

Practical 10

Aim: Create a simple script to Auto-Populate Select Boxes using AJAX

Theory:

AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and JavaScript. Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display. Conventional web applications transmit information to and from the sever using synchronous requests. It means you fill out a form, hit submit, and get directed to a new page with new information from the server.

With AJAX, when you hit submit, JavaScript will make a request to the server, interpret the results, and update the current screen. In the purest sense, the user would never know that anything was even transmitted to the server. XML is commonly used as the format for receiving server data, although any format, including plain text, can be used.

AJAX is a web browser technology independent of web server software. A user can continue to use the application while the client program requests information from the server in the background. Intuitive and natural user interaction. Clicking is not required, mouse movement is a sufficient event trigger. Data-driven as opposed to page-driven.

AJAX is based on the following open standards –

- Browser-based presentation using HTML and Cascading Style Sheets (CSS).
- Data is stored in XML format and fetched from the server.
- Behind-the-scenes data fetches using XMLHttpRequest objects in the browser.
- JavaScript to make everything happen.

Program:

pract.html

```
<html>
<head>
  <meta charset="UTF-8" />
  <title>Dynamic Dropdown</title>
  <link rel="stylesheet" href="css/style.css" />
  <script src="http://ajax.googleapis.com/ajax/libs/jquery/1/jquery.min.js"></script>
  <script>
    $(function () {
      $("#json-one").change(function () {
        var $dropdown = $(this);
        $.getJSON("data.json", function (data) {
          var key = $dropdown.val();
          var vals = [];
          switch (key) {
            case "sports":
              vals = data.sports.split(",");
              break;
            case "movies":
              vals = data.movies.split(",");
              break;
            case "news":
```

```

        vals = data.news.split(",");
        break;
    case "base":
        vals = ["Please choose from above"];
    }
    var $jsontwo = $("#json-two");
    $jsontwo.empty();
    $.each(vals, function (index, value) {
        $jsontwo.append("<option>" + value + "</option>");
    });
});
});
});
</script>
</head>
<body>
<h1>Pulling from JSON</h1>
<select id="json-one">
    <option selected value="base">Please Select</option>
    <option value="sports">Sports</option>
    <option value="movies">Movies</option>
    <option value="news">News</option>
</select>
<br />
<select id="json-two">
    <option>Please choose from above</option>
</select>
</body>
</html>

```

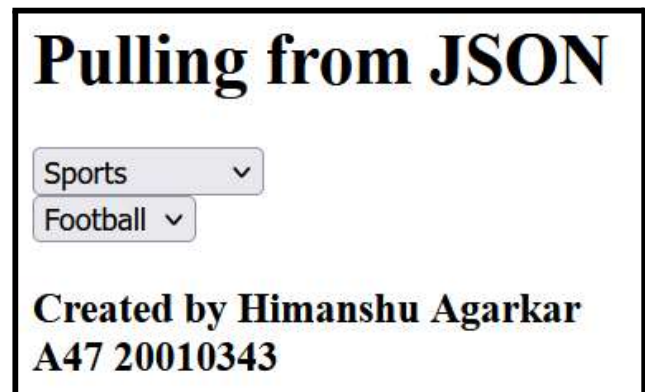
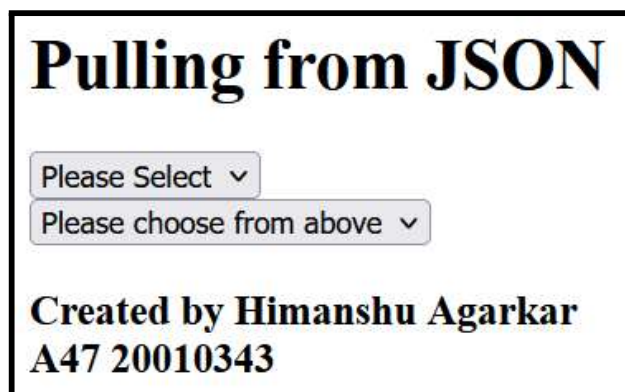
data.json

```

{
"sports": "Cricket, Football, Hockey",
"movies": "Transformers, Avengers, Tenet",
"news": "Aaj Tak, IndiaTV, BBC"
}

```

Output:



Conclusion: We have successfully created a simple script to Auto-Populate Select Boxes using AJAX