

## **CS410 Progress Report**

Since writing the project proposal, I have completed the following tasks; Firstly, I began an overall design of the UI for my tool and how I want it to look and function. I used other chrome extensions to model the design of how a successful extension should look. I am planning to have a button in the toolbar that will prompt the start of the program and return the results as a pop-up window extending from the extension button. Next, I began building the skeleton of the application in HTML and CSS. This was pretty straightforward as once I had a design in mind it was not too challenging to get the UI set up, however, it is still not functional at all.

The main aspect of the project still remains. I have to still implement the information scraping and information retrieval aspects of the project. I am planning on using an existing text scraper and writing a script to select only the relevant parts of the page. With that, I have to implement an algorithm to use that information to generate more informed queries that the user can explore for easier browsing. While I haven't started implementing these aspects, I have done research on possible approaches to take. I have looked at the kinds of websites that I want my extension to run on and theorized what parts of the page they all have in common and which parts I should target.

I haven't faced many challenges lately as I have only implemented the more simple parts of the project instead of the more specialized parts like information scraping and retrieval. That is where I expect to find the most challenges. I expect it to be difficult to scrape an image to find only relevant questions that need to be answered. Also, I expect it to be difficult to find context from the documents that will bolster the automated searches rather than hinder them.