Day 3 - API Integration Report - Premium Furniture & Decor Marketplace

Introduction: Day 3 ka task API integration aur data migration ka tha. Is task me sanity studio ke sath data fetch karna, schemas ko add karna, aur Next.js project me successfully integrate karna shamil tha. Neeche is process ki puri detail likhi gayi hai.

Process Explanation:

1. GitHub Repository Clone:

- o Mujhe ek GitHub repository ka link diya gaya tha.
- o Maine repo clone kiya using:
- o git clone https://github.com/bilalmk/hackathon-template02.git
- o cd sanity-migration folder
- o npm install

2. Sanity Studio Setup:

- o Project ID aur Token ko apne project ke "sanity.config.js" me add kiya.
- o Jo schema files provide ki gayi theen unko schemas folder me add kiya.

3. Schemas Creation:

- Do files create ki:
 - product.ts
 - category.ts
- O Dono files me required fields ko define kiya.
- o index.ts me dono schemas ko import kiya.
- O Initially error aya tha, lekin "export default" ka issue resolve karke schema successfully integrate kar liya.

4. Data Import:

- Data import karne ke liye importData.js script di gayi thi.
- Script ko run kiya using:
- node importData.js
- Sanity CMS me fields populate ho gayi theen.

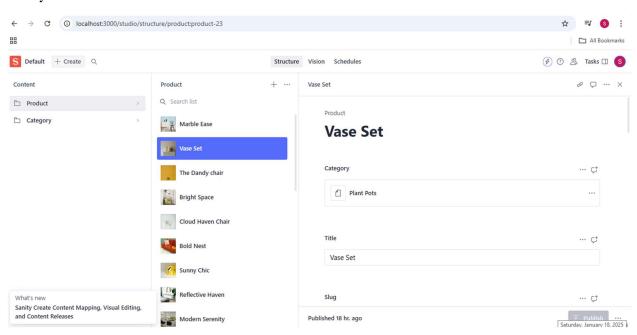
5. API Integration in Next.js:

- Provided schemas ko Next.js ke All Products page me fetch kiya.
- O Data ko display karne ke liye Client-Side Rendering (CSR) ka istamaal kiya gaya, jisme useEffect aur Sanity ke client ko dynamic data fetch karne aur render karne ke liye istemal kiya gaya. Sanity client ke liye imported environment variables (apiVersion, dataset, projectId) ka use kiya gaya hai, jo environment-specific configuration ke liye flexibility provide karte hain.

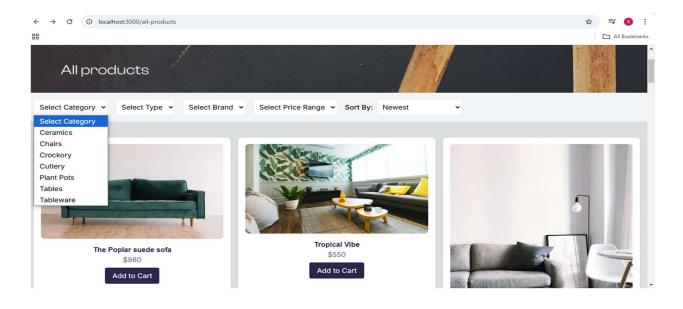
6. Successful Output:

- o Sanity Studio me data show ho raha ha.
- o Frontend page par products aur categories ka data render ho gaya ha.

Sanity Studio



Frontend Data



Sanity.js

```
JS sanityClientjs M X
sanity-migration > JS sanityClientjs > ...

1     "use strict";
2     var _importDefault = (this && this._importDefault) || function (mod) {
3         return (mod && mod._esModule) ? mod : { "default": mod };
4     };
5     Object.defineProperty(exports, "_esModule", { value: true });
6     exports.client = void 0;
7     // sanityClient.ts
8     const client_1 = require("@sanity/client");
9     const dotenv_1 = _importDefault(require("dotenv"));
10     dotenv_1.default.config();
11     exports.client = (0, client_1.createClient)({
12         projectId: 'l8fj6qdu', // Replace with your project ID
13         dataset: 'production', // or your dataset name
14         apiVersion: '2024-01-04', // Today's date or latest API version
15         useCdn: false, // Disable CDN for real-time updates
16         token: "sknUQfFSbk6vZTMR1yQlDLUl6wWlG2dIKZosANVMZ0lI6VbMRSDqmLCCKdANudUw2Dfid6cSJGgPQ9x2ug1PkQpMJi08bjuuD58c

});
18
```

SCHEMAS

Category.ts

```
import { defineType, defineField } from 'sanity'
const Category = defineType({
 name: 'category',
 title: 'Category',
 type: 'document',
 fields: [
   defineField({
     name: 'name',
     type: 'string',
     validation: (rule) => rule.required(),
   defineField({
    name: 'slug',
     title: 'Slug',
     type: 'slug',
     validation: (rule) => rule.required(),
     options: {
       source: 'name',
export default Category
```

Product.ts

```
product.ts U ×
                                                                                                                                                                      ₩ ...
c > sanity > schemaTypes > TS product.ts > [@] product > [%] fields
     name: 'category',
title: 'Category',
type: 'reference',
to: [
             name: 'name',
title: 'Title',
validation: (rule) => rule.required(),
           }),
defineField({
   'slug
             name: 'slug',
title: 'slug',
validation: (rule) => rule.required(),
type: 'slug',
           }),
defineField({
              name: 'image',
               type: 'image',
                validation: (rule) => rule.required(),
               title: 'Product Image',
        }),

defineField({
               name: 'price',
                validation: (rule) => rule.required(),
             }),
defineField({
             name: 'quantity',
title: 'Quantity',
               type: 'number',
               validation: (rule) => rule.min(0),
             defineField({
              name: 'tags',
type: 'array',
title: 'Tags',
             defineField({
   name: 'description',
   title: 'Description',
   type: 'text',
   description: 'Detailed description of the product',
                rinerielu({
name: 'Features',
title: 'Features',
type: 'array',
of: [{ type: 'string' }],
description: 'List of key features of the product',
              }),
defineField({
                )
1.
3)
        export default product
```

All Product Page

Conclusion: Day 3 ke task me API integration aur data migration ka kaam successfully complete ho gaya. Har step ko samajhne aur implement karne ke baad data ko Sanity Studio aur Next.js ke frontend me render kar liya gaya.