

Hackathon Day 3

Integrating APIs & Migrating Data for the Clothing Platform

API Integration

To ensure smooth operations, various APIs will be incorporated to connect the frontend, backend, and external services. Below is an outline of their functionalities:

1. User Authentication API:

- Enables secure user registration, login, and account management.
- Uses JWT for secure and efficient session handling.

2. Sanity CMS API:

- Fetches dynamic content like product details and categories for the frontend.
- Supports backend operations to manage products and content updates.

3. Cart and Order Management API:

- Facilitates cart operations, such as adding/removing products and calculating totals.
- Sends order details, including user and payment information, to the backend for processing.

4. Payment Gateway API (e.g., Stripe):

- Processes payments securely during the checkout process.
- Confirms payments and updates order statuses upon completion.

5. Shipment Tracking API:

- Provides real-time updates on order shipping status.
- Integrates with delivery services for accurate tracking and delivery management.

Data Migration

To build a robust backend, existing data will be transferred to Sanity CMS in a structured and systematic way.

1. Preparation:

- Format product, user, and order data into CSV/JSON files compatible with Sanity CMS.
- Define schemas in Sanity for key entities, including:
 - **Products:** Attributes such as name, price, and stock.

- **Users:** Information like profiles and addresses.
- **Orders:** Details on items, costs, and status.

2. Migration Steps:

- Use tools like Sanity CLI or custom scripts to upload prepared data.
- Validate imported data to ensure accuracy and consistency.

3. Testing:

- Retrieve migrated data via the Sanity API to verify proper functionality.
- Test relationships, such as product-category links and user-order associations.

4. Ongoing Updates:

- Set up webhooks to sync new entries for products, users, or orders with the database.

By combining efficient API integration and data migration techniques, the platform will deliver a seamless, feature-rich experience for users.

TS products.ts U X

```
1 import { defineType } from "sanity"
2
3 export default defineType({
4   name: 'products',
5   title: 'Products',
6   type: 'document',
7   fields: [
8     {
9       name: 'name',
10      title: 'Name',
11      type: 'string',
12    },
13    {
14      name: 'price',
15      title: 'Price',
16      type: 'number',
17    },
18    {
19      name: 'description',
20      title: 'Description',
21      type: 'text',
22    },
23    {
24      name: 'image',
25      title: 'Image',
26      type: 'image',
27    },
28    {
29      name: "category",
30      title: "Category",
31      type: 'string',
32      options: {
33        list: [
```

importData.js U X

```
1 import { createClient } from '@sanity/client';
2
3 const client = createClient({
4   projectId: '5c09f643',
5   dataset: 'production',
6   useCdn: true,
7   apiVersion: '2025-01-13',
8   token:
    'skawVDVATysRQWdyfD5rH5GaZ61qrxWg3ZQ1BX6XrbZ41E4dvLMfytjWYyDAda5DzNeKchqfrt5PKmhCdi7bTZxGooGaMQ9PrfIIeqAoNphGwwu
    qVQqc9wXJTUI8uvYsJcy1Qn5RA0GwIirHG3SVj0PRVI6dG0lho911S',
9 });
10
11 async function uploadImageToSanity(imageUrl) {
12   try {
13     console.log(`Uploading image: ${imageUrl}`);
14
15
16     const response = await fetch(imageUrl);
17     if (!response.ok) {
18       throw new Error(`Failed to fetch image: ${imageUrl}`);
19     }
20
21     const buffer = await response.arrayBuffer();
22     const bufferImage = Buffer.from(buffer);
23
24     const asset = await client.assets.upload('image', bufferImage, {
25       filename: imageUrl.split('/').pop(),
26     });
27
28     console.log(`Image uploaded successfully: ${asset._id}`);
29     return asset._id;
30   } catch (error) {
31     console.error('Failed to upload image:', imageUrl, error);
```

production

Other

v2025-01-17

raw

https://5c09f643.api.sanity.io/v2025-01-17/data/query/production?c

QUERY

1 `*[type==product]`

PARAMS

1 {

2

3 }

RESULT

```
[...] 95 items
  0: {...} 12 properties
    discountPercent: 0
    _createdAt: 2025-01-17T20:13:16Z
    name: Classic Black Long Sleeve Button-Down Shirt
    description: This sleek black button-down shirt is the epitome of style and versatility. Designed with a tailored fit, it provides a sharp, refined look that's perfect for both professional and casual settings. The long sleeves and crisp collar offer a classic silhouette, while the lightweight fabric ensures comfort throughout the day. Whether worn at the office, for a dinner out, or dressed down with jeans, this black shirt adds a polished touch to any outfit. A must-have wardrobe staple for those who appreciate clean lines and timeless style.
    isNew: true
    image: {...} 2 properties
      _type: image
      asset: {...} 1 property
        _ref: image-bf90016048d092bb666f4ef422994de58797a8e8-183x275-jpg
        _rev: 9pIJ000PMKhFhzCfbMwMoBo
        _type: product
        _id: 9pIJ000PMKhFhzCfbMwMoFb
        category: shirt
        _updatedAt: 2025-01-17T20:13:16Z
        price: 190
    1: {...} 12 properties
```

Products



Beige Slim-Fit Jogger Pants



Search list



Classic Polo Shirt



Black Athletic Jogger Pants with Side S...



Skinny Fit Jeans



Beige Slim-Fit Jogger Pants



Black Striped T-Shirt



Checkered Shirt



LOOSE FIT BERMUDA SHORTS



Vertical Striped Shirt



Sleeve Stripe T-Shirt



COURAGE GRAPHIC T-SHIRT

Name

Beige Slim-Fit Jogger Pants

Price

269

Description

These beige jogger pants combine comfort and style with their relaxed yet modern fit. Designed with an elastic waistband and cuffed ankles, they provide a sleek, slim silhouette while offering a casual, sporty look. The soft fabric ensures all-day comfort, making them perfect for lounging or running errands. The neutral beige color adds versatility, allowing for easy pairing with a variety of tops. Whether you're pairing them with a t-shirt or a hoodie, these joggers are a must-have staple for a stylish, laid-back outfit.

Filters



- T-shirts >
- Shorts >
- Shirts >
- Hoodie >
- Jeans >

Price



Colors



Size



Casual

Showing 1-10 of 100 Products Sort by: Most Popular



Gradient Graphic T-shirt
★★★★☆ 3.5/5
\$145



Polo with Tipping Details
★★★★☆ 4.5/5
\$180



Black Striped T-shirt
★★★★★ 5.0/5
\$105 ~~\$150~~ -30%

