Day 3 API integration and migration report [Shop.co]

API integration process

API Selection

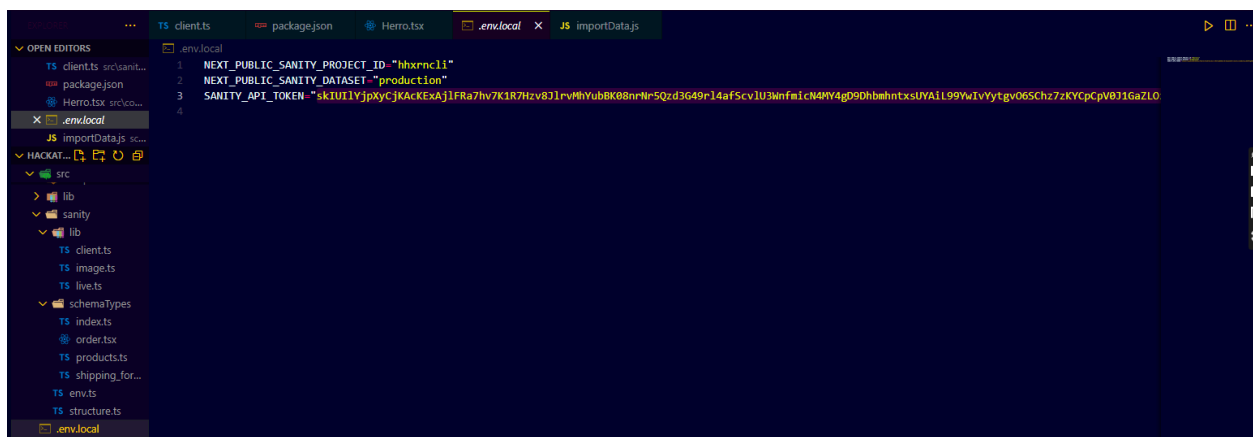- **API : https://template1-neon-nu.vercel.app/api/products**

