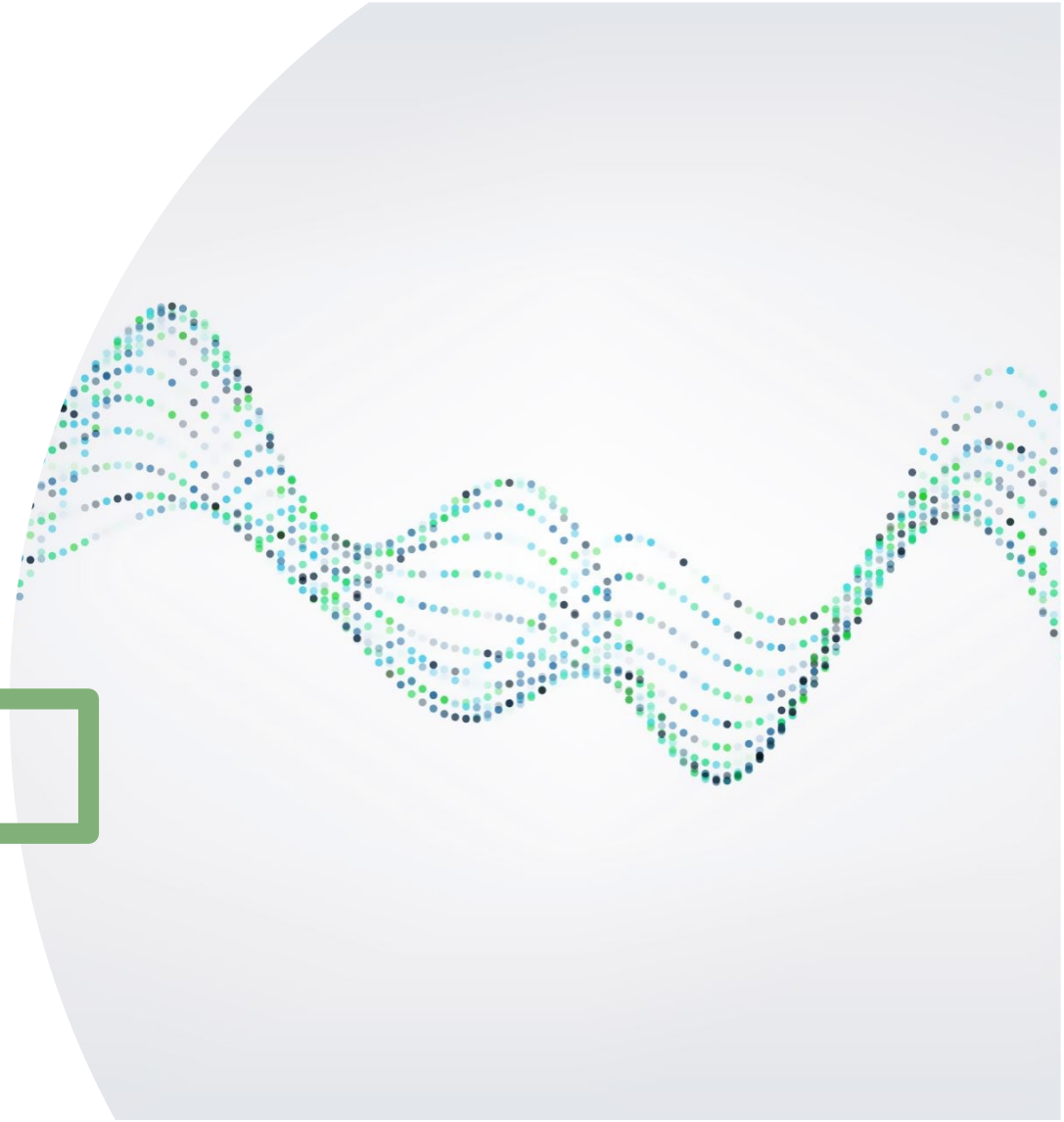
