Day 3 - API Integration Report - Avion

API Integration:

Step 01: API Endpoint Setup

- API Endpoint: https://hackathon-apis.vercel.app/api/products
- The API provides data for fields like: name, description, image, _id, features, dimensions, width, height, depth, category, slug, price, tags
- Axios was used to fetch the data from the given API.

Step 02: Fetch Data From The API

Code Snippets:

```
try {

// Fetch the image from the URL and convert it to a buffer

const response = await axios.get(imageUrl, { responseType: 'arraybuffer',timeout: 10000 });

const buffer = Buffer.from(response.data);

// Upload the image to Sanity

const asset = await client.assets.upload('image', buffer, {

filename: imageUrl.split('/').pop(), // Extract the filename from URL

});

// Debugging: Log the asset returned by Sanity

console.log('Image uploaded successfully:', asset);

return asset._id; // Return the uploaded image asset reference ID

catch (error) {

console.error('X Failed to upload image:', imageUrl, error);

return null
//throw error;

}

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```

Changes Made To Schemas:

Product Schema Modification:

Updation Of Fields:

Added The following fields in schema:

- Features
- Dimensions

Final Schema:

Migration Steps and Tools Used

Migration Steps

1. Environment Setup:

- Installed required dependencies: next-themes, @sanity/client, axios, dotenv, and any other necessary packages.
- Created and configured a .env.local file to store secure environment variables, such as API keys and other credentials.

2. Data Fetching:

- Retrieved data from an external API or local database, depending on project setup.
- Utilized axios to fetch relevant product or user data and logged the data to verify its structure and integrity.
- o API endpoint: https://hackathon-apis.vercel.app/api/products

3. Image Upload:

- Downloaded images from API response.
- Uploaded images to an external storage service or database (e.g., Sanity Asset Manager) using the appropriate client SDK.

Code snippet for image upload:

```
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Failed to connect to Pieces OS. Please en running and up to date. If the issue persists.
```

4. Document Creation:

- Created necessary documents (e.g., product listings, user profiles) within the database or content management system (e.g., Sanity).
- Combined API data with uploaded assets (e.g., image URLs) to construct and create records within the platform.

5. Testing and Debugging:

• Thoroughly tested the data fetching, image uploads, and document creation to ensure the end-to-end process worked smoothly.

 Addressed any issues with the API response, data format, or image handling during testing.

6. Final Integration:

- Integrated the migration with the rest of the project to ensure seamless interaction between the frontend and backend.
- Verified data consistency and accuracy, ensuring the migration aligned with the project's functionality.

Tools Used

- Next.js: Framework for building the web application.
- Sanity: Headless CMS for managing product or user data.
- Axios: HTTP client for fetching data from external APIs.
- dotenv: Environment variables management.
- Sanity Client: For interacting with the Sanity CMS and uploading assets.

Code Snippet:

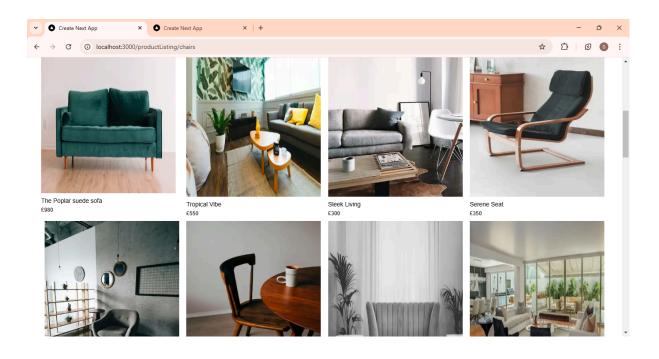
```
const sarityProduct = {
    __ids "product.s(counter); // Prefix the ID to ensure validity
    __inver: 'product';
    name: product.name,
    slug: {
    __type: 'slug',
    current: slugify(product.name)
    slug: {
        __type: 'refunct';
        __type: 're
```

API Call Output:

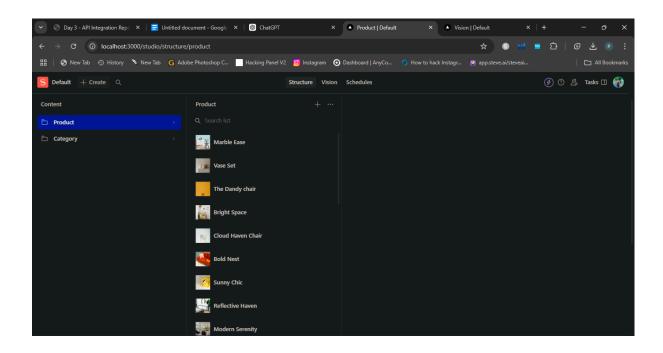
Screenshots:

```
CreatedAt: '2025-01-18T10:47:282',
_id: 'tablemane-1',
_rev: 'Max16/9591arfskpflvcl',
_type: category',
_updatedAt: '2025-01-8T19:11:322',
_name: 'Tablemane',
_slug: 'tablemane',
_slug:
```

Frontend Display:



Sanity CMS:



Final Checklist:

