Day 3

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API INTEGRATION AND DATA MIGRATION

1. API Integration steps:

Step 1: Install Sanity in the Next.js Project

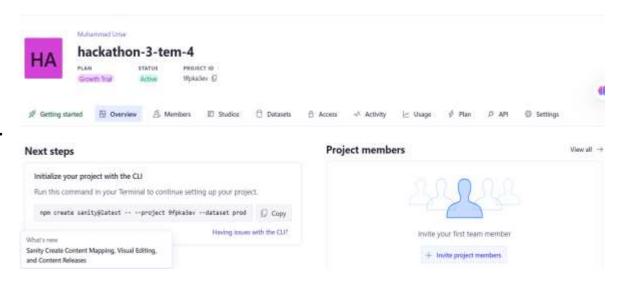
- Begin by setting up Sanity in your Next.js project.
- Create a new project in Sanity and retrieve the project ID and token. it will be utilized in the Next.js application for API integration

Step 2: Define Schemas in the Sanity Folder

- Navigate to the sanity/schemas folder in your Sanity project directory.
- Create a file named Products.ts and define the schema for products.

Step 3: Setup Scripts for Data Migration

- At the project root, create a folder named scripts.
- Inside this folder, create a file named importSanityData.mjs.
- This file will be used to import the provided data into Sanity.



Step 4: Install Required Dependencies

Run the following command in the terminal to install the necessary packages npm install @sanity/client axios dotenv

Step 5: Update package.json

Add the following script to the package.json file.

"import-data": "node scripts/importSanityData.js"

Step 6: Import Data into Sanity

To execute the data import, run the following command in the terminal: npm run import-data

2. Adjustments Made to Schemas:

The Product schema defines how product data is structured and organized within the Sanity content platform. Its purpose is to store detailed information about each product in a way that ensures flexibility and supports various use cases, such as e-commerce platforms or product catalogs.

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3. Migration Steps and Tools Used:

1.Query Setup:

A query is defined to fetch complete and well-structured product data from the Sanity backend.



2. Code Overview:

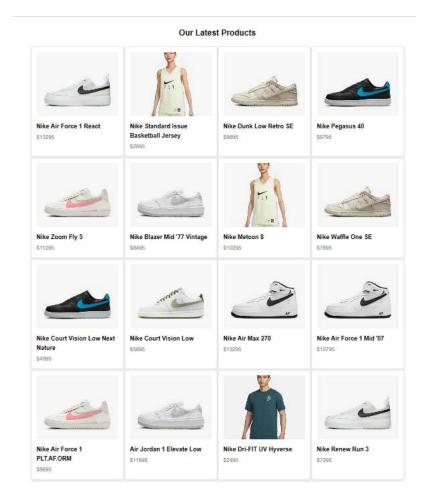
- The code initializes a Sanity client using the createClient function provided by the next-sanity package.
- This client connects the application to the Sanity CMS project by specifying the projectId, dataset, and apiVersion.
- A reusable sanityFetch function is created for querying data dynamically. This function accepts a query string and optional
 params to make data retrieval flexible and efficient.
- By using this setup, the application retrieves content dynamically and simplifies data management.

Importing Data into sanity

The process involves setting up the Sanity CMS and importing data to create a dynamic and structured database. This allows seamless management and retrieval of product data. Once the data is successfully imported, it can be used for building dynamic applications

```
const filename = filesBLToPath(import.meta.ur));
                                             direame - path.direame( filename);
                                       doteny.config({ path: path.resolve(__dirname, __/.env.local ) });
                                      const client - createclient()
                                        projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
                                        dataset: process_env_NEXT PUBLIC SANITY DATASET,
                                        token: process.env.SAMITY API TOKEN,
                                        apiversion: "2022-00-31"
                                      mayor function uploadImageToSamity(imageUcl) (
                                          console.log("uploading image: $(imageurl)");
                                          const response = anult acios get(Imageurl, ( responsetype: 'arr
                                           const asset - await client.assets.upload 'image', buffer, (
                                           Filename: imageurl.uplit('/').pop()
  w schemaTypes
                                           console.log( image uploaded successfully: ${asset._id} ];
                                          console.error("failed to upload image: ", imageurl, error);
                                       async function importData() (
1) package lockison
                                          console.log( migrating data please wait ... );
TIMELINE
```

DATA SUCCESSFULLY DISPLAY IN FRONTEND



Day 3 Checklist:

Self-validation checklist

- ◆ API Understanding:
- Schema Validation: √
- Data Migration: √
- API integration in next.js: √
- Submission preparation: √