READ DATA

AJAX (Asynchronous JavaScript and XML) is a technique used in web development to fetch or send data to a server asynchronously, without requiring a page refresh. Below is a step-by-step tutorial on how to read data using AJAX, including both text instructions and code examples.

Step 1: Include jQuery (Optional)

You can use vanilla JavaScript for AJAX, but using a library like jQuery makes it simpler. Make sure to include jQuery in your HTML file if you choose this option.

Step 2: Create HTML Elements

Add HTML elements that will be used to display the fetched data.

```
```html
<!-- Your content goes here -->
<div id="result"></div>
<button onclick="loadData()">Load Data</button>
```
```

Step 3: Write JavaScript Function

Write a JavaScript function to make an AJAX request and handle the

```
response.

'``html

<script>
    function loadData() {
        // Your AJAX code will go here
    }

</script>

'``
```

Step 4: Write AJAX Code

Inside the `loadData` function, write the AJAX code using either vanilla JavaScript or jQuery.

```
#### Using jQuery:

```html

<script>
function loadData() {
 $.ajax({
 url: 'https://api.example.com/data', // Replace with your
```

```
API endpoint
 method: 'GET',
 dataType: 'json', // Change to 'text' if expecting plain
text
 success: function(data) {
 // Handle the successful response
 $('#result').html('Data: ' + data);
 },
 error: function(error) {
 // Handle errors
 console.error('Error fetching data:', error);
 }
 });
 }
</script>
Using Vanilla JavaScript:
```

```html

<script>

```
function loadData() {
          var xhr = new XMLHttpRequest();
          xhr.open('GET', 'https://api.example.com/data', true);
          xhr.onreadystatechange = function () {
               if (xhr.readyState == 4 && xhr.status == 200) {
                    // Handle the successful response
                    document.getElementById('result').innerHTML =
'Data: ' + xhr.responseText;
               } else if (xhr.readyState == 4) {
                    // Handle errors
                    console.error('Error fetching data:', xhr.status);
               }
          };
          xhr.send();
     }
</script>
```