# INFO 2302 Web Technologies

# Using XMLHtppRequest object

# Supplementary exercises - JSON

### Retrieve JSON using Ajax (XMLHttpRequest)

|  |  |
| --- | --- |
| 1. Open your editor.   Create a new file named  **simpleJSON.html**    Create the skeleton codes for  **simpleJSON.html** |  |
| 1. Go <http://www.zippopotam.us/>   Scroll down to ‘How to Use It!”.  Copy the JavaScript example codes to **simpleJSON.html** |  |
| 1. Now open **sinpleJSON.html** in your browser. |  |

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### Retrieve JSON string for Malaysia

|  |  |
| --- | --- |
| 1. Scroll down to ‘Country Supported’ and find ‘Malaysia’. Copy the Malaysian URL. |  |
| 1. Go to your codes in **simpleJSON.html as shown** in the next column.   Replace the US URL with the Malaysian URL that you have copied.  Note: the URL must start with http:// | client.open("GET", "http://api.zippopotam.us/us/90210", true); |
| 1. Reload **simpleJSON.html** in your **browser**. |  |
| 1. Now go to the same line of code as shown in Step 2 above.   Replace ‘01000’ in the Malaysian URL to ‘53100’.  Reload simpleJSON.html in your **browser.**  In the JSON structure, notice that the Ajax request retrieves an array of **places** for the same post code. |  |
| 1. Now **replace** the following codes:   alert(client.responseText);  with:  var response = JSON.parse(client.responseText);  document.getElementById('result').textContent = response['places'][0]['place name'];  **What is your output?**  **Kangar** | |

**Question: Modify simpleJSON.html to display the following message in your browser**

I live in Gombak (lat: 3.1962, long: 101.6764).

It is a beautiful city in Selangor, Malaysia.

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**Question:**

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### Parsing JSON

1. Copy the codes to your editor. Save the file as superheroes.html and run the program.

<!DOCTYPE html>

<html>

<body>

<h1>JSON parse()</h1>

<p>JSON.parse() parses a string, written in JSON format, and returns a JavaScript object.</p>

<p>The value of squad name is:</p>

<p id="demo"></p>

<script>

var obj = JSON.parse('{"squad name": "Super hero squad","hometown": "Metro City","members": [{ "member name": "Molecule Man","secret identity": "Dan Jukes"},{ "member name": "Madame Uppercut","secret identity": "Jane Wilson"}]}');

document.getElementById("demo").innerHTML = obj[“squad name”];

</script>

</body>

</html>

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1. Modify the above program to display the following interface:



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1. Modify the rest of the JavaScript as follows:-
2. If the user enters “Molecule Man” or “Madame Undercut”,

display “Welcome Super hero squad!”

1. Otherwise, display “Access denied”.

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Sample output:



