

# **Enterprise Architecture**

**Executable English**

# Definition of Done

**Feature:** Publish APIs for our ACME business unit

**As a Business Sponsor I want to employ enterprise best practices to build, document, test and publish a secure API that is easy to maintain. I want regular assurance that it is reliable, robust and resilient.**

Standardise

Simplify

Celebrate

# Simplify: Specifications

Communicate with Stakeholders

Interact with Web APIs

Interact with Web Apps

Work with Files

Work with Variables

Work with Templates

Build Software, Sites, Documents

# Standards: Open API

- Defines the features of the API
- The operations available
- The outputs provided
- Data validation
- Error definitions
- Security definitions
- Custom definitions

# Business Defined Development (BDD)

**Scenario:** a goal I wish to automate

**GIVEN** some context

**WHEN** an action is performed

**THEN** an outcome is expected

# Documentation

**Scenario:** Generate API documentation

As an **API Program Manager** I want API documentation to support internal users and partners.

**Given I am creating documentation**

**When I read context from project.json**

**And I read openapi from swagger.yaml**

**And I build some openapi-docs**

**Then folder ./build/openapi-docs should exist**

# Test Cases

**Scenario:** Generate executable test cases

As a **QA Specialist** I want to generate executable BDD test cases for every API.

**Given I am building API test cases**

**When I read context from project.json**

**And I read openapi from swagger.yaml**

**And I build some openapi-tests**

**Then folder ./build/openapi-tests should exist**

# Development

**Scenario:** Generate a NodeJS micro-service

As a **Software Engineer** I want to generate a skeleton micro-service using my favourite framework.

**Given I am building a NodeJS micro-service**

**When I read context from project.json**

**And I read openapi from swagger.yaml**

**And I build a micro-node**

**Then folder ./build/micro-node should exist**

# Deployment

**Scenario:** Generate deployable API proxy

As a **Business Manager** I want to deploy an API that complies with enterprise best practice.

**Given I am building an API proxy for Apigee Edge**

**When I read context from project.json**

**And I read openapi from swagger.yaml**

**And I build an apigee-proxy**

**Then folder ./build/apigee-proxy should exist**

# Assurance

**Feature:** Automate API assets for ACME

As a Business Sponsor I want to employ enterprise best practices to build, document, test and publish a secure API that is easy to maintain

**I want regular assurance that it is reliable, robust and resilient.**

***Continuous Testing***

# Executable English

**Feature:** Test HTTP POST

**Scenario:** Send a dummy JSON payload

**Given** I am uploading JSON

**And** I login as `robot-tester`

**And** I send `dummy-data.json` as body

**When** I POST `http://api.acme.example.com/data/`

**Then** response code should be `201`

**And** header `Content-Type` should exist

**And** header `Content-Type` is `application/json`

# ApiGeek Architect

```
$ npm install apigeek-architect -g
```

```
$ git clone https://github.com/apigeek/example
```

**COMING SOON ...**

```
$ cd example
```

```
$ apigeek
```

**Executable Example**