CEN4010: Software Engineering

Group 1

TabUltra

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**Statement of Need**

TabUltra is a JavaScript/HTML based browser extension for users to store internet tabs in groups so that the user does not have to individually open and manage each tab. This will increase the convenience of using Google Chrome over multiple sessions/projects and allows the user to negate the annoyance of relying on manual work to remember what tabs must be open for a job or topic. This is especially useful for students in terms of utilizing multiple tabs/sites for things such as projects, assignments, papers, etc. Being able to develop a product that can be very useful to students is compelling in itself, but it can still prove to be extremely useful to standard Chrome users, showing that while this is a simple concept, a wide variety of people will find it useful.

The main objective with TabUltra will be to deliver an easy to use and efficient way for Chrome users to save a group of tabs that they may want to return to later and open back up. It is important to us that we make a UI that is convenient and simple to give the user the most stream-lined experience in comparison to our competitors. Our main differentiators will be our ease of use, lack of clutter, and efficiency. When compared to an extension like Session Buddy, which opens up a new tab in order to save URLs in a group, our design is more akin to a common browser extension that has a small popup in the top right corner, allowing the user to save a group bookmark of multiple URLs in just a few clicks without being taken out of workflow.

The features and functionalities of TabUltra include the following:

* Configure and manage groups of user-selected tabs.
  + Hand-select which tabs to be inserted into a group.
  + Rename, delete, sort, and view metadata (created, last edited, etc.) of user-created groups.
  + Specify any/all tabs to open when selecting a group.
* Store up to 100 tabs in a single group.
* Interactable UI window/elements housing all primary information and acts as the central control unit.
  + Separate intuitive layouts for selecting tabs and viewing/managing created groups.
* Redirect to external landing page containing FAQ, download links, and support contact.

An important note, however, is that Group 1 is comprised of members with little to no experience in creating browser extensions. This will be mitigated by allotting an adequate amount of time for research and testing on what is necessary to create a browser extension. The similarity to existing applications will be resolved by the numerous quality of life and efficiency features introduced in TabUltra.