

## **Agenda**

- 1 What is Swagger?
- 2 Creating Swagger documents via Swagger Tools
- 3 Swagger specification
- 4 Introduction into Node.js REST API development with Swagger
- 5 Live demo

## What is Swagger?

Swagger is a specification for describing, producing, consuming, testing, and visualizing a RESTful API. It provides a number of tools for automatically generating documentation based on a given endpoint.

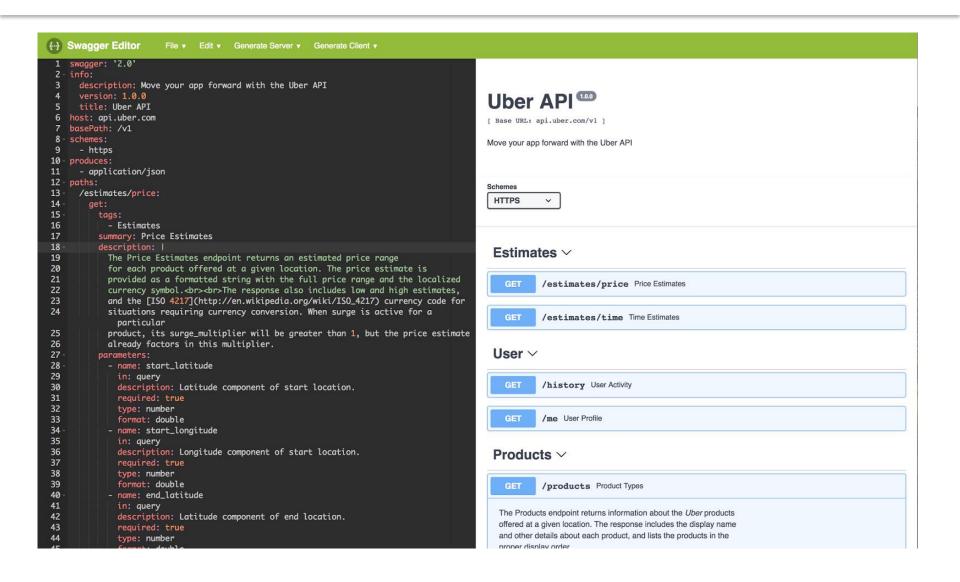
- Swagger development began in early 2010
- On 1-January 2016 the Swagger specification was renamed into the OpenAPI Specification

## OpenAPI(Swagger) specification

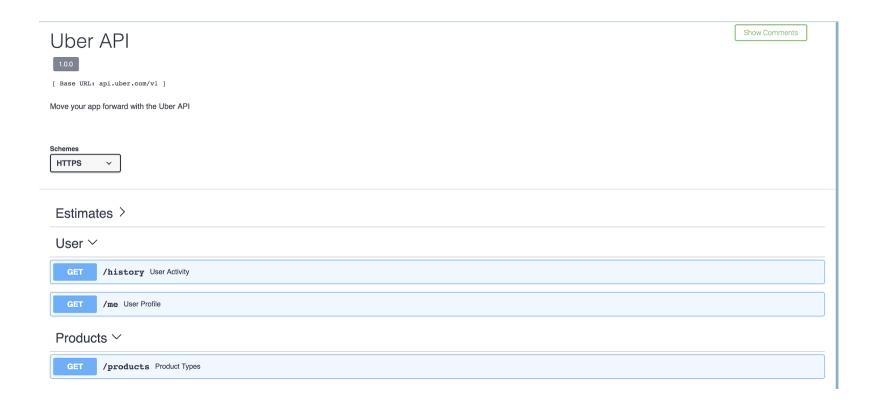
The OpenAPI Specification (OAS) defines a standard, language-agnostic interface to RESTful APIs which allows both humans and computers understand discover and the capabilities of the service without access to source code, documentation, or through network traffic inspection.

```
openapi: 3.0.0
   # Added by API Auto Mocking Plugin
 3 ⊳ servers: 🖘
 6 info: □
 20 taas: ■
 33 paths:
 34
      /pet:
        post:
 36
          tags:
 37
            - pet
          summary: Add a new pet to the store
 39
          operationId: addPet
 40
          responses:
 43
          security:
 47
          requestBody:
 49
        put:
 50
          tags:
 52
          summary: Update an existing pet
 53
          operationId: updatePet
 54→
          responses:
 61
          security:
 65
          requestBody:
 66
            $ref: '#/components/requestBodies/Pet'
67 ▶
      /pet/findByStatus:
109
      /pet/findByTags:
149
      '/pet/{petId}':
      '/pet/{petId}/uploadImage':
239
      /store/inventory:
270
289
      /store/order:
314
      '/store/order/{orderId}':
369
      /user:
      /user/createWithArray:
386
397
      /user/createWithList:
408
      /user/login:
      /user/logout:
450
      '/user/{username}':
    externalDocs:
```

## **Swagger Editor**



# **Swagger UI**

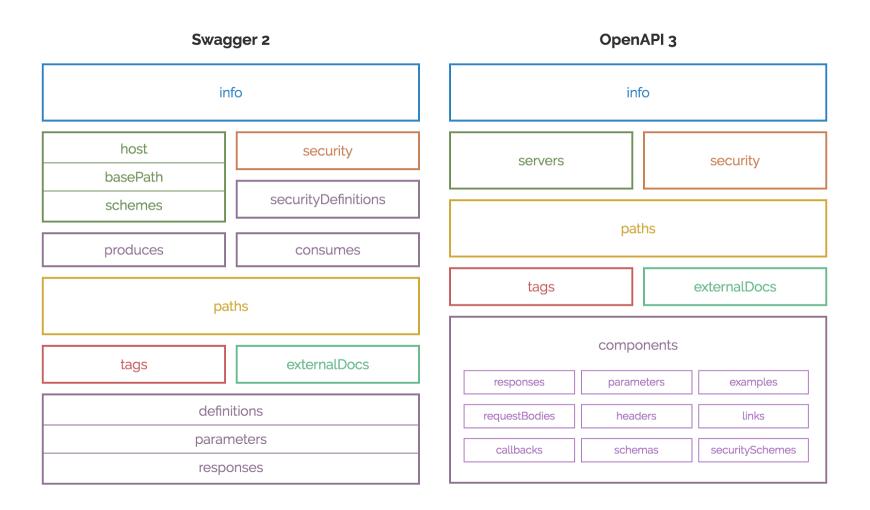


## **Swagger Hub**

SwaggerHub is an integrated API Development platform, built for teams, that brings the core capabilities of the Swagger framework to design, build, document and deploy APIs. SwaggerHub enables development teams to collaborate and coordinate the entire lifecycle of an API with the flexibility to integrate with the toolset of your choice.



## Syntax: Swagger 2.0 vs OpenAPI 3.0



## Swagger + Node.js Demo Project

- 1. npm isntall -g swagger #install swagger npm module
- 2. swagger project create chat-api #create a swagger skeleton project
- 3. swagger project start chat-api # run API server project
- 4. swagger project edit chat-api # start Swagger Editor + UI

- 5. npm install -g pretty-swag #install pretty-swag module
- 6. pretty-swag -i ./api/swagger/swagger.yaml #generate stand-alone doc.html

# THANK YOU