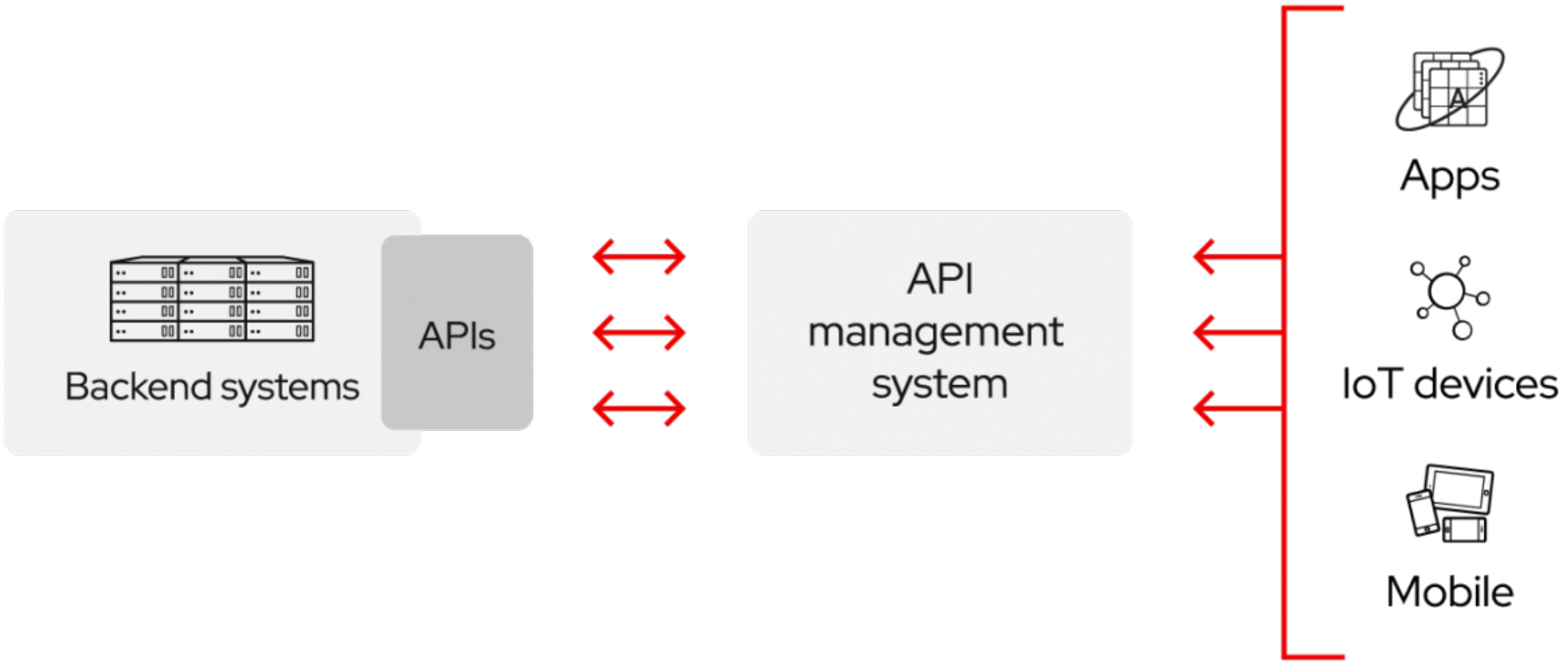
API

