Day 3 - API Integration Report - ShoeVibe

API Integration Process:

1. Sanity Backend Setup:

- Created and configured a Sanity project to serve as the backend for the application.
- Defined the required schemas (e.g., products, categories) in the Sanity studio for structured data storage.

2. Next.js API Routes:

- Created and configured a Sanity project to serve as the backend for the application.
- Defined the required schemas (e.g., products, categories) in the Sanity studio for structured data storage.

3. Fetching Data in the Frontend:

- Utilized fetch to make HTTP requests to the Next.js API routes from the frontend.
- Processed and displayed the data dynamically in the application.

Adjustments made to schemas:

Product Schema:

- Added fields such as id, name, description, price, category, and images.
- Used validation rules to ensure data consistency.

Migration Steps:

Data Preparation:

• Prepared mock product data in JSON format for migration.

Data Migration Script:

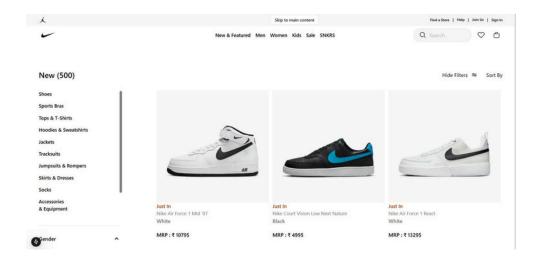
 Wrote a migration script in Next.js to push data into Sanity using @sanity/client.

Tools Used:

- Sanity Studio: For schema definition and backend management.
- @sanity/client: For interacting with Sanity backend.
- Next.js: To build API routes for fetching data.

Api Calls

Frontend



Sanity CMS fields

Code snippets for API integration

```
import { NextResponse } from 'next/server';
import { products } from '../../util/data';

export async function GET() {
    return new Response(JSON.stringify(products), {
        status: 200,
        headers: {
            "Content-Type": "application/json",
            "Cache-Control": "no-store",
            "X-Content-Type-Options": "nosniff",
        },
});
}
```

Code snippets for Migration Script

```
function importData() {
     console.log('migrating data please wait...');
     const response = await axios.get('http://localhost:3000/api/dat
     const products = response.data; // Assuming data is inside a
     console.log("products ==>> ", products);
     for (const product of products) {
       let imageRef = null;
       if (product.image) {
         imageRef = await uploadImageToSanity(product.image);
       const sanityProduct = {
         _type: 'product',
         id: product.id,
         productName: product.productName,
         category: product.category,
         price: product.price,
         inventory: product.inventory,
         colors: product.colors | [], // Optional, as per your sche
         status: product.status,
         description: product.description,
         image: imageRef ? {
           _type: 'image',
           asset: {
             _type: 'reference',
             _ref: imageRef,
         } : undefined,
        await client.create(sanityProduct);
     console.log('Data migrated successfully!');
     catch (error) {
     console.error('Error in migrating data ==>> ', error);
importData();
```