

FRONTEND- BACKEND CONNECTION



Date object

JavaScript **Date** objects represent a single moment in time in a platform-independent format. **Date** objects contain a **Number** that represents milliseconds since 1 January 1970 UTC.

Type	Example
ISO Date	"2015-03-25" (The International Standard)
Short Date	"03/25/2015"
Long Date	"Mar 25 2015" or "25 Mar 2015"

```
new Date()  
new Date(year, month, day, hours, minutes, seconds, milliseconds)  
new Date(milliseconds)  
new Date(date string)
```

Method	Description
getFullYear()	Get the year as a four digit number (yyyy)
getMonth()	Get the month as a number (0-11)
getDate()	Get the day as a number (1-31)
getHours()	Get the hour (0-23)
getMinutes()	Get the minute (0-59)
getSeconds()	Get the second (0-59)
getMilliseconds()	Get the millisecond (0-999)
getTime()	Get the time (milliseconds since January 1, 1970)
getDay()	Get the weekday as a number (0-6)
Date.now()	Get the time. ECMAScript 5.

JSON

JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write.

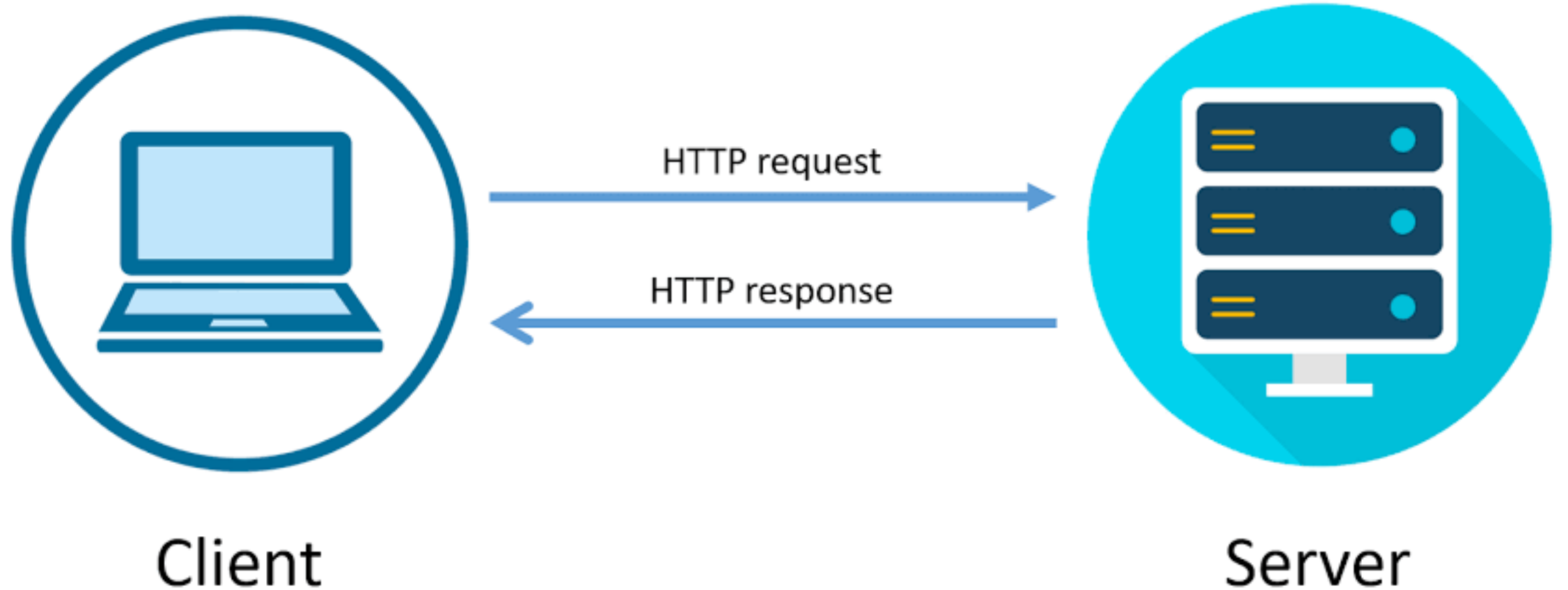
```
'{"name":"John", "age":30, "car":null}'
```

