Day 3 - API Integration Report - [Bandage]

API Integration Process

API Url: https://template6-six.vercel.app/api/products

1. Identify Requirements:

- o Defined endpoints and data requirements for the project.
- o Assessed API authentication (e.g., tokens, keys).

2. Set Up API Calls:

- \circ Used fetch function for HTTP requests.
- o Created reusable utility functions for API calls.

3. **Integrate with Sanity CMS**:

- o Queried data using Sanity's GROQ queries.
- o Used @sanity/client to communicate with the Sanity API.

4. Error Handling:

 Implemented try-catch blocks and fallback data for better user experience.

5. **Testing**:

Tested endpoints with tools like Postman or Insomnia.

o Verified integration in local and production environments.

Adjustments Made to Schemas

1. Field Updates:

- Added or updated fields to match API response structure.
- o Used field types like string, array, and reference.

2. Validation:

o Applied validation rules to ensure data consistency.

3. **Relationships**:

Linked documents using reference fields.

4. Versioning:

o Kept track of schema changes with version comments.

Migration Steps and Tools Used

1. Data Backup:

Exported existing data from Sanity CMS.

2. Schema Update:

Updated schema files locally.

 Deployed updated schemas using the Sanity CLI (sanity deploy).

3. Data Migration:

 Used custom scripts or the Sanity import/export feature for data migration.

4. Testing:

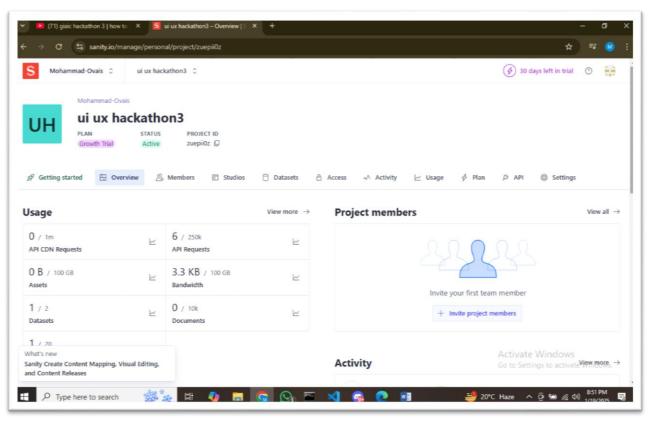
- Verified schema and data alignment in both local and production environments.
- o Checked API integration after migration.

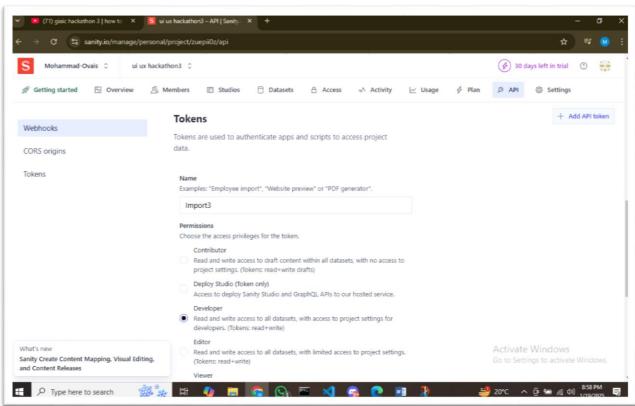
5. Deployment:

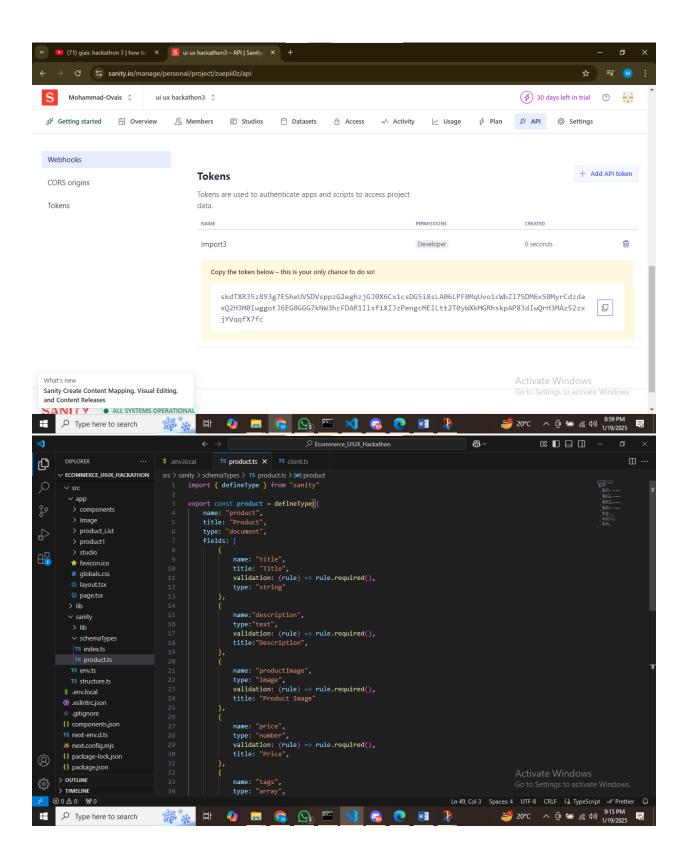
o Deployed the Next.js app to the hosting platform (e.g., Vercel).

