Hackathon Day 3 - API Integration and Data Migration

With Sanity CMS

API Integration

- **API Integration**: Connect external APIs for product management, user authentication, and payment processing.
- **Data Migration**: Move content from Sanity CMS to the new system and ensure correct frontend display.

Outcome: Fully functional features and accurate data on the marketplace.

API Integration Steps:

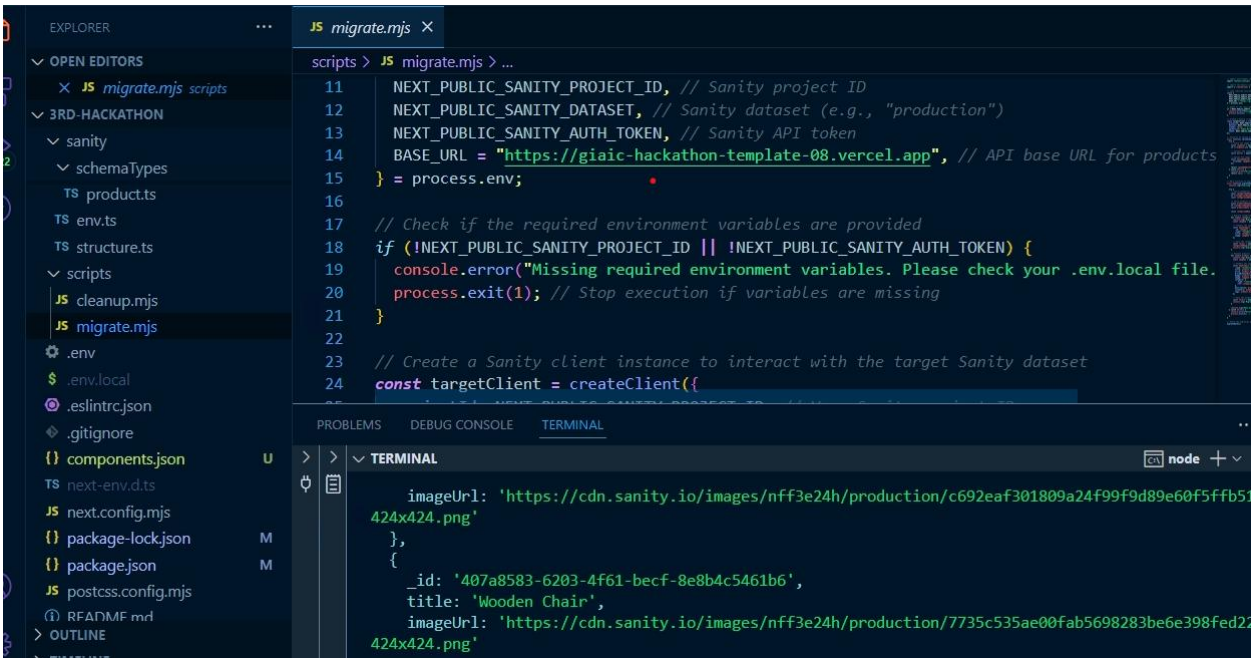
1. **Define Endpoints**:
    - Identify API endpoints for products, orders, customer data, and payment systems (e.g., EasyPaisa, JazzCash).
2. **Sanity Integration**:
    - Use the Sanity client to manage product, customer, and order data.
    - Create schema models and queries to fetch necessary data.
3. **API Communication**:
    - Utilize Axios or the fetch API to interact with external APIs.
    - Ensure efficient data fetching in frontend components.
4. **Error Handling**:
    - Implement robust mechanisms for handling API request errors.
    - Display clear, user-friendly error messages for failed operations.
5. **Data Mapping**:
    - Accurately format API data for proper frontend display.
    - Migrate any required legacy data for compatibility.
6. **Testing**:
    - Validate API responses thoroughly.
    - Perform end-to-end testing to ensure smooth platform functionality.

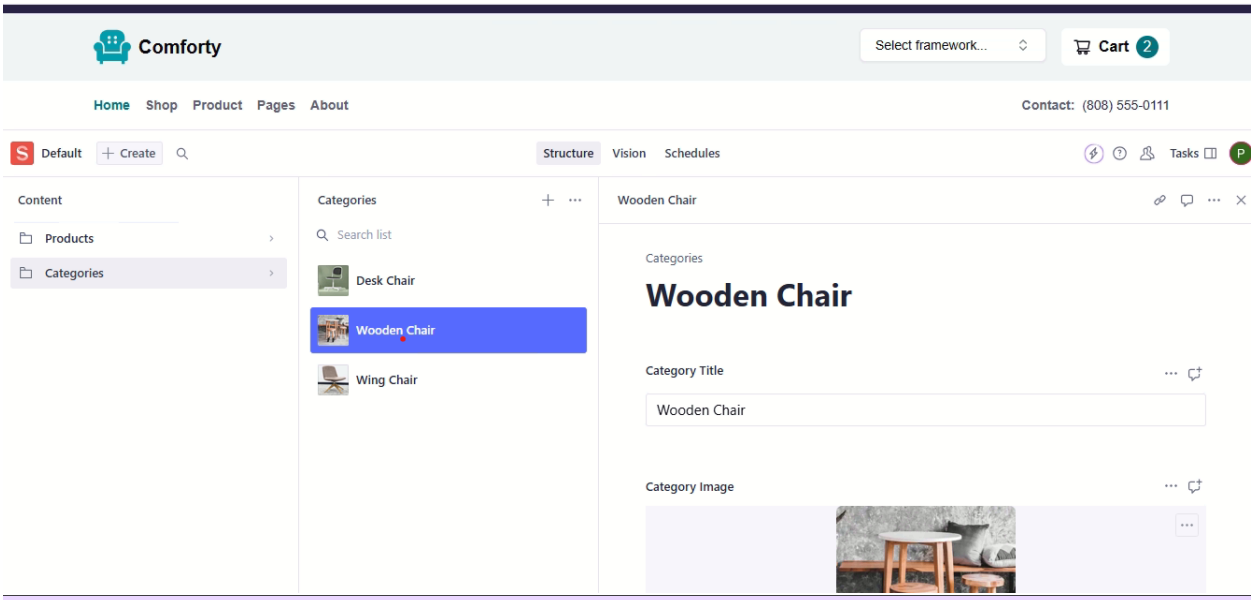
Outcomes:

- Successfully integrated APIs with key functionalities operational.
- Sanity content migrated and accurately reflected on the frontend.

Migration Workflow and Resources Utilized:

1. **Data Structuring**:
    - Organize product details into the new Sanity schema, including fields like category, price, stock, and description.
2. **Migration Execution**:
    - Deploy a customized migration script to transfer data seamlessly from the legacy system or CSV files into Sanity CMS.
3. **Sanity Toolkit**:
    - Leverage the Sanity CLI for efficient dataset imports, exports, and management tasks.
4. **Validation and Testing**:
    - Conduct thorough checks to ensure data accuracy, integrity, and proper relationships within the migrated datasets.