JavaScript has a built in function for converting JSON strings into JavaScript objects:

```
JSON.parse()
```

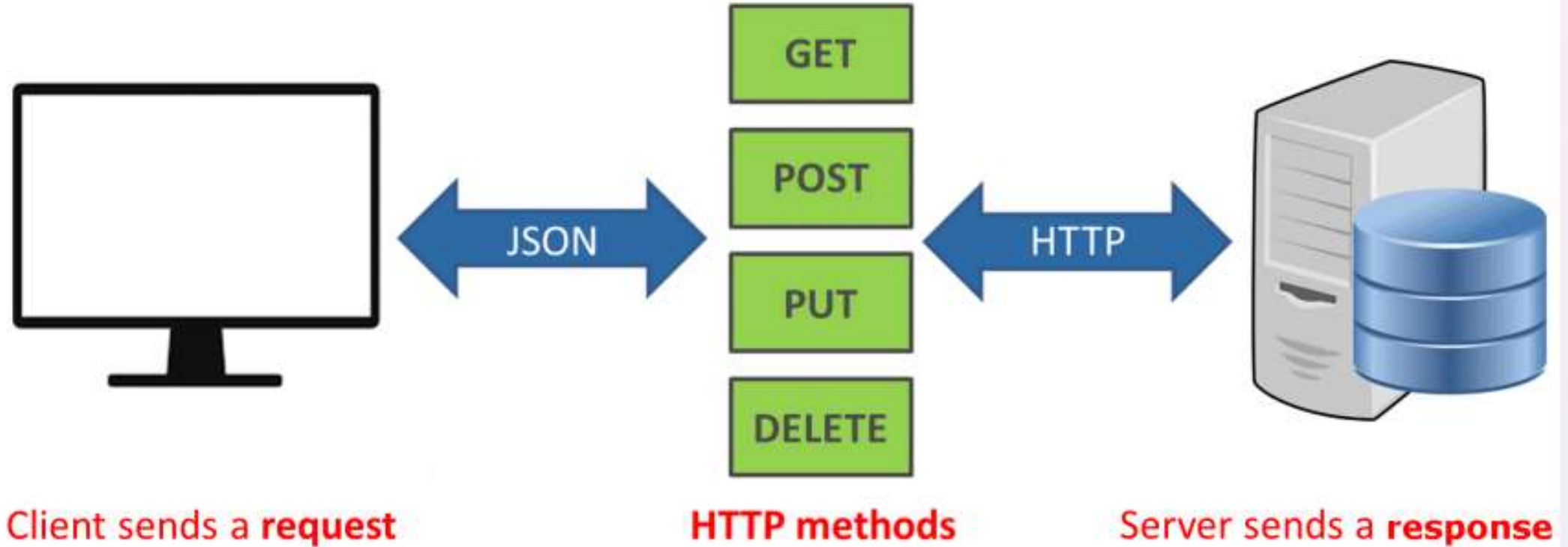
JavaScript also has a built in function for converting an object into a JSON string:

```
JSON.stringify()
```



Hypertext Transfer Protocol Secure (HTTPS) is an extension of the Hypertext Transfer Protocol (HTTP). It is used for secure communication over a computer network.

