

# Day 3 - API Integration and Data Migration

## API Overview:

API (Application Programming Interface) allows different systems to communicate and exchange data. On Day 3, the focus is on integrating external APIs into your application and migrating data efficiently.

## Provided APIs:

- List of APIs provided for integration during Day 3.

## Insert API Documentation Here:

Here, you will document all the APIs provided for your integration, including endpoints, request parameters, responses, authentication methods, etc.

## Using External Data Sources (Optional):

Incorporating external data sources like databases or third-party APIs is optional but can enhance the functionality of your application. Ensure the integration is smooth and data is fetched accurately.

### Steps for Day 3:

#### 1. Understand the Provided API:

- Review API documentation.
- Identify the endpoints, required parameters, and response formats.
- Determine the type of authentication (if any) and set it up.

#### 2. Validate and Adjust Your Schema:

- Analyze your existing data schema.
- Modify your schema (e.g., database structure or API models) to match the API responses.
- Ensure data consistency and integrity across your system.

### 3. Data Migration Options:

- **Data Import/Export:** Choose between CSV, JSON, or XML formats for transferring data.
- **Bulk Migration:** For large datasets, ensure batch processing is handled efficiently.
- **Real-time Migration:** Consider using webhooks or API callbacks for real-time data migration.

### 4. API Integration in Next.js:

- Install necessary packages (like Axios, fetch, etc.) for API calls.
- Use `getServerSideProps` or `getStaticProps` for server-side fetching.
- Handle asynchronous data fetching in React components.
- Map API data to your component states and render them dynamically.

### Error Handling Tips:

- Always check for error responses (4xx or 5xx status codes).
- Implement try-catch blocks in async functions to handle unexpected failures.
- Provide clear error messages to users and log errors for debugging.

sanity &gt; ts env.ts &gt; ...

```
1 export const apiVersion =
2   process.env.NEXT_PUBLIC_SANITY_API_VERSION || '2025-01-18'
3
4 export const dataset = assertValue(
5   process.env.NEXT_PUBLIC_SANITY_DATASET,
6   'Missing environment variable: NEXT_PUBLIC_SANITY_DATASET'
7 )
8
9 export const projectId = assertValue(
10  process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
11  'Missing environment variable: NEXT_PUBLIC_SANITY_PROJECT_ID'
12 )
13
14 function assertValue<T>(v: T | undefined, errorMessage: string): T {
15   if (v === undefined) {
16     throw new Error(errorMessage)
17   }
18
19   return v
20 }
21
```

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