

Day 03: API Integration & Migration: HomeAura

Integration Workflow and Migration Summary

API Connection Steps:

1. Linking Product and Category Endpoints:

- **Endpoints Used:**
- **Product Data:** hackathon-apis.vercel.app/api/products
- **Category Data:** hackathon-apis.vercel.app/api/products
- Utilized fetch for data retrieval in the custom migration script.
- Validated the API responses to ensure they matched the schema fields in Sanity CMS.

2. Schema Refinement in Sanity:

- Addressed discrepancies between manual schema design and API response format.
- Updated schemas to ensure proper structure:
- **Product Schema Adjustments:** Added fields like `categories`, and `tags`.
- **Category Schema Modifications:** Introduced `image` as a reference field for handling category visuals.

3. Building the Migration Utility:

- Created `migrate.mjs` for automated data migration.
- Configured Sanity client to manage upload images and save data efficiently.
- Explicitly defined `.env.local` to resolve environmental variable conflicts.

Migration Process Overview:

1. Sanity Platform Installation:

- Successfully installed and initialized Sanity.

2. Schema Development:

- Designed product.ts schema matching API data.

3. Environment Configuration:

- Created a .env file to securely store Sanity credentials.
- Defined the .env file path explicitly within the migration script.

4. Custom Migration Script:

- Developed migrate.mjs to fetch and upload data to Sanity CMS.
- Mapped API fields accurately to resolve inconsistencies.
- Added the following command in package.json for execution:

```
"migrate": "node migrate.mjs",
```

5. Executing the Migration:

- Verified successful integration of products datasets in Sanity CMS.

Implementation Evidence:

1. Sanity CMS Dashboard View:

- Displays populated products entities.

2. Application Frontend Display:

- Renders live data seamlessly on the user interface.

Obstacles Addressed:

- Resolved .env.local file conflicts by explicitly declaring its path.
- Modified Sanity schemas to accommodate new data fields.
- Ensured correct image uploads and category-to-product mapping.
-

Strategic Choices:

- Opted for .env configuration to ensure secure and consistent credential management.
- Updated schema designs to harmonize API data with Sanity requirements.

Screen Shot Of Migration:

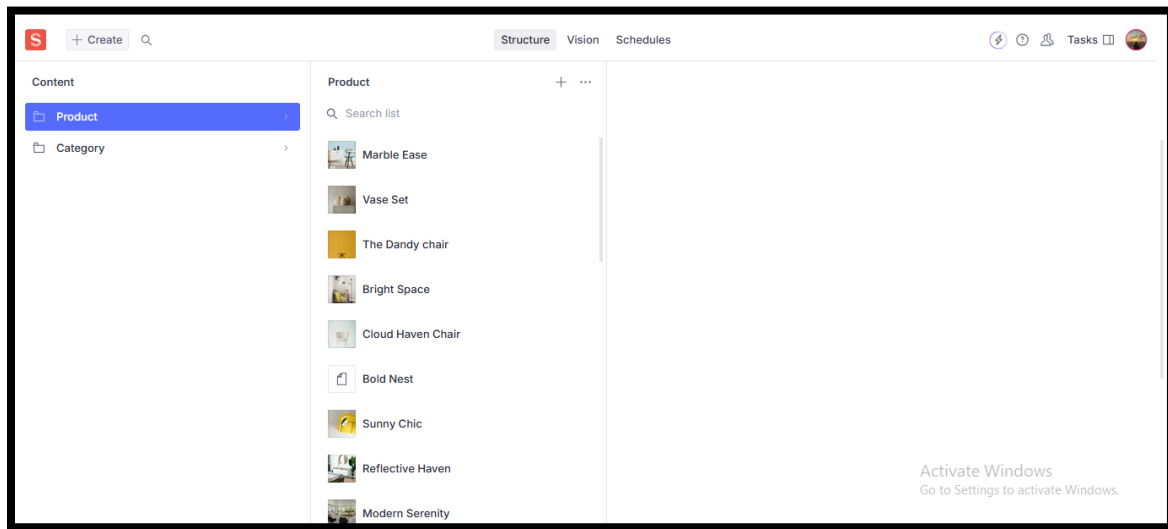
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

C:\figma-hackathon>npm run migrate

> figma-hackathon@0.1.0 migrate
> node migrate.mjs

Starting data migration...
Migrating product: The Poplar suede sofa
Category created successfully {
  _createdAt: '2025-01-18T08:14:10Z',
  _id: 'tableware-0',
  _rev: 'whpRLkwvxva49hcLZtzbH2',
  _type: 'category',
  _updatedAt: '2025-01-18T08:14:10Z',
  name: 'Tableware',
  slug: { _type: 'slug', current: 'tableware' }
}
Migrated product: The Poplar suede sofa (ID: nsxTqRv7y19rbYA81RdrML)
Migrating product: The Steel Chair
Category created successfully {
  _createdAt: '2025-01-18T08:14:13Z',
  _id: 'chairs-1',
  _rev: 'whpRLkwvxva49hcLZtzcM6',
  _type: 'category',
  _updatedAt: '2025-01-18T08:14:13Z',
  name: 'Chairs',
  slug: { _type: 'slug', current: 'chairs' }
}
Migrated product: The Steel Chair (ID: nsxTqRv7y19rbYA81Rdrqn)
Migrating product: Rustic Vase Set
Category created successfully {
  _createdAt: '2025-01-18T08:14:17Z',
  _id: 'plant-pots-2',
  _rev: 'UCe181y7ND8VpGNMM6I4LP',
  _type: 'category',
  _updatedAt: '2025-01-18T08:14:17Z',
  name: 'Plant Pots',
  slug: { _type: 'slug', current: 'plant-pots' }
}
```

Screenshot of Product Schema In Sanity:



ScreenShot Of Products Successfully Shown On FrontEnd Page:

Our Popular Products



The Popular Suede Sofa

\$980



The Dandy Chair

\$250



The Dandy Chair

\$250