HTTPS Methods



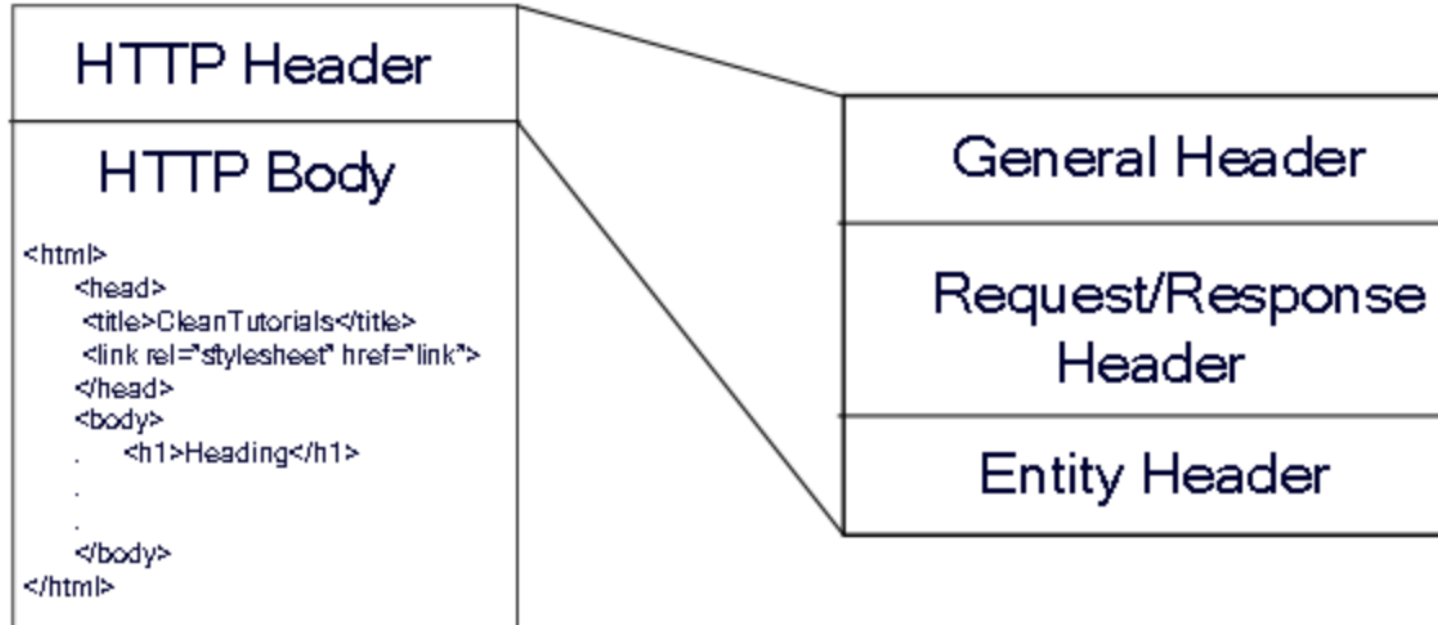
Fetch API

The [Fetch API](#) provides a JavaScript interface for accessing and manipulating parts of the HTTP pipeline, such as requests and responses. It also provides a global `fetch()` method that provides an easy, logical way to fetch resources asynchronously across the network.

```
fetch('https://example.com/profile', {
  method: 'POST', // or 'PUT'
  headers: {
    'Content-Type': 'application/json'
  },
  body: JSON.stringify(data),
})
.then((response) => response.json())
.then((data) => {
  console.log('Success:', data);
})
.catch((error) => {
  console.error('Error:', error);
});
```

```
fetch('http://example.com/movies.json')
  .then((response) => response.json())
  .then((data) => console.log(data));
```


HTTP Request/response



Send Data using Body

```
fetch('https://example.com/profile', {
  method: 'POST', // or 'PUT'
  headers: {
    'Content-Type': 'application/json'
  },
  body: JSON.stringify(data),
})
```

Query

```
fetch ("http://getInfo.com/getUsers?name=User1&age=18");
```


Public API-s

<https://randomuser.me/api>.

Get Random User

<https://random.dog/woof.json>

Random Dog Image Generator

<http://universities.hipolabs.com/search?country=United+Kingdom>.

Get Universities based Country