

CS410 DAMTD Proposal(Theme - **Intelligent Browsing**)

The free topic we chose centers around the Intelligent Browsing Theme. When viewing a post on Campuswire, the user is unable to view other existing relevant posts. This can make finding relevant posts tedious. Also, when the user is creating a post, they are unable to see if a similar post already exists. This can lead to duplicate posts being created. Duplicate posts mean duplicate replies or replies that simply refer to another post.

Our project will create a Google chrome extension to make relevant documents readily available via a sidebar. We plan on reading in the current post or the post being written depending on cursor focus. Then we will generate query terms for the post by using chatGPT or TF-IDF. We will then use these query terms to search for relevant posts, either by leveraging the existing search in Campuswire or by using TF-IDF. We will then populate the sidebar UI with the top x documents returned from the search. For our implementation, we plan to use Javascript as our language of choice.

- Below are the major identified areas of work:
 - Setup browser extension - Setup environment **(10 hours)**
 - Data gathering - The current title and body or document being created based on cursor focus. **(20 hours)**
 - Query term generation - Use the data gathered to make a query to chatGPT for the search terms. **(30 hours)**
 - Find relevant docs - Use search terms, either by leveraging the existing search from campuswire or by using TF-IDF. **(20 hours)**
 - Create sidebar ui - Create ui and populate content from search results. Create settings page. **(20 hours)**

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