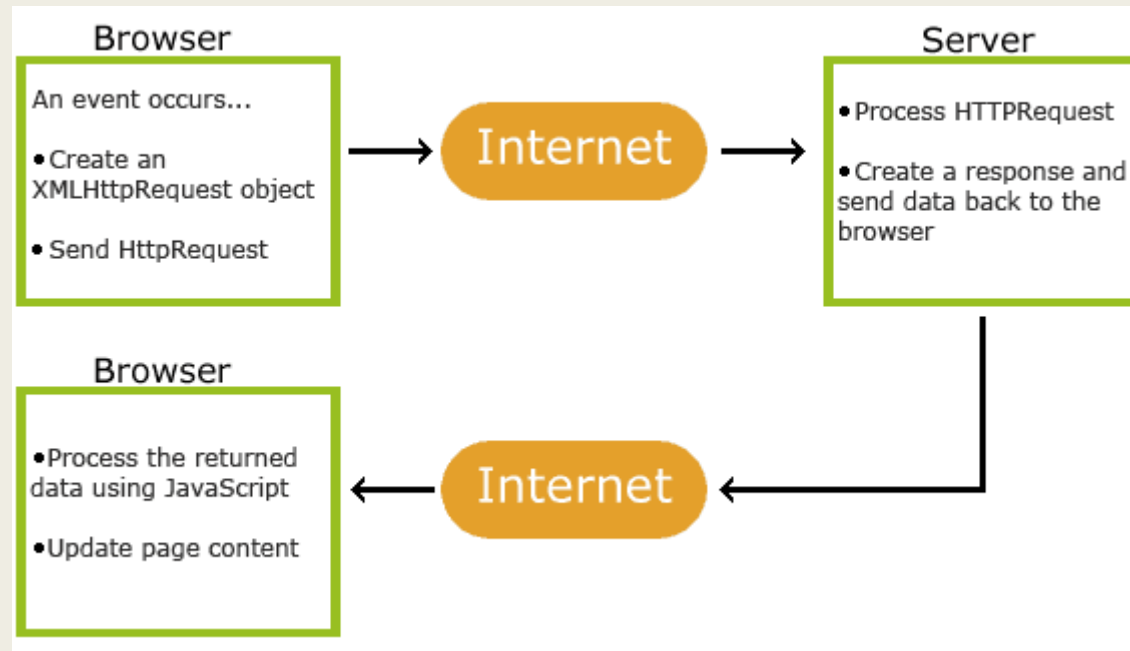




AJAX

Asynchronous JavaScript And XML





```
function loadDoc() {  
    var xhttp = new XMLHttpRequest();  
    xhttp.onreadystatechange = function() {  
        if (this.readyState == 4 && this.status == 200) {  
            document.getElementById("demo").innerHTML =  
                this.responseText;  
        }  
    };  
    xhttp.open("GET", "ajax_info.txt", true);  
    xhttp.send();  
}
```

XML

```
<?xml version="1.0" encoding="UTF-8"?>
<CATALOG>
  <CD>
    <TITLE>Empire Burlesque</TITLE>
    <ARTIST>Bob Dylan</ARTIST>
    <COUNTRY>USA</COUNTRY>
    <COMPANY>Columbia</COMPANY>
    <PRICE>10.90</PRICE>
    <YEAR>1985</YEAR>
  </CD>
  <CD>
    <TITLE>Red</TITLE>
    <ARTIST>The Communards</ARTIST>
    <COUNTRY>UK</COUNTRY>
    <COMPANY>London</COMPANY>
    <PRICE>7.80</PRICE>
    <YEAR>1987</YEAR>
  </CD>
  <CD>
    <TITLE>Unchain my heart</TITLE>
    <ARTIST>Joe Cocker</ARTIST>
    <COUNTRY>USA</COUNTRY>
    <COMPANY>EMI</COMPANY>
    <PRICE>8.20</PRICE>
    <YEAR>1987</YEAR>
  </CD>
</CATALOG>
```

```
function loadDoc() {
    var xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = function() {
        if (this.readyState == 4 && this.status == 200) {
            myFunction(this);
        }
    };
    xhttp.open("GET", "cd_catalog.xml", true);
    xhttp.send();
}

function myFunction(xml) {
    var i;
    var xmlDoc = xml.responseXML;
    var table="<tr><th>Artist</th><th>Title</th></tr>";
    var x = xmlDoc.getElementsByTagName("CD");
    for (i = 0; i <x.length; i++) {
        table += "<tr><td>" +
            x[i].getElementsByTagName("ARTIST")[0].childNodes[0].nodeValue +
            "</td><td>" +
            x[i].getElementsByTagName("TITLE")[0].childNodes[0].nodeValue +
            "</td></tr>";
    }
    document.getElementById("demo").innerHTML = table;
}
```

```
<html>
<head>
  <script>
    function showHint(str) {
      if (str.length == 0) {
        document.getElementById("txtHint").innerHTML = "";
        return;
      } else {
        var xmlhttp = new XMLHttpRequest();
        xmlhttp.onreadystatechange = function() {
          if (this.readyState == 4 && this.status == 200) {
            document.getElementById("txtHint").innerHTML = this.responseText;
          }
        };
        xmlhttp.open("GET", "gethint.php?q=" + str, true);
        xmlhttp.send();
      }
    }
  </script>
</head>
<body>

<p><b>Start typing a name in the input field below:</b></p>
<form>
  First name: <input type="text" onkeyup="showHint(this.value)">
</form>
<p>Suggestions: <span id="txtHint"></span></p>
</body>
</html>
```

```
<?php
// Array with names
$a[] = "Anna";
// .....
$a[] = "Vicky";

// get the q parameter from URL
$q = $_REQUEST["q"];

$hint = "";

// lookup all hints from array if $q is different from ""
if ($q !== "") {
    $q = strtolower($q);
    $len=strlen($q);
    foreach($a as $name) {
        if (stristr($q, substr($name, 0, $len))) {
            if ($hint === "") {
                $hint = $name;
            } else {
                $hint .= ", $name";
            }
        }
    }
}

// Output "no suggestion" if no hint was found or output correct values
echo $hint === "" ? "no suggestion" : $hint;
?>
```

JS Objects

```
var person = {  
  firstName: "John",  
  lastName : "Doe",  
  id       : [5566, 4234, 3423],  
  fullName : function() {  
    return this.firstName + " " + this.lastName;  
  }  
};
```

```
person.lastName;  
person["lastName"];  
var name = person.fullName();  
name = person.fullName;
```

JSON

JavaScript Object Notation

```
var myObj = {name: "John", age: 31, city: "New York"};  
var myJSON = JSON.stringify(myObj);  
window.location = "demo_json.php?x=" + myJSON;
```

```
var myJSON = '{"name":"John", "age":31, "city":"New York"}';  
var myObj = JSON.parse(myJSON);  
document.getElementById("demo").innerHTML = myObj.name;
```

```
<?php  
$jsonobj = '{"Peter":35,"Ben":37,"Joe":43}';  
  
$obj = json_decode($jsonobj);  
  
echo $obj->Peter;  
echo $obj->Ben;  
echo $obj->Joe;  
?>
```


Лабораторная 8

- Создать страничку на которой по введённым данным будет получен определённый ответ от сервера.