JS

4 ways to make an
API Call in JS

JavaScript provides a few built-in methods and external open source libraries to create and interact with the API. A few possible methods to make an API call in JavaScript are:

- XMLHttpRequest
- Fetch
- Using Axios library
- jQuery AJAX

XML HTTP Request

```javascript
var XMLRequest = new XMLHttpRequest();

// creating get request to dummy API call
XMLRequest.open('GET', 'https://api.github.com/users/coderaishya');

XMLRequest.send();

XMLRequest.onload = () => {
    if (XMLRequest.status === 200) {
        console.log("Request successful");
    } else {
        console.log("Error occurred!")
    }

    console.log(JSON.parse(XMLRequest.response))
}
```

- It receives response in string format that needs to be parsed in JSON format (JSON.parse(XMLRequest.response)).
- It is a built-in browser object to create HTTP requests & is deprecated with the introduction of fetch in ES 6. Still, it is used when we work with older browsers.

@coder_aishya

Fetch API

```javascript
fetch('https://api.github.com/users/coderaishya')
    .then(response => return response.json())
    .then(data => {
        console.log(data);
    })
```

Do checkout my post on
Fetch api guide to know more
in depth

coder_aishya
India

Save it   Like it

JS

Fetch API
Ultimate Guide

@coder_aishya

@coder_aishya

Axios

- Axios is **open-source library for making HTTP requests** with several great features.
- Axios works in both Node.js and browsers and is a promise-based (asynchronous) HTTP client, which even is used in frameworks like Angular and React.

Axios Installation

Using Package Manager

```
npm install axios
// or
yarn add axios
```

and include it in the HTML file like

```
<script src="./node_modules/axios/dist/axios.min.js"></script>
```

@coder_aishya

Using CDN

```html
<script src="https://unpkg.com/axios/dist/axios.min.js"></script>
```

```html
<script>
    axios.get("https://api.github.com/users/coderaishya")
        .then(response => {
            console.log(response.data);
        })
        .catch(error => {
            console.log(error);
        })
</script>
```

Pros of Axios:
- Better and easier error handling & has a wide range of browser support.
- Axios automatically perform JSON parsing and returns data in JSON format.

@coder_aishya

jQuery AJAX

Attach jQuery inside Html file using CDN

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"
></script>
```

```html
<script>
    $(document).ready(function () {
        $.ajax({
            url: "https://api.github.com/users/coderaishya",
            type: "GET",
            success: function (result) {
                console.log(result);
            },
            error: function (error) {
                console.log(error);
            }
        })
    })
</script>
```

@coder_aishya

- Uses **$.ajax() method** to make the requests.
- the $.ajax() method takes several parameters, some optional and some required. This method contains **two callback functions: success and error to handle the received response easily.**

Did you find this **post Useful ?**

Aishwarya | Front end Developer

@coder_aishya

Follow for more