Application Programming Interface



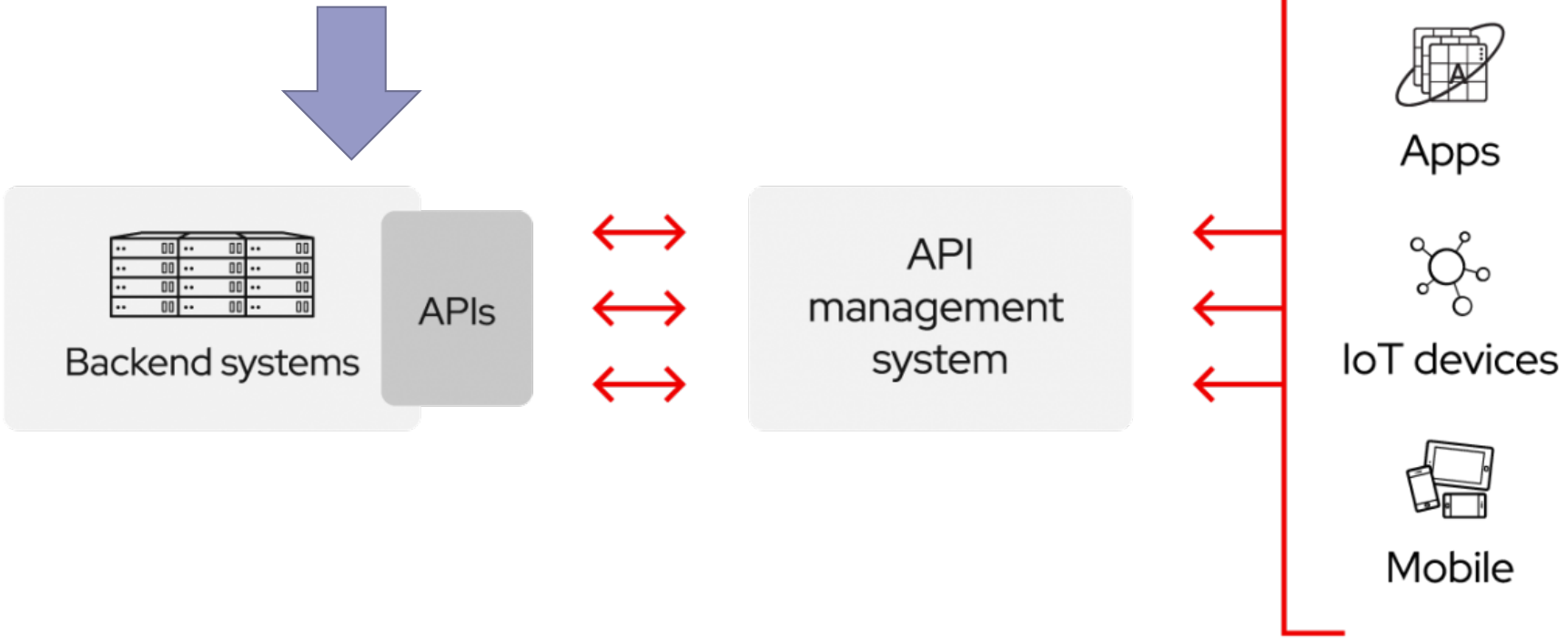
API

- An API is a set of definitions and protocols for building and integrating application software.
- APIs let your product or service communicate with other products and services without having to know how they're implemented.
- APIs are sometimes thought of as contracts, with documentation that represents an agreement between parties: If party 1 sends a remote request structured a particular way, this is how party 2's software will respond.


