

CS410 Course Project – Project Progress Report

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Project Description

The project proposal is to create a Chrome extension to improve search experience for current web page. The user can have the similar search experience in the current page by typing in words, phrases and sentences and the extension will index and retrieve ranked paragraphs in the current web page. The ranking will be based on the relevance of the paragraphs.

Progress (Tasks Have Been Completed)

The main goal for the early part of this project was to gain some experience using Google developer to build the Chrome extension, as well as study for JavaScript programming language. I've spent most of the time going over online tutorials and documentation about the Chrome extension, including creating the manifest.json file, user interface using html and programming in content.js. After going through the documentation, I went ahead and created a manifest.json file and started building basic functionalities in the content file. In addition, with gradually digging into the course project, I noted that the Python's NLTK library is a good tool to use for my project and started to spending time into it.

Challenges Faced

The first challenge I faced is the JavaScript programming language. Due to lack of coding experience, I have struggling with understanding the code. The second challenge so far has been familiarizing myself with the NLTK library. One thing that was hard was to setup the library in the beginning as the installation steps were not as simple as just using pip.

Remaining Work (Pending Tasks)

1. Complete the text retrieval and scoring function. Fortunately, NLTK has some built in libraries that can help with this meaning that it should not take up too much time. Once this step has been completed, the following things need to be done.
2. Package the Python code as an API.
3. Build Google chrome extension. The extension will consist of a simple UI with a input bar and a button.