JSON Format

JavaScript Object Notation (but language independent)

Used to format data

Commonly used in Web as a vehicle to describe data being sent between systems

Example:

- An *object* is an unordered set of name/value pairs
- The pairs are enclosed within braces, { }
- There is a colon between the name and the value
- Pairs are separated by commas
- Example: { "name": "html", "years": 5 }
- An array is an ordered collection of values
- The values are enclosed within brackets, []
- Values are separated by commas
- Example: ["html", "xml", "css"]
- A value can be: A string, a number, true, false, null, an object, or an array
- Values can be nested
- *Strings* are enclosed in double quotes, and can contain the usual assortment of escaped characters

REST API:

- Representational State Transfer
- State can be represented in JSON, XML, text, YAML, etc
- Technology independent communication between otherwise potentially incompatible systems

HTTP Methods

The *PUT*, *GET*, *POST* and *DELETE* methods are typically used in REST based architectures. The following table gives an explanation of these operations:

HTTP Method	CRUD Operation	Description
POST	INSERT	Addes to an existing resource
PUT	UPDATE	Overrides existing resource
GET	SELECT	Fetches a resource. The resource is never changed via a GET request
DELETE	DELETE	Deletes a resource

HTTP REST Response:

HTTP/1.1 200 OK (285ms)

Date: Fri. 21 Apr 2017 10:27:20 GMT

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/7.0.16

X-Powered-By: PHP/7.0.16

Content-Length: 109

Keep-Alive: timeout=5, max=100

Connection: Keep-Alive

Content-Type: application/json; charset=UTF-8

{"status":"success"."message":"City

List", "data": [{"city_name": "Visakhapatnam"}, {"city_name": "Vijayawada"}]}

HTTP REST API Response

HTTP Response Status Code:

1xx	Informational Codes
2xx	Successful Codes
3xx	Redirection Codes
4xx	Client Error Code
5xx	Server Error Codes

List at here: https://en.wikipedia.org/wiki/List of HTTP status codes