

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern, layered effect. The word "Swagger" is centered in a green, sans-serif font.


# Swagger

# ¿Que es?

- ▶ Documentación de APIs estandarizada.
- ▶ Lo más comúnmente utilizado en la industria.
- ▶ Provee una estructura simple y clara

# Swagger UI

<https://petstore3.swagger.io/>

 **Swagger**  
Supported by SMARTBEAR

Explore

## Swagger Petstore - OpenAPI 3.0

1.0.19 OAS 3.0

<https://petstore3.swagger.io/api/v3/openapi.json>


This is a sample Pet Store Server based on the OpenAPI 3.0 specification. You can find out more about Swagger at <http://swagger.io>. In the third iteration of the pet store, we've switched to the design first approach! You can now help us improve the API whether it's by making changes to the definition itself or to the code. That way, with time, we can improve the API in general, and expose some of the new features in OAS3.


Some useful links:

- [The Pet Store repository](#)
- [The source API definition for the Pet Store](#)

[Terms of service](#)  
[Contact the developer](#)  
[Apache 2.0](#)  
[Find out more about Swagger](#)


Servers

Authorize 

**pet** Everything about your Pets [Find out more](#) 

PUT

/pet Update an existing pet

**POST** /pet Add a new pet to the store



Add a new pet to the store

### Parameters

Try it out

No parameters

Request body required

application/json



Create a new pet in the store

Example Value | Schema

```
{
  "id": 10,
  "name": "doggie",
  "category": {
    "id": 1,
    "name": "Dogs"
  },
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ],
  "status": "available"
}
```

## Responses


Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <p><input type="text" value="application/xml"/> ▾</p> <p>Controls <a href="#">Accept header</a>.</p> <p><a href="#">Example Value</a>   <a href="#">Schema</a></p> <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;pet&gt;   &lt;id&gt;10&lt;/id&gt;   &lt;name&gt;doggie&lt;/name&gt;   &lt;category&gt;     &lt;id&gt;1&lt;/id&gt;     &lt;name&gt;Dogs&lt;/name&gt;   &lt;/category&gt;   &lt;photoUrls&gt;     &lt;photoUrl&gt;string&lt;/photoUrl&gt;   &lt;/photoUrls&gt;   &lt;tags&gt;     &lt;tag&gt;       &lt;id&gt;0&lt;/id&gt;       &lt;name&gt;string&lt;/name&gt;     &lt;/tag&gt;   &lt;/tags&gt;   &lt;status&gt;available&lt;/status&gt; &lt;/pet&gt;</pre>	<p>No links</p> <p>No links</p>
405	<p>Invalid input</p>	<p>No links</p>

# Swagger YAML

- ▶ Archivo de extensión .yaml donde uno define el swagger
- ▶ Puede ser generado a través de un editor
- ▶ Existen extensiones que lo generan automáticamente de nuestro código

# Edito Swagger Yaml

<https://editor.swagger.io/>

 **Swagger Editor**  
Supported by SMARTBEAR

File

Edit

Insert

Generate Server

Generate Client

About

Try our new Editor

```
1 openapi: 3.0.3
2 info:
3   title: Swagger Petstore - OpenAPI 3.0
4   description: |-
5     | This is a sample Pet Store Server based on the OpenAPI 3.0 specification. You can
6     | find out more about
7     | Swagger at [https://swagger.io](https://swagger.io). In the third iteration of the
8     | pet store, we've switched to the design first approach!
9     | You can now help us improve the API whether it's by making changes to the
10    | definition itself or to the code.
11    | That way, with time, we can improve the API in general, and expose some of the new
12    | features in OAS3.
13    |
14    | _If you're looking for the Swagger 2.0/OAS 2.0 version of Petstore, then click
15    | [here](https://editor.swagger.io/?url=https://petstore.swagger.io/v2/swagger.yaml)
16    | ). Alternatively, you can load via the `Edit > Load Petstore OAS 2.0` menu
17    | option!_
18
19    Some useful links:
20    - [The Pet Store repository](https://github.com/swagger-api/swagger-petstore)
21    - [The source API definition for the Pet Store](https://github.com/swagger-api
22    /swagger-petstore/blob/master/src/main/resources/openapi.yaml)
23
24  termsOfService: http://swagger.io/terms/
25  contact:
26    email: apiteam@swagger.io
27  license:
28    name: Apache 2.0
29    url: http://www.apache.org/licenses/LICENSE-2.0.html
30  version: 1.0.11
31  externalDocs:
32    description: Find out more about Swagger
33    url: http://swagger.io
34  servers:
35    - url: https://petstore3.swagger.io/api/v3
36  tags:
37    - name: pet
38      description: Everything about your Pets
39      externalDocs:
40        description: Find out more
41        url: http://swagger.io
42    - name: store
43      description: Access to Petstore orders
```

## Swagger Petstore - OpenAPI 3.0

1.0.11 OAS 3.0

This is a sample Pet Store Server based on the OpenAPI 3.0 specification. You can find out more about Swagger at <https://swagger.io>. In the third iteration of the pet store, we've switched to the design first approach! You can now help us improve the API whether it's by making changes to the definition itself or to the code. That way, with time, we can improve the API in general, and expose some of the new features in OAS3.

