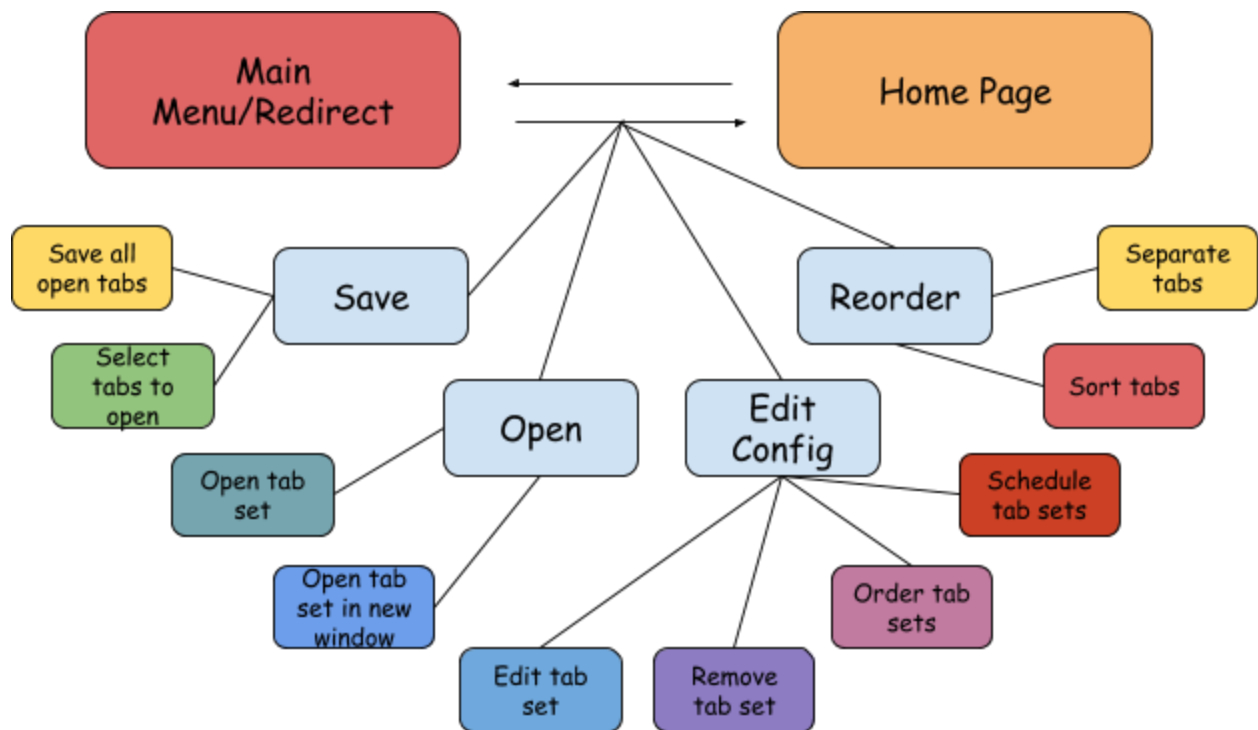# CrappyClippy

Jalen Smith, Aaron Chang, Clayton Lewis, Justin Blessing, Pretoria Chang

REGRESSION AND INCREMENTAL TESTING LOG

CLASSIFICATION OF COMPONENTS

Module descriptions

- **Main Menu**
    - *Inputs*: Click on selection
    - *Outputs:* Redirects to selected submodules

- **Save All Open Tabs**
  Module in charge of taking all open tabs in the current window and save it to a set named by the user.

- ○ *Inputs*: Set name
- ○ *Outputs:* Callback function to save to local storage and redirect to main

- ● **Select Tabs to Save**
  Module that allows the user to select a subset of the open sets, choose a set name, and save the selected tabs to the set with the given name.
  - ○ *Inputs*: User clicks a number of tabs, types in text input, and clicks save
  - ○ *Outputs*: Callback function to save selected tabs to local storage and redirect to main

- ● **Open Tab Set**
  Module in charge of opening all tabs in a saved set
  - ○ *Inputs*: Tab sets in local storage, user selection
  - ○ *Outputs*: Open tabs in browser and redirect to main

- ● **Open Tab Set in New Window**
  Module in charge of opening all tabs in a saved set in a new window
  - ○ *Inputs*: Tab sets in local storage, user selection
  - ○ *Outputs*: Open tabs in browser in a new window and redirect to main

- ● **Edit Tab Set**
  Module in charge of editing a saved set
  - ○ *Inputs*: Tab sets in local storage, user changes to set name and contained tabs
  - ○ *Outputs*: Tab set updated in local storage

- ● **Remove Tab Set**
  Module in charge of removing a saved set
  - ○ *Inputs*: Tab sets in local storage, user selection of set(s) to remove
  - ○ *Outputs*: Selected tab sets removed from local storage

Incremental testing technique

A top-down testing technique makes sense for this product. We started by testing the main module to ensure that it can redirect to each completed submodule. After verifying this, we were able to test each submodule.

In the process of incremental testing, we often had to test modules together that depended on each other indirectly. For example, while the **Open Tab Set** module does not directly depend on the **Save Tab Set** module, there must be at least one tab set saved in order to open a tab set. Thus we had to test the process of saving a tab set and *then* opening it.

DEFECT LOG

Incremental & Regression Testing

Module	Save/Select Save		
Defect no.	Description	Severity	Solution
1	When fixing code to allow saving of a tab the url was saved poorly formatted so opening the tab didn't work	1	Reformat the tab saving to match the format in chrome documentation
2	Clicking "select tabs to save" from the main menu redirects to the "save tab set" module instead of the "select tabs to save" module	2	Add a different event listener to the main menu to redirect to the "select tabs to save" module
3	Fixing code to allow tab saving allowed saving of tabs with no name and affect opening and editing tabs as well	2	Insert checks for null and a default value into the input box.

Module	Remove Tab Set		
Defect no.	Description	Severity	Solution
1	Removing a tab in a set removed the tabs from the set, leaving an empty set. The user can still see the set when opening a tab set	1	Remove the index containing the set from the array, rather than just removing the data from the set

Module	Edit Tab Set		
Defect no.	Description	Severity	Solution

1	Editing a set name doesn't actually edit the set name in storage	2	Update edited name to also edit in local storage
2	Selecting a tab set to edit did not bring user to edit page	1	Correctly forward user to edit page upon clicking set name
3	Adding a tab to a set did not correctly change the set in local storage	1	Added tabs are properly saved to local storage
4	Editing a set saved the original set and the new set to storage, with both able to be opened by the user.	2	Remove the original set from the array before adding the edited set, or overwrite the old set.
5	Fixing Defect 3 showed that all open tabs were added rather than the selected tabs	2	Model method for adding tabs after "select tabs to save"

Module	Open tab set		
Defect no.	Description	Severity	Solution
1	If a tab is saved with no name and then clicked to be opened it will not open the tab set	2	Stop allowing tabs to be saved without names
2	Clicking "open tab set in new window" opened the tabs in the current window	3	Use an array of URL's in chrome.window.create to open in a new window
3	Fixing defects in save allowed saving with tabs with bad url's	2	Fix url saving problem in save/select Save
4	Fixing the second defect created a problem where the first tab in a set would open twice	2	Loop through array starting at 1 instead of 0