JSON

* JavaScript Object Notation
* Way to describe data so it is easy to use with JavaScript
* Lightweight format for creating objects that is part of and built into JavaScript.
* JSON data is in key-value pair
* Each key in JSON is property of the object.
* Easier to parse than XML, but harder to read
* JavaScript SDK relies heavily on JSON

JSON

* Format for sharing data
* Derived from JavaScript
* Language independent
* An alternative to XML

Advantages

* Easy to read
* Easy to parse
* Leaner than XML

JSON objects

* {string: value, string: value, ……}
* A JSON object is wrapped with a curly bracket
* Strings (often variable names) and values can be nested with commas

JSON strings

* A string is a sequence of characters in quotes like a C string
* We can use the \ character if we need to escape strings

JSON values

* Values can be a number of different types of data
* JSON has six kinds of values
* string, number, object, array, true, false, null
* Whitespace (spaces, tabs, carriage returns, and newline characters) may be inserted before or after any value.

JSON Notes

* A JSON object is an unordered container of name/value pairs.
* A name can be any string.
* A value can be any JSON value, including arrays and objects.
* The JSON array is an ordered sequence of values
* A value can be any JSON value, including arrays and objects.

JSON Example

{

"users":[

{

"firstName":"Mainul",

"lastName":"Hasan",

"joined": {

"month":"January",

"day":12,

"year":2012

}

},

{

"firstName":"Jhon",

"lastName":"Jones",

"joined":{

"month":"April",

"day":28,

"year":2010

}

}

]

}