

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

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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