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ROLLNO;00498560
CLASS TIMING:MON(2-5PM)

DAY:3 API INTEGRATION

API Integration Report

API Integration Steps:

1. Integrated **Product** and **Category APIs**:

Fetched data from APIs using fetch() in the migration script. o Validated the API responses to ensure they matched the schema fields in Sanity CMS.

2: Updated Sanity Schemas: o Resolved field conflicts between manually created schema and API response. o Modified fields in products and categories schemas to align with API structure:

▪ Products Schema Adjustments: ▪ Added priceWithoutDiscount, badge, tags, etc. ▪ Categories Schema Adjustments: ▪ Added image as a reference field for category images. o Ensured proper relationships between products and categories.

3: 3. Implemented Migration Script: o Created migrate.mjs to automate data migration. o Used the Sanity client to upload images and save product and category data.

DATA MIGRATION STEPS

1. **Set Up Sanity in Your Next.js Project**
   Ensure Sanity is integrated with your Next.js project and all necessary dependencies are installed.
2. **Export Data from the Source Sanity Project**
   Use the Sanity CLI to export your dataset to a file.
3. **Set Up the Target Sanity Project**
   Create or prepare the target Sanity project or dataset for migration.
4. **Import Data into the Target Dataset**
   Import the exported dataset file into the new Sanity project or dataset using the Sanity CLI.
5. **Update API Configuration in Next.js**
   Update your Next.js project to connect to the new Sanity project or dataset.

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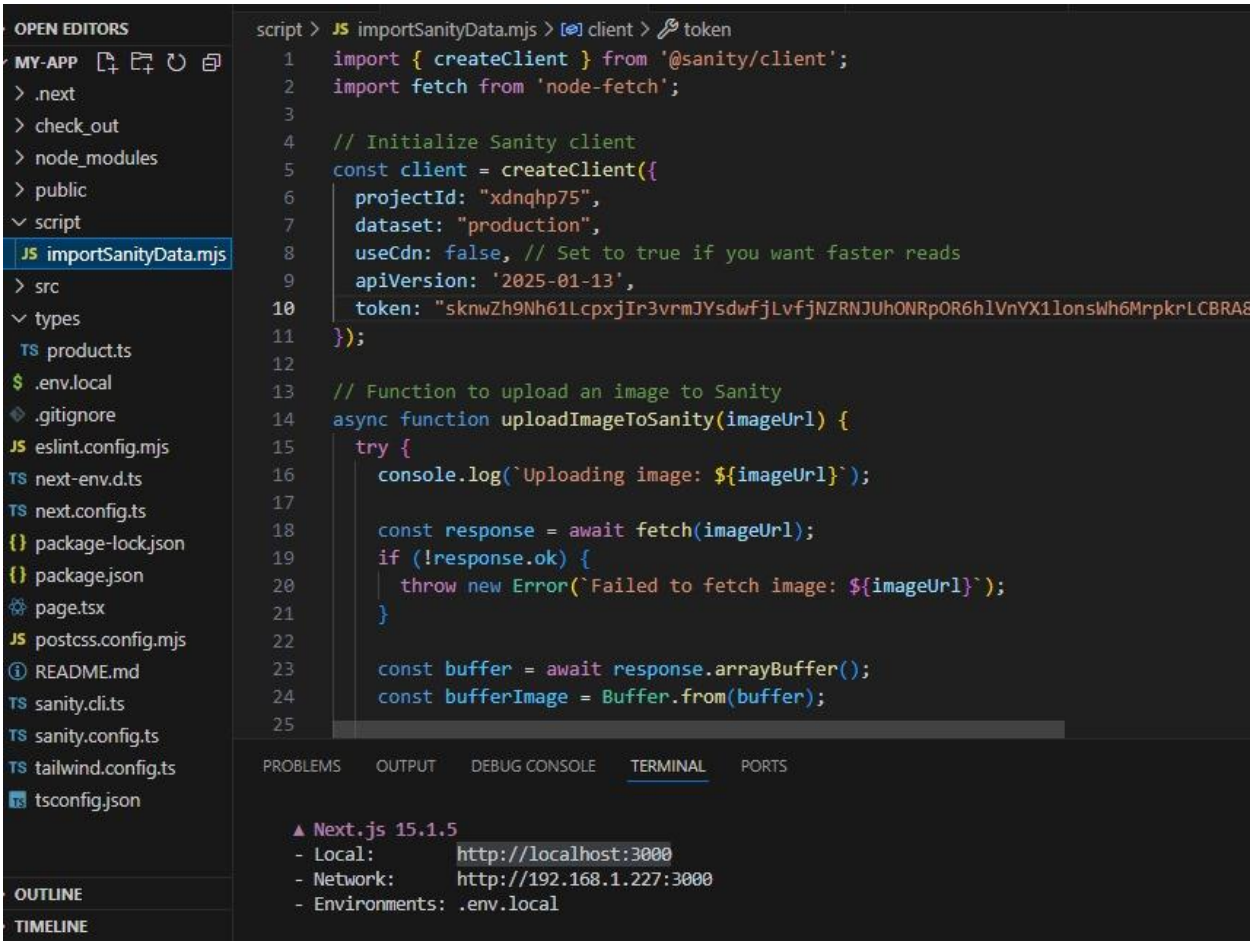
6. **Verify the Data**
   Fetch data from the new Sanity dataset in your Next.js app to ensure the migration is successful.
7. **Test and Validate**
   Test your Next.js app to confirm the data is displayed correctly, and check the data in Sanity Studio.
8. **Handle Schema Updates**
   If the schemas differ, update them in the target project to match the data structure.
9. **Clean Up Temporary Files**
   Remove any exported files or unused data to keep your environment tidy.
10. **Perform Additional Customizations**
    Use queries or filters if specific data transformations are needed during migration.

