Web Technology Lab

Program – 10

Develop a JavaScript program with Ajax (with HTML/CSS) for:

a) Use ajax() method (without Jquery) to add the text content from the text file by sending ajax request.
b) Use ajax() method (with Jquery) to add the text content from the text file by sending ajax request.
c) Illustrate the use of getJSON() method in jQuery.
d) Illustrate the use of parseJSON() method to display JSON

Note: Create two separate file within the same folder one is **textfile.txt** and other **data.json** then copy below text for the both separate file and paste it save it.

textfile.txt

hi this is example text...

data.json

```
{"name":"John Doe","age":30,"city":"New
York","skills":["JavaScript","React","Node.js"],"address":{"street":"123 Elm
Street","zipcode":"10001"},"projects":[{"name":"Website
Redesign","year":2023,"technologies":["HTML","CSS","JavaScript"]},{"name"
:"Mobile App","year":2024,"technologies":["React Native","Expo"]}]}
```

Program :

```
<!DOCTYPE html>

<head>
```

```html
<title>AJAX Examples | vtucode</title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<style>
    body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
        background-color: #f4f4f9;
    }

    h1 {
        text-align: center;
        color: #333;
        padding: 20px 0;
    }

    #content {
        flex-direction: column;
        display: flex;
        max-width: 600px;
        margin: 20px auto;
        padding: 20px;
        border: 1px solid #ddd;
        border-radius: 8px;
        background-color: #fff;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    button {
        display: inline-block;
        padding: 10px 15px;
        margin: 12px;
        border: none;
        border-radius: 5px;
        background-color: #007bff;
        color: #fff;
        font-size: 16px;
        cursor: pointer;
        transition: box-shadow 0.3s;
    }

    button:hover {
        box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007bff;
    }
```
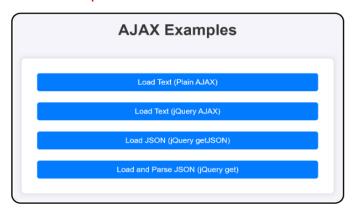
```css
        button:focus {
            box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007bff;
        }


        #output {
            display: none;
            margin-top: 20px;
            padding: 10px;
            border-radius: 5px;
            white-space: pre-wrap;
            max-height: 300px;
            overflow-y: auto;
        }

        #output.plain-ajax {
            background-color: #f0f8ff;
            border: 1px solid #b0c4de;
        }

        #output.jquery-ajax {
            background-color: #f5fffa;
            border: 1px solid #98fb98;
        }

        #output.jquery-json {
            background-color: #fffaf0;
            border: 1px solid #ffd700;
        }

        #output.parse-json {
            background-color: #fff0f5;
            border: 1px solid #ff69b4;
        }
    </style>
</head>

<body>
    <h1>AJAX Examples</h1>
    <div id="content">
        <button id="plain-ajax-btn">Load Text (Plain AJAX)</button>
        <button id="jquery-ajax-btn">Load Text (jQuery AJAX)</button>
        <button id="jquery-json-btn">Load JSON (jQuery getJSON)</button>
        <button id="parse-json-btn">Load and Parse JSON (jQuery get)</button>
        <div id="output"></div>
    </div>
```
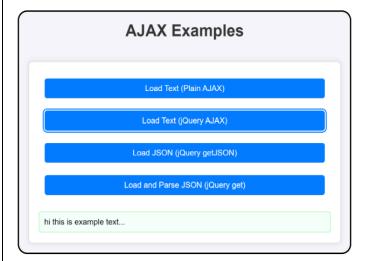
```html
<script>

    function showOutput(className) {
        const output = document.getElementById('output');
        output.className = className;
        output.style.display = 'block';
    }

    document.getElementById('plain-ajax-btn').addEventListener('click',
function () {
        var xhr = new XMLHttpRequest();
        xhr.open('GET', 'textfile.txt', true);
        xhr.onload = function () {
            if (xhr.status === 200) {
                document.getElementById('output').innerText = xhr.responseText;
            } else {
                document.getElementById('output').innerText = 'Error loading
file.';
            }
            showOutput('plain-ajax');
        };
        xhr.send();
    });

    $('#jquery-ajax-btn').on('click', function () {
        $.ajax({
            url: 'textfile.txt',
            method: 'GET',
            success: function (data) {
                $('#output').text(data);
            },
            error: function () {
                $('#output').text('Error loading file.');
            }
        }).always(function () {
            showOutput('jquery-ajax');
        });
    });


    $('#jquery-json-btn').on('click', function () {
        $.getJSON('data.json')
            .done(function (data) {
                $('#output').text(JSON.stringify(data, null, 2));
            })
```

```javascript
              .fail(function () {
                 $('#output').text('Error loading JSON file.');
              })
              .always(function () {
                 showOutput('jquery-json');
              });
       });


      $('#parse-json-btn').on('click', function () {
         $.get('data.json')
            .done(function (data) {
               try {
                  let jsonData;

                  if (typeof data === 'string') {
                     jsonData = JSON.parse(data);
                  } else {
                     jsonData = data;
                  }
                  $('#output').text(JSON.stringify(jsonData, null, 2));
               } catch (e) {
                  $('#output').text('Error parsing JSON: ' + e.message);
               }
            })
            .fail(function () {
               $('#output').text('Error loading JSON file.');
            })
            .always(function () {
               showOutput('parse-json');
            });
      });
   </script>
</body>

</html>
```

Output :

AJAX Examples

Load Text (Plain AJAX)

Load Text (jQuery AJAX)

Load JSON (jQuery getJSON)

Load and Parse JSON (jQuery get)

hi this is example text...

AJAX Examples

Load Text (Plain AJAX)

Load Text (jQuery AJAX)

Load JSON (jQuery getJSON)

Load and Parse JSON (jQuery get)

```
{
  "name": "John Doe",
  "age": 30,
  "city": "New York",
  "skills": [
    "JavaScript",
    "React",
    "Node.js"
  ],
  "address": {
    "street": "123 Elm Street",
    "zipcode": "10001"
  },
  "projects": [
    {
      "name": "Website Redesign",
      "year": 2023,
```

AJAX Examples

Load Text (Plain AJAX)

Load Text (jQuery AJAX)

Load JSON (jQuery getJSON)

Load and Parse JSON (jQuery get)

```json
{
  "name": "John Doe",
  "age": 30,
  "city": "New York",
  "skills": [
    "JavaScript",
    "React",
    "Node.js"
  ],
  "address": {
    "street": "123 Elm Street",
    "zipcode": "10001"
  },
  "projects": [
    {
      "name": "Website Redesign",
      "year": 2023,
```