Web Application Development

Assessment 2 – AJAX, JSONP and jQuery

Please complete all three exercises outlined below. When all the exercises are complete, please add them to a zip file and upload them to moodle:

Prerequisite:

For exercises 1 and 2, you will need to implement your solution on a web server as you will be retrieving data from the server by making AJAX requests.

Exercise 1 – AJAX

For this exercise, you are required to create a web page which displays the final league table for the English Premier League 2015/2016 season.

The data for this table is contained in the league_table.zip file which is included along with this assessment on moodle.

Download the zip file from moodle and unzip it to a folder on your web server. The file in the zip file is in json format.

You are required to make an AJAX request to retrieve the data from this file, and add it to a table to display on a web page. **Note: This must be implemented using JavaScript and NOT jQuery**.

The table should include some css style. Please apply style to the table like what is outlined at on the following web page:

http://johnsardine.com/freebies/dl-html-css/simple-little-tab/

You just need to copy the css properties and note the table elements on this page where class attributes are set.

When complete, your page should look like the following screenshot:

2015/2016 Final Premier League Standings

Pos	Team	P	Pts	F	A	GD	W	D	L
1	Leicester City FC	38	81	68	36	32	23	12	3
2	Arsenal FC	38	71	65	36	29	20	11	7
3	Tottenham Hotspur FC	38	70	69	35	34	19	13	6
4	Manchester City FC	38	66	71	41	30	19	9	10
5	Manchester United FC	38	66	49	35	14	19	9	10
6	Southampton FC	38	63	59	41	18	18	9	11

Note: Just displaying top 6 teams in the screenshot. Your web page needs to include all 20 teams as contained in the JSON file.

Exercise 2: jQuery and AJAX

For this exercise you are required to repeat exercise 1, however this time, implement the AJAX request for the league table data using jQuery.

You can just copy your solution for exercise 1, and rewrite the JavaScript in jQuery.

Exercise 3: jQuery and JSONP

For this exercise you are required to retrieve json formatted data from a server on a different domain. Due to browser cross domain policies restricting use of AJAX requests to request data from an external domain, you will need to implement a solution, commonly known as JSONP, to overcome this restriction.

From your web page you will need to request data which is available on:

https://rawgit.com/obrienke1/web_application_development/master/jsonp.js

Copy and paste this url to a browser and take note of the function name and data properties/values.

You are required to implement a solution in jQuery to retrieve this data using JSONP.

The data retrieved should be added to a html unordered list. The list should include some css style. Please apply style to the list like what is outlined at on the following web page:

https://designshack.net/articles/css/5-simple-and-practical-css-list-styles-you-can-copy-and-paste/

Use the HelvitiList as a reference to make your list similar in style to. You just need to copy the css properties for used for HelvitiList and make sure your html is structured in a similar way to the html outlined on this page so that the style is properly applied.

When complete, your page should look like the following screenshot:

Seasons

Winter

Spring

Summer

Autumn

Note: The hover effect (mouse over) on the list item Spring in the screenshot. Same hover effect should apply to other list items.