- **Purpose: Fetching products data.**

Integration Steps

1. **Setup:**

   - **Installed required libraries (sanity, Axios,groq etc.).**

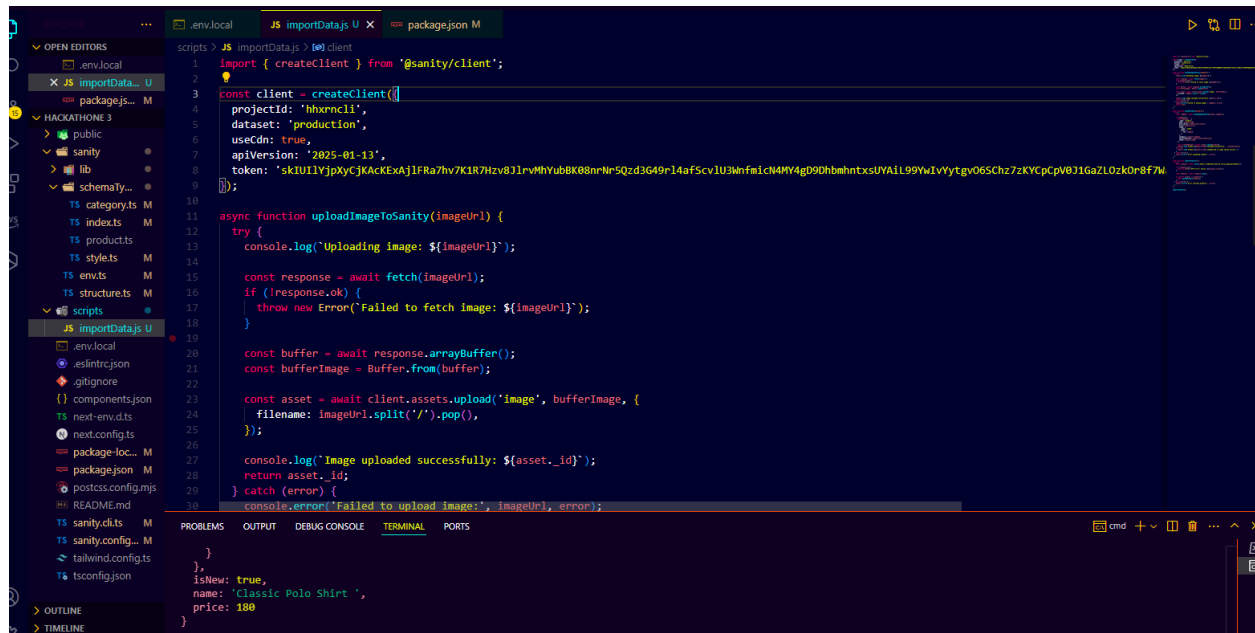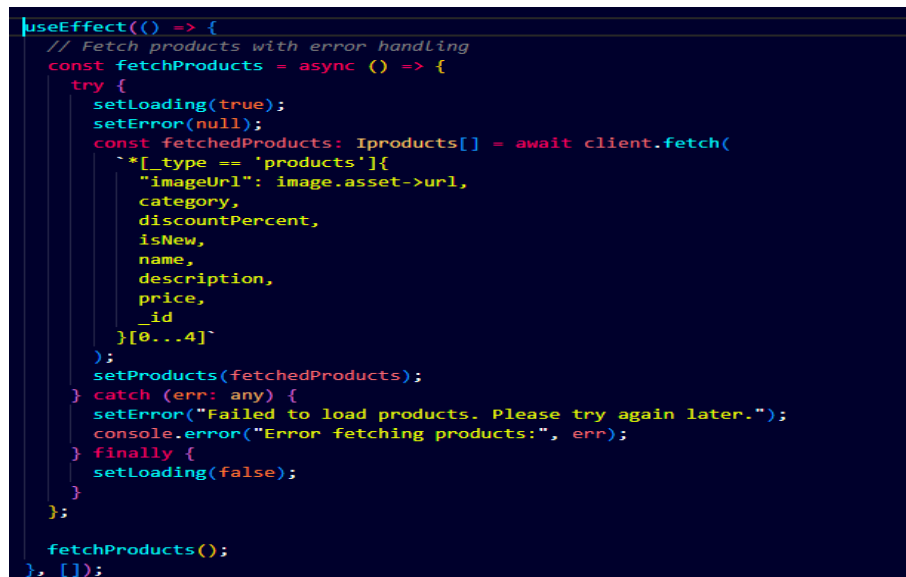   - **Configured environment variables in the .env file:**

Importing data from the external api and migrate it to sanity

```js
import { createClient } from '@sanity/client';

const client = createClient({
  projectId: 'hhxrncli',
  dataset: 'production',
  useCdn: true,
  apiVersion: '2025-01-13',
  token: 'skIUIlYjpXyCjKAcKExAjlFRa7hv7K1R7Hzv8JlrvMhYubBK08nrNr5Qzd3G49rl4afScvlU3WnfmicN4MY4gD9DhbmhntxsUYAiL99YwIvYytgvO6SChz7zKYCpCpV0J1GaZLOzkOr8f7W
});

async function uploadImageToSanity(imageUrl) {
  try {
    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);
```

```
    }
  },
  isNew: true,
  name: 'Classic Polo Shirt ',
  price: 180
}
```

Fetching Data:

- Highlight the API endpoint used and error handling

```tsx
useEffect(() => {
  // Fetch products with error handling
  const fetchProducts = async () => {
    try {
      setLoading(true);
      setError(null);
      const fetchedProducts: Iproducts[] = await client.fetch(
        `*[_type == 'products']{
          "imageUrl": image.asset->url,
          category,
          discountPercent,
          isNew,
          name,
          description,
          price,
          _id
        }[0...4]`
      );
      setProducts(fetchedProducts);
    } catch (err: any) {
      setError("Failed to load products. Please try again later.");
      console.error("Error fetching products:", err);
    } finally {
      setLoading(false);
    }
  };

  fetchProducts();
}, []);
```

