

Jordan Lyon & Olaolu Emmanuel

Assignment 3 - Indexer

Indexer.c produces an executable index.o which takes command line input as a directory. It then traverses through the directory listing all files and folders within. For each file it encounters, it tokenizes the words of the file. It runs the list of words through an occurrence counting function that will count how many times the word occurs, and in which file. We used a trie to store all words for $O(L)$ time access, L being the length of each word. The trie allows us to do lookups of characters and all words stemming from that character. If the file exists, we ask if it should be overwritten.