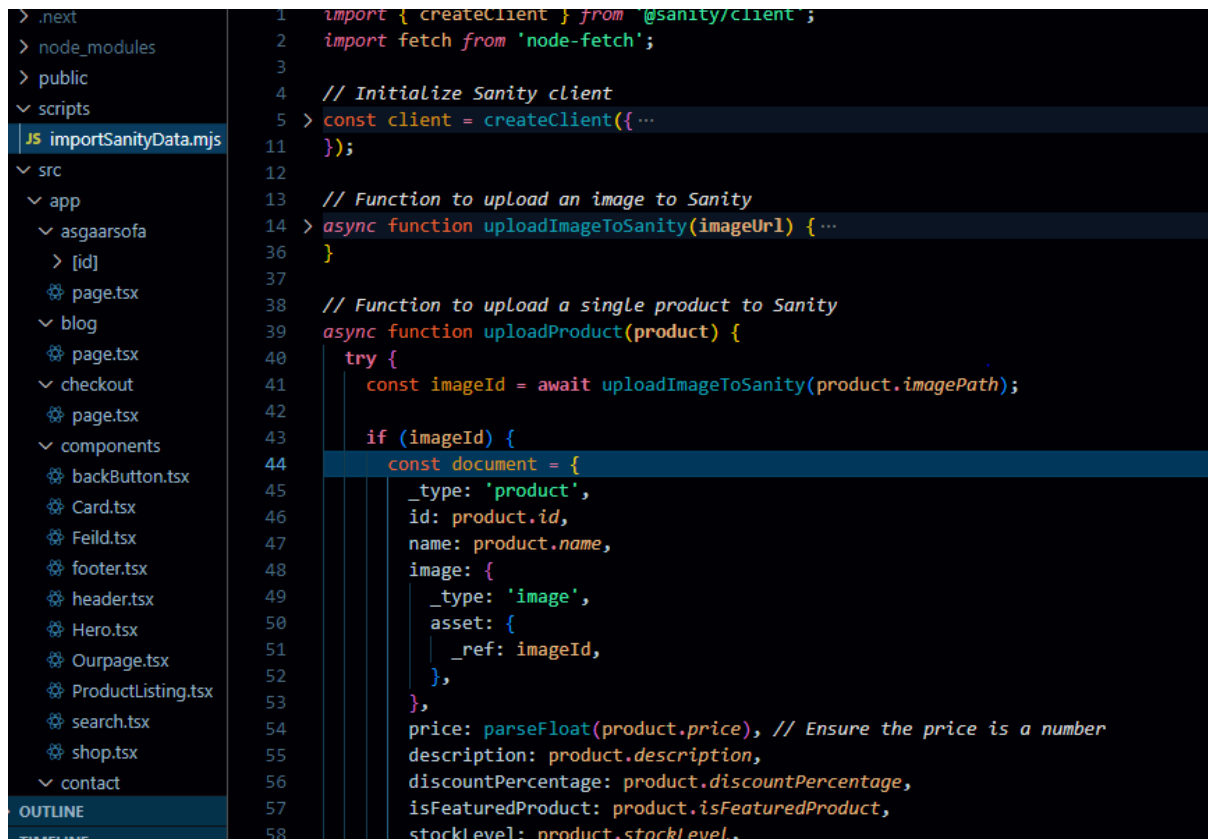


Day 3: API Integration & Data Migration for Furniture Marketplace

Custom Migration Code



```
1 import { createClient } from '@sanity/client';
2 import fetch from 'node-fetch';
3
4 // Initialize Sanity client
5 > const client = createClient({ ...
11 });
12
13 // Function to upload an image to Sanity
14 > async function uploadImageToSanity(imageUrl) { ...
36 }
37
38 // Function to upload a single product to Sanity
39 async function uploadProduct(product) {
40   try {
41     const imageId = await uploadImageToSanity(product.imagePath);
42
43     if (imageId) {
44       const document = {
45         _type: 'product',
46         id: product.id,
47         name: product.name,
48         image: {
49           _type: 'image',
50           asset: {
51             _ref: imageId,
52           },
53         },
54         price: parseFloat(product.price), // Ensure the price is a number
55         description: product.description,
56         discountPercentage: product.discountPercentage,
57         isFeaturedProduct: product.isFeaturedProduct,
58         stockLevel: product.stockLevel,
```

The custom migration code is used to transfer data from the old system to Sanity CMS.