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Migration steps and tool used(npm run import-data)

```json
{
  "name": "hammadshopco",
  "version": "0.1.0",
  "private": true,
  "type": "module",
  "scripts": {
    "dev": "next dev --turbo",
    "build": "next build",
    "start": "next start",
    "lint": "next lint",
    "import-data": "node scripts/importData.js"
  },
  "dependencies": {
    "@hookform/resolvers": "^3.10.0",
    "@radix-ui/react-accordion": "^1.2.2",
    "@radix-ui/react-checkbox": "^1.1.3",
    "@radix-ui/react-dialog": "^1.1.2",
    "@radix-ui/react-label": "^2.1.1",
    "@radix-ui/react-navigation-menu": "^1.2.1",
    "@radix-ui/react-slider": "^1.2.2",
    "@radix-ui/react-slot": "^1.1.1",
    "@reduxjs/toolkit": "^2.5.0",
    "@sanity/client": "^6.27.1",
    "@sanity/image-url": "^1.1.0",
    "@sanity/vision": "^3.71.2",
    "axios": "^1.7.9",
    "class-variance-authority": "^0.7.1",
    "clsx": "^2.1.1",
    "dotenv": "^16.4.7",
    "embla-carousel-react": "^8.5.1",
    "framer-motion": "^11.13.5",
    "lucide-react": "^0.468.0",
    "next": "^14.2.21",
```

```
  _createdAt: '2025-01-25T09:22:08Z',
  _id: '0zPjWAGkHgzUBjxT41EVq5',
  _rev: '0zPjWAGkHgzUBjxT41EVl1',
  _type: 'products',
  _updatedAt: '2025-01-25T09:22:08Z',
  category: 'tshirt',
  colors: [ 'White', 'Black', 'Green', 'Yellow' ],
  description: 'Classic Polo Shirt\n' +
    '\n' +
    'Upgrade your wardrobe with this timeless classic polo shirt, perfect for any occasion. Cr
afted from premium-quality fabric, it offers a soft, breathable, and comfortable fit that last
s all day. Featuring a stylish collar, button placket, and short sleeves, this versatile polo
blends elegance with a casual touch.\n' +
    '\n' +
    'Key features:\n' +
    '\n' +
    'Made with durable and lightweight material\n' +
    'Available in a variety of colors and sizes\n' +
    'Easy to pair with jeans, chinos, or shorts for a polished look\n' +
    'Ideal for work, casual outings, or weekend wear\n' +
    'Stay effortlessly stylish with this must-have polo shirt!',
  discountPercent: 0,
  image: {
    _type: 'image',
    asset: {
      _ref: 'image-fb62308b5fa5f6c0d5af2b40e5be28065c42454d-295x298-png'
    }
  },
  isNew: true,
  name: 'Classic Polo Shirt ',
  price: 180,
  sizes: [ 'L', 'XXL', 'S', 'M' ]
}

E:\Q2-nextjs\classassignments\hackathone 3>
```

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```javascript
async function importProducts() {
  try {
    const response = await fetch('https://template1-neon-nu.vercel.app/api/products');

    if (!response.ok) {
      throw new Error(`HTTP error! Status: ${response.status}`);
    }

    const products = await response.json();

    for (const product of products) {
      await uploadProduct(product);
    }
  } catch (error) {
    console.error('Error fetching products:', error);
  }
}

