

<https://en.wikipedia.org/wiki/API>

hplussport.com/api/products

Definition

API stands for Application Programming Interface. It is a connection between two computer programs, a software service offering communication between pieces of software. A document or standard that describes how to build such connections/API is known as API specification.

The request and response cycle

GET: Get data sent to you, POST: Update data on the server , PUT: Add new data to the server, DELETE: Delete data from the server

XML (Extensible Markup Language) JSON (Javascript Object Notation)

<root>	{
<name> </name>	"name" : "Udesh",
<employer></employer>	"employer" : "Programmer",
<hobbies></hobbies>	"hobbies" : "listening to music"
</root>	}

What is JSON

JSON (Javascript Object Notation)

```
{
  Key      value
"name" : "udesh"
}
```

Parsing data

Parse -> Processing of taking, converting one data into another data format. Example 1:

Parse high level code into machine code. Example 2: Convert data from a string to an object

String ----> JSON.parse(response) ----> Object

Working with objects

Properties and actions associated with objects

Example JS

```
var scooter = {
  make: "Honda" ,
  model: "6G",
  year: "2020"
  honk: function() {
    alert("Headlight auto on");
  },
  driver: { name: "Udesh", license: "Two wheeler"
}
```

"Get the properties of objects using dot notation"