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

**swagger doc specs**: has tags array, paths array, securityDefinitions, definitions (e.g. Pet, ApiResponse), externalDocs

<https://swagger.io/docs/specification/describing-responses/>

with API Management

**YAML** code: <https://www.youtube.com/watch?v=cdLNKUoMc6c>

YAML is a human friendly data serialization standard for all programming languages. Similar to JSON but without {} [] , .

**#** comments **>** for a very long description text after a variable to render in a single line

| to preserver the long text in different lines and spaces

& to put the variable as text

Variables:

Name: “Ramis”

DOB: 2009-03-25 14:35:20

------------ Using in Web API project --------

<https://docs.microsoft.com/en-us/aspnet/core/tutorials/getting-started-with-swashbuckle?view=aspnetcore-2.1&tabs=visual-studio%2Cvisual-studio-xml>

<https://www.c-sharpcorner.com/article/enable-swagger-in-your-net-core-2-0-application-step-by-step-guide/>

**API Documentation with Swagger/ Swagger UI**: It help the end user to understand about the APIs. what’s Data Model, Response Types, how to Test it etc. for other developer to use our new API.

Need nugget package (**Swashbuckle.AspNetCore** **swashbuckle**) + some code in API project

**add new middleware**: In Starup.cs Configure Services method add **services.AddSwaggerGen(){** // with some code **}**;

in Cofigure Mehod add **app.UseSwagger();** at the end of same method after Use MVC() add **app.UseSwaggerUI()**;

For Swagger UI go to: [http://localhost:1739/**swagger/ui/index.html**](http://localhost:1739/swagger/ui/index.html)

**Swagger UI**: Swagger UI is a collection of HTML, Javascript, and CSS assets that dynamically generate beautiful documentation from an OAS-compliant API.

**Install and Enable Annotations**: Install the following Nuget package into your ASP.NET Core application.

Package Manager : Install-Package Swashbuckle.AspNetCore.Annotations

Or try to find Swashbuckle.AspNetCore.Annotations

**Customize the UI**: Please not customize didn’t work for me with (should try the following url from start)

<https://docs.microsoft.com/en-us/aspnet/core/tutorials/getting-started-with-swashbuckle?view=aspnetcore-2.1&tabs=visual-studio%2Cvisual-studio-xml>

Acquire the contents of the dist folder from the Swagger UI GitHub repository. This folder contains the necessary assets for the Swagger UI page.

Create a wwwroot/swagger/ui folder, and copy into it the contents of the dist folder.

Create a custom.css file, in wwwroot/swagger/ui, with the following CSS to customize the page header:

OpenAPI = Specification (API specifications can be written in YAML or JSON.)

Swagger = Tools for implementing the specification

Swagger toolset includes a mix of open source, free, and commercial tools, which can be used at different stages of the API lifecycle.

**Swagger Codegen** – generates server stubs and client libraries from an OpenAPI spec. The only thing left is to implement the server logic – and your API is ready to go live.

Use Swagger Codegen to generate client libraries for your API.

swagger-codegen contains a template-driven engine to generate documentation, API clients and server stubs in different languages by parsing your OpenAPI / Swagger definition.