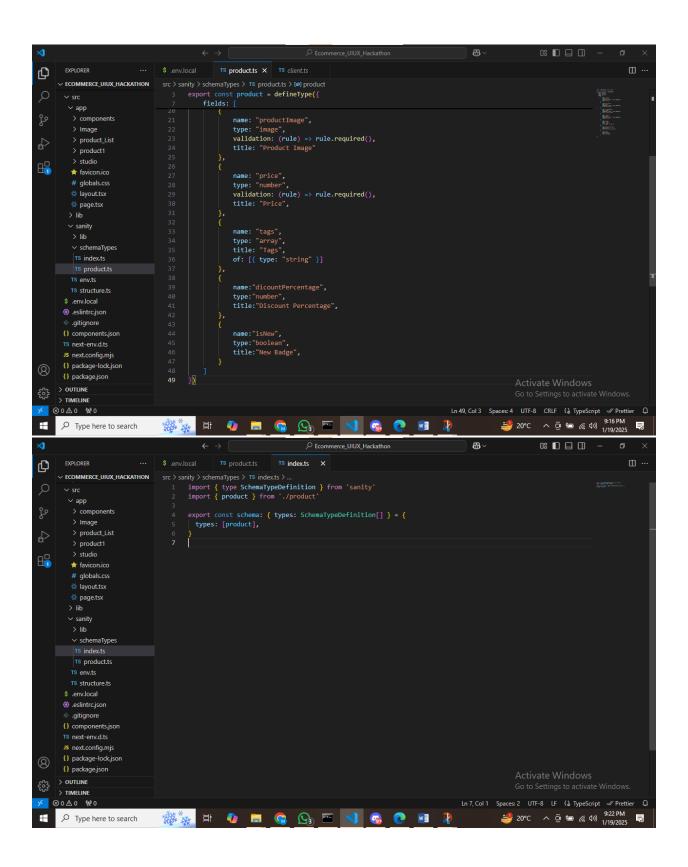
Tools Used:

- Sanity CLI: For managing schemas and data.
- **Next.js**: For server-side rendering and API routes.
- **Postman**: For API testing.
- **Git**: For version control.
- **Vercel**: For deployment.









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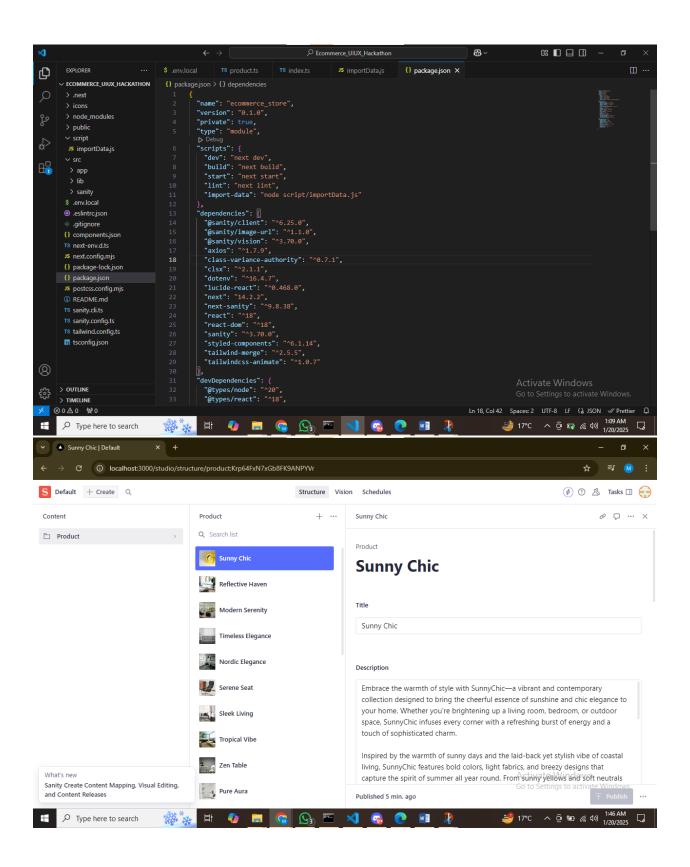
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      Scripts > 15 importDatajs > 160 client > 1/2 projectId

