



Design Inspection, Code Inspection and Unit Testing

Sprint 2

Design Inspection

Product	Crappy Clippy		
Date	03/02/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder(s)	Aaron Chang, Clayton Lewis, Jalen Smith, Ria Chang		
Defect #	Description	Severity	How Corrected
1	Syncing a user's sets among Chrome browser they are logged in to will not work unless the extension is published to the web store.	Workaround	Until we publish to the Chrome browsers the user's data will remain local to the specific machine.
2	The user can save a set with no name, making it difficult to click in the list of sets.	Important	The user is told to input a name for their set before they can save it.
3	The user can have multiple sets with the same name, causing confusion around what each set contains.	Important	The user is warned that the name they typed is already in use. The user can then change the set name before saving.
4	User can select no tabs and save a set, resulting in nothing happening when the user clicks that set to open.	Important	The user is told to select at least one tabs to save before saving will occur.
5	User cannot view browser CPU usage	Workaround	Functional only with a Chromebook; for now, will display just generic architecture/processor info
6	Tab reminders wouldn't show up after the first one displayed	Important	Set the reminders to have to interacted with in order to be removed

Code Inspection

Product	Crappy Clippy		
Date	03/02/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Aaron Chang, Clayton Lewis, Ria Chang, Jalen Smith		
Defect #	Description	Severity	How Corrected
1	Implementation for sorting tabs by time updated does not account for closed tabs.	Important	Added a listener function that stops tracking a tab when it is closed
2	Implementation for drag-and-drop ordering tab sets uses HTML attributes like "ondrop" and inline JS functions rather than the more reliable process of adding event listeners in JS.	Workaround	Replaced attributes and inline JS with event listeners where applicable.
3	Warnings to input a name or change the name of the set the user is trying to save would reappear and append to each other.	Important	Added conditional statement with the condition : <code>if (document.querySelector(...)==null) { ... }</code> to check if the warning element has already been rendered.
4	Sorting would do nothing and return an error.	Critical	<code>chrome.tabs.move()</code> requires an object with an index attribute rather than an integer value.
5	Mascots would not properly cycle through options	Low	Index needed to be properly updated
6	Could not view all tab sets in home page	Fair	Fixed style sheets to display scroll according to size of sets
7	New reminders weren't set for new tabs even if Alarms were on	Low	Set a listener for <code>tabs.onCreate()</code> to set a new reminder for the new tabs
8	Reminders were being called for tabs that didn't exist	Fair	Set a <code>tabs.onRemoved()</code> listener to clear the reminders that were redundant

Unit Testing

The extension includes the following modules which were tested manually:

- Edit tab set module (edit.js)
- Load three tab sets module (loadThree.js)
- Popup redirection module (redirect.js)
- Save tab set module, Select tabs and save module (save.js, selectSave.js)
- Sort tabs module (sort.js)
- Open tab set/Open tab set in new window module (open.js, openWindow.js)
- Edit tab set interface (edit.html, editOptions.html, performEdits.html)
- New tab page interface (index.html)
- Save tab set interface (save.html)
- Select tabs and save interface (selectSave.html)
- Sort tabs interface (sort.html)

Product	Crappy Clippy		
Module	Edit tab set		
Date	03/02/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Clayton Lewis		
Defect #	Description	Severity	How Corrected
1	After reordering the tabs within a set, the URLs of all tabs in that set become undefined	Critical	When saving a newly ordered tab set, wrap each URL in JavaScript's String function
2	Finding a set in the list of saved tab sets by its name threw an error (treating an array like an object)	Critical	Used findIndex function to find a given set

Product	Crappy Clippy		
Module	Sort tabs		
Date	03/02/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Clayton Lewis, Aaron Chang		
Defect #	Description	Severity	How Corrected

1	For sorting tabs by time updated: The time updated for a tab is changed when a it is created but not when it is updated.	Important	Added a timeout to allow enough time to save the data when a tab is updated
2	In a few edge cases (such as the new tab page), a tab was closed but the time it was last updated was still saved. Attempts to move this tab would throw an error	Critical	When sorting tabs by time updated, try to move each tab. Catch errors and delete the data for a closed tab if it's still saved
3	Sorting by name/domain: The tabs were sorted but in reverse alphabetical order	Workaround	Flip comparison operators in the conditions for the custom sort function.
4	Sort by domain: Tabs were sorted first by the url's protocol.	Workaround	Use <code>str.split("://")[1]</code> to split the url and not consider the protocol when sorting.

Product	Crappy Clippy		
Module	Order tab sets		
Date	03/02/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Clayton Lewis		
Defect #	Description	Severity	How Corrected
1	When dragging and dropping a div representing a tab set onto another div representing another set, the first div is dropped inside of the second rather than after it. Then the two tab sets are stuck together.	Critical	Used the insertBefore and nextSibling functions to insert a div after another

Product	Crappy Clippy		
Module	Save tab set		
Date	03/02/18		

Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Aaron Chang		
Defect #	Description	Severity	How Corrected
1	If a set name was already in use, the user is warned but the set is still saved.	Important	Added condition to return before the set is saved if a duplicate name is found.

Product	Crappy Clippy		
Module	Separate tabs		
Date	03/04/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Justin Blessing		
Defect #	Description	Severity	How Corrected
1	Tabs from the same site would link to the same page, even if they were on different pages	Important	Save full urls into an array to create windows with.
2	Last tab would not open with the rest	Important	Called create once more after the for loop ended.

Product	Crappy Clippy		
Module	Schedule tab set to open		
Date	03/04/18		
Author	Development Team		
Inspectors	Justin Blessing, Aaron Chang, Ria Chang, Clayton Lewis, Jalen Smith		
Recorder	Justin Blessing		
Defect #	Description	Severity	How Corrected
1	Tab set doesn't open when scheduled.	Important	Run in background and don't redirect pages after clicking