



TOPIC : AJAX WITH PHP.

SESSION : 1

by Arunava Sarkar
Monday, November 7, 2016

Topics

- **AJAX**
 - What is AJAX ?
 - Intro to XMLHttpRequest()
 - Operation Model
 - Object State
 - Retrieving Data Async

AJAX - Introduction...

- AJAX stands for Asynchronous JavaScript and XML.
- Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display.
- A user can continue to use the application while the client program requests information from the server in the background.

AJAX – XMLHttpRequest...

- JavaScript object that performs asynchronous interaction with the server.
 - **Supported Browser...**
 - Mozilla Firefox 1.0 and above.
 - Netscape version 7.1 and above.
 - Apple Safari 1.2 and above.
 - Microsoft Internet Explorer 5 and above.
 - Opera 7.6 and above.

AJAX - XMLHttpRequest ...

- Creating Ajax Object.

- Following Syntax is Used..

- /* Creating XMLHttpRequest object in All Browser */*

- `var ajaxRequest;`

- `ajaxRequest = new XMLHttpRequest();`

- /* Creating XMLHttpRequest object in IE */*

- `ajaxRequest = new ActiveXObject("Msxml2.XMLHTTP");`

- `ajaxRequest = new ActiveXObject("Microsoft.XMLHTTP");`

AJAX - Operation...

- Steps Of AJAX Operation.
 - A client event occurs.
 - An XMLHttpRequest object is created.
 - The XMLHttpRequest object is configured.
 - The XMLHttpRequest object makes an asynchronous request to the Webserver.
 - The Webserver returns the result containing XML document.
 - The XMLHttpRequest object calls the callback() function and processes the result.
 - The HTML DOM is updated.

AJAX – Object State...

➤ readyState

- The readyState property defines the current state of the XMLHttpRequest object.

State	Description
0	The request is not initialized.
1	The request has been set up.
2	The request has been sent.
3	The request is in process.
4	The request is completed.

AJAX – Create Example...

➤ Try Catch for Error Handling...

var ajaxRequest; // The variable that makes Ajax possible!

```
try{
```

```
    ajaxRequest = new XMLHttpRequest();
```

```
}catch (e){
```

```
try{
```

```
    ajaxRequest = new ActiveXObject("Msxml2.XMLHTTP");
```

```
}catch (e) {
```

```
try{
```

```
    ajaxRequest = new ActiveXObject("Microsoft.XMLHTTP");
```

```
}catch (e){
```

```
    alert("Your browser broke!");
```

```
    return false;
```

```
}
```

```
}
```

```
}
```


AJAX – Using Object...

- Object Previously Created.

```
ajaxRequest.onreadystatechange = function(){  
    /* Creating a String Element*/  
    if (ajaxRequest.readyState == 4){  
        /* Changing The Output Element With Result */  
        var ajaxDisplay = document.getElementById('ajaxDiv');  
        ajaxDisplay.innerHTML = ajaxRequest.responseText;  
    }  
}
```

AJAX – Sending Request...

- Send the Asynchronous Request.

```
/* Making Request String*/
```

```
queryString += "&uname=" + uname + "&pass=" + pass;
```

```
/* Sending Request to Server*/
```

```
ajaxRequest.open("GET", "process.php" + queryString, true);
```

```
ajaxRequest.send(null);
```

N.B. Put Them all in function And Send on Javascript Event.

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End Of
Session