HACKATHON: 03

DAY: 03

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API INTEGRATION & DATA MIGRATION

1. How to Integrate API

- Read the API documentation.
- Set up your development environment.
- Get API credentials (key or token).
- Test API endpoints with Postman or similar tools.
- Write code to make requests (e.g., GET, POST).
- Handle responses and errors.
- Test integration thoroughly.
- Monitor for changes or updates.

2. How to adjust Schemas

- Find Problems: Look for slow queries or unnecessary data.
- Simplify Connections: Make table relationships clearer.
- Add Indexes: Speed up searches by indexing important fields.
- Remove Unneeded Data: Delete extra tables or columns.
- Change Data Types: Update fields for better storage.
- Update Rules: Change keys and constraints if needed.
- Test It: Check if the changes work well.

3. How to link Sanity CMS with Next.js

Create a Sanity Project:

- Install the Sanity CLI and create a new Sanity project using the command line.
- Set up your project by choosing a template or creating custom content types (schemas).

Link Sanity with Next.js:

- In your Next.js project, install the Sanity client package to connect to your Sanity project.
- Set up a configuration to link your Next.js app with your Sanity project by providing your project ID and dataset name.

***** Fetch Content:

 Use the Sanity client in your Next.js project to fetch data from Sanity's content API.

Display Content:

• Use the fetched content in your Next.js pages or components to display the data dynamically.

Sanity Schema

```
export default {
        name: 'product',
        type: 'document',
        title: 'Product',
        fields: [
            name: 'name',
            type: 'string',
            title: 'Name',
          },
11
            name: 'image',
            type: 'image',
            title: 'Image',
            options: {
              hotspot: true, // Enable image cropping
            },
            name: 'price',
            type: 'number',
            title: 'Price',
          },
```

Add "import-data" in Script of package.json

```
1 {
2    "name": "hack",
3    "version": "0.1.0",
4    "private": true,
5    "scripts": {
6       "dev": "next dev --turbopack",
7       "build": "next build",
8       "start": "next start",
9       "lint": "next lint",
10       "import-data": "node scripts/importSanityData.mjs"
11      },
```

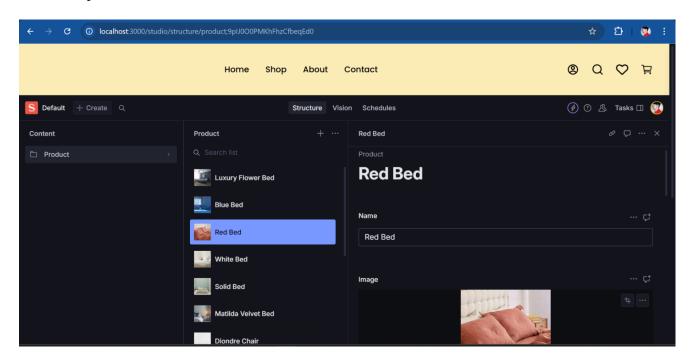
Data migrate from API into sanity

```
| Import | CorestClient | from '@sanity/client'; | Import | fetch from 'node-fetch'; | Import fetch fetc
```

Successfully Data import

```
□ node + ∨ □ 値 … ∧ ×
        OUTPUT
                 DEBUG CONSOLE
                                TERMINAL
                                           PORTS
_updatedAt: '2025-01-19T19:12:10Z',
category: 'Bed',
description: 'A luxurious shell-shaped chair with gold brass metal legs.',
discountPercentage: 0,
id: '21',
image: {
 _type: 'image',
 asset: {
   _ref: 'image-432c20d55e31514d09985305e657cb342317d57b-2059x1391-jpg'
isFeaturedProduct: true,
name: 'Luxury Flower Bed',
price: 2500,
stockLevel: 2
```

Sanity studio/structure



Product Display

