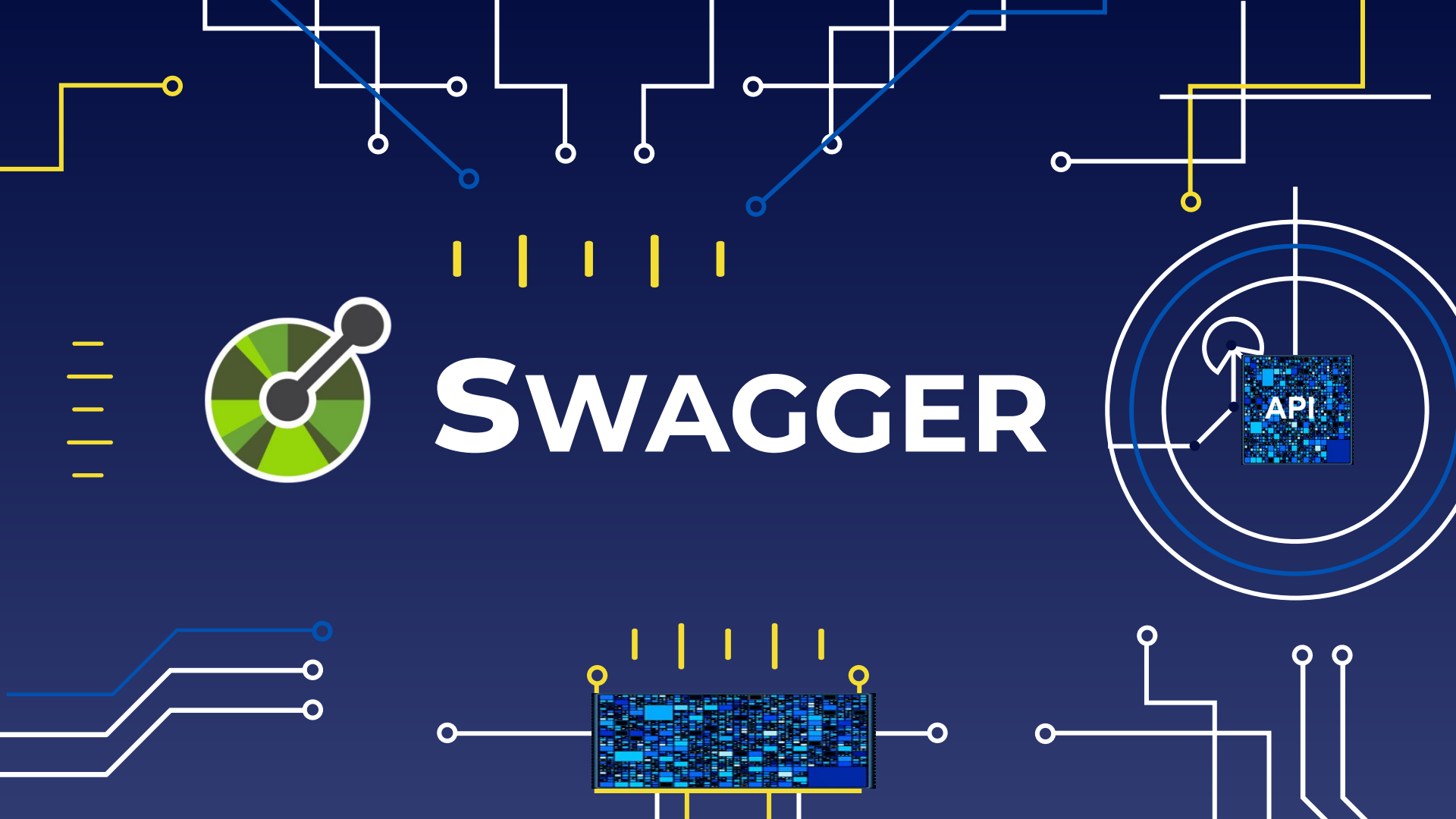
SWAGGER
API

Lets move on to the topic

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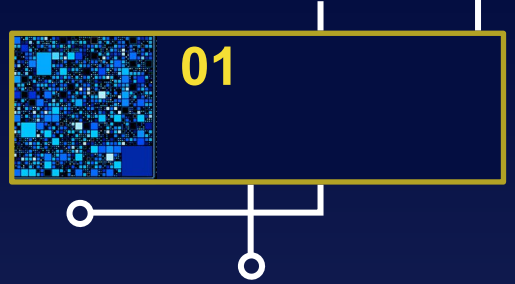
Live Approach How It Works