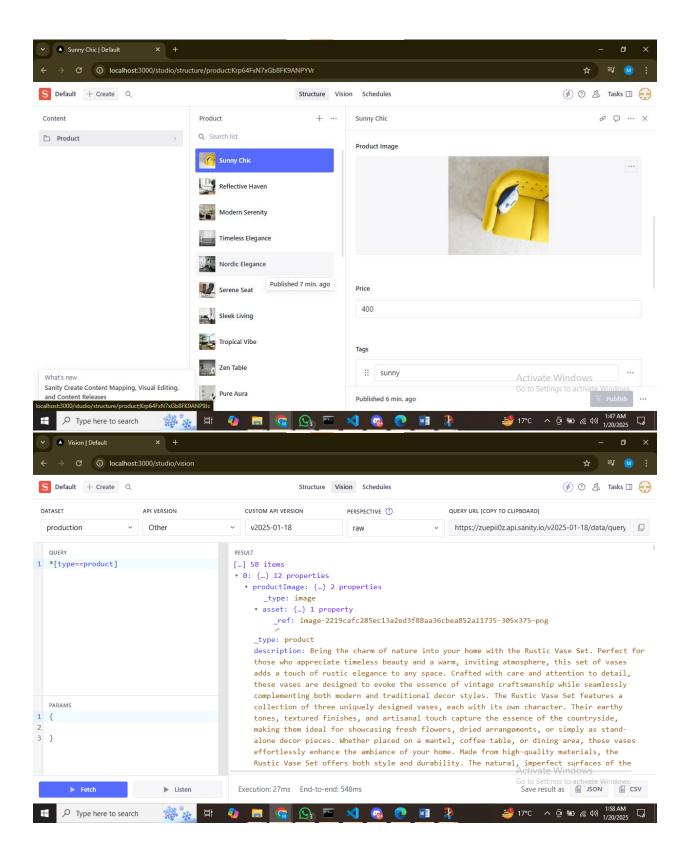
      > .next
      1 import { createClient } from '@sanity/client';

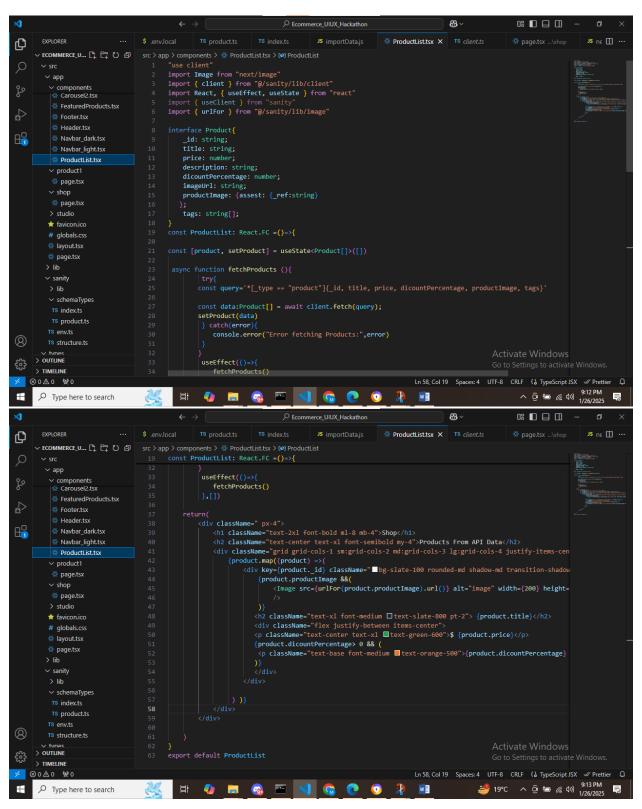
       > icons
                                        const client = createClient({
   projectId: 'zuepii0z',
       > node modules
       > public
                                          useCdn: true,
apiVersion: '2025-01-13',
       JS importData.js
                                        async function uploadImageToSanity(imageUrl) {
   try {
                                             console.log(`Uploading image: ${imageUrl}`);
                                             const response = await fetch(imageUrl);
       gitignore
                                            if (!response.ok) {
  throw new Error(`Failed to fetch image: ${imageUrl}`);
       TS next-env.d.ts
       JS next.config.mjs
      {} package-lock.json
                                            const buffer = await response.arrayBuffer();
      {} package.ison
      JS postcss.config.mis
                                            const asset = await client.assets.upload('image', bufferImage, {
      (i) README.md
                                              filename: imageUrl.split('/').pop(),
      TS sanity.cli.ts
      TS sanity.config.ts
      TS tailwind.config.ts
                                            console.log(`Image uploaded successfully: ${asset._id}`);
return asset._id;
      s tsconfig.json
                                           catch (error) {
  console.error('Failed to upload image:', imageUrl, error);
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                                    35 async function uploadProduct(product) {
       JS importData.js
                                               console.log(`Product ${product.title} uploaded successfully:`, createdProduct);
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         components
                                           } catch (error) {
| console.error('Error uploading product:', error);
         Carousel1.tsx
          Carousel2.tsx
          FeaturedProducts.tsx
          Footer.tsx
                                         async function importProducts() {
          Header.tsx
          Navbar_dark.tsx
           Navbar_light.tsx
                                             const products = await response.ison():
         page.tsx
                                             for (const product of products) {
   await uploadProduct(product);
         # globals.css
                                           } catch (error) {
| console.error('Error fetching products:', error);
         page.tsx

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Data successfully displayed in the frontend

