

CS 410 Project Proposal
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Intelligent Browsing Theme
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Github Code Annotation System

Current browser systems contain the ability to personalize their viewing experience through bookmarks. These bookmarks allow users to deal with an incredible amount of pages available online by selectively favoriting pages that they are interested in retrieving in the future. They can be easily added through shortcuts or by using the browser menu. However, browser bookmarks contain limitations. As bookmarks are just stored in one big list (or sub lists), searching for and retrieving the relevant bookmark can be a challenging task. Additionally, these bookmarks URLs can become outdated as web administrators update URLs on the fly. Finally, bookmarks contain limited ability for the user to personalize them, as they can only contain a name limited in size. This project proposes to solve this problem by building an annotation system specifically for Github code.

Github has large amounts of code files and they can be difficult to index and track. Using bookmarks, especially, can be challenging as even for one project there can be hundreds of source code files. This project proposal proposes creating a **Github Code Annotation System** in the **Intelligent Browsing** theme. When viewing any source code file on github, users will be able to click the line and add an annotation with a note. Upon closing the browser and returning to the page, these annotations will automatically be retrieved. This could prove to be a more powerful tool than bookmarks as bookmarks do not allow users to annotate source code files with useful information when later retrieving the document.

The proposed technology will be a Google Chrome extension. The chrome extension will allow users to click lines of code in github and create annotations. The annotations will be stored locally on the user's local storage and retrieved whenever the respective github codefile is opened.