Urban Loom:

API Integration and Data Migration Report



Overview of Urabn Loom:

Urban Loom is a modern e-commerce platform specializing in high-quality furniture for contemporary homes. The website is designed to provide an intuitive user experience where customers can explore various furniture categories, view detailed product information, and make well-informed purchase decisions. By leveraging cutting-edge technology like **Sanity CMS**, the platform ensures a seamless backend system for managing and retrieving data.

1: Validation and Schema Field Checking:

In Urban Loom, Sanity CMS ensures that all product, category, and sales data is validated before being saved. This prevents errors by checking that all required fields are filled out correctly.

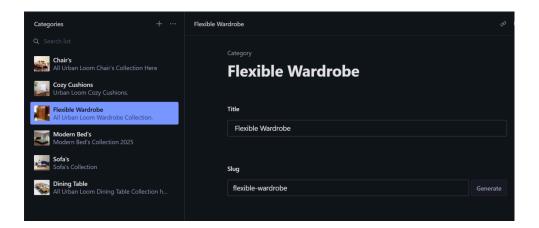
1.0: Field Validation:

- Each schema (product, category, sales) defines mandatory fields like name, price, and category etc .
- Sanity CMS will automatically validate these fields when creating or updating entries, preventing incomplete data from being saved.

Category Schema Type:

```
sanity > schemaTypes > 🔣 categoryType.ts > ...
 import {TagIcon} from '@sanity/icons' 140.6k (gzip
  import {defineField, defineType} from 'sanity' 311
export const categoryType = defineType({
  name: 'category',
    title: 'Category
   type: 'document',
  icon: TagIcon,
    fields: [
    defineField({
      name: 'title',
        type: 'string',
      }),
      defineField({
       name: 'slug',
        type: 'slug',
        options: {
          source: 'title',
      defineField({
        name: 'description',
        type: 'text',
      defineField({
       name: "image",
```

In Sanity:



2: Data Management and Queries :

This document details the backend logic and data fetching implementation for the "Urban Loom" furniture e-commerce website, focusing on the usage of Sanity CMS and utility functions.

2.0: Queries and Data Fetching:

The data in "Urban Loom" is fetched from Sanity CMS using custom queries and utility functions. These are structured to handle product data, categories, and search functionalities efficiently.

2.1: Fetching Function Like This:

2.2: Queries Implementation:

3: Sanity Integration:

The project uses Sanity CMS for seamless content management and data handling. The integration involves :

3.0: Functional API Implementation:

- · Queries defined in query.ts enable dynamic data retrieval.
- These are executed through utility functions in main.ts, ensuring structured and reusable logic.

3.1: Dynamic Content Rendering:

- Fetched data is dynamically rendered on the frontend using JavaScript and TypeScript components.
- · Sanity's flexibility allows for easy updates and scalability.

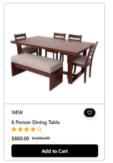
3.2: Schema Validation:

- Sanity schemas ensure consistent data structure for products, categories, and sales.
- Validation prevents errors during query execution.

Product Listing Image:

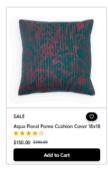
In Urban Loom, product images are dynamically displayed on the product listing page. Each product has an associated image, which is fetched from Sanity CMS and rendered on the website.









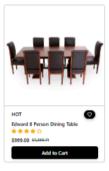




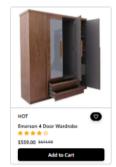
















Thanks For Viewing