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Project 5 Report

Processing files implementation: Option 2 - Automatic reading of arbitrary number of

documents

My implementation uses a simple hashmap that reads in an arbitrary number of text files from a

designated directory. A main function that first calls the training process to read all the

documents and create the hash table/populate it with all the words from the text files. It then

removes words that occur in all of the files (stop words). Once the training phase is over, it enters

the search (retrieval) phase to search for the keywords and find the documents that contain these

keywords. Main prompts the user for the query set (search phrase entered on one line) or prompt

to exit: "Enter Search String or X to Exit". If the user enters "X," main will exit the program,

otherwise it calls the read query function to read the query set. The program then computes the

score, prints out the documents in order of relevance (i.e., descending order of scores), prints out

the document *tf-idf* scores to search scores.txt, and returns to the main prompt (i.e., to prompt for

another search or to exit).

How the Algorithms interact:

https://lucid.app/lucidchart/e2b4a5bc-ffdd-40f8-ae75-5f224bb93e0c/edit?viewport_loc=-1941%

2C-1383%2C4878%2C2400%2C0 0&invitationId=inv d1193fea-a2fd-40ec-af8a-4e838e0ee75d

(also pictured on next page)