- After validating and transforming the data, it is inserted into Sanity.
- This ensures that the data is consistent and free from duplication.

2. Sanity API Setup

- The Sanity API client is configured in the `sanity/lib/client.ts` file.
- Required fields:
 - `projectId`: Unique Sanity project ID
 - `dataset`: Sanity dataset (e.g., `production`)
 - `apiVersion`: API version
 - `useCdn`: Set to `true` for performance optimization
- Authentication API keys are securely stored in environment variables.

3. Client Page Code

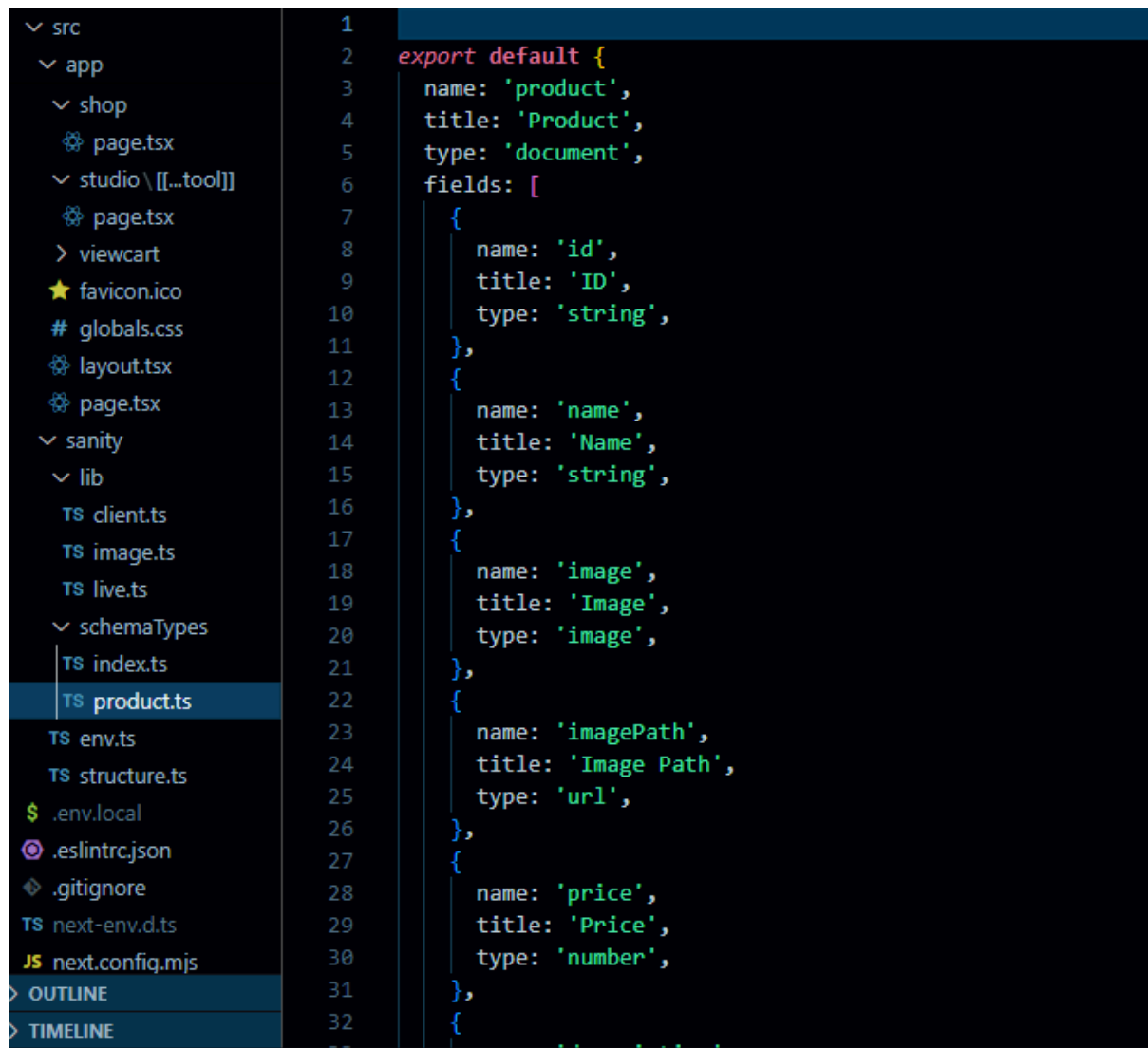
- The client page fetches product data from Sanity.
- Asynchronous functions are used to efficiently handle API calls.

