

HACKING SCORM TO GATHER SOCIAL METRICS FOR ONLINE RESOURCES

Code in this handout is free to use under Creative Commons Attribution-Share Alike 3.0 United States License (<http://creativecommons.org/licenses/by-sa/3.0/us/>).

OVERVIEW

1. Identify metrics to track
2. Identify SCORM data model elements that can be used to track the metrics
3. Identify API methods required to record metrics
4. Create or modify the JavaScript files needed to interact with the SCORM API
5. Create a mechanism to launch resources using the API

METRICS AND DATA ELEMENTS

Question	Data Type	Data Model Element	Response Values	Input
Did you find this tutorial helpful? (Y/N)	Boolean or number	cmi.score.scaled	-1 = No 0 = Not Rated 1 = Yes	User
Rating (1-5)	Number	cmi.score.raw	1=Bad 5=Awesome	User
Would you recommend to co-workers? (Y/N)	Boolean or number	cmi.score.min	0 = Not rated 1 = Yes 2 = No	User
Comments	String	cmi.suspend_data or cmi.comments_from_learner	String	User
User ID	String	cmi.learner_name	string	Auto
Finish?	Number	cmi.progress_measure	0 = Not Attempted 1 = Completed 0<>1 = Incomplete	Auto
Date	Date	cmi.suspend_data		Auto

RESOURCE LIST PAGE

```
/* contains functions used to interact with the API and launch the tutorial page */
var lID = API_1484_11.getLearnerIDFromPortal();
var courseWindow=0;
var win;
function popUpWindow(URLStr, c, wd, ht, overflow){
    wd = parseFloat(wd) + 80;
    ht = parseFloat(ht)+100;
    // close any course windows that are open
    if(courseWindow){
        if(!courseWindow.closed) courseWindow.close();}
    //check that API is still available
    if (API_1484_11.sessionState == -2 ) {
        API_1484_11.sessionState = API_1484_11.SessionState.RUNNING ;
        var learnerID = API_1484_11.getLearnerIDFromCookie() ;
        if ( learnerID != -1 )      {
            API_1484_11.transState = API_1484_11.TransState.ACTIVE ;
            API_1484_11.loadLearnerData( learnerID ) ;
        } else {
            API_1484_11.transState = API_1484_11.TransState.ACTIVE ;
            learnerID = API_1484_11.getLearnerIDFromPortal() ;
        }
    }
}
//1. set course ID via API
API_1484_11.setCourseId(c);
//2. build course link
var cl = "http://somePathToYourStuff/" + URLStr + "/player.html";
    if (overflow == '' || !/^(scroll|resize|both)$/.test(overflow)){ overflow =
'both';    }
win = window.open(cl, '', 'width=' + wd + ',height=' + ht
+ ',scrollbars=' + (/^(scroll|both)$/.test(overflow) ? 'yes' : 'no')
+ ',resizable=' + (/^(resize|both)$/.test(overflow) ? 'yes' : 'no')
+ ',status=no,toolbar=no,menubar=no,location=no'
);
}

function popUpWindowNT(URLStr, c, wd, ht){
    //use for resources that aren't tracked
    wd = parseFloat(wd) + 80;
    ht = parseFloat(ht)+100;
    // close any course windows that are open
    if(courseWindow){    if(!courseWindow.closed) courseWindow.close(); }
    var cl = "http:// somePathToYourStuff /" + URLStr + "/player.html";
    win = open(cl, 'courseWindow',
'toolbar=no,location=no,directories=no,status=no,menubar=no,scrollbars=no,resiza
ble=no,copyhistory=yes,width='+wd+',height='+ht);
    attachEventListener(window, "unload", engageUnload, true);
    //adds unload listener for when window is closed
}
}
```

SAVING RATINGS

Call the functions to store ratings:

```
<a href="javascript: setRating('use', '1', 'wasUseful')" id="useful1">Yes</a> |  
<a href="javascript: setRating('use', '-1' )" id="useful0">No</a>
```

JAVASCRIPT FUNCTIONS

```
function setRating(cmiElement, cmiValue) {  
    //cmiElement = could be the SCORM data model element, but it's just a flag for  
    the switch below  
    // cmiValue = the value to send to the API  
    switch ( cmiElement ) {  
        case "use":  
            blnUse = SCORM2004_CallSetValue('cmi.score.scaled', cmiValue )  
            if ( blnUse == true) {  
                setUsefulColor(cmiValue); // sets the color of the link  
            } else { alert("can't save your rating at this time"); }  
            break;  
        case "rate":  
            if ( SCORM2004_CallSetValue('cmi.score.raw', parseFloat(cmiValue) ) ==  
true) {  
                ul.style.display="inline";  
            } else { alert("can't save your rating at this time "); }  
            break;  
        case "recommend":  
            if ( SCORM2004_CallSetValue('cmi.score.min', parseFloat(cmiValue) ) ==  
true) {  
                setRecommendColor(cmiValue);  
            } else {alert("can't save your rating at this time "); }    break;  
    }  
}  
function returnObjById( id ){  
    if (document.getElementById)  
        var returnVar = document.getElementById(id);  
    else if (document.all)  
        var returnVar = document.all[id];  
    else if (document.layers)  
        var returnVar = document.layers[id];  
    else  
        var returnVar = null;  
    return returnVar;  
}
```