Day 4 - Building Dynamic Frontend Components for Your Marketplace

Objective:

The goal of this task was to develop dynamic frontend components to display marketplace data fetched from Sanity CMS or APIs, ensuring a scalable, reusable, and responsive design.

Project Implementation Details

1. API Integration & Data Fetching

- Successfully fetched product data from Sanity CMS using API.
- Implemented server-side rendering (SSR) and client-side fetching where necessary.

2. Authentication System

- Implemented user authentication for secure access.
- Only registered users can view, add, and manage products.

3. Dynamic Product Listing Component

- Created a grid-based layout to display products dynamically.
- Each product includes:
  - o Image
  - o Name
  - o Price
  - o Description

4. Reusability & State Management

- Used modular components for scalability.
- Managed application state effectively to ensure smooth UI updates.

5. Responsive Design & UI/UX Improvements

- Fully mobile-friendly and responsive across all devices.
- Applied modern styling for an enhanced user experience.

6. Sanity CMS Integration

- Integrated Sanity CMS as the backend for product management.
- Enabled dynamic content updates without modifying code.

7. Error Handling & Debugging

- Implemented proper error handling mechanisms for API requests.
- Logged errors efficiently for debugging and maintenance.