SCREENSHOTS



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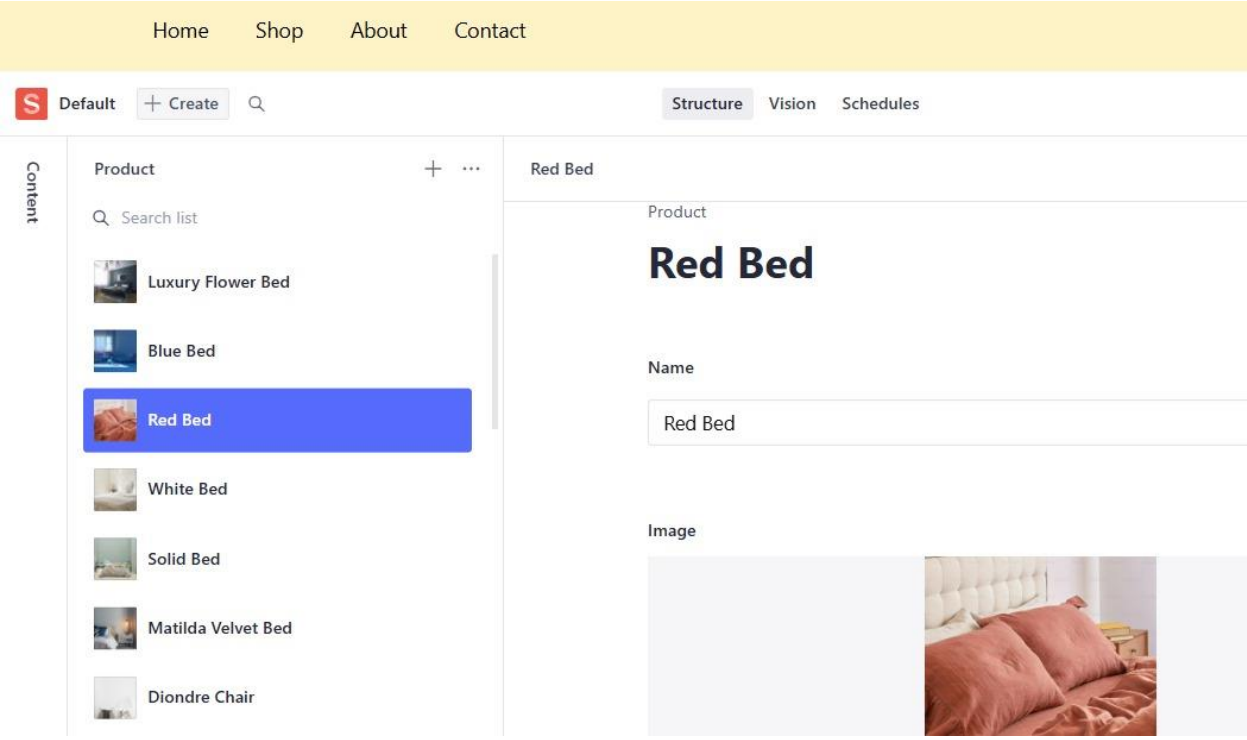

Challenges Faced:

• Resolved .env.local conflict by explicitly specifying the .env path in the script

. • Adjusted Sanity schemas to match API data fields. • Handled image uploads and mapped categories properly. Decisions Made:

• Used .env for compatibility with the migration script.

• Updated schemas to resolve field conflicts