

Week 06 - Day 03

HITTP protocol

Protocol used to run internet!

GET, POST, UPDATE, DELETE, PUT

GET example

https://www.theguardian.com

https://www.google.com.sg/search?dcr=0&source=hp&q=test&oq=test

https = protocol

www.google.com.sg = host

dcr=0&source=hpq=test&oq=test = parameters of the request

POST example

https://github.com/ - login

API

Interface to access/modify information

"Calling functions from the web"

Private APIs (e.g. mobile app)

Vs.

Public APIs (e.g. Twitter)

Restful API

Example: <u>Twitter API</u>

Example: Stripe API

HTTP protocol

Json (in most of the cases)

HTTP protocol = to make requests

Json = to get responses

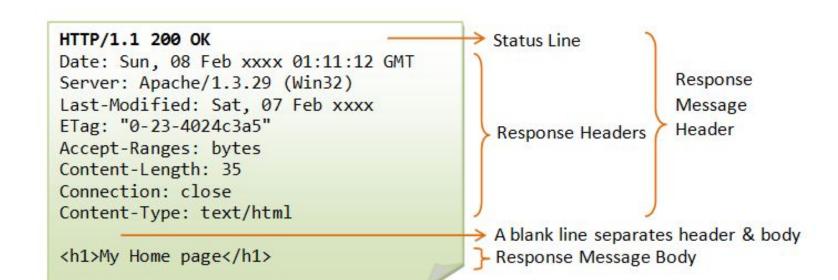
Example

https://swapi.co/api/people/?format=json&search=obi

HTTP Request Methods:

- GET => Retrieve a resource.
- POST => Create a resource.
- PATCH (or PUT, but PATCH is recommended) => Update an existing resource.
- Delete a resource.
- HEAD => Retrieve the headers for a resource.

Of these, **GET** and **POST** are the most widely used.



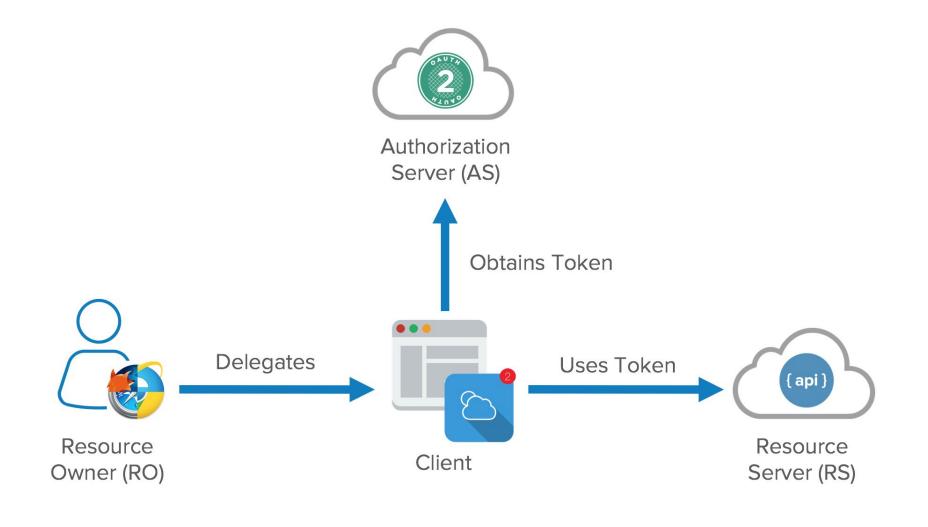
Code	Reason
200	ок
301	Moved Permanently
302	Moved Temporarily
307	Temporary Redirect
400	Bad Request
403	Forbidden
404	Not Found
500	Internal Server Error

API Access

- 1. Browser (only get)
- 2. Curl for testing
- 3. Using a tool
- 4. Python using request
- 5. Python using a wrapper (example)

Authentication

OAuth



Question for you

API vs. Web Scraping?