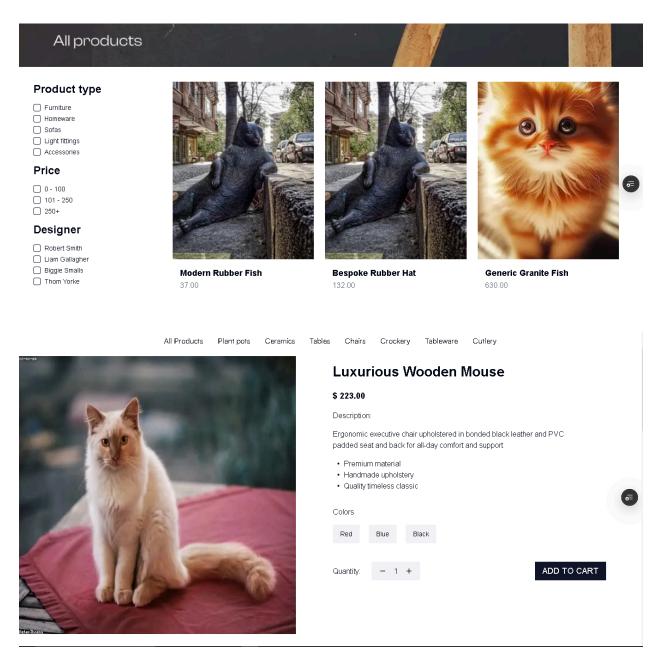
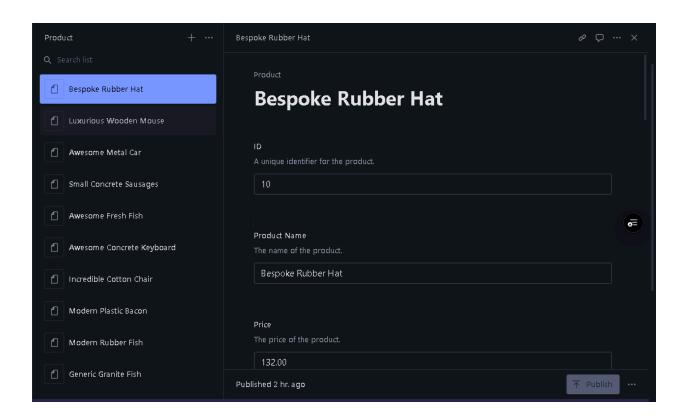
Day 3 - API Integration Report - [Avion]

1. Data displayed on the frontend.



2. Populated Sanity CMS fields.



Successful API calls.

```
TERMINAL
> next dev --turbopack
   ▲ Next.js 15.0.4 (Turbopack)
   - Local:
                   http://localhost:3000
   - Environments: .env.local
✓ Starting...

√ Ready in 2.7s

o Compiling / ...
 √ Compiled / in 9s
GET / 200 in 10296ms
o Compiling /favicon.ico ...

√ Compiled /favicon.ico in 627ms

GET /favicon.ico?favicon.45db1c09.ico 200 in 898ms

√ Compiled /products in 346ms

GET /products 200 in 453ms
o Compiling /api/products ...
√ Compiled /api/products in 1193ms
GET /api/products 200 in 1891ms
GET /api/products 200 in 357ms
```

