API INTEGRATION PROCESS AND SCHEMA ADJUSTMENT REPORT

1. API Integration Process

Setting Up API Access

- ✓ Configured API keys and access credentials for secure communication between the Next.is application and Sanity.
- ✓ Added CORS policy in Sanity to allow requests from Vercel and localhost.

Fetching and Displaying Data

- ✓ Integrated Sanity's client library (@sanity/client) in the Next.js project.
- ✓ Implemented data fetching in shop and product detail pages using Sanity's GROQ queries.
- ✓ Used getServerSideProps and useEffect to fetch real-time data dynamically.

Handling Authentication and Security

- ✓ Enabled credentials in API requests to allow secure data fetching.
- ✓ Adjusted API permissions in Sanity to allow read and write operations as required.

2. Schema Adjustments

• Product Schema Updates

- ✓ Added fields for description, price, images, category, and stock availability.
- ✓ Included references to relate products with categories dynamically.

• Product Detail Schema

- ✓ Created a separate productDetail schema to store additional information like dimensions, materials, and customer reviews.
- ✓ Linked productDetail schema with product schema using references.

• Product and Order Schema Enhancements

- ✓ Introduced Product schema to manage user-selected products.
- ✓ Modified order schema to include payment status and delivery tracking.

3. Migration Steps and Tools Used

Data Export and Backup

- ✓ Used Sanity's CLI (Sanity Dataset export) to export existing data before making modifications.
- ✓ Created a backup of schema definitions and dataset configurations.

• Schema Migration

- ✓ Updated schema definitions in schemas folder of the Sanity project.
- ✓ Used sanity deploy to push new schema changes.

• Data Migration

- ✓ Utilized Sanity's GROQ queries to transform and migrate data to new schemas.
- ✓ Manually adjusted entries where necessary to ensure data integrity.

• Testing and Validation

- ✓ Verified API responses using Postman and Sanity Studio.
- ✓ Checked front-end integration with updated data structures.

Tools Used

- ✓ Sanity CLI (Sanity Dataset, Import/Export, Sanity Deploy)
- ✓ Postman for API testing.
- ✓ Next.is & React DevTools for debugging.
- ✓ GitHub for version control and rollback options.

These integrations and adjustments ensure seamless data management and a smooth user experience in the furniture website.