Day 3: API Integration and Data Migration for FurnitureHub MarketPlace

This documentation outlines the work completed on Day 3 of the FurnitureHub MarketPlace hackathon. It covers custom migration,data integration and sanity, schema creation,and displaying data using GROQ queries in the NextJS application.each section is tailored based on the provided code images..

Custom Migration Code

The migration code is responsible for transferring data from the sanity CMS to the FurnitureHub database.the custom migration script performs the following steps

```
📢 File Edit Selection View Go Run …
                                                                 P e-commerce-website
                                                                                                     88~
     EXPLORER ... JS importSanityData.mjs U X
    > blog
                            async function uploadImageToSanity(imageUrl) {

✓ cart

       console.log(`Uploading image: ${imageUrl}`);
p
       > checkOut
                              const response = await fetch(imageUrl);
if (!response.ok) {
       > components •
                                throw new Error(`Failed to fetch image: ${imageUrl}`);
       👺 page.tsx
       > fonts
                              const buffer = await response.arrayBuffer();
const bufferImage = Buffer.from(buffer);
       > myAccount

✓ product \ [slug] 

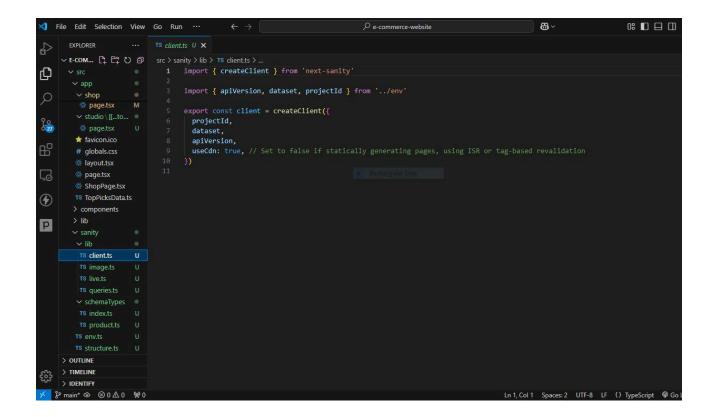
                               const asset = await client.assets.upload('image', bufferImage, {

✓ shop

                                filename: imageUrl.split('/').pop(),
       page.tsx
       ∨ studio \ [[...to... □
    > OUTLINE
                               console.log(`Image uploaded successfully: ${asset._id}`);
    > TIMELINE
```

Client Page Code

This is the client-side code for rendering the FurnitureHub data in a NextJS page:Here's the code:



Schema Code

The schema defines the structure of the FurnitureHub content in the Sanity CMS.

```
XI File Edit Selection View Go Run …
                                                                    P e-commerce-website
                                                                                                          88~
    name: 'name',
type: 'string',
title: 'Name',
                       # globals.css

    ⇔ layout.tsx
    ⇔ page to:

page.tsx
      rs TopPicksData.ts

components

lib
(
p
                              },
{
   name: 'image',
   type: 'image',
   title: 'Image',
   options: {
        TS queries.ts U

✓ schemaTypes

       TS index.ts U

TS product.ts U
    > OUTLINE
    > TIMELINE
```