- Real-time updates are implemented to dynamically display products.

```
1 import { createClient } from 'next-sanity'
2
3 import { apiVersion, dataset, projectId } from '../env'
4
5 export const client = createClient({
6   projectId,
7   dataset,
8   apiVersion,
9   useCdn: true, // Set to false if statically generating pages, using ISR or tag-based revalidation
10 })
11
```

Schema Code

- The schema defines the structure of data in Sanity CMS.
- It ensures data validation and consistency.

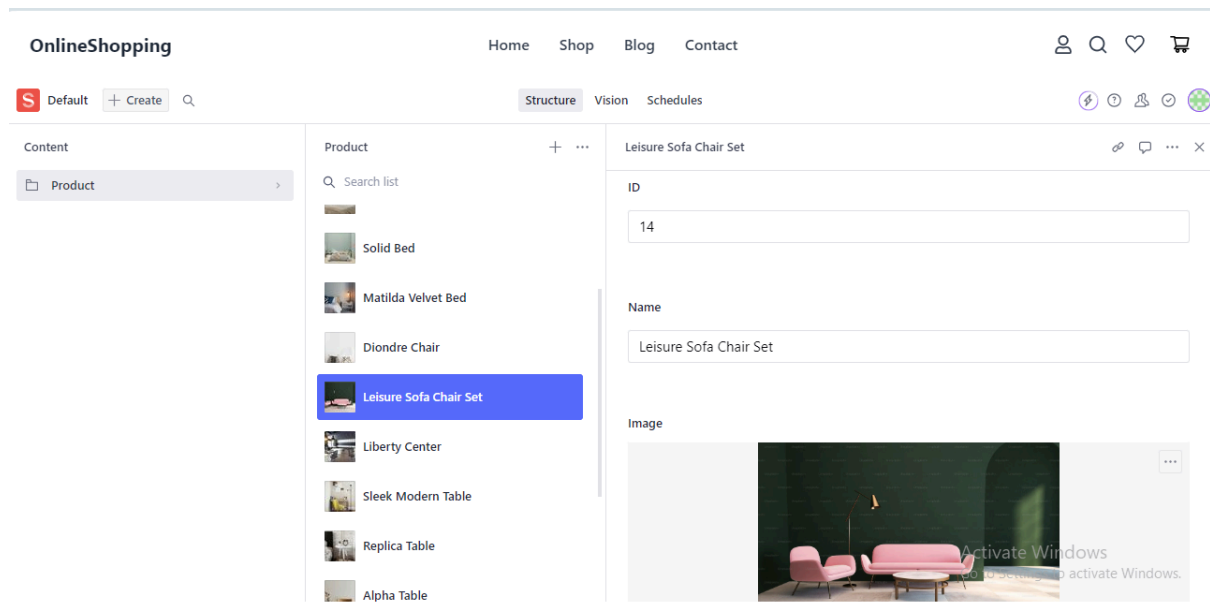


```
1
2 export default {
3   name: 'product',
4   title: 'Product',
5   type: 'document',
6   fields: [
7     {
8       name: 'id',
9       title: 'ID',
10      type: 'string',
11    },
12    {
13      name: 'name',
14      title: 'Name',
15      type: 'string',
16    },
17    {
18      name: 'image',
19      title: 'Image',
20      type: 'image',
21    },
22    {
23      name: 'imagePath',
24      title: 'Image Path',
25      type: 'url',
26    },
27    {
28      name: 'price',
29      title: 'Price',
30      type: 'number',
31    },
32  ],
33 }
```

Key Fields:

- id: Unique product ID
- name: Product name
- image: Sanity image type
- price: Numeric value representing the price
- description: Short description of the product

Sanity Product Schema



The Sanity schema for furniture products is defined based on the following fields:

- id: Unique identifier
- name: Product name
- image: Sanity image object
- imagePath: URL of the product image
- price: Product price (numeric format)
- material: Material of the product (wood, metal, plastic, etc.)
- category: Product category (chair, table, sofa, etc.)