

```
1 var batteries = [];  
2 function addBattery(){  
3     var flag = false;  
4     var model = document.getElementById('modelid').value;  
5     var battery = document.getElementById('batteryid').value;  
6     var func = document.getElementById('funcid').value;  
7     var newBattery = {  
8         modelID : model,  
9         functionID : func,  
10        batteryID : battery  
11    };  
12    var index = batteries.indexOf(newBattery);  
13    if (newBattery.modelID == "none" || newBattery.functionID == "none" || newBattery.batteryID == "none" ){  
14        flag = true;  
15    }  
16    for (var i = batteries.length - 1; i >= 0; i--) {  
17        if (batteries[i].modelID == newBattery.modelID && batteries[i].functionID == newBattery.functionID && batteries[i].battery  
18            flag = true;  
19            break;  
20        }  
21    }  
22    if ( !flag) {  
23        batteries.push(newBattery);  
24        var batterychips = document.getElementById('BatteryChips');  
25        batterychips.innerHTML = batterychips.innerHTML + '<span class="mdl-chip mdl-chip--deletable"><span class="mdl-chip__text"  
26    }  
27 }  
28  
29 function removeBattery(element) {  
30     var id = element;  
31     element.remove();  
32     battery = element.children[0].innerHTML.split('_');  
33     removeBatteryElement = {  
34         modelID : battery[0],  
35         functionID : battery[1],  
36         batteryid : battery[2]  
37     };  
38     batteries.splice(batteries.indexOf(removeBatteryElement));  
39 }  
40  
41  
42 function downloadData(){  
43     var cyclefrom = document.getElementById('power_cycle_from').value;  
44     var cycletto = document.getElementById('power_cycle_to').value;  
45     var spinner = document.getElementById('spinner');
```

Fig14. JavaScript of Web App