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JSON interview Q&A

Posted on [September 14, 2014](#) by [Arulkumaran Kumaraswamipillai](#) — No

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Q1. What is JSON and how does it differ from an XML?

A1. JSON (JavaScript Object Notation) is a lightweight, text-based, language-neutral like XML, but less verbose than XML data exchange format. JSON is used in Web services to exchange data between client and server. Client makes ajax requests to get snippets of data in JSON format from the server via RESTful web service calls. JSON is easy for humans and machines to read and write. JSON can be represented as objects and arrays.

XML

```
1 <Employee>
2   <name type="first">Peter</name>
3   <age>25</age>
4 </Employee>
```

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JSON employee object:

```

1 {
2   "name": "Peter",
3   "nameType": "first",
4   "age": "25"
5 }

```

JSON with Name as a separate object

```

1 {
2   "name": {
3     "name": "Peter",
4     "type": "first"
5   }
6   "age": "25"
7 }

```

JSON Array:

```

1 {"employees": [
2   {"name": "Peter", nameType="first", "age": "25"
3   {"name": "John", nameType="first", "age": "52"}
4   {"name": "Simon", nameType="first", "age": "34"}
5 ]}

```

Q2. What is JSON and how does it differ from an XML?**A2.** When will you favor XML over JSON for data transfer, and when will you favor JSON over XML?**Favor XML over JSON**

When you need to validate your messages using XSDs, Schematron, etc

When you need to transform your messages using XSLT. For example, XML to HTML, etc

When you need to inter-operate with environments that don't support JSON

When you need to have a lots of strong mark-ups.

Favor JSON over XML

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When messages don't need to be validated or transformed
 When messages predominantly have data and no marked up texts
 When messaging end-points have JSON support. For example, JSON/HTTP, JSON/SMTP, etc

JSON is less verbose, simpler, and performs better.

Q3. What are some of the popular JSON libraries for Java?

A3. Jackson, google-gson, and JSON-lib to name a few.

Q4. How do you tell your RESTful web services to accept JSON data as opposed to XML?

A4. You tell it via the "**Accept**" HTTP header.

Accept=application/json

For example, in Spring MVC

```

1 @Controller
2 public class MyAppController {
3
4     @Resource(name = "myAppService")
5     private MyAppService myAppService;
6
7     @RequestMapping(value = "/addOrModifyAdjustment")
8     public @ResponseBody MyAppDetail addOrModifyAdjustment() {
9
10        MyAppDetail addOrModifyAdjustment = myAppService.addOrModifyAdjustment();
11        return addOrModifyAdjustment;
12    }
13 }

```

The JAX-RS annotation **@Consumes** and **@Produces**

```

1 @PUT
2 @Consumes("application/json")
3 @Produces("application/json")
4 @Path("/{accountId}")
5 public RestResponse<Account> update(Account account) {
6     ...
7 }

```

Q5. What is JSONP?

A5. JSONP is a simple way to overcome browser restrictions when sending JSON responses from different domains from the client.

- ⊞ QoS (8)
- ⊞ Scalability (4)
- ⊞ SDLC (6)
- ⊞ Security (13)
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If you have a **GUI application** (i.e. a war) and a separate **RESTful service application as a separate application** running on two different domains, the you need JSONP for your Ajax to make cross domain calls. For example, if you have 2 domains local and dev. The initial “sum” page will be loaded from the “local” domain, and once you click on the “add” button, the Ajax call will be made to the “dev” domain to get the calculated sum via the RESTful web service call via jsonp callback.

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```

1  <script type="text/javascript">
2
3  function add() {
4      var url = 'http://DEV:8080/aes-gui/simple/poc/
5
6      console.log("logging.....");
7
8      $.ajax({
9          type : 'GET',
10         url : url,
11         data : {
12             inputNumber1 : $("#inputNumber1").val(),
13             inputNumber2 : $("#inputNumber2").val()
14         },
15         async : false,
16         //contentType : "application/json",
17         dataType : 'jsonp',
18         //jsonp: "callback",
19         //jsonpCallback: processJSON(jsonData),
20         success : function(response, textStatus, jqXH
21             console.log("reached here");
22             // data contains the result
23             // Assign result to the sum id
24             $("#sum").replaceWith('<span id="sum">' + re
25             console.log(response);
26         },
27     },
28     error : function(jqXHR, textStatus, errorThro
29         console.log(errorThrown);
30     }
31 });
32 };
33
34 </script>
35

```

Q6. Is JSONP an industrial strength solution to overcome JavaScript cross domain restriction?

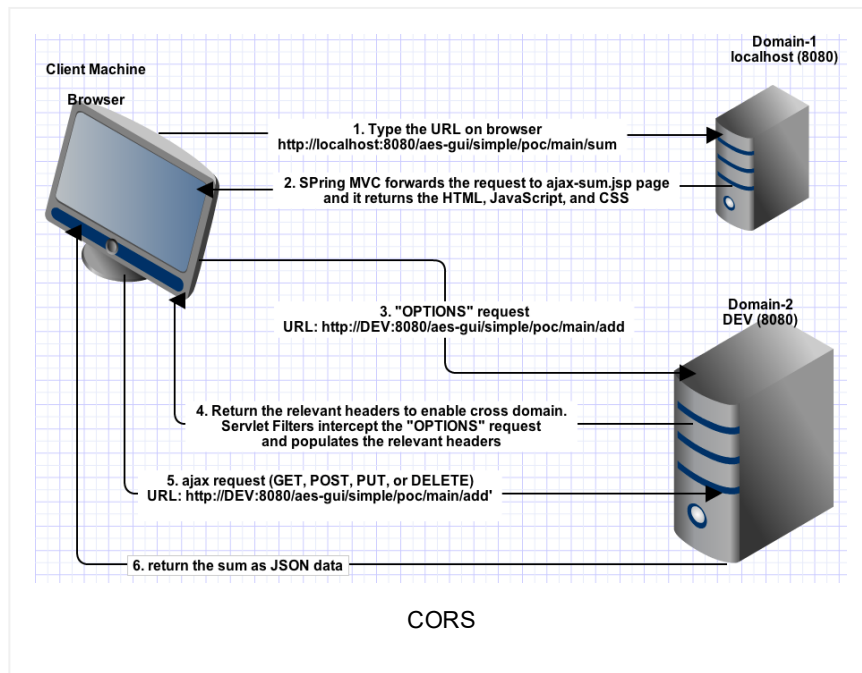
A6. No. **CORS** is the industrial strength solution for the cross domain Ajax calls.

JSONP has a number of limitations like, it supports only GET requests and not PUT, POST, DELETE, etc and it does not

also send headers across. CORS stands for **Cross Origin Resource Sharing**, which allows you to share GET, POST, PUT, and DELETE requests and CORS is supported by the modern browsers. The CORS make use of 2 requests.

Request 1: "OPTIONS" request as part of the handshake to determine if cross domain is allowed by the server.

Request 2: GET, POST, PUT, or DELETE request that performs the actual operation on the server.



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