## **DAY 3 NAME: MUHAMMED ANAS**

**ROLL NO: 00051245** 

**TIMING: SAT 9-12AM** 

## **API Integration Report of MensApparel - Day 03**

### Introduction

This project aimed to integrate data from an external API into Sanity using migration scripts. Our objective was to successfully import and structure the data in Sanity, ensuring it could be efficiently queried and displayed in our user interface. This report details the steps taken to complete the integration.

### **Steps Involved**

#### 1. API Integration

We received an API that provided essential data for our project. The first step was to fetch data from this API and prepare it for import into Sanity.

#### 2. Schema Creation

To properly structure the data, we created schemas for products and categories in Sanity. These schemas define how the data is stored and organized, making it easier to query and manage.

#### 3. Migration Scripts

Migration scripts were developed to transform and insert the API data into Sanity. These scripts ensured that the data was correctly formatted before being stored in the database.

### 4. Adding Migration to package.json

To streamline execution, we added the migration script to the package.json file. This allowed us to run the migration using a simple command:

```
npm run migrate
```

This step simplified the process of importing data whenever required.

#### 5. Importing Data into Sanity

After running the migration script, the API data was successfully imported into Sanity. This ensured that our database was populated with the necessary information.

### 6. Fetching Data with GROQ

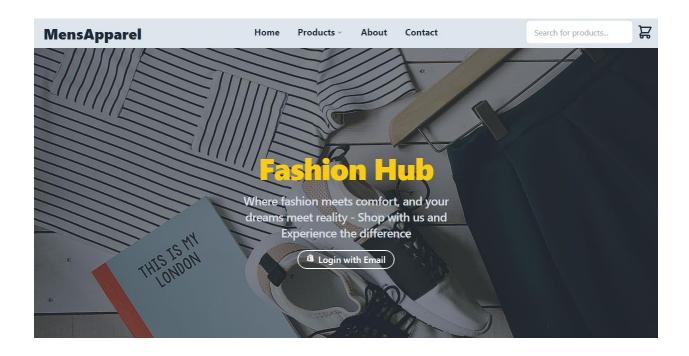
We used GROQ, Sanity's query language, to retrieve the imported data. GROQ queries enabled us to fetch specific data efficiently, optimizing the process of displaying information in our UI.

#### 7. Displaying Data in UI

Finally, the retrieved data was displayed in our user interface. This marked the completion of the full integration cycle, from API import to end-user visualization.

### **Conclusion**

This project successfully integrated external API data into Sanity using migration scripts, allowing for efficient data management and display. The process ensured that our application could dynamically fetch, organize, and present data as needed. The structured approach outlined above made the integration seamless and effective.



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