If you're looking for the Swagger 2.0/OAS 2.0 version of Petstore, then click [here](#). Alternatively, you can load via the [Edit > Load Petstore OAS 2.0](#) menu option!

Some useful links:

- [The Pet Store repository](#)
- [The source API definition for the Pet Store](#)

[Terms of service](#)

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[Apache 2.0](#)

[Find out more about Swagger](#)

Servers

https://petstore3.swagger.io/api/v3

⌵

Authorize

pet

Everything about your Pets

Find out more

# Json OpenApi 3.0

- Swagger también se puede exportar como json bajo la definición de OpenApi
- Este Json se puede importar en aplicaciones como Postman, Insomnia, etc.

```
{
  "openapi": "3.0.2",
  "info": {
    "title": "Swagger Petstore - OpenAPI 3.0",
    "description": "This is a sample Pet Store Server based on the Opetore API. You can use this API to implement a Pet Store server. You can also use this API to make changes to the definition itself or to the code. That way, you can use the code to generate the API definition. For more information, see the Swagger website: https://swagger.io/docs/ (https://github.com/swagger-api/swagger-petstore/blob/master/src/main/resources/openapi.yaml)",
    "termsOfService": "http://swagger.io/terms/",
    "contact": {
      "email": "apiteam@swagger.io"
    },
    "license": {
      "name": "Apache 2.0",
      "url": "http://www.apache.org/licenses/LICENSE-2.0.html"
    },
    "version": "1.0.19"
  },
  "externalDocs": {
    "description": "Find out more about Swagger",
    "url": "http://swagger.io"
  },
  "servers": [
    {
      "url": "https://petstore.swagger.io/v2"
    }
  ]
}
```

<https://petstore3.swagger.io/api/v3/openapi.json>



# Swagger en Java: SpringDoc

- ▶ Librería que genera un swagger de nuestra aplicación
- ▶ Su uso básico es muy sencillo, con solo agregar la librería ya funciona
- ▶ Se puede agregar más información a través de anotaciones en nuestro código
- ▶ Levanta una UI a través de la cual también se pueden consumir los endpoints
- ▶ También genera el Json de OpenApi para importar las definiciones a Postman

```
<dependency>  
  <groupId>org.springdoc</groupId>  
  <artifactId>springdoc-openapi-starter-webmvc-ui</artifactId>  
  <version>2.6.0</version>  
</dependency>
```

# Anotaciones Complementarias

- ▶ @Tag - Da información sobre un controlador
- ▶ @Operation - Da información sobre un endpoint
- ▶ @ApiResponse - Da información sobre un response
- ▶ @RequestBody (La anotación de swagger) - Da información sobre un request body
- ▶ @Parameter - Da información sobre un parámetro de un request
- ▶ @SecurityScheme - Define tipos de autenticación para la aplicación
- ▶ @SecurityRequirement - Da información sobre la autenticación de un endpoint
- ▶ @OpenApiDefinition - Da información sobre nuestra aplicación

# Swagger Generado

<http://localhost:8080/swagger-ui.html>

## TTPS Api OAS 3.0

[/v3/api-docs](#)

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus tempus convallis tincidunt. Donec condimentum tempor dui a pellentesque. Nulla ut nulla vitae risus tristique consequat tincidunt nec sapien. Nullam non imperdiet nisi. Donec malesuada vitae urna vel tempus. Nunc ac pretium velit. Sed vulputate, leo vel posuere aliquet, massa orci iaculis nisi, ut sollicitudin lacus tortor vitae diam.

Servers

<http://localhost:8080> - Generated server url

Authorize

### Menu Controller CRUD Endpoints for menu

**PUT** [/menus](#) Update a Menu



**POST** [/menus](#) Create a Menu



**DELETE** [/menus/{uuid}](#) Deletes a Menu



### user-controller

**PUT** [/users](#)



# Bibliografía

- ▶ Documentación [https://swagger.io/docs/specification/v3\\_0/about/](https://swagger.io/docs/specification/v3_0/about/)
- ▶ Editor Online <https://editor.swagger.io/>
- ▶ Ejemplo UI <https://petstore3.swagger.io/>
- ▶ SpringDoc <https://springdoc.org/>
- ▶ Baeldung <https://www.baeldung.com/spring-rest-openapi-documentation>
- ▶ Repositorio Ejemplo <https://github.com/tomasdozo/ttps-swagger>