



NODE.JS GLOBAL

Swagger.Docs

MARCH, 2019

Agenda

- What is Swagger ?
- Swagger specification
- Swagger Tools
- Design First vs Code First

What is Swagger ?

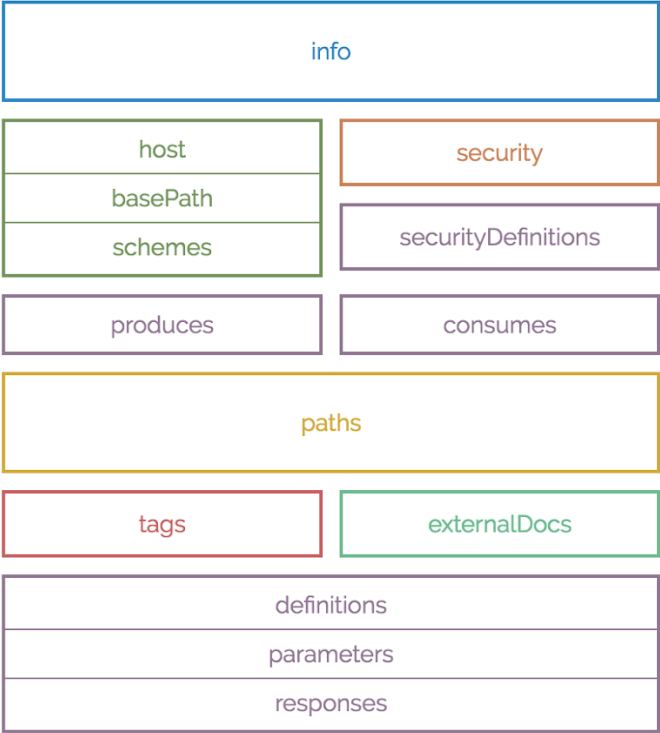
- Specification
- OpenAPI

Swagger specification

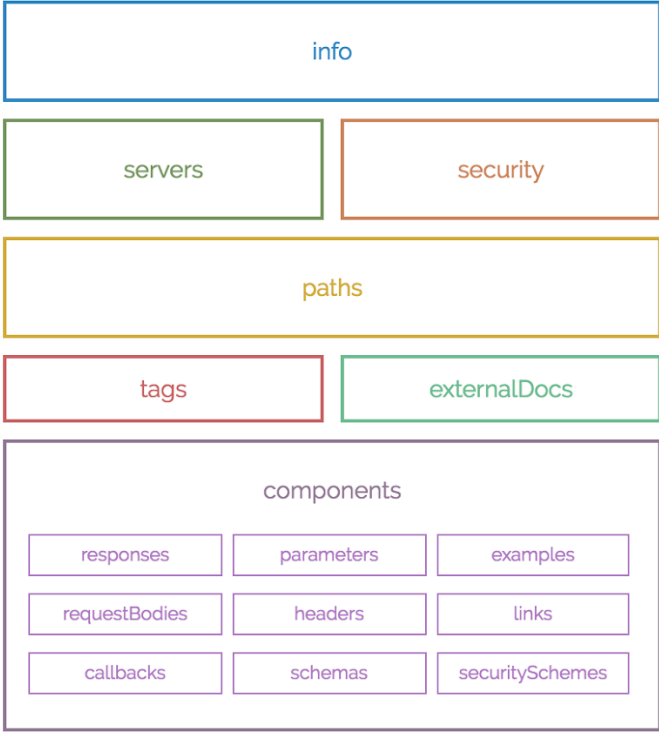
```
1 openapi: 3.0.0
2 # Added by API Auto Mocking Plugin
3 servers:
4
5 info:
6
7 tags:
8
9 paths:
10 /pet:
11   post:
12     tags:
13       - pet
14     summary: Add a new pet to the store
15     operationId: addPet
16     responses:
17
18     security:
19
20     requestBody:
21
22   put:
23     tags:
24
25     summary: Update an existing pet
26     operationId: updatePet
27     responses:
28
29     security:
30
31     requestBody:
32       $ref: '#/components/requestBodies/Pet'
33 /pet/findByStatus:
34
35 /pet/findByTags:
36
37 '/pet/{petId}':
38
39 '/pet/{petId}/uploadImage':
40
41 /store/inventory:
42
43 /store/order:
44
45 '/store/order/{orderId}':
46
47 /user:
48
49 /user/createWithArray:
50
51 /user/createWithList:
52
53 /user/login:
54
55 /user/logout:
56
57 '/user/{username}':
58
59 externalDocs:
60
61 components:
```

Swagger specification

Swagger 2



OpenAPI 3



Swagger specification

- General information about the API
- Available paths (/resources)
- Available operations on each path (get /resources)
- Input/Output for each operation

Swagger Tools

- Swagger UI
- Swagger Editor
- Swagger HUB

Swagger Tools.UI

Swagger UI is a collection of HTML, Javascript, and CSS assets that dynamically generate beautiful documentation.

