\*\*Day 3 - API Integration Report - [E-Commerce Clothing Website]\*\*

\*\*1. API Integration Process:\*\*

- Reviewed the provided API documentation for my assigned template.

- Identified key endpoints such as `/products` and `/categories`.

- Created utility functions in Next.js to fetch data from the API.

- Integrated the API data into the frontend, rendering product listings and categories.

- Tested the API integration using Postman and browser developer tools to ensure data consistency.

\*\*2. Schema Adjustments:\*\*

- Compared the API data structure with my Sanity CMS schema.

- Adjusted field names and types to ensure compatibility (e.g., mapped `product\_title` to `name`).

- Validated the schema to ensure alignment with the API data.

\*\*3. Data Migration:\*\*

- Used the provided migration script to fetch and transform data from the API into Sanity CMS.

- Validated the imported data for accuracy and alignment with the schema.

- Documented the migration steps and ensured all data was correctly mapped.

\*\*4. Error Handling:\*\*

- Implemented robust error handling in the API utility functions.

- Logged errors for debugging and displayed user-friendly error messages in the UI.

- Used fallback data and skeleton loaders to enhance the user experience during data fetching.

\*\*5. Expected Output:\*\*

- Sanity CMS populated with data from the provided API.

- Functional API integration in Next.js displaying product listings and categories.

\*\*Conclusion:\*\*

All tasks for Day 3 have been completed successfully. The API integration and data migration processes were executed as per the guidelines, ensuring a functional marketplace backend. The schema adjustments and error handling mechanisms have been implemented to ensure a smooth user experience.









