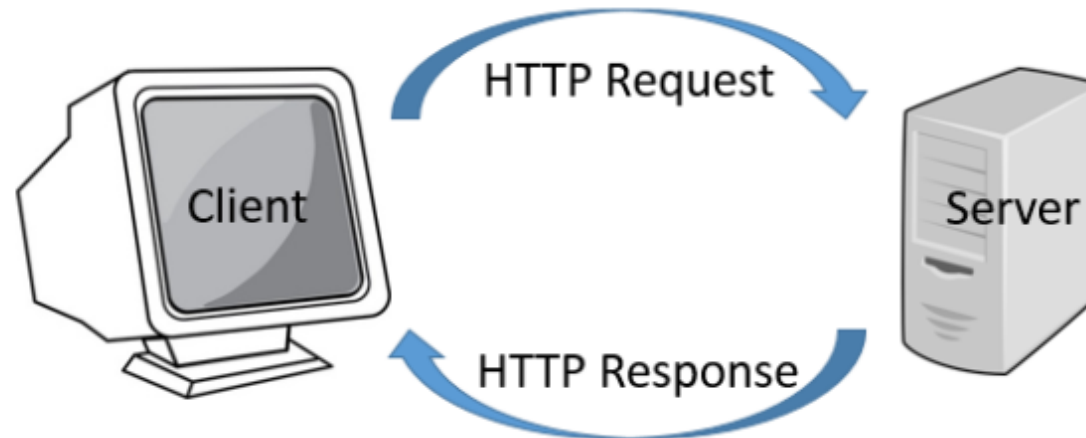


**HTTP is the format used to structure
request and responses on communication
between a client and a server**



In Javascript we use **Axios** to send an HTTP **request** and handle their **responses**,

⇒ **axios**

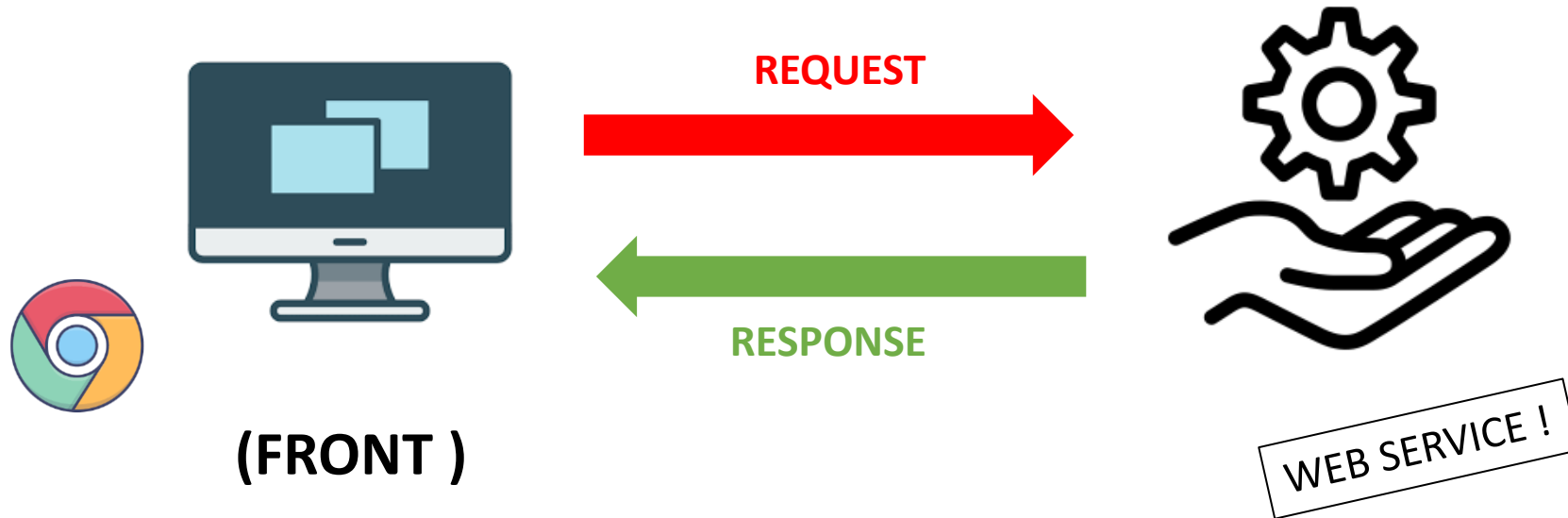


OBJECTIVES



- ✓ Understand what is an **API** and how to use them
- ✓ Understand the anatomy of an **HTTP request**
- ✓ Be able to define requests

On your website, you can ask
a web service to help you



What is an API ?

THE MENU OF THE SERVICES



A web API (Application Programming Interface)

Gives you the menu :



WEB API

Endpoints (URL) to send requests to **web service**
parameters to specify for each request

`https://www.smashingmagazine.com/tag/javascript/?query1=value1&query2=value2`

Root-endpoint = host of server +

Path

PARAMETERS

= ENDPOINT

ACTIVITY 1

🕒 10 MIN

Example of API : omdbapi

- 1 – Go to <http://www.omdbapi.com/>
- 2 – What are the **web services** available ? What are their **endpoints** ?
- 3 – What are the **parameters**, and their **roles** ?

OMDb API

The Open Movie Database

The OMDb API is a RESTful web service to obtain movie information, all content and images on the site are contributed and maintained by our users.

If you find this service useful, please consider making a [one-time donation](#) or [become a patron](#).



Poster API

The Poster API is only available to patrons.

Currently over 280,000 posters, updated daily with resolutions up to 2000x3000.

Example of API : omdbapi

Service 1 : movies

Service 2 : posters

Send all data requests to:

`http://www.omdbapi.com/?apikey=[yourkey]&`

Poster API requests:

`http://img.omdbapi.com/?apikey=[yourkey]&`

Endpoints

Parameters and roles ...

Parameters

By ID or Title

Parameter	Required	Valid Options	Default Value	Description
i	Optional*		<empty>	A valid IMDb ID (e.g. tt1285016)
t	Optional*		<empty>	Movie title to search for.
type	No	movie, series, episode	<empty>	Type of result to return.
y	No		<empty>	Year of release.
plot	No	short, full	short	Return short or full plot.
r	No	json, xml	json	The data type to return.
callback	No		<empty>	JSONP callback name.
v	No		1	API version (reserved for future use).

*Please note while both "i" and "t" are optional at least one argument is required.

By Search

A special parameter : the API key

Send all data requests to:

`http://www.omdbapi.com/?apikey=[yourkey]&`

Poster API requests:

`http://img.omdbapi.com/?apikey=[yourkey]&`

API key

= **Security** for accessing the service

Can be private/public with access restriction...


Generate API Key

Account Type

☐ Patreon

☒ FREE! (1,000 daily limit)

ACTIVITY 2

 10 MIN

Find the URL !

Send in message to the conversation, what is the corresponding URL for each service ! The first who is correct wins the point !

QUERY	URL
1- Get info of « Avengers »	1: http://www.omdbapi.com/?apikey=[yourkey]&t=Avengers

Get ready !

ACTIVITY 2

 10 MIN

Find the URL !

Send in message to the conversation, what is the corresponding URL for each service ! The first who is correct wins the point !

QUERY	URL
1- Get all info of « Fight Club »	
2- Get all movies from 2013 with « jedi » in title	
3- Get the full plot of the serie named « utopia »	
4- Search all posters of series with title « potatoe »	
5- get the second page of search for all movies with « friend » in their title, get the result in xml type	