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## CS 410 Final Project Progress Report

### Suggestions from Reviewers:

- How do you judge if the text information in that website is needed by user? In other words, how to judge if we need to memorize that website? Because sometimes we enter a website, we look through it but will find it is not what we need.
  - We decided that users can select when they want to save a website by directly interacting with the chrome extension and saving a website.
- For each website, do you just memorize keywords or memorize other text information?
  - Rather than memorization we meant memoization of the website, so that previous information found would not be necessary to search through again. We would use keywords to find text information.

From these prompts and working on the project, we thought of some changes to the overall project that we talk about in completed tasks.

### 1) Which tasks have been completed?

We were able to successfully complete the first two tasks of the final project. First we all began by researching how to make a chrome extension trying to follow simple tutorials from the official google websites and other examples. We realized the easiest way to create this extension would be to use the React framework. Then we spent a lot of time learning the basics of React and how to set up a React project as we all have limited prior knowledge. Following the basic creation, we added a title and button to our extension. We added one of the main functionalities to our extension by displaying a list of URLs of the current website that a user is on to the list each time the + button is clicked.

Upon doing more research and planning our timeline, we as a group decided to change the project slightly to guarantee we finished our project by our deadline. A lot of time was spent by each of us in regards to setting up and learning a new language, and now we would like to change our chrome extension to serve as a “smart bookmark”. Through this extension, users will still be able to add and save URLs/links but we would like to add a sentence summary to each of the user’s entries using NLP. Through the text analysis we will be able to extract the title of the document, and include a snippet of information that would give the main information/keywords from the given url article. Also, if time permits, we will try to implement a filter search bar that would find past saved articles.

### 2) Which tasks are pending?

- Being able to store the information of the list of URLs selected by the user ~5 hours
- Being able to extract and generate a sentence summary: ~15 hours
- Including a filter search bar to search among the bookmarked pages: ~15 hours

### 3) Are you facing any challenges?

Initially, we all needed to take a few hours to become familiar with React as we all have very limited prior knowledge. We also all have never built a chrome extension, so becoming familiar with everything was a slight challenge as well.