**Create the Files**:

* Create a folder and name it ajax\_demo.
* Inside this folder, create three files:
  + ajax\_demo.html (the above HTML file),
  + sample.txt (plain text file),
  + data.json (JSON file).

**Run the Program**:

Run the program using a local HTTP server. We use, Python HTTP Server

1. Open your terminal (Command Prompt or Terminal) and navigate to the folder containing your files (ajax\_demo folder).
2. Run the following command:

* **For Python 3**

python -m http.server 8000

1. This starts an HTTP server on http://localhost:8000/.
2. Open your browser and go to:

http://localhost:8000/ajax\_demo.html

***sample.txt***

This is a sample text file for AJAX demonstration.

***data.json***

{

"employees":

[ {"name": "Alice", "age": 28},

{"name": "Bob", "age": 32},

{"name": "Charlie", "age": 25}

]

}

<!DOCTYPE html>

<html>

<head>

<title>AJAX Demonstration</title>

<style>

body { font-family: Arial, sans-serif; margin: 20px; }

h3 { color: navy; }

pre { background: #f4f4f4; padding: 10px; border: 1px solid #ddd; }

</style>

<!-- Load jQuery -->

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<h1>AJAX Demonstration</h1>

<!-- a. AJAX without jQuery -->

<h3>a. AJAX without jQuery</h3>

<button onclick="loadTextFile()">Load Text (Without jQuery)</button>

<div id="output1"><pre>Text content will appear here...</pre></div>

<!-- b. AJAX with jQuery -->

<h3>b. AJAX with jQuery</h3>

<button id="loadText">Load Text (With jQuery)</button>

<div id="output2"><pre>Text content will appear here...</pre></div>

<!-- c. jQuery getJSON -->

<h3>c. Using getJSON() Method</h3>

<button id="loadJson">Load JSON (getJSON)</button>

<div id="output3"><pre>JSON content will appear here...</pre></div>

<!-- d. JSON.parse() -->

<h3>d. Using parseJSON() Method</h3>

<button id="parseJson">Parse JSON</button>

<div id="output4"><pre>Parsed JSON values will appear here...</pre></div>

<script>

// a. AJAX without jQuery

function loadTextFile() {

const xhr = new XMLHttpRequest();

xhr.open("GET", "sample.txt", true);

xhr.onload = function () {

if (xhr.status === 200) {

document.getElementById('output1').innerText = xhr.responseText;

} else {

document.getElementById('output1').innerText = "Error loading file.";

}

};

xhr.send();

}

// b. AJAX with jQuery

$("#loadText").click(function () {

$.ajax({

url: "sample.txt",

method: "GET",

success: function (data) {

$("#output2").text(data);

},

error: function () {

$("#output2").text("Error loading file.");

}

});

});

// c. jQuery getJSON method

$("#loadJson").click(function () {

$.getJSON("data.json", function (data) {

$("#output3").html(JSON.stringify(data, null, 2));

}).fail(function () {

$("#output3").text("Error loading JSON data.");

});

});

// d. Using JSON.parse() method

$("#parseJson").click(function () {

const jsonString = '{"name": "John Doe", "age": 30, "city": "New York"}';

const jsonObject = JSON.parse(jsonString);

$("#output4").html(

`Name: ${jsonObject.name} <br> Age: ${jsonObject.age} <br> City: ${jsonObject.city}`

);

});

</script>

</body>

</html>