

Jonathan Lee
Niharika Nagar

Assignment 4 Readme

Our search reads the index file through the function `readIndex()` which takes the index file, opens it and reads each token that is not “<list>” or “</list>” as either a file or a word. If the word is “<list>” or “</list>” pointer arithmetic is implemented to change the starting position of `curr`. Each word has a linked list of files associated with it which are used to search through the file.

For the first token given by the user for all of the search methods, all of the files associated with the token are stored into an “output” file linked list. For the “or” search, if the file is already added to the output file linked list, the file will not be added; otherwise, it will be added to the end of the linked list. For the “and” search, if the file does not contain a word, then it is removed from the linked list.