DAY 3 - API INTEGRATION REPORT "Furniture Marketplace"

This documentation provides an overview of the work completed during Day 3 of API Integration and Migration. The focus of the day was on:

- Fetched data from external APIs
- Validated schemas
- Configured Sanity
- Displayed dynamic data on the frontend

Key Accomplishments:

- Successfully integrated APIs into the marketplace application.
- Migrated and optimized data to improve performance and scalability.
- Handled edge cases to ensure efficient and smooth data flows.
- Enhanced application performance through improved asynchronous
- operations.

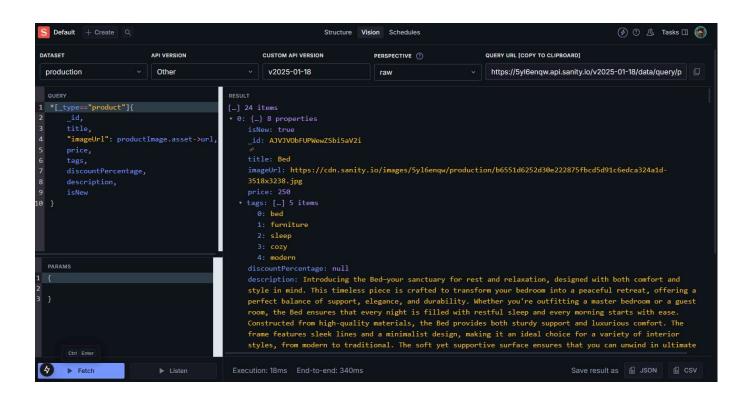
Sanity Schema for Product Below is the schema definition for the Product document in Sanity Studio:

```
import { ShoppingBagIcon } from "lucide-react";
import { defineType } from "sanity";
export const product = defineType({
   name: "product",
    title: "Product",
    type: "document",
    icon: ShoppingBagIcon,
    fields: [
             name: "title",
             title: "Title",
             validation: (rule) => rule.required(),
             type: "string"
             name: "description",
             type: "text",
             validation: (rule) => rule.required(),
             title: "Description",
             name: "productImage",
             type: "image",
validation: (rule) => rule.required(),
             title: "Product Image"
             name: "price",
             type: "number",
             validation: (rule) => rule.required(),
             title: "Price",
             name: "tags",
type: "array",
             title: "Tags",
of: [{ type: "string" }]
             name: "discountPercentage",
type: "number",
title: "Discount Percentage",
             name: "isNew",
             type: "boolean",
             title: "New Badge",
```

Groq:

API Fetching Code Snippet This is the API fetching code to retrieve Product data from Sanity:

```
const res = await client.fetch(groq`*[_type=="product"]{
    _id,
    title,
    "imageUrl": productImage.asset->url,
    price,
    tags,
    discountPercentage,
    description,
    isNew
}`);
```



ImportData.mjs

Importing Data to Sanity Below is the code snippet to upload product images and data to Sanity:

```
import { createClient } from '@sanity/client';
const client = createClient({
  projectId: 'your-projectId',
   dataset: 'production',
   useCdn: true,
   apiVersion: '2025-01-13',
   token: '<your-token>'
});
async function uploadImageToSanity(imageUrl) {
        console.log(`Uploading image: ${imageUrl}`);
        const response = await fetch(imageUrl);
        if (!response.ok) {
            throw new Error('Failed to fetch image: ${imageUrl}');
       const buffer = await response.arrayBuffer();
        const bufferImage = Buffer.from(buffer);
        const asset = await client.assets.upload('image', bufferImage, {
           filename: imageUrl.split('/').pop(),
        console.log(`Image uploaded successfully: ${asset._id}`);
        return asset. id;
    } catch (error) {
        console.error(`Failed to upload image:`, imageUrl, error);
        return null;
```

Final Results

