JSON stands for Javascript object notation and is a lightweight data interchange format that replaced XML in the early 2000s.

Its extremely easy to read/write and is lightweight.

It is simply a fomat to transfer data from client to server.

JSON can contain Objects, arrays, Booleans, strings, numbers and null.

{

“name”:”Silas”,

“favoriteNumber”:10,

“isProgrammer”:true

“hobbies”:[“Weight Lifting”,”Bowling”],

“friends”:null,

“car”:{

“manufacturer”:”Ford”,

“make”:”Mustang”

}

}

What is an API?

An API stands for Application Programming Interface, which is a set of definitions and protocols for building and integrating application software. Basically an API is how 2 applications talk to each other.

A type of API that is very popular is known as a RESTful API conforms to the guidelines set by computer scientist roy fielding:

1. A client-server architecture made up of clients, servers, and resources, with requests managed through HTTP.

2. Stateless client-server communication, meaning no client information is stored between get requests and each request is separate and unconnected.

3. Cacheable data that streamlines client-server interactions.

3. A uniform interface between components so that information is transferred in a standard form. This requires that:

a. resources requested are identifiable and separate from the representations sent to the client.

b. resources can be manipulated by the client via the representation they receive because the representation contains enough information to do so.

c. self-descriptive messages returned to the client have enough information to describe how the client should process it.

d. hypertext/hypermedia is available, meaning that after accessing a resource the client should be able to use hyperlinks to find all other currently available actions they can take.

4. A layered system that organizes each type of server (those responsible for security, load-balancing, etc.) involved the retrieval of requested information into hierarchies, invisible to the client.

5. Code-on-demand (optional): the ability to send executable code from the server to the client when requested, extending client functionality.

Take a look at the API.

http status codes:

https://developer.mozilla.org/en-US/docs/Web/HTTP/Status