Backend systems
APIs
API management system
Apps
IoT devices
Mobile

Softwares connecting with database

- Java
- Python
- NodeJS
- MongoDB



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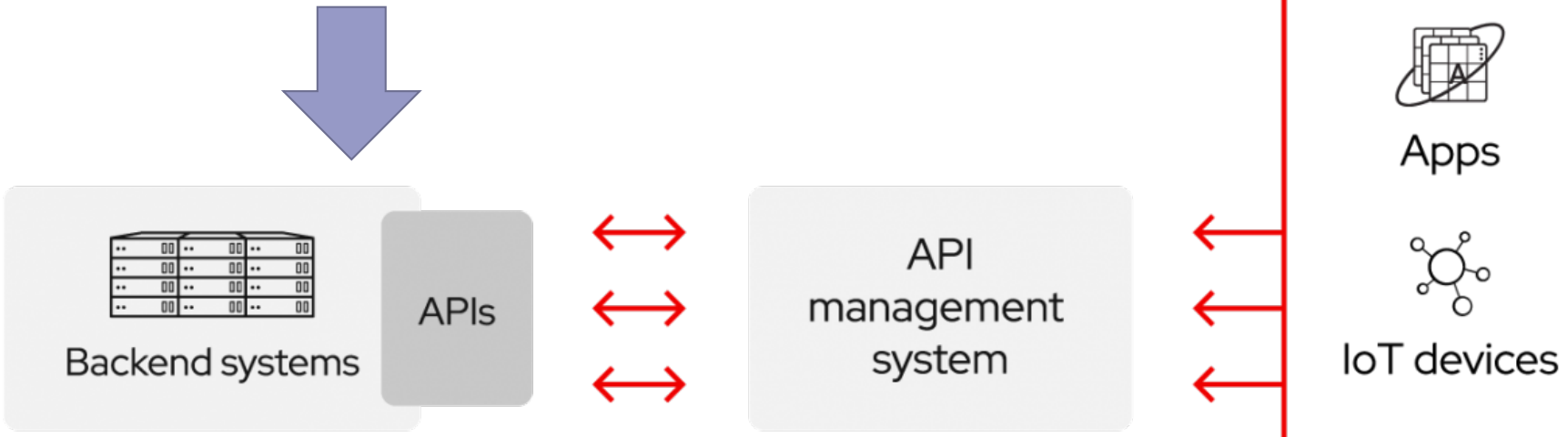

Software web

- NodeJS
- Java
- Python
- PHP

Softwares connecting with database

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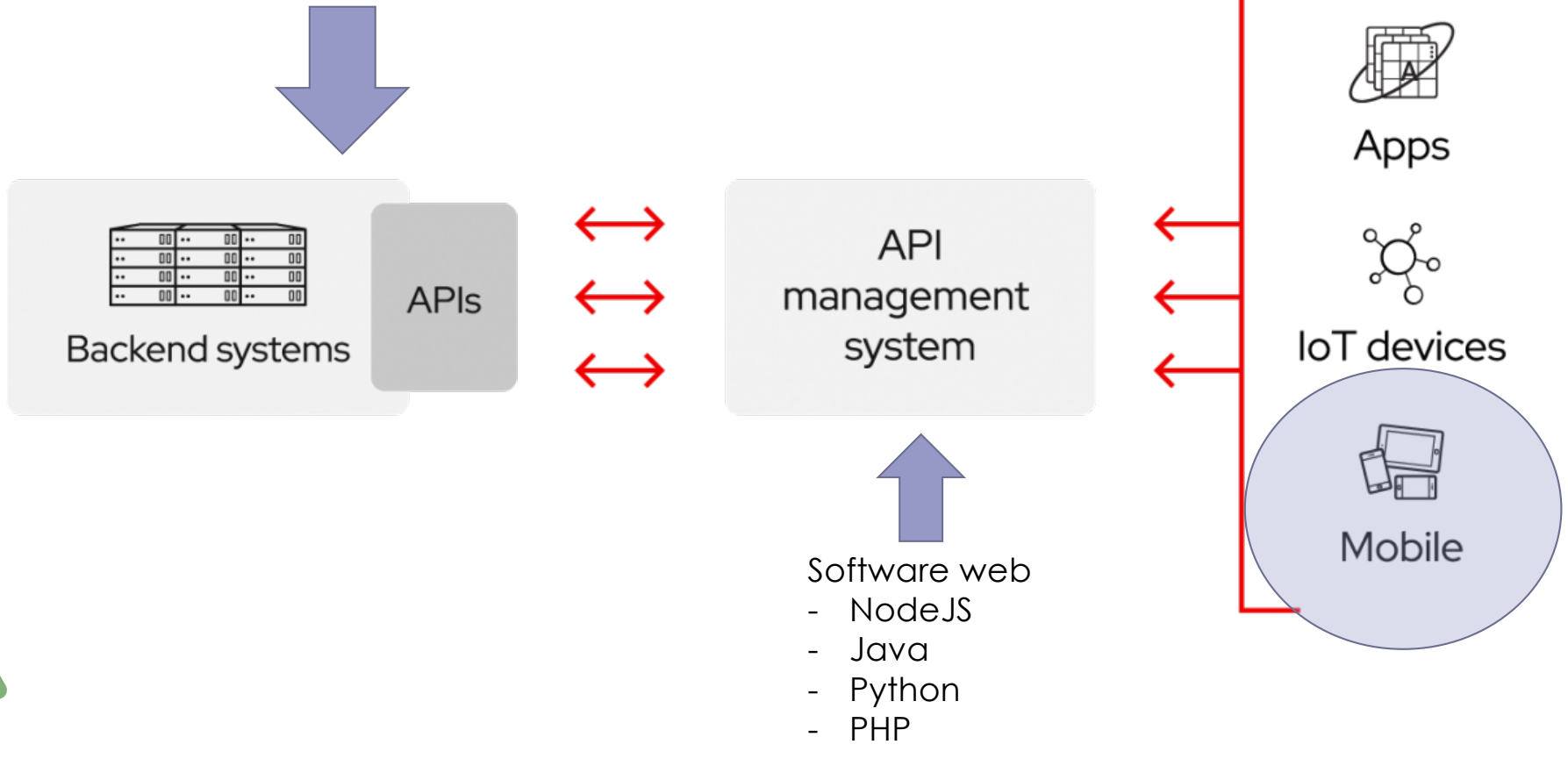
- Python
- NodeJS
- MongoDB



