Swagger UI



Swagger UI is a powerful tool for documenting and **testing RESTful APIs**. It provides an interactive web-based interface that makes it easy for developers to understand and explore APIs.

Swagger (now known as OpenAPI) is a specification for documenting REST APIs.

With **Springdoc OpenAPI**, **Swagger** docs are auto-generated from your Spring Boot app — so clients can test endpoints via a web UI.

What is Swagger UI?

Swagger Ui is a part of the Swagger system, which provides a set of tools for **designing**, **building**, **and documenting RESTful APIs**. Swagger UI is specifically designed for API documentation. It generates a user-friendly, interactive documentation interface based on your API's **OpenAPI** (formerly known as Swagger) specification.

Features of Swagger UI

1. An interactive interface for API exploration and also for testing API's.

- 2. Clear and easy-to-read documentation.
- 3. Built-in support for various API authentication methods.
- 4. Automatic generation of API client SDKs.
- 5. Integration with various programming languages and also with frameworks.

Use of Swagger UI

Swagger UI is a versatile tool that can be used for various use cases related to API development and documentation. Here are some common use cases for Swagger UI:

- API Documentation: Swagger UI is primarily used to create interactive and user-friendly documentation for your RESTful APIs. It allows developers, testers, and consumers to understand the endpoints, parameters, request and response structures, and authentication methods of an API
- API Testing: Swagger UI provides an interactive interface for testing APIs. Users can make real API requests and see the responses directly within the Swagger UI interface. This is useful for both API development and quality assurance.
- Integration with API Gateways: Swagger UI can be used in conjunction with API gateways and management tools.

By providing a well-documented API through **Swagger U**I, API gateways can enforce policies, rate limits, and security measures while developers still have easy access to documentation.