Syntax, Format, editor, setup etc



01

Documentation Tools

Notion,Readme,Google sheet, Postman **Swagger**

Problems We Face

- Not follow International standards
- Not machine supported
- Provides dynamic functionality
- User Interface & User Experience

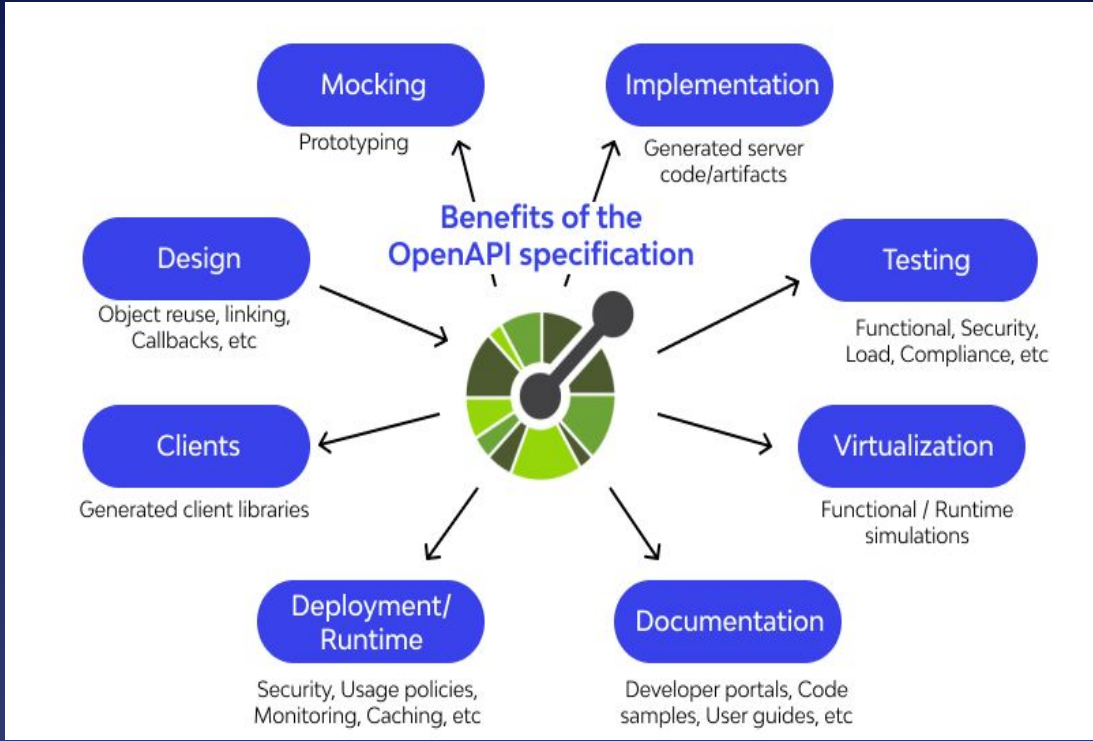
02

Open API Specification

International Standard for writing document.

It is a specification for a **machine-readable interface** definition language for describing, producing, consuming, and visualizing web services

Benefits of OAS



Why Swagger

The OpenAPI Specification, **previously known** as the Swagger Specification.

Why Swagger

By using Open API specification, Swagger company provides us with **three tools**

Swagger Solves

- Use Open API Specification
- Implements inheritance concept if needed
- Provides an interactive API documentation interface
- Code generation Features
- Includes extensions

04

Approach

Supported Formats

- JSON
- YAML

JSON

```json
{
    "openapi": "3.0.0",
    "info": {
      "title": "Cricket API",
      "version": "1.0.0",
      "description": "API for cricket data"
    },
    "paths": {
      "/cricket/teams": {
        "get": {
          "summary": "Get a list of cricket teams",
          "responses": {
            "200": {
              "description": "Successful response",
              "content": {
                "application/json": {
                  "example": {
                    "teams": [
                      {
                        "name": "Team A",
                        "captain": "Player A"
                      },
                      {
                        "name": "Team B",
                        "captain": "Player B"
                      }
                    ]
                  }
                }
              }
            }
          }
        }
      }
    }
}
```

YAML

```yaml
{
    "openapi": "3.0.0",
    "info": {
      "title": "Cricket API",
      "version": "1.0.0",
      "description": "API for cricket data"
    },
    "paths": {
      "/cricket/teams": {
        "get": {
          "summary": "Get a list of cricket teams",
          "responses": {
            "200": {
              "description": "Successful response",
              "content": {
                "application/json": {
                  "example": {
                    "teams": [
                      {
                        "name": "Team A",
                        "captain": "Player A"
                      },
                      {
                        "name": "Team B",
                        "captain": "Player B"
                      }
                    ]
                  }
                }
              }
            }
          }
        }
      }
    }
}
```