Software web

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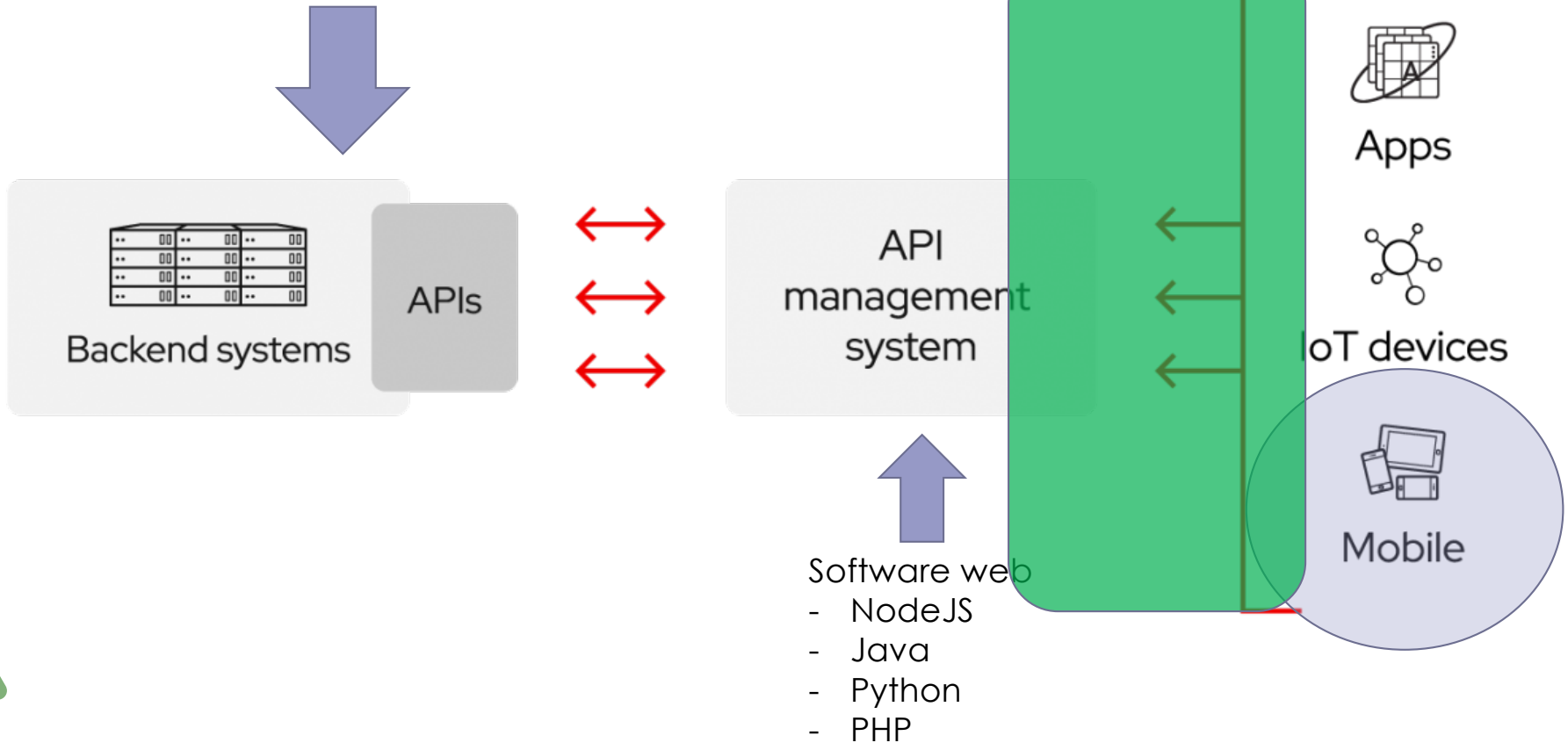

