



Spring Framework 6

Beginner to Guru

OpenAPI for Spring Boot Development



OpenAPI for Spring Boot

- OpenAPI Specification Generation (Code First)
 - Spring-Fox - Use for OpenAPI 2 / Swagger
 - WARNING: Project seems no longer active, last release in 2020
 - Does not support OA3
 - Springdoc - Use for OpenAPI 3
 - Project is active and part of OpenAPI Collective
 - Use Springdoc v2 for Spring Framework 6 support





OpenAPI for Testing

- Atlassian Swagger Request Validator - This is a rich library for testing HTTP Requests and Responses against an OpenAPI Specification
- Validates your code matches the OpenAPI Specification
- Spring MVC / Mock MVC supported (Spring Framework 6 not supported, yet)
- Spring WebFlux not supported
- Validates Pact Consumer Driven Contracts
- Validates RestAssured Tests
- Validates WireMock interactions





OpenAPI for Code Generation

- OpenAPI Code Generation plugins are available for both Maven and Gradle
- Very useful for consuming 3rd party APIs with OpenAPI Specification
 - Generated client code can be a separate project, or in a submodule
 - When you have a quality OpenAPI specification, generated client code is usable
- Can be used to generate server stubs - good starting point
- Can be used to generate request / response POJOs
 - Often useful to publish POJOs in jar to share with other projects





Best Practices

- Use Spec First Development
- Use OpenAPI Code Generator to generate client when available
- Use OpenAPI to Code Generator publish and share model when possible
- Use Swagger Request Validator when possible
 - Verify Spec in integration tests, Pact Contracts or with RestAssured
- Spring 6 Support expected in Q1 of 2023



