

Define Business Objectives

The Problem

Briefly define the problem and how it affects customers and the business.

The Impact

Define what success looks like for your API. What will the world be like after you’ve released your new API?

Key User Stories

List several key user stories for your API with the following template:

As a **[user type]**, I want **[action]** so that **[outcome]**.

- 1.
- 2.
- 3.
- 4.
- 5.

Technology Architecture

Describe the technology architecture you’ve selected, along with the reasons behind your decision. You may wish to include charts or graphs showing the pros and cons of paradigms you’ve considered. Here’s an optional example table:

Table A-1. Technology architecture

Pattern, paradigm, or protocol considered	Pros	Cons	Selected?

API Specification Template

Title

Authors

Problem

Solution

Implementation

Give a high-level description of the implementation plan. You may wish to use additional tables or diagrams to describe your plan.

Authentication

Describe how developers will gain access to the API.

Other Things We Considered

If you considered any other API paradigms, architectures, authentication strategies, protocols, etc., briefly mention what you considered.

Inputs, Outputs (REST, RPC)

If you're designing a REST or RPC API, describe the endpoints, inputs, and outputs. You may wish to add columns or use a different table format to describe the requests and responses.

Table A-2. *Table_name*

URI	Inputs	Outputs

Events, Payloads (Event-Driven APIs)

If you're designing an event-driven API, describe the events and their payloads. You may wish to add columns for additional information, such as OAuth scope.

Table A-3. *Table_name*

Events	Payload

Errors

Table A-4. *Technology architecture*

HTTP status code	Error code	Verbose error	Description

Feedback Plan

Describe how you plan to gather feedback on your API design, including whether you plan to release to beta testers.

API Implementation Checklist:

- ☐ Define specific developer problem to solve
- ☐ Write internal API specification
- ☐ Get internal feedback on API specification
- ☐ Build API
 - ☐ Authentication
 - ☐ Authorization
 - ☐ Error handling
 - ☐ Rate-limiting
 - ☐ Pagination
 - ☐ Monitoring and logging
- ☐ Write documentation
- ☐ Run beta test with partners on new API
- ☐ Gather feedback from beta partners and make changes
- ☐ Create communication plan to notify developers of changes
- ☐ Release API changes