Day 3 - API Integration Report

API Integration Process

I integrated the API for Avion, a marketplace, by connecting the backend REST APIs to the frontend using Next.js and Sanity.

1. APIs Used:

o Products API:

Endpoint: hackathon-template02/schema/product.ts at $main \cdot bilalmk/hackathon-template02 \cdot GitHub$

Categories API:

 $\label{lem:category:to:at:main:bilalmk/hackathon-template} Endpoint: \ \underline{\ \ hackathon-template} 02/schema/category.ts \ \underline{\ \ at: main:bilalmk/hackathon-template} 02 \cdot GitHub$

- 2. Steps Taken:
 - o Fetched data from the APIs using fetch in Next.js.
 - o Populated the data into Sanity Studio for content management.

Adjustments Made to Schemas

Product Schema - Fields

- 1. Category
- 2. Name
- 3. Slug
- 4. Image
- 5. **Price**
- 6. **Quantity**
- 7. Tags
- 8. **Description**
- 9. Features
- 10. Dimensions
 - Height
 - Width
 - o Depth

Category Schema -Fields

- 1. Name
- 2. Slug

These schemas were added to the /src/sanity/schemaTypes directory and imported into the index.ts file for use.

Migration Steps and Tools Used

1. Environment Setup:

- o Added sensitive data like API keys in a .env file:
- o NEXT PUBLIC SANITY PROJECT ID="<Project ID>"
- o NEXT PUBLIC SANITY DATASET="production"
- o NEXT_PUBLIC_SANITY_AUTH_TOKEN="<Auth Token>"

2. Migration Script:

- o Created an importSanitData.mjs file in the /scripts folder.
- Used the provided script to automate data transfer to Sanity.

3. Tools Used:

- o **dotenv**: To manage environment variables securely.
- o **npm**: To install and run dependencies.

4. Execution:

- o Installed the required packages using:
- o npm install dotenv
- o Ran the migration script with:
- o npm run importSanitData.mjs

Code Snippets

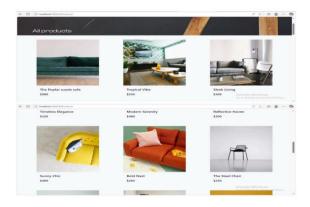
```
The content of the co
```

Screenshots

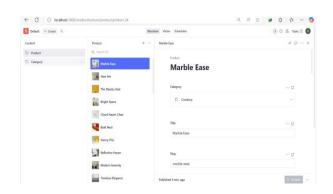
1. API Calls:



2. Frontend Display:



3. Sanity CMS:



Best Practices Followed

- 1. Used .env files to store sensitive data securely.
- 2. Followed clean coding practices with descriptive variable names and modular functions.
- 3. Validated data during migration using schemas.
- 4. Thoroughly documented all steps with screenshots and code snippets.
- 5. Committed changes frequently with clear messages.

Day 3 Checklist

- API Understanding: ✓
- Schema Validation: ✓
- Data Migration: ✓
- API Integration in Next.js: ✓
- Submission Preparation: ✓

Conclusion:

This report summarizes my progress on Day 3, covering API integration, schema adjustments, and data migration for the **AVIO N** marketplace.