Code Scripts Screen Shots:

```
import { client } from "@/sanity/lib/client";
import axios from "axios";
import { NextResponse } from "next/server";
import { nanoid } from 'nanoid';
 color: string; // Color of the product (e.g., "Red", "Blue")
size: string; // Size of the product (e.g., "S", "M", "L")
  quantity: number; // Available quantity for the specific color and size
interface Product {
 id: string;
  name: string;
  price: number;
  discountPercentage: number;
  image: string | string[];
  rating: string;
  tags: string[];
  description: string;
  variations: Variation[]; // Variations of the product with different colors, sizes, and quantities
const MOCK_API_URL = `${process.env.NEXT_MOCK_API}`;
```

```
app > api > products > 😘 route.ts > 😚 uploadImagesToSanity > 阔 assets > 😭 urls.map() callback
      async function uploadImagesToSanity(image: string | string[]) {
        if (!image) {
          console.warn("No image URLs provided.");
          return [];
        const urls = Array.isArray(image) ? image : [image];
        console.log("Processing the following URLs:", urls);
        const assets = await Promise.all(
          urls.map(async (url) => {
              console.log("Fetching image URL:", url);
              const response = await axios.get(url, { responseType: "arraybuffer" });
              console.log("Fetched image response status:", response.status);
              const buffer = Buffer.from(response.data, "binary");
              const asset = await client.assets.upload("image", buffer, {
                filename: `product_image_${Date.now()}.jpg`,
              });
              console.log("Successfully uploaded asset:", asset);
                _type: "image",
                _key: nanoid(),
                asset: { _type: "reference", _ref: asset._id },
              };
            } catch (error) {
              console.error(`Error uploading image from ${url}:`, error);
 56
              return null;
        );
        const filteredAssets = assets.filter(Boolean);
        console.log("Final filtered assets:", filteredAssets);
        return filteredAssets;
```

```
app > api > products > 🕇 route.ts > 😚 uploadImagesToSanity > 阔 assets > 😭 urls.map() callback
      export async function POST() {
        try {
          const { data: products } = await axios.get<Product[]>(MOCK_API_URL);
          console.log("Fetched products:", products);
          if (!Array.isArray(products) || products.length === 0) {
            return NextResponse.json(
              { success: false, error: "Invalid or empty product data" },
              { status: 400 }
            );
          async function delay(ms: number) {
            return new Promise((resolve) => setTimeout(resolve, ms));
          const sanityOperations = [];
          // First, delete all existing products
          // await client.delete({query: '*[_type == "product"]'});
          for (const product of products) {
            await delay(1000);
            console.log("Processing product:", product);
            console.log("Image URL:", product.image);
            const operation = (async () => {
              const images = await uploadImagesToSanity(product.image);
              const variations = product.variations.map((variation) => ({
                color: variation.color,
                size: variation.size,
                quantity: variation.quantity,
              }));
```

```
app > api > products > 😘 route.ts > 😚 uploadImagesToSanity > 🎮 assets > 😭 urls.map() callback
      export async function POST() {
            const operation = (async () => {
               const sanityProduct = {
                 _type: "product",
                id: `${product.id}`,
                name: product.name,
                price: product.price,
                 priceWithoutDiscount: product.price,
                 discountPercentage: product.discountPercentage,
                 description: product.description,
                images,
                ratings: product.rating,
                tags: product.tags,
                variations,
              };
              return client.createOrReplace({
                _id: `product-${product.id}`,
                ...sanityProduct,
            })();
120
            sanityOperations.push(operation);
          const results = await Promise.all(sanityOperations);
```

```
124
          console.log("Products synced successfully!");
126
          return NextResponse.json(
              success: true,
              message: "Products synced successfully!",
              data: results,
            },
            { status: 200 }
          );
        } catch (error) {
          console.error("Error syncing products:", error);
          return NextResponse.json(
              success: false,
              message: "Error syncing products",
              error: error instanceof Error ? error.message : String(error),
            { status: 500 }
          );
```

Fetching Products on Frontend:

```
const [products, setProducts] = useState<Product[]>([]);

useEffect(() => {
    fetch('/api/products')
    .then((res) => res.json())
    .then((data) => setProducts(data.data))
    .catch((error) => {
        console.error("Error fetching featured products:", error);
        });

};

[]);
```

Day 3 Checklist:

Self-Validation Checklist:

API Understanding: ✓ Schema Validation: ✓ Data Migration: ✓

API Integration in Next.js: 🗸

Submission Preparation: