Day 3 - API Integration and Data Migration
With Sanity CMS

API Integration Summary

Objective: The goal for Day 3 is to complete API integration and migrate data for the marketplace. Key tasks include:

1. Integrating external APIs for features like product management, user authentication, and payment processing.
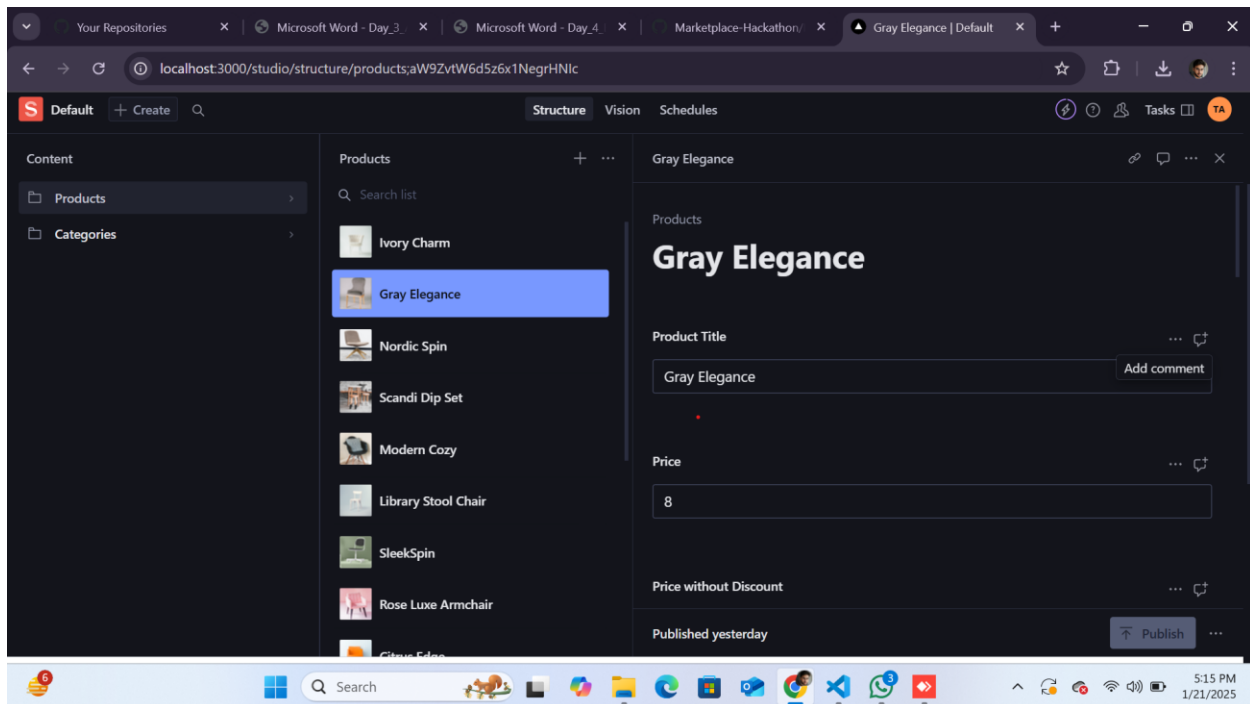2. Migrating content from Sanity (your CMS) to ensure accurate and smooth frontend display.

API Integration Steps:

1. Define Endpoints:
   - o Identify API endpoints for products, orders, customer data, and payment systems (e.g., EasyPaisa, JazzCash).
2. Sanity Integration:
   - o Utilize the Sanity client to manage product, customer, and order data.
   - o Create schema models and queries to fetch required data.
3. API Communication:
   - o Use Axios or the fetch API for interacting with external APIs.
   - o Handle data fetching efficiently within frontend components.
4. Error Handling:
   - o Implement robust error handling mechanisms for API requests.
   - o Display clear and user-friendly error messages for any failed operations.
5. Data Mapping:
   - o Ensure API data is accurately formatted and displayed on the frontend.
   - o Migrate any necessary legacy data for compatibility.
6. Testing:
   - o Validate API responses thoroughly.
   - o Conduct end-to-end testing to ensure seamless functionality across the platform.

Migration Workflow and Resources Utilized:

1. **Data Structuring**:

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

```
4    import { AiOutlineShoppingCart } from "react-icons/ai";
5
6    const getData = async () => {
7      const fetchData = await client.fetch(`*[_type == "products"] {
8        _id, title, price,
9        "imageUrl": image.asset->url
10     }`);
11     return fetchData;
12   };
13
14   interface SanityData {
15     _id: string;
16     title: string;
17     imageUrl: string;
18     price: number;
19   }
20
21   const Productlist = async () => {
22     const SanityData = await getData();
23     console.log(SanityData);
```

```
    },
    {
      _id: 'aW9ZvtW6d5z6x1NegrHLWc',
      title: 'Library Stool Chair',
      price: 20,
      imageUrl: 'https://cdn.sanity.io/images/4ke77056/production/da30e4081507761b5b7558807735f8f17756c9c3-624x624.png'
    },
```


SleekSpin

$20

Nordic Spin

$30

Library Stool Chair

$20

Modern Cozy

$20