Day 3 - API Integration and Data Migration Report

Introduction

The objective for Day 3 was to learn API integration and data migration. We used Next.js and Sanity CMS to build the marketplace backend, migrating data from provided API and displaying it on the frontend.

API Overview

The API used was for fetching product data. Key endpoint:

- `/products`: Product listings

Schema Validation

The Sanity CMS schema was compared with the API data structure, and necessary adjustments were made:

- Added a slug field in the schema for dynamic routing,allowing for easy navigation and linking to product pages

Data Migration

I used a method:

1. **API Migration**: A script was written to fetch data from the API and populate Sanity CMS.

API Integration in Next.js

- Created utility functions to fetch data from the API.
- Rendered the data in Next.js components.

Expected Output

- Data was successfully migrated to Sanity CMS.
- Product listings and categories were correctly displayed on the frontend.

Conclusion

API integration and data migration helped make the marketplace functional. Although there were some challenges, they were successfully handled.