# Day 3 - API Integration Report - Avion

## **API Integration Process**

### **API Data Migration to Sanity**

- Developed a migration script to fetch data from the external API.
- Used Axios to handle HTTP requests and responses.
- Transformed the fetched data into a format compatible with Sanity schemas.
- Populated the Sanity CMS database using the Sanity client library.



### Fetching Data in Next.js

- Created API routes in Next.js to query the Sanity CMS using GROQ queries.
- Utilized the @sanity/client library for connecting to the Sanity API.
- Served the queried data to frontend components through these

## Frontend Component Integration

- Implemented useEffect hooks to call the Next.js API routes and fetch data asynchronously.
- Managed state using React's useState for rendering the fetched data dynamically in the UI.

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#### **Adjustments Made to Schemas**

- Schema Customizations:
  - Added new fields to existing schemas to match the structure of the external API data
  - Modified validation rules to ensure data integrity.
  - Adjusted references between schemas to support relational data from the API.
- Example: Updated schema for a "Product" document:

```
import { defineType, defineField } from "sanity"
    export const product = defineType({
        name: "product",
title: "Product"
             defineField({
                 name: "category",
             defineField({
                name: "name",
title: "Title",
                  validation: (rule) => rule.required(),
             defineField({
                 name: "slug",
title: "Slug",
                 validation: (rule) => rule.required(),
             defineField({
                name: "image",
type: "image",
                  title: "Product Image"
              defineField({
                name: "price",
type: "number"
```

```
defineField({
    name: "quantity",
title: "Quantity",
defineField({
    name: "tags",
type: "array",
     name: 'description',
    name: 'features',
    type: 'array',
of: [{ type: 'string' }],
  defineField({
     name: 'dimensions',
       { name: 'depth', title: 'Depth', type: 'string' },
    description: 'Dimensions of the product',
```