importProducts();
```

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🚀 Getting started   ⊞ Overview   👥 Members   ⊟ Studios   ⊟ Datasets   🔒 Access   ⌁ Activity   📊 Usage   ⚡ Plan   ⚡ API   ⚙ Settings

Webhooks

CORS origins

Tokens

CORS origins

Hosts that can connect to the project API.

+ Add CORS origin

ORIGIN	CREDENTIALS	CREATED	
http://localhost:3000	Allowed	18 hours	🗑
http://localhost:3333	Allowed	18 hours	🗑

Muhammad Hammad

DA   **day3api**

PLAN   STATUS   PROJECT ID
Growth Trial   Active   hhxrncli 📋

🚀 Getting started   ⊞ Overview   👥 Members   ⊟ Studios   ⊟ Datasets   🔒 Access   ⌁ Activity   📊 Usage   ⚡ Plan   ⚡ API   ⚙ Settings

Webhooks

CORS origins

Tokens

GROQ-powered webhooks

HTTP callbacks to a given URL triggered by changes in your content lake

+ Create webhook

0 of 2
webhooks
(2 included in plan)

↗ Learn more about webhooks   ⚡ Get more webhooks

🚀 Getting started   ⊞ Overview   👥 Members   ⊟ Studios   ⊟ Datasets   🔒 Access   ⌁ Activity   📊 Usage   ⚡ Plan   ⚡ API   ⚙ Settings

Webhooks

CORS origins

Tokens

Tokens

Tokens are used to authenticate apps and scripts to access project data.

+ Add API token

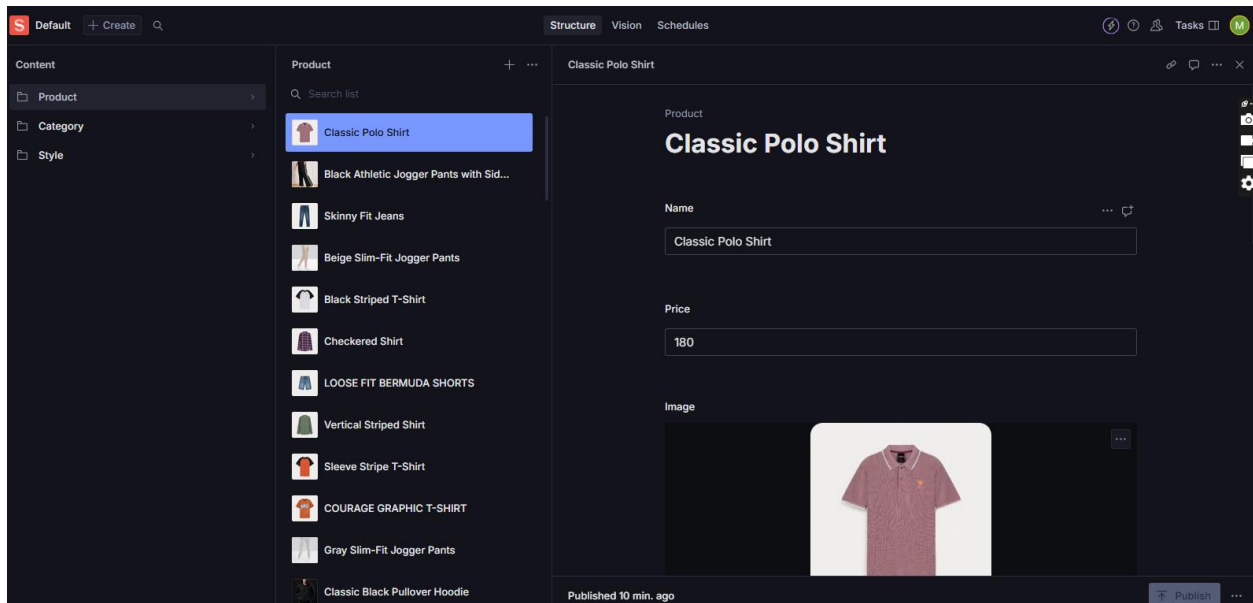| NAME	PERMISSIONS	CREATED	
daythree	Developer	0 seconds	🗑

Copy the token below – this is your only chance to do so!

skIUIlYjpXyCjKAcKExAjlFRa7hv7K1R7Hzv8JlrvMhYubBK08nrNr5Qzd3G49rl4afScvlU3WnfmicN4MY4gD
9DhbmhntxsUYAiL99YwIvYytgvO6SChz7zKYCpCpV0J1GaZLOzkOr8f7Wawzt4r8FUBTIJLcd2Vp2uVpa1HdGs
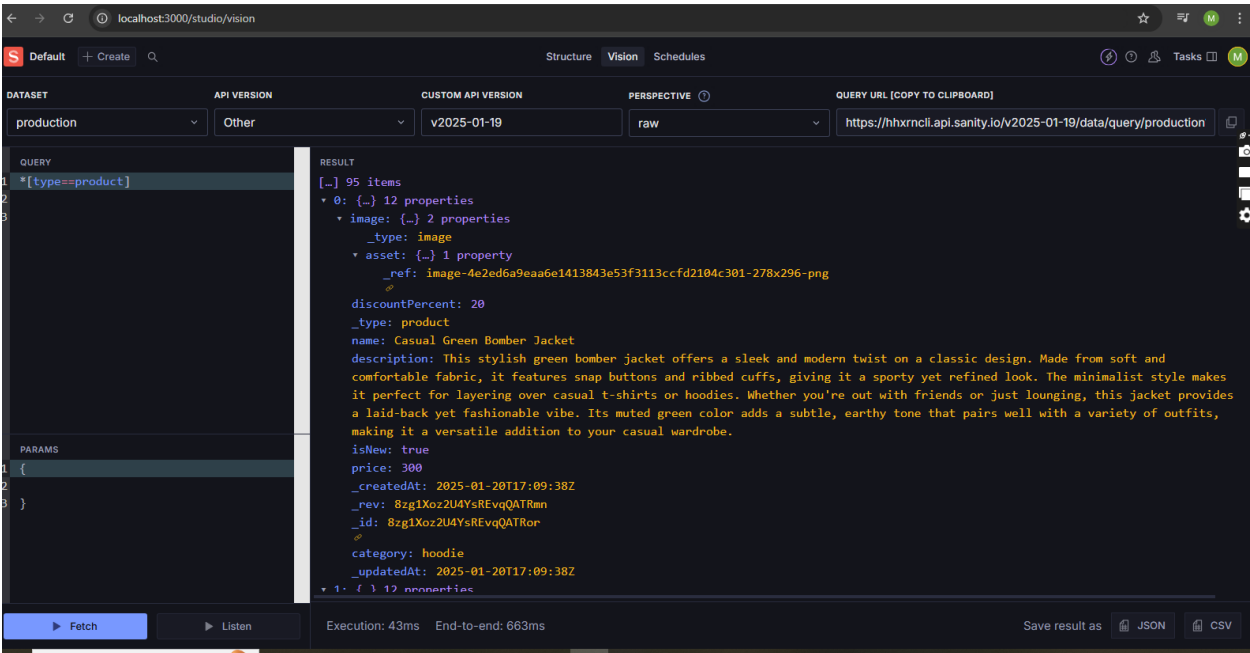3irYnFy7

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```