Example: <http://petstore.swagger.io>

Swagger Tools.UI

Swagger Petstore 1.0.0

[Base URL: petstore.swagger.io/v2]
<https://petstore.swagger.io/v2/swagger.json>

This is a sample server Petstore server. You can find out more about Swagger at <http://swagger.io> or on [#swagger](irc://freenode.net). For this sample, you can use the api key `special-key` to test the authorization filters.

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




Schemes

HTTPS ▾

Authorize 

pet Everything about your Pets

Find out more: <http://swagger.io> ▾

POST	/pet	Add a new pet to the store	
PUT	/pet	Update an existing pet	
GET	/pet/findByStatus	Finds Pets by status	

The Swagger Editor is an open source editor to design, define and document RESTful APIs in the Swagger Specification.

Swagger Tools.Editor

Swagger EditorFile Edit Generate Server Generate Client

```
1 swagger: '2.0'
2 info:
3   description: Move your app forward with the Uber API
4   version: 1.0.0
5   title: Uber API
6   host: api.uber.com
7   basePath: /v1
8   schemes:
9     - https
10  produces:
11    - application/json
12  paths:
13    /estimates/price:
14      get:
15        tags:
16          - Estimates
17        summary: Price Estimates
18        description: |
19          The Price Estimates endpoint returns an estimated price range
20          for each product offered at a given location. The price estimate is
21          provided as a formatted string with the full price range and the localized
22          currency symbol.<br><br>The response also includes low and high estimates,
23          and the [ISO 4217](http://en.wikipedia.org/wiki/ISO_4217) currency code for
24          situations requiring currency conversion. When surge is active for a
25          particular
26          product, its surge_multiplier will be greater than 1, but the price estimate
27          already factors in this multiplier.
28        parameters:
29          - name: start_latitude
30            in: query
31            description: Latitude component of start location.
32            required: true
33            type: number
34            format: double
35          - name: start_longitude
36            in: query
37            description: Longitude component of start location.
38            required: true
39            type: number
40            format: double
41          - name: end_latitude
42            in: query
43            description: Latitude component of end location.
44            required: true
45            type: number
46            format: double
```

Uber API 1.0.0

[Base URL: api.uber.com/v1]

Move your app forward with the Uber API

Schemes

HTTPS

Estimates

GET /estimates/price Price Estimates

GET /estimates/time Time Estimates

User

GET /history User Activity

GET /me User Profile

Products

GET /products Product Types

The Products endpoint returns information about the *Uber* products offered at a given location. The response includes the display name and other details about each product, and lists the products in the proper display order

SwaggerHub provides a complete solution for designing, managing, and publishing documentation for your API

Swagger Tools.HUB

SMARTBEAR
SwaggerHub

<

+ Create New

MY hub

Search

ORGANIZATIONS

MY hub

Search within MyHub

Sort by: Recently updated

Spec

Type

Visibility

State

Owner



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uber-api

Move your app forward with the Uber API

API





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kubernetes

Kubernetes - [v1.10.0]

API



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Pets

This is a sample Petstore server. You can find out more about Swagger at...

API

OAS3





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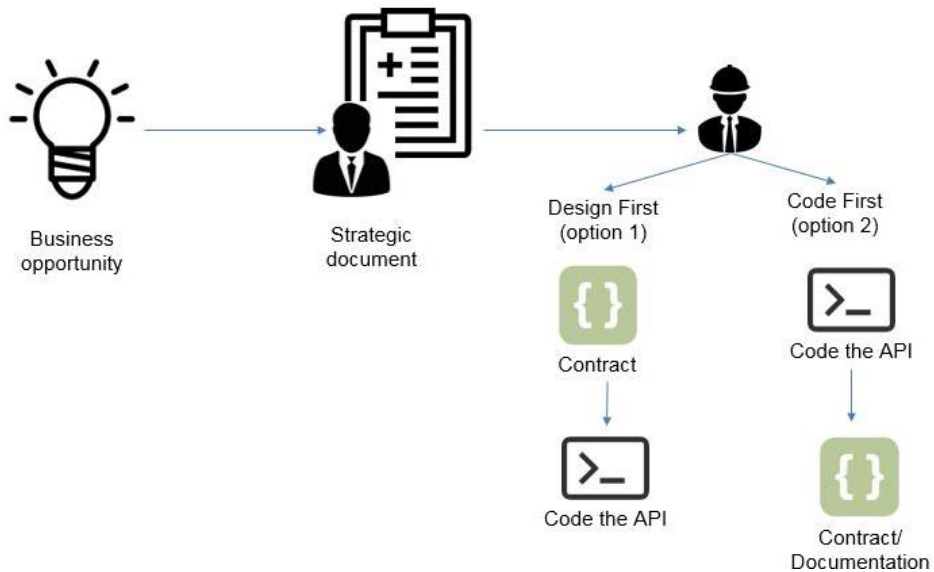
ConsentHub

This is a simple API

API



Design First vs Code First



Design First

- Developer experience matters
- Deliver mission critical APIs
- Ensuring good communication

Code First

- Delivery speedy matters
- Developing Internal APIs

A light blue world map is visible in the background, showing the outlines of continents and countries. The map is centered on the Atlantic Ocean.

NODE.JS GLOBAL

**SWAGGER
BY
SIARHEI MELNIK**