Assignment 15

API

Definition: - Application programming interface.

It's the connection between the backend and frontend to get the information and store the information.

4 Ways to Make an API Call in JavaScript

1. API Call in JavaScript Using XMLHttpRequest.

Ex: -

```javascript
const xhttpr = new XMLHttpRequest();

xhttpr.open('GET', 'Api_address', true);

xhttpr.send();

xhttpr.onload = ()=> {

if (xhttpr.status === 200) {

    const response = JSON.parse(xhttpr.response);

    // Process the response data here }

else {

    // Handle error }};
```

2. API Call in JavaScript Using the fetch() method.

Ex: -

```javascript
fetch('Api_address')
.then(response => {
    if (response.ok) {
    return response.json(); // Parse the response data as JSON
    } else {
    throw new Error('API request failed');
    }
})
.then(data => {
    // Process the response data here
    console.log(data); // Example: Logging the data to the console
})
.catch(error => {
    // Handle any errors here
    console.error(error); // Example: Logging the error to the console
});
```

3. API call in JavaScript using Axios

Ex: -

```javascript
import axios from 'axios';
axios.get('APIURL')
    .then(response => {
        const responseData = response.data; // Access the response data
        // Process the response data here
    })
    .catch(error => {
        // Handle any errors
    });
```

4. API call in JavaScript Using the jQuery AJAX

Ex: -

```javascript
$.ajax({
    url: 'APIURL',
    method: 'GET',
    success: function(response) {
        const parsedData = JSON.parse(response);
        // Process the parsed data here
```

```
    },

    error: function(xhr, status, error) {

        // Handle any errors

    }});
```

Reference: -
https://www.geeksforgeeks.org/ways-to-make-an-api-call-in-javascript/