

Modern Related Technology on Mobile Devices

Lec 14: JSON

Ekarat Rattagan, PhD

JSON

JavaScript Object Notation – language independent specification of interchanging data in human-readable format.

- In contrast with XML-RPC and SOAP it allows for **bidirectional communication** between client and server (like peers) and for multiple calls.
- Data introduced **in key:value** pair format.
- More economical than XML in terms of data size, but has less readability.
- Android has JSONArray, JSONObject, JSONStringer and JSONTokener objects for parsing this format.

The sample JSON

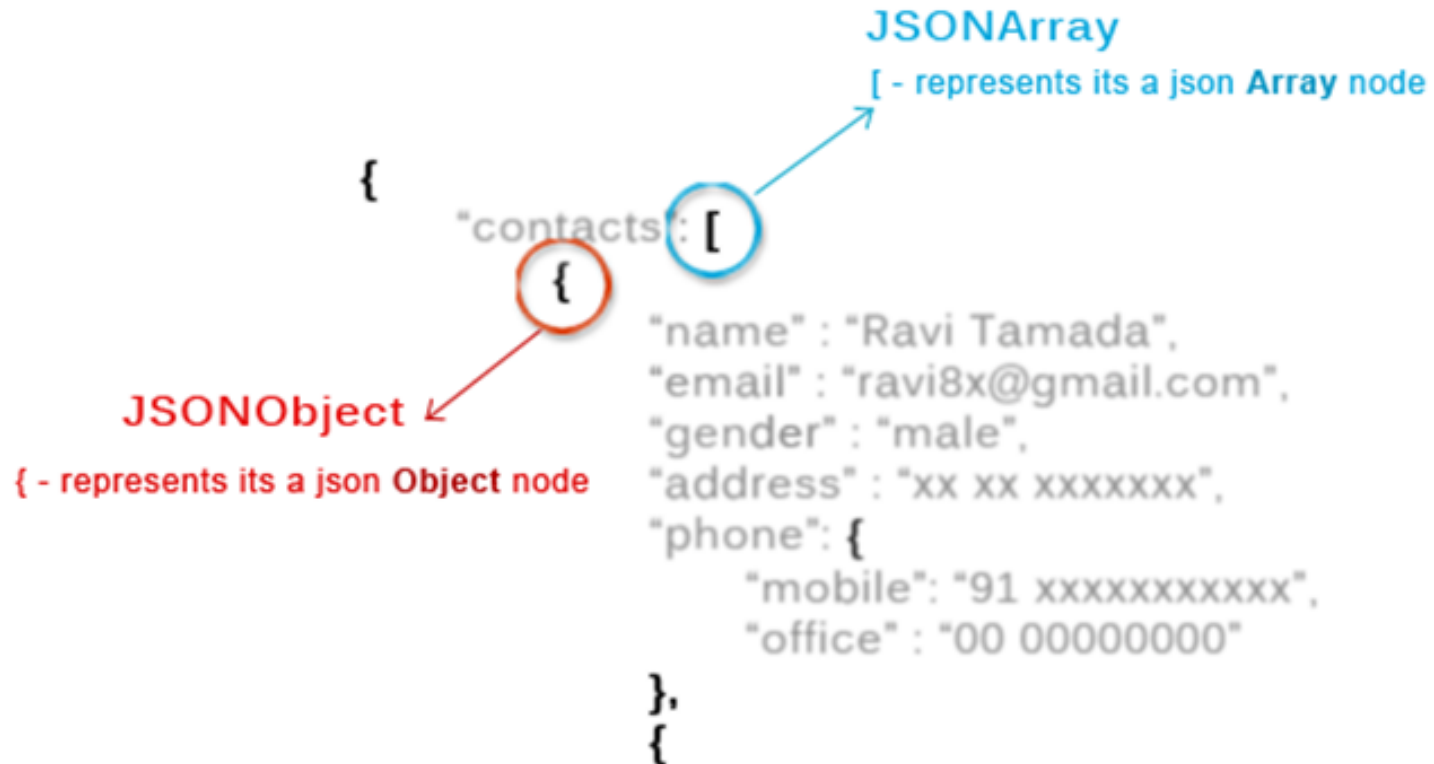
A list of contacts where each node contains contact information like

id,
name,
email,
address,
Gender,
phone numbers.

```
{
  "contacts": [
    {
      "id": "c200",
      "name": "Ravi Tamada",
      "email": "ravi@gmail.com",
      "address": "xx-xx-xxxx,x - street, x - country",
      "gender": "male",
      "phone": {
        "mobile": "+91 0000000000",
        "home": "00 000000",
        "office": "00 000000"
      }
    },
    {
      "id": "c201",
      "name": "Johnny Depp",
      "email": "johnny_depp@gmail.com",
      "address": "xx-xx-xxxx,x - street, x - country",
      "gender": "male",
      "phone": {
        "mobile": "+91 0000000000",
        "home": "00 000000",
        "office": "00 000000"
      }
    }
  ]
}
```

The sample JSON

[is an array, { is an object.



The sample JSON

Example of JSON

- <http://api.androidhive.info/contacts/>

