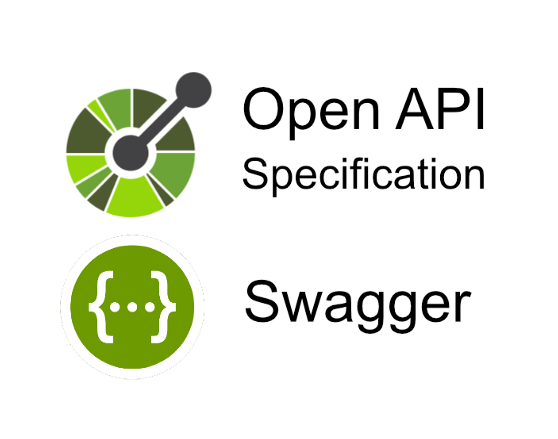
## horizontal line



Swagger Open-API

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**─**

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# Overview

Swagger is a set of open-source tools built around the OpenAPI Specification that can help you design, build, document and consume REST APIs. The major Swagger tools include: Swagger Editor – browser-based editor where you can write OpenAPI specs. Swagger UI – renders OpenAPI specs as interactive API documentation.

# Laravel-Packages

composer require "darkaonline/l5-swagger"

# Publishing Swagger Configuration & View File

php artisan vendor:publish --provider "L5Swagger\L5SwaggerServiceProvider"

# Next, open a config/l5-swagger.php file.

routes.api — This is an URL for accessing documentation UI. Your frontend team will be using it to access documentation. By default, it is api/documentation . I prefer changing it to something smaller like api/docs

generate\_always — I prefer disabling it as it will generate docs on the fly. Not useful with big API. You can always manually run php artisan l5-swagger:generate

NB: if you want to any config update. Make changes to config/l5-swagger.php , Like (Title / Documentation / Route ) Etc….

# 

# 

# Swagger Annotations

* **@OA()\Info** refers documentation introduction for header
* **@OA()\GET** refers to what kind of HTTP method we’ll use. The method can be GET, POST, PUT or DELETE.
* **@OA\Parameter** refers to the name of the parameters that will pass to API.
* **@OA\Response()** which kind of response and code will we return if the data is correct or incorrect.

# 

# @OA\Info

# @OA\Info this comment used for API Documentation Introduction . This comment in use the BaseController before starting class

/\*\*

\* @OA\Info(

\* version="1.0.0",

\* title="Laravel OpenApi Demo Documentation",

\* description="L5 Swagger OpenApi description",

\* @OA\Contact(

\* name="API Support",

\* url="http://www.example.com/support",

\* email="support@example.com"

\* ),

\* @OA\License(

\* name="Apache 2.0",

\* url="http://www.apache.org/licenses/LICENSE-2.0.html"

\* )

\* )

\* @OA\Server(

\* url=L5\_SWAGGER\_CONST\_HOST,

\* description="Local Server"

\* )

\* @OA\Tag(

\* name="Projects",

\* description="API Endpoints of Projects"

\* )

\*/

**Tag Short uses description**

* @OA\Contact ( This comment for Include Support/Developer Contact )
* @OA\License ( This comment for Include Software Licence )
* @OA\Server ( This comment for Include Base url / Server Name )
* @OA\Tag ( This comment for Include API Grouping )

# @OA\RequestBody

**Json Body**

\* @OA\RequestBody(

\* @OA\MediaType(

\* mediaType="application/json",

\* @OA\Schema(

\* @OA\Property(

\* type="object",

\* @OA\Property(

\* property="email",

\* type="string"

\* ),

\* @OA\Property(

\* property="password",

\* type="string"

\* )

\* ),

\* example={

\* "email":"mdrabiulhasan.me@gmail.com",

\* "password":"123456"

\* }

\* )

\* )

\* ),

**Url Parameter Data**

\* @OA\Parameter(

\* in="path",

\* name="name",

\* required=true,

\* @OA\Schema(type="string")

\* ),

# @OA\Response

# @OA\Response are basically provided 3 ways

**Paste Your json response of example value**

\* @OA\Response(

\* response=400,

\* description="Email & Password Error",

\* @OA\JsonContent(

\* type="object",

\* example={"status":400,"success":false,"message":"Your email or password was incorrect"

\* )