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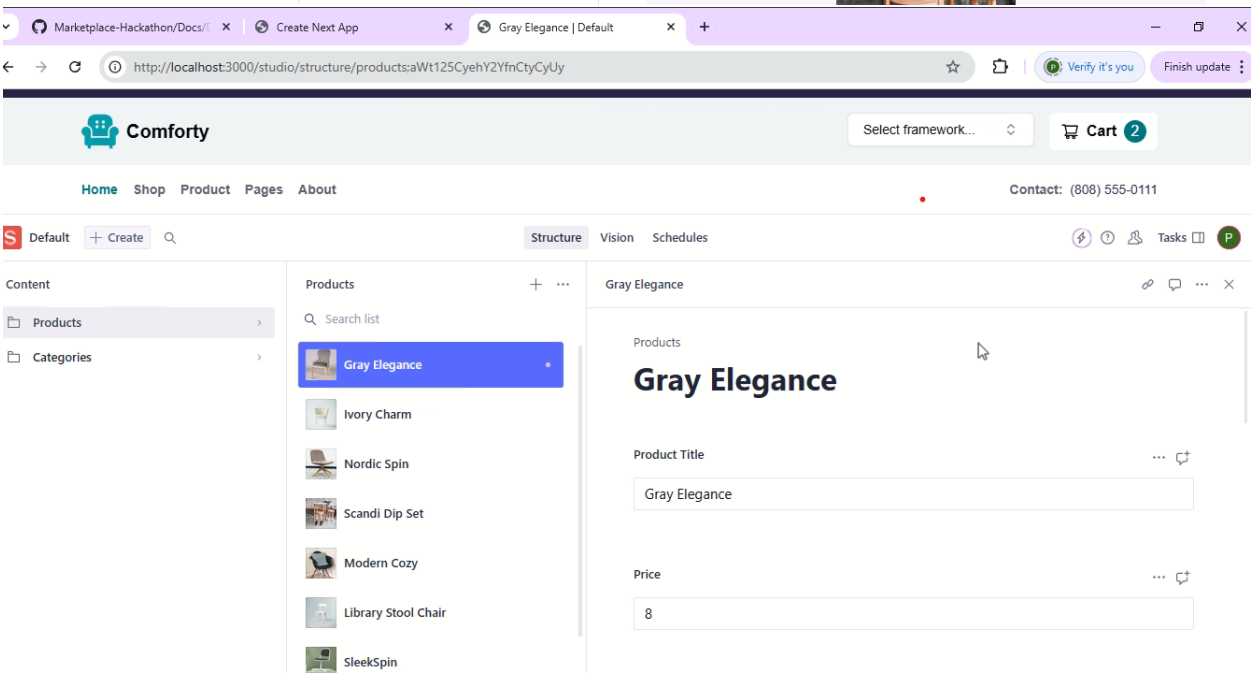
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Verify it's you
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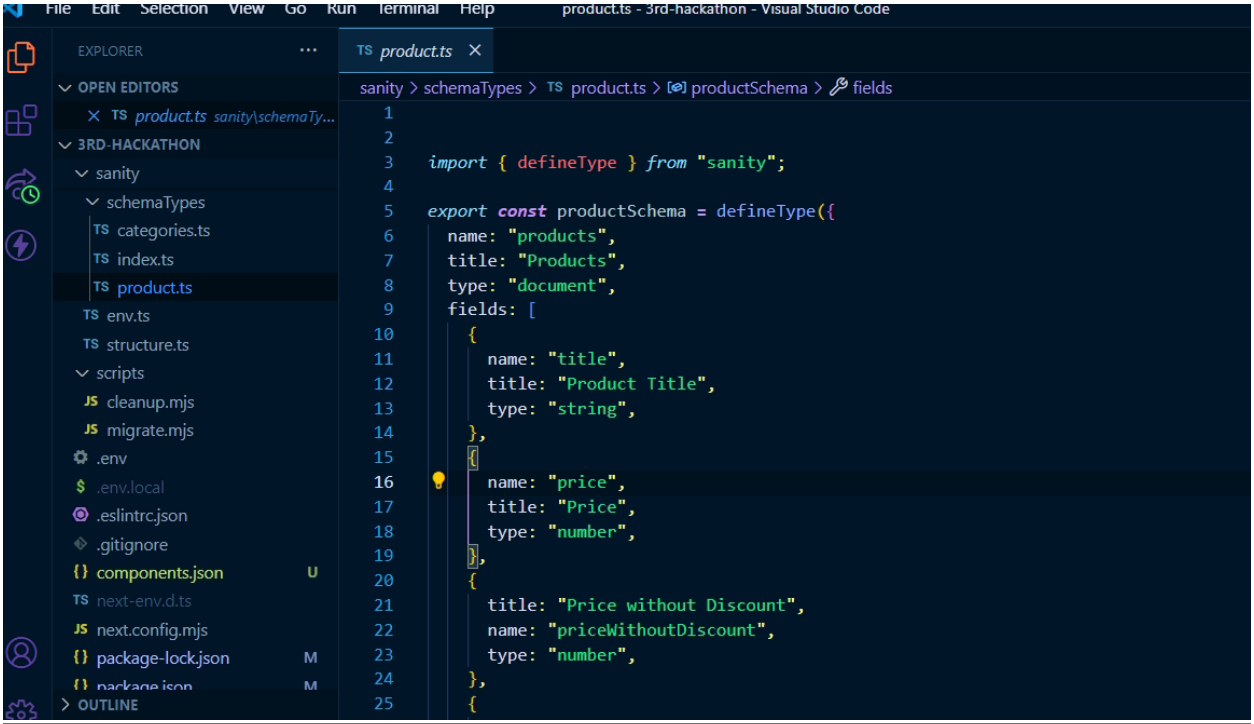
File Edit Selection View Go Run Terminal Help
product.ts - 3rd-hackathon - Visual Studio Code
EXPLORER
OPEN EDITORS
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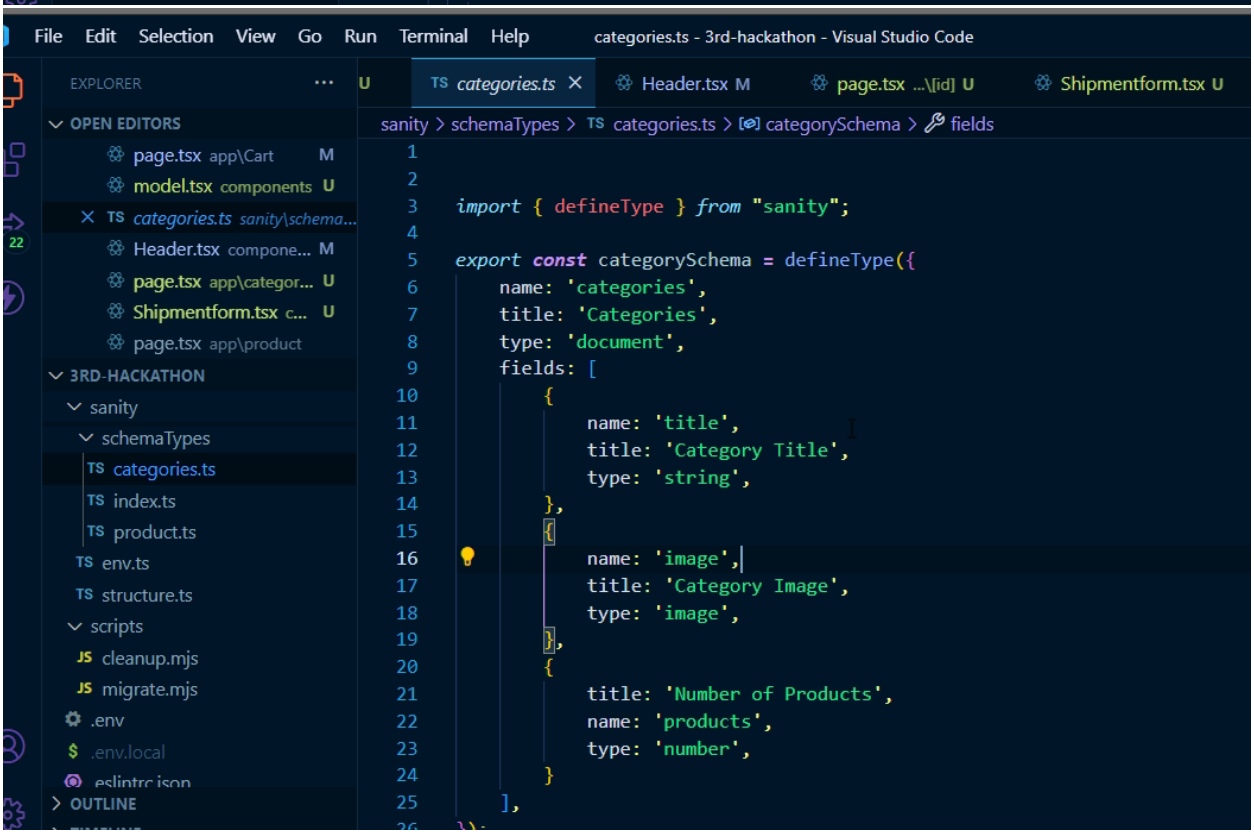
3RD-HACKATHON
sanity
schemaTypes
categories.ts
index.ts
product.ts
env.ts
structure.ts
scripts
cleanup.mjs
migrate.mjs
.env
.env.local
.eslintrc.json
.gitignore
components.json U
next-env.d.ts
next.config.mjs
package-lock.json M
OUTLINE
product.ts
sanity > schemaTypes > product.ts > productSchema > fields
import { defineType } from "sanity";
export const productSchema = defineType({
name: "products",
title: "Products",
type: "document",
fields: [
{
name: "title",
title: "Product Title",
type: "string",
},
{
name: "price",
title: "Price",
type: "number",
},
{
title: "Price without Discount",
name: "priceWithoutDiscount",
type: "number",
},
{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categories.ts - 3rd-hackathon - Visual Studio Code
EXPLORER
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Shipmentform.tsx c... U
page.tsx app\product
3RD-HACKATHON
sanity
schemaTypes
categories.ts
index.ts
product.ts
env.ts
structure.ts
scripts
cleanup.mjs
migrate.mjs
.env
.env.local
.eslintrc.json
OUTLINE
categories.ts
Header.tsx M
page.tsx ...\[id] U
Shipmentform.tsx U
sanity > schemaTypes > categories.ts > categorySchema > fields
import { defineType } from "sanity";
export const categorySchema = defineType({
name: 'categories',
title: 'Categories',
type: 'document',
fields: [
{
name: 'title',
title: 'Category Title',
type: 'string',
},
{
name: 'image',
title: 'Category Image',
type: 'image',
},
{
title: 'Number of Products',
name: 'products',
type: 'number',
}
],

All products