

Working with Ajax & Plug-ins

Lesson 06

August 15, 2014

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v 1.0

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Lesson Objectives

- Introduction
- jQuery Ajax Functions
- Loading HTML Content from the Server
- Making GET Requests
- Making POST Requests
- Introduction to the `ajax()` Function



jQuery Ajax features

- Allows part of a page updated
- Cross-Browser support
- Simple API
- GET and POST supported
- Load JSON,XML, HTML ...

jQuery Ajax functions


- jQuery provides several functions that can be used to send and receive data
 - `$(selector).load()` : Loads HTML data from the server
 - `$.get()` and `$.post()` : Get raw data from the server
 - `$.getJSON()` : Get / Post and return JSON data
 - `$.ajax()` : Provides core functionality
- jQuery Ajax functions works with REST APIs, Webservices and more



Loading HTML content from server

- `$(selector).load(url,data,callback)` allows HTML content to be loaded from a server and added into DOM object.
 - `$("#targetDiv").load('GetContents.html');`
- A selector can be added after the URL to filter the content that is returned from the calling `load()`.
 - `$("#targetDiv").load('GetContents.html #Main');`
- Data can be passed to the server using `load(url,data)`
 - `$('#targetDiv').load('Add.aspx',{firstNumber:5,secondNumber:10})`
- `load()` can be passed a callback function

```
$('#targetDiv').load('Notfound.html', function (res,status,xhr) {  
    If (status == "error") { alert(xhr.statusText); }  
});
```

Demo

 `usingload.html`



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Using get(), getJSON() & post()

- \$.get(url,data,callback,datatype) can retrieve data from a server.

```
$.get('GetContents.html',function(data){  
    $('#targetDiv').html(data);  
},'html');
```

- datatype can be html, xml, json

- \$.getJSON(url,data,callback) can retrieve data from a server.

```
$.getJSON('GetContents.aspx',{id:5},function(data){  
    $('#targetDiv').html(data);  
});
```

- \$.post(url,data,callback,datatype) can post data to a server and retrieve results.

Demo

➤ `usingget.html`



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Using ajax() function

- ajax() function is configured by assigning values to JSON properties

```
$.ajax({  
  url: "employee.asmx/GetEmployees",  
  data : null,  
  contentType: "application/json; charset=utf-8",  
  datatype: 'json',  
  success: function(data,status,xhr){  
    //Perform success operation  
  },  
  error: function(xhr,status,error) {  
    //show error details  
  }  
});
```

Demo

➤ `usingajax.html`



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Summary

- Ajax calls can be made using a variety of jQuery

functions:

- load()
- get
- getJSON()
- post()
- ajax()

- Several different data types are supported

- JSON
- XML
- HTML



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Lab

- 6.1. Using jQuery load() function
- 6.2. Using jQuery post() function
- 6.3. Using jQuery ajax() function
- 6.4. Insert record using RESTful Service(POST verb)
- 6.5. Retrieve record(s) using RESTful Service (GET verb)
- 6.5. Delete record using RESTful Service (DELETE verb)



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Review Question

- What does `$('#myDiv').load('page.html')` do?
 - A. It adds the string 'page.html' as the contents of the `#myDiv` div.
 - B. It fires an AJAX request, fetches the result of `page.html` as text, and inserts it into the div.
- Which jQuery method is used to perform an asynchronous HTTP request?
 - A. `jQuery.ajax()`
 - B. `jQuery.ajaxSetup()`
 - C. `jQuery.ajaxAsync()`
 - D. `jQuery.ajaxStart()`

