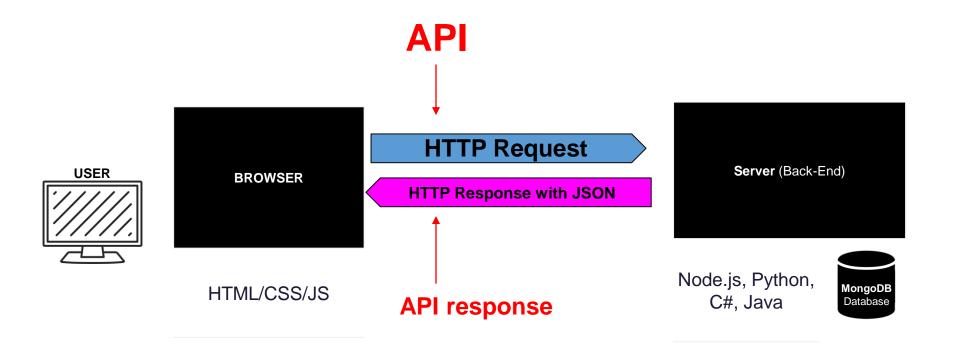
API Economy (oh yea – and what's this JSON all about?)

June 20, 2019

# **RoadtoHire**

### Full stack environment

### A couple of the components



Road to Hire

# WHAT IS AN API?



## An application programming interface (API)

is a set of features and rules that exist inside a software program (the application) enabling interaction with it through software—as opposed to a human user interface.

— MDN Web Docs, <u>developer.mozilla.org</u>

# Common use case

#### **Functions for data**

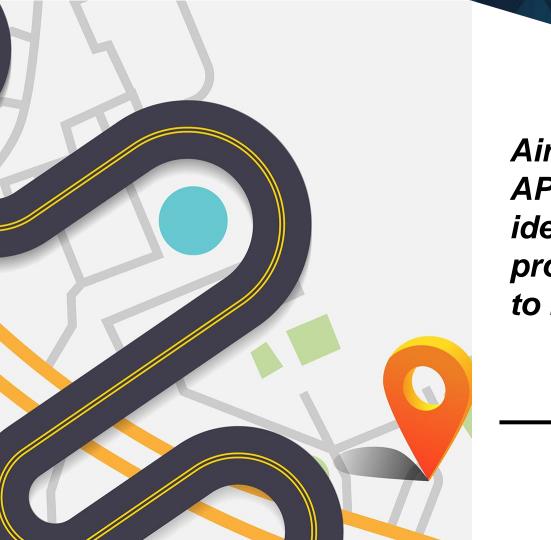
Weather data
Star wars data
Move data
Credit Card Authorization

# Functions for other functions

Google maps Spotify tools

## Functions to control devices

Nest
Airplane engines
Self driving cars



Airbnb uses Google Maps API to help customers identify locations of properties they may want to rent

Airbnb website

# WHAT IS JSON?

JSON is an acronym and means JavaScript Object Notation. JSON is an object and is used as a data interchange format.

JSON is a **lightweight** data interchange format used to correlate keys with values.

```
"apiVersion":"2.0",
                 "data":{
                    "updated": "2010-01-07T19:58:42.949Z",
                    "totalItems":800,
Array
                    "startIndex":1.
                     'items":[
             6
                        {"id":"hYB0mn5zh2c",
Object
                         "uploaded":"2007-06-05T22:07:03.000Z",
             8
             9
                         "updated": "2010-01-07T13:26:50.000Z",
                         "uploader": "GoogleDeveloperDay",
            10
Key or
                         "category": "News",
Property 12
                         "title": "Google Developers Day US - Maps API Introduction",
                         -"description": "Google Maps API Introduction ...",
            14
                         "tags":["GDD07","GDD07US","Maps"],
            15
                         "duration":2840.
            16
                         "rating":4.63,
            17
                         "viewCount":220101,
            18
                         "favoriteCount":201,
                                                                  Value
            19
                         "commentCount":22
            20
            21
            22
```

# TIME FOR A POLL!!

https://pollev.com/patrickhowar106

# We're software engineers! We can figure this out!!

#### Let's tap into APIs to help

03

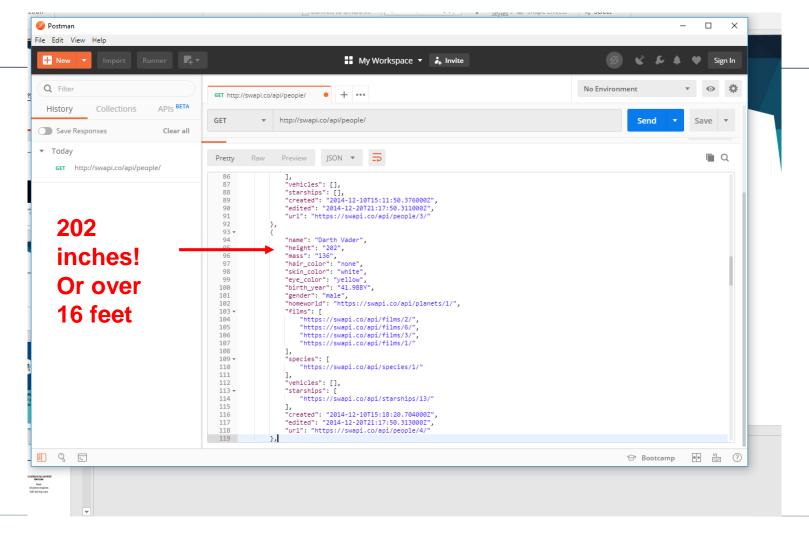
Download postman on your laptop https://www.getpostman.com/

Open up postman and follow my lead from the screen to enter and trigger an API

We'll discuss the results once everyone succeeds with this operation

# Use Postman to trigger an API 'get'

https://swapi.co/api/people/1



# Lets Live Code!! And learn a little more about objects



www.roadtohire.org