**JSON**

Given the following JSON structure:

{

"\_id": "E241AD11-1557-4FD3-B21F-97D0FA4230C7",

"\_rev": "13-2c82a95b6558a4c6144b58f59720edc7",

"fp\_type": "ibeacon",

"fp\_owner": "global",

"fp\_ext\_id": "bstg\_autogen\_1445345099899\_62005859",

"uuid": "B9407F30-F5F8-466E-AFF9-25556B57FE6D",

"major": 37100,

"minor": 51516,

"label": "Icy Bond",

"actions": [

{

"type": "home-block",

"params": {

"appearance": "text",

"action": "open-location",

"link": {

"fp\_type": "sponsor",

"fp\_ext\_id": "spotme"

}

}

},

{

"type": "presence",

"params": {

"interval": 15

}

}

],

"fp\_last\_changes": {

"timestamp": 1445437699,

"source": "dataloader\_api",

"host": "localhost.backstage.4pax.com"

},

"location": {

"lat": -4.232423,

"lng": 12.523098

}

}

**Tasks**

1. Add a new action of type notification, with parameters title and message (string values)
2. Set action property of the first action to null and remove the link property

**Underscore.js**

Assuming the JSON structure from the first task is loaded in the environment, perform the following tasks using only underscore.js:

**Tasks**

1. Extract action types
2. Convert actions array into a object where the key is the actions' type and the value are its params, ie.:
3. {
4. // ...
5. "presence": {
6. "interval": 15
7. }
8. // ...

}

1. calculate the sum and average for the following input (non-number elements should be ignored):

["0", 2, 4, 6, null, [], 8, 10]

**Questions**

1. In the above task, what would happen if there were two actions of a same type?

**jQuery**

**Tasks**

1. Insert a textarea element into the DOM and fill it with the JSON structure from the first task. Bonus points if JSON in the textarea is nicely formatted.

NB. JSON structure should be present in the code as a JavaScript object, not a string

1. Make an AJAX request to <https://www.ipify.org/> API to retrieve your machines' public IP. Log only the IP address to the console.