Basic Syntax part

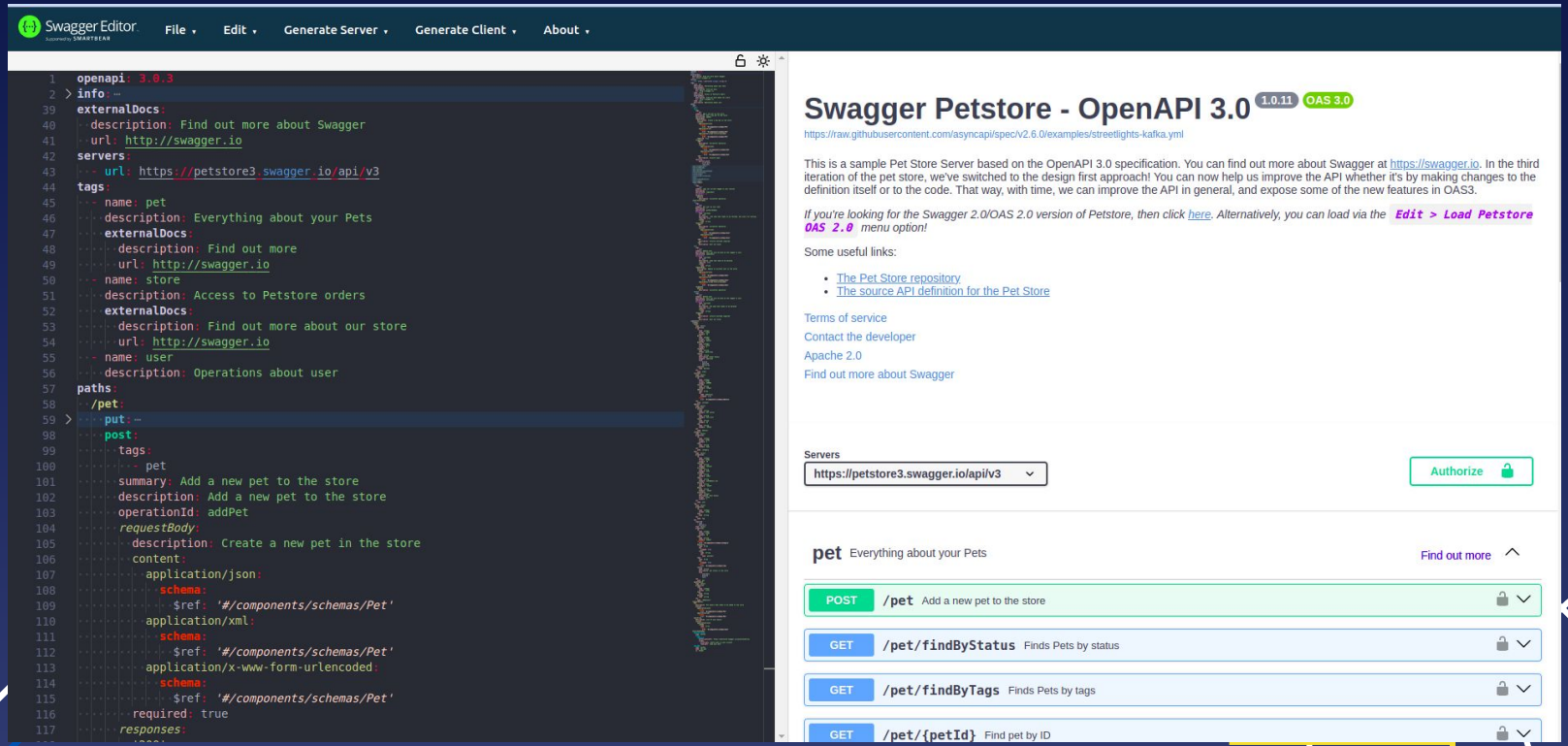
To create an open API using Swagger,
there are typically **three** key properties required:

- Open api version
- Info object
- Paths object

```
openapi: 3.1.0
info:
servers:[]
tags:[]
paths:{}
security:[]
components:{}
```

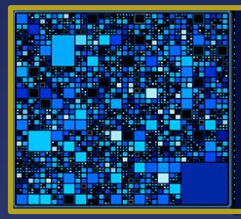
Editor

- https://editor-next.swagger.io/
- Visual Studio Code



Live Demo

THANKS!



Swagger