

# Day 3 - API Integration and Data Migration

## Overview

On Day 3, the focus was on integrating APIs and migrating data into Sanity CMS to establish a functional backend for the Nike e-commerce website. The primary goal was to fetch product data from APIs, map it to the frontend UI, and migrate existing eCommerce data into Sanity CMS.

Key Achievements:

### 1. API Integration:

- Installed necessary dependencies like Axios.
- Successfully fetched and mapped product data (e.g., name, price, sizes, images) to the website's frontend.
- Implemented pagination for managing large datasets.

### 2. Data Migration:

- Transferred data into Sanity CMS by setting up schemas and running migration scripts.
- Ensured data consistency and integrity post-migration.

### 3. Error Handling and Debugging:

- Added logic to manage API response errors and schema mismatches during migration.

### 4. Testing and Deployment:

- Conducted testing to verify API functionality and UI data presentation.
- Deployed updates to the staging environment for review.

Challenges:

- Encountered API rate limits, addressed by caching strategies.
- Resolved inconsistent data formatting issues before migration.

Next Steps:

- Optimize API performance and enhance UI for real-time updates.
- Implement advanced filtering and sorting features for product data.