TopPicks Card Code

This code represents the design and functionality 4 furniture toppicks card code:

```
File Edit Selection View Go Run ...
                                                                                                                                                                                  0: 🔲 🗏

    ▼ TopPicks.tsx M ×

∨ E-COMMERCE-WEBSITE

                                   src > app > components > 🎡 TopPicks.tsx > 🐼 TopPicks
                                  src > app > components > @ TopPicks.tx > [@] TopPicks

1     import React, { useEffect, useState } from 'react'
2     import { Product } from '../../types/products'
3     import { client } from '@/sanity/lib/client'
4     import { fourPro } from '@/sanity/lib/queries'
5     import { unlfor } from '@/sanity/lib/image'
6     import Image from 'next/image'

✓ asgardSofa

          > blog

✓ cart

    ⇔ page.tsx M

           > checkOut

⇔ Hero.tsx

    ⇔ Heroone.tsx
    ⇔

①
                                                  async function fetchproduct(){
                                                       const fetchproduct: Product[]= await client.fetch(fourPro)
           Instagram.tsx
                                                         setProduct(fetchproduct)
p

    ★ Newarrivals... M

                                                     fetchproduct()

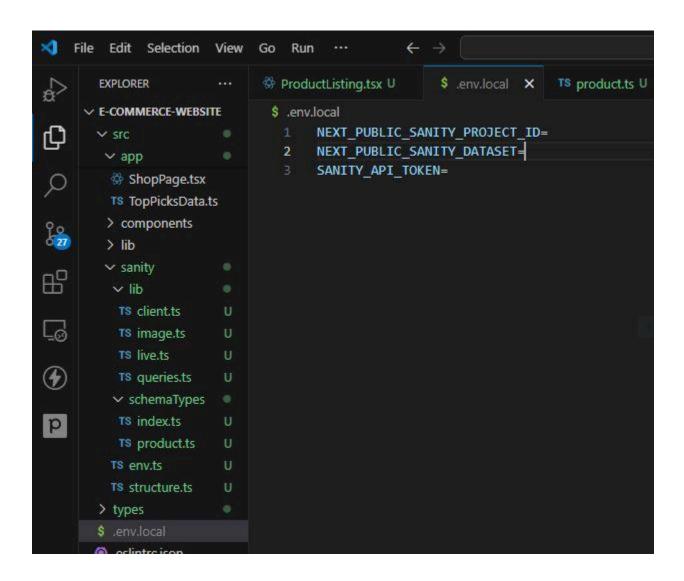
    ⇔ Pagination.tsx U

∨ contact

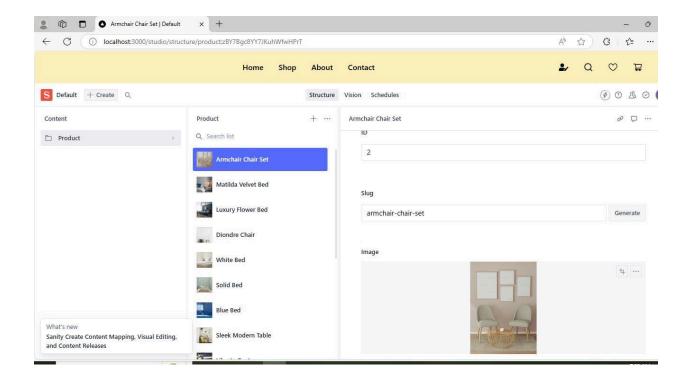
           page.tsx
           > myAccount
                                                          <div className='text-center mb-12'>
                                                         > OUTLINE
                                                          <div className='grid sm:grid-cols-2 grid-cols-1 lg:grid-cols-4 gap-8'>
      > TIMELINE
                                                              {product.map((product)=>
                                                                    oduct.map((product)=> (
<div key={product._id} className='flex flex-col items-center text-center space-y-4':
```

Environment Variable

The .env.local file includes sensitive configuration for the FurnitureHub application.key entries:

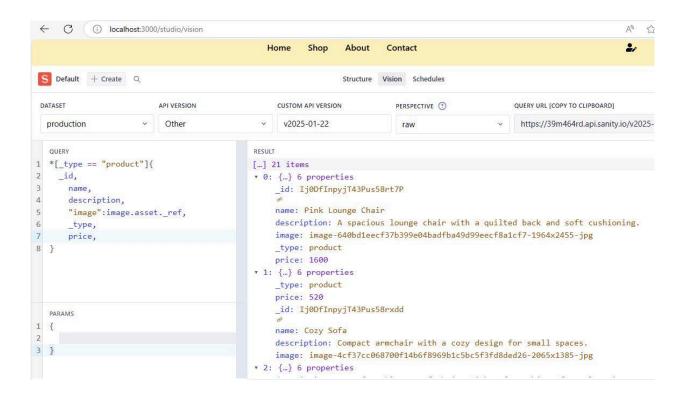


Sanity Product Schema

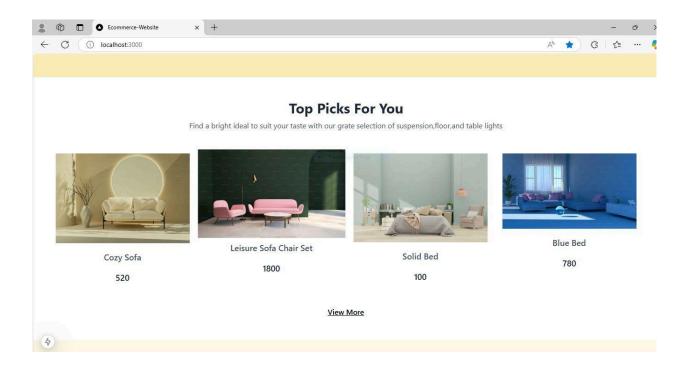


Frontend Integration

Each field in the schema is accessible via GROQ queries, allowing developers to fetch the exact data they need. For example:



Show Products in UI



Day 3 Checklist

Day 3 Checklist:

Self-Validation Checklist:

API Understanding:

✓ or X

Schema Validation:

✓ or X

Data Migration:

✓ or X

API Integration in Next.js:

✓ or X

Submission Preparation:

✓ or X