  _createdAt: '2025-01-25T09:22:08Z',
  _id: '0zPjWAGkHgzUBjxT41EVq5',
  _rev: '0zPjWAGkHgzUBjxT41EVl1',
  _type: 'products',
  _updatedAt: '2025-01-25T09:22:08Z',
  category: 'tshirt',
  colors: [ 'White', 'Black', 'Green', 'Yellow' ],
  description: 'Classic Polo Shirt\n' +
    '\n' +
    'Upgrade your wardrobe with this timeless classic polo shirt, perfect for any occasion. Cr
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s all day. Featuring a stylish collar, button placket, and short sleeves, this versatile polo
blends elegance with a casual touch.\n' +
    '\n' +
    'Key features:\n' +
    '\n' +
    'Made with durable and lightweight material\n' +
    'Available in a variety of colors and sizes\n' +
    'Easy to pair with jeans, chinos, or shorts for a polished look\n' +
    'Ideal for work, casual outings, or weekend wear\n' +
    'Stay effortlessly stylish with this must-have polo shirt!',
  discountPercent: 0,
  image: {
    _type: 'image',
    asset: {
      _ref: 'image-fb62308b5fa5f6c0d5af2b40e5be28065c42454d-295x298-png'
    }
  },
  isNew: true,
  name: 'Classic Polo Shirt ',
  price: 180,
  sizes: [ 'L', 'XXL', 'S', 'M' ]
}

E:\Q2-nextjs\classassignments\hackathone 3>
```

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NEW ARRIVALS

COURAGE GRAPHIC T-SHIRT
⭐⭐⭐⭐⭐
145 ⊖

Black Striped T-Shirt
⭐⭐⭐⭐⭐
120 ⊖

Classic Polo Shirt
⭐⭐⭐⭐⭐
180 ⊖

Sleeve Stripe T-Shirt
⭐⭐⭐⭐⭐
130 4⊖

View all

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Home > Shop > Mens T-shirts >

COURAGE GRAPHIC T-SHIRT
Size: S
Color: White
$145

— 1 +

THE END