

<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"  
}
```