

AJAX - Handling Binary Data

Binary data is data that is in the binary format not in the text format. It includes images, audio, videos, and other file that are not in plain text. We can send and receive binary data in AJAX using an XMLHttpRequest object. While working with binary data in AJAX it is important to set a proper content type and response type headers. Hence for setting the header, we use the "Content-Type" header, here we set the proper MIME type to send binary data and set the "responseType" property to "arraybuffer" or "blob" which indicates that binary data is received.

Sending Binary Data

To send binary data we use send() method of XMLHttpRequest which can easily transmit binary data using ArrayBuffer, Blob or File object.

Example

In the following program, we create a program which will receive binary data from the server. So when we click on the button getBinaryData() function trigger. It uses an XMLHttpRequest object to get the data using the GET method from the given URL. In this function, we set the responseType property to arraybuffer which tells the browser that we have to only accept binary data in the response. When the request is completed an onload() function is called and inside this function, we check the status of the request if the response is successful, then the response is accessed as arraybuffer. Then convert arraybuffer into Uint8array using Uint8Array() function. It accesses the individual bytes of the binary data. After that, we will display the data on the HTML page.

</>

Open Compiler

```
<!DOCTYPE html>
<html>
<body>
<script>
    function getBinaryData() {
        // Creating XMLHttpRequest object
        var myhttp = new XMLHttpRequest();
        // Getting binary data
        myhttp.open("GET", "https://jsonplaceholder.typicode.com/posts", true);
        // Set responseType to arraybuffer.
        myhttp.responseType = "arraybuffer";
```

```
// Creating call back function
myhttp.onload = (event) => {
    // IF the request is successful
    if (myhttp.status === 200){
        var arraybuffer = myhttp.response;
        // Convert the arraybuffer into array
        var data = new Uint8Array(arraybuffer);
        // Display the binary data
        document.getElementById("example").innerHTML = data;
        console.log("Binary data Received");
    }else{
        console.log("Found error");
    }
};
// Sending the request to the server
myhttp.send();
}
</script>
<div id="example">
    <p>AJAX Example</p>
    <button type="button" onclick="getBinaryData()">Click Here</button>
</div>
</body>
</html>
```

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Output