How does look a real API for us?

How does look a real API for us?

JSON FORMAT


```
{
    "page": 1,
    "results": [
        {
            "adult": false,
            "backdrop_path": "/8s4h9friP6Ci3adRGahHARVd76E.jpg",
            "genre_ids": [
                16,
                35,
                10751,
                878
            ],
            "id": 379686,
            "original_language": "en",
            "original_title": "Space Jam: A New Legacy",
            "overview": "When LeBron and his young son Dom are trappe
                leading Bugs, Lola Bunny and the whole gang of notori
                champions on the court. It's Tunes versus Goons in th
            "popularity": 9054.455,
            "poster_path": "/5bFK5d3mVTAvBCXi5NPWH0tYjKl.jpg",
            "release_date": "2021-07-08",
            "title": "Space Jam: A New Legacy",
            "video": false,
            "vote_average": 7.8,
            "vote_count": 1185
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<?xml version='1.0' encoding='utf-8'?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <soapenv:Body>
        <ns1:GetCDLPDF xmlns:ns1="http://cropscape.csiss.gmu.edu/CDLService/">
            <year>2011</year>
            <fips>19037</fips>
            <papersize>Letter</papersize>
            <title>2011 Chickasaw County, Iowa</title>
            <boundaryflag>true</boundaryflag>
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(a)


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XML FORMAT

