
            essentials.tsx
            footer.tsx
            gear.tsx
                                   Tabnine | Edit | Test | Explain | Document async function importData() {
            miss.tsx
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            running.tsx
                                       console.log('migrating data please wait...');
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         > le help
                                       const response = await axios.get('https://template-03-api.vercel.app/api/products');
         > ijoin
                                       const products = response.data.data;
         > 🔳 signîn
                                       console.log("products ==>> ", products);
         > 🖿 studio
           favicon.ico
           3 globals.css
                                        let imageRef = null;
           layout.tsx
                                         if (product.image) {
           page.tsx
                                          imageRef = await uploadImageToSanity(product.image);

✓ Image sanity

         ∨ 👼 lib
```

```
File Edit Selection View Go Run ···
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■ importSanityData.mjs ×  product.ts

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     > OPEN EDITORS
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Ç
                           38 async function importData() {
    V MY-APP
                                     let imageRef = null;
      > mode_modules
                                      if (product.image) {
      > 👼 public
                                       imageRef = await uploadImageToSanity(product.image);

→ in scripts

         importSanityDat...
       ∨ 🖝 src
       → 🕮 app
                                        productName: product.productName,
        > assets
                                       category: product.category,
        essentials.tsx
           🌎 footer.tsx
           gear.tsx
                                        description: product.description,
                                        image: imageRef ? {
                                         asset: {
           navbar.tsx
                                           _ref: imageRef,
        > fonts
        > 🖿 help
        > 🔳 join
        > 🔳 signin
         > 🖿 studio
          favicon.ico
          3 globals.css
                                    console.log('Data migrated successfully!');
          page.tsx
                                    console.error('Error in migrating data ==>> ', error);
                                                                                                                               Activate Windows
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```

-----THE END ------