\* ),

**Create response example by single/single field**

\* @OA\Response(

\* response=403,

\* description="success",

\* @OA\JsonContent(

\* @OA\Property(property="status", type="integer", example=403),

\* @OA\Property(property="success", type="boolean", example=false),

\* @OA\Property(property="message", type="string", example="Unauthenticated User"),

\* )

\* ),

**@OA\Property except 3 parameter**

* property=response field name
* type=response field data type
* example=response field example value

# JWT Authentication

# Add this code config/l5-swagger.php inside securityDefinitions[] securitySchemes[] array

'jwt\_token' => [

'type' => 'apiKey',

'description' => 'Enter token in format (Bearer <token>)',

'name' => 'Authorization',

'in' => 'header',

],

**Add this comment inside your comment method for enable authentication**

\* security={{"jwt\_token":{}}},

# Post Request With Parameter

/\*\*

\* Login

\* @OA\Post (

\* path="/auth/login",

\* tags={"Authentication"},

\* summary="Login with email & password",

\* description="This login api customer can login with email & password",

\* @OA\RequestBody(

\* @OA\MediaType(

\* mediaType="application/json",

\* @OA\Schema(

\* @OA\Property(

\* type="object",

\* @OA\Property(

\* property="email",

\* type="string"

\* ),

\* @OA\Property(

\* property="password",

\* type="string"

\* )

\* ),

\* example={

\* "email":"mdrabiulhasan.me@gmail.com",

\* "password":"123456"

\* }

\* )

\* )

\* ),

\* @OA\Response(

\* response=200,

\* description="Successfully Login",

\* @OA\JsonContent(

\* type="object",

\* example={"status":200,"success":true,"message":"Login successfully","data":{"token":"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOlwvXC8xMjcuMC4wLjE6ODAwMFwvYXBpXC9hdXRoXC9sb2dpbiIsImlhdCI6MTY1MzU1NDE0NiwiZXhwIjoxNjUzNTU3NzQ2LCJuYmYiOjE2NTM1NTQxNDYsImp0aSI6IlhseGpwWERmYnBrZzJQMmYiLCJzdWIiOjEsInBydiI6IjIzYmQ1Yzg5NDlmNjAwYWRiMzllNzAxYzQwMDg3MmRiN2E1OTc2ZjcifQ.763UrUujMp\_n6GFC5yR1ahsdkzq\_6JF53xJSv8A\_e2g","token\_type":"bearer","name":"Rabiul Hasan","expires\_in":3600}}

\* )

\* ),

\* @OA\Response(

\* response=400,

\* description="Email & Password Error",

\* @OA\JsonContent(

\* type="object",

\* example={"status":400,"success":false,"message":"Your email or password was incorrect"}

\* )

\* ),

\* @OA\Response(

\* response=403,

\* description="success",

\* @OA\JsonContent(

\* @OA\Property(property="status", type="integer", example=403),

\* @OA\Property(property="success", type="boolean", example=false),

\* @OA\Property(property="message", type="string", example="Unauthenticated User"),

\* )

\* ),

\*

\* )

\*/

# Get Request With Url Parameter

/\*\*

\* Url Parameter

\* @OA\Get (

\* path="/auth/name/{name}",

\* tags={"Authentication"},

\* summary="Url Parameter Pass",

\* description="This api fetch url parameter pass",

\* @OA\Parameter(

\* in="path",

\* name="name",

\* required=true,

\* @OA\Schema(type="string")

\* ),

\* @OA\Response(

\* response=201,

\* description="Success",

\* @OA\JsonContent(

\* type="object",

\* example={"status":200,"success":true,"message":"Your name is Rabiul-Hasan"}

\* )

\* ),

\* )

\*/

# Request with Authentication

/\*\*

\* user Profile

\* @OA\Get (

\* path="/auth/user-profile",

\* tags={"Authentication"},

\* summary="Authenticated User Profile",

\* description="This api fetch authentication user profile",

\* **security={{"jwt\_token":{}}},**

\* @OA\Response(

\* response=201,

\* description="Success",

\* @OA\JsonContent(

\* type="object",

\* example={"id":1,"name":"Rabiul Hasan","email":"mdrabiulhasan.me@gmail.com","email\_verified\_at":null,"created\_at":"2022-05-26T03:49:08.000000Z","updated\_at":"2022-05-26T03:49:08.000000Z"}

\* )

\* ),

\* )

\*/