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API REST

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XML FORMAT

API REST

Simple Object Access Protocol

SOAP

link

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API REST

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THE MOST USED


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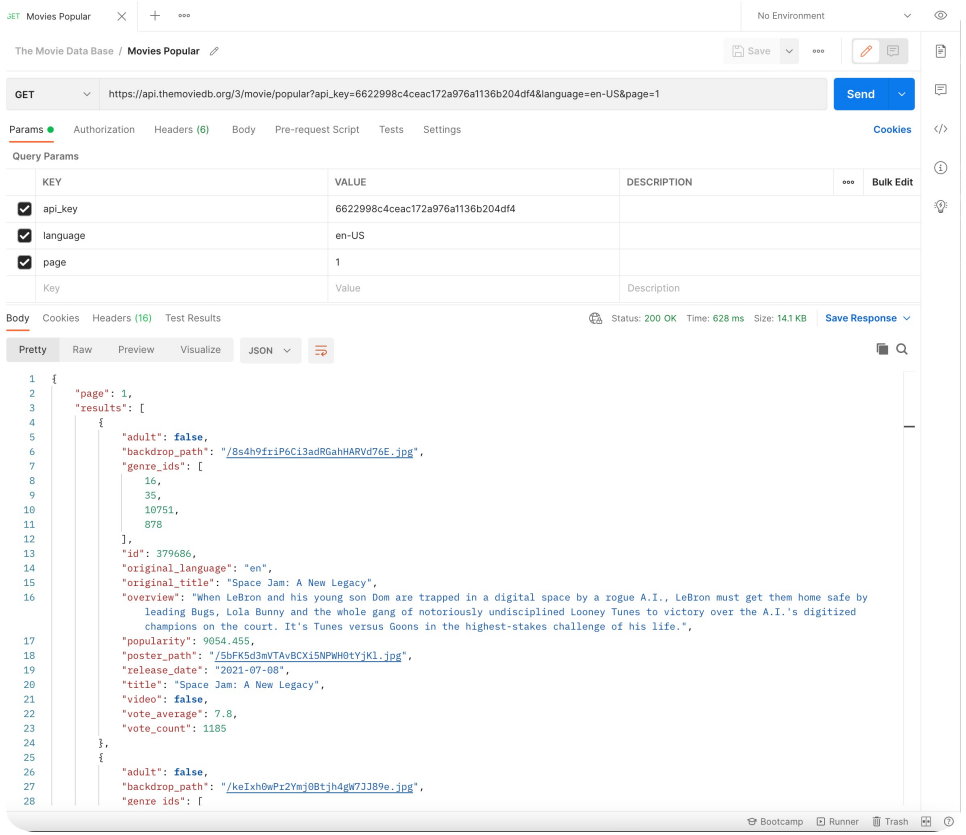
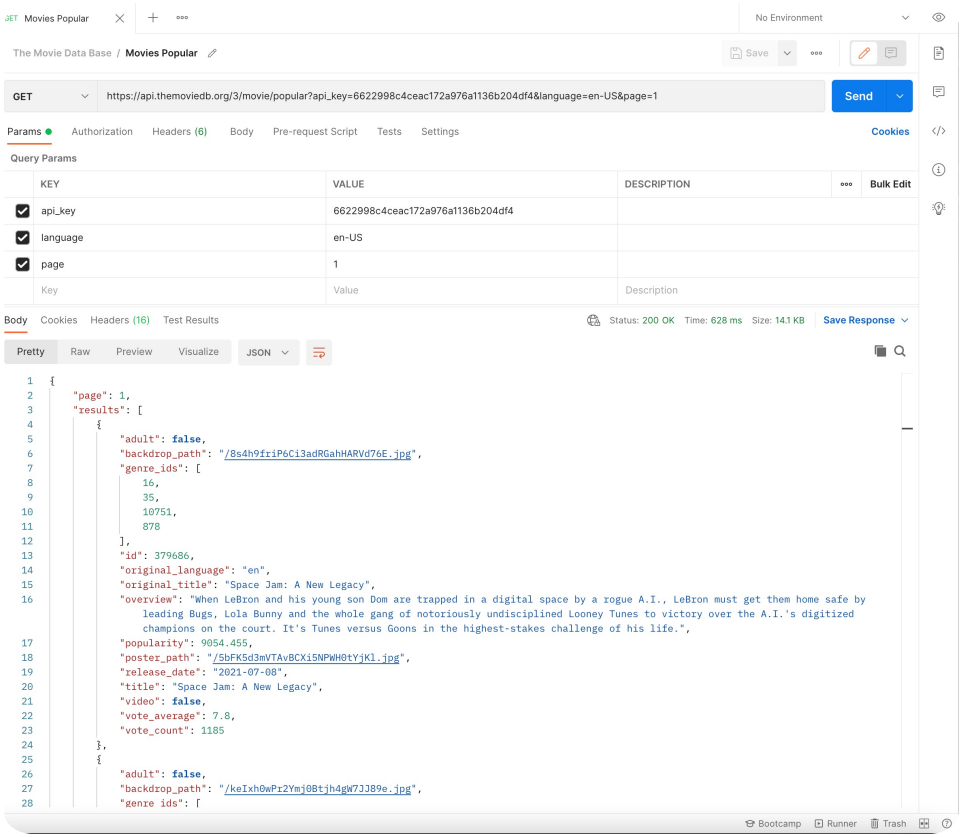


Which are tools that I can use to see an API?

There are many!

Here you are that I like.

- Postman
- Insomnia
- Soapui
- Web browser



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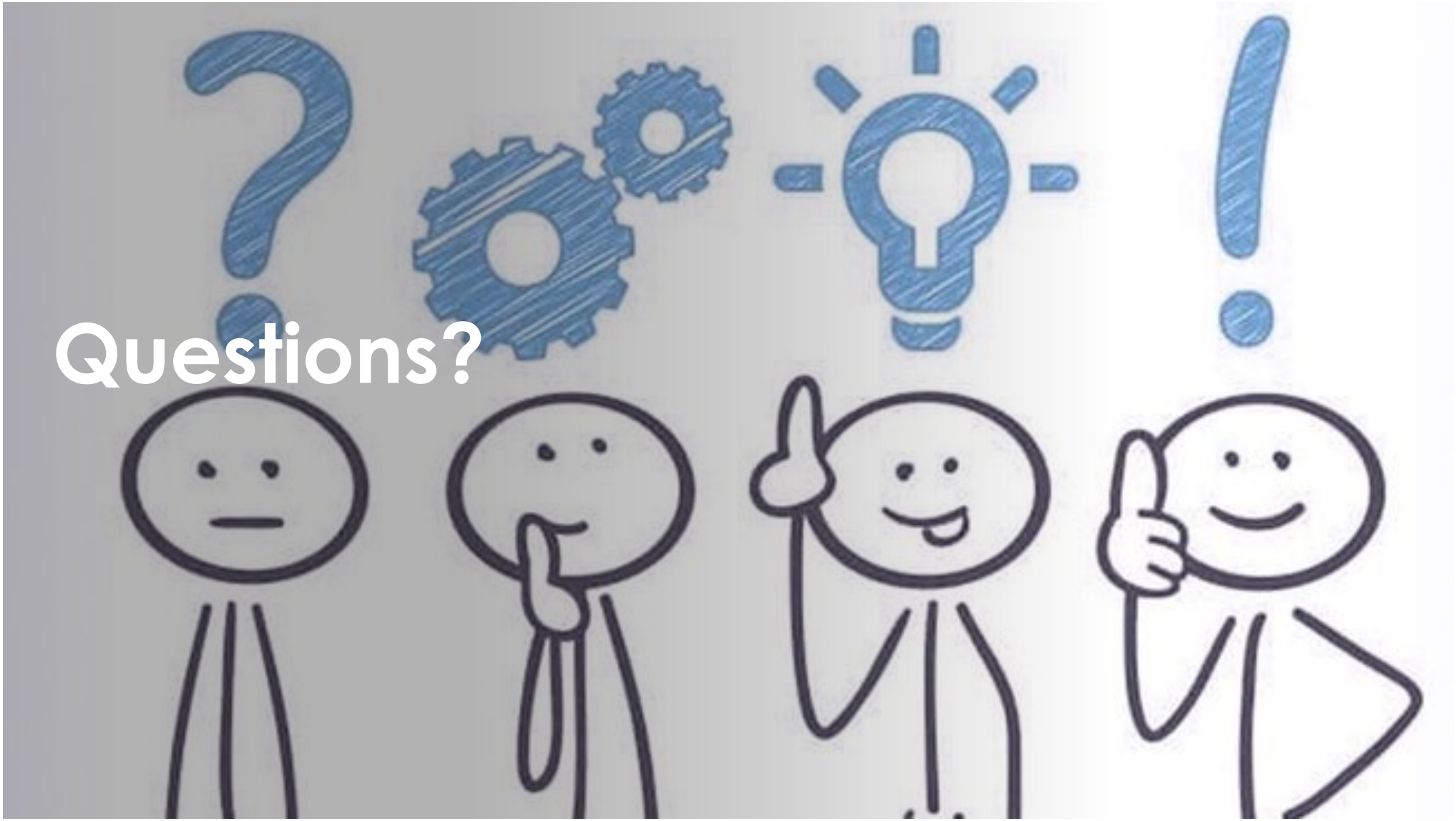
Remember and API always has documentation

EXAMPLES


Questions?