Code Review

Reviewer: Andres Moreno   **Date**: November 10, 2015

Code under Review: Commit #acce34a6daceb1490dfda0c5c8d1dd928da28888

runRenameTag	(Lines 68 - 79 in zoteroEXT.js)	Author: Junaid Patel
loadTags	(Lines 83 - 128 in zoteroEXT.js)	Author: Nadeem Haidar
runRenameTag	(Lines 68 - 79 in zoteroEXT.js)	Author: Junaid Patel

Issues Found:

1. Bug in runRenameTag (line 76). When renameTag is called the id is passed in instead of the name of the tag, so the function does not run properly.
   How to reproduce: Change the Apply button oncommand in line 56 of ui.xul to *Zotero.zoteroEXTended.runRenameTag('edit-tag-list');* This should cause the items to be renamed but it does not work.
   Suggested Fix: Change *list[i].id* to *allTags[list[i].id].name* or change the method renameTag to take in an id instead of a name.

2. Poor code logic in mergeTags (lines 84, 45, 88). The code finds the items with the old tag, adds the new tag to them and then deletes the old tag. However this is the same thing that renameTag does, so the code is duplicated.
   Suggested Fix: Replace the 3 lines with *renameTag(tags[i], newName)* inside of the for loop.

3. Poor coding style in mergeTags (lines 79, 81, 89). The method accesses the UI to get the data the user entered. This makes it so that the code is not modular and it does not separate the implementation of mergeTags from the user interface.
   Suggested Fix: remove the lines and implement another function in zoteroEXT.js that runs the needed UI code and then calls mergeTags with the data.

4. Inefficient code in loadTags. Every time it is called it removes all the items in the listboxes and then adds them all back in to update the list of tags. However this is very inefficient especially when having to modify the DOM.
   Suggested Fix: keep track of which items are in the listbox and then every time it is called scan the tags and see if any tags have been added or removed. Then only add or remove the items in the listbox that are needed.