# **QURRATULAIN SOOMRO** **API Integration Report - [AVION WEBSITE]**

**Reviewed API Documentation**

* Thoroughly reviewed the provided API documentation for the assigned template to gain a clear understanding of the available endpoint (/shop).
* Analyzed the structure of the data returned by the API, including field names, data types, and formats.

**Set Up API Calls**

* Used Thunder Client to test the /shop API endpoint, ensuring that the returned data matched the expected structure.
* Implemented utility functions in my Next.js project to handle data fetching from the API.
* Utilized the fetch API to make GET requests to the endpoint, storing responses in variables for further processing.
* Logged API responses to the console to verify the data structure and ensure accuracy before integrating it into the application.

**Compared API Data with Sanity Schema**

* Carefully reviewed the API data structure and compared it with the existing schema in Sanity CMS to identify discrepancies in field names and data types.
* Updated the Sanity schema to align with the API data structure. Examples include:
  + **API Field:** product\_title → **Sanity Field:** name
  + **API Field:** price → **Sanity Field:** price (ensuring the correct data type was maintained).
  + **API Field:** description → **Sanity Field:** description (added to provide detailed product information).

**Data Migration from API to Sanity CMS**

**1. Planning and Setup**

* Decided to use the provided API to fetch data and wrote a script to import it into Sanity CMS.
* Created a scripts folder and added a migration file (importSanityData.mjs) to handle data fetching and transformation.

**2. Data Transformation and Upload**

* The migration script fetched data from the API and transformed it into the format required by Sanity CMS.
* Used the Sanity client library to upload the transformed data, including product details, categories, and other relevant information.

**3. Verification and Validation**

* Verified the imported data by reviewing the Sanity dashboard to ensure all fields were populated correctly and matched the expected structure.