

Distributed Systems

Assignment 2

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Application Idea

The idea behind my application is a similarity checker between two text files. It's more catered towards checking any file the user uploads against a set file in the server. An application for it would be a teacher having an answer key, and uploading a student's file to check the differences between the two.

Novel Feature(s)

The program checks the entire line of both files to see if there are any differences. If there are, the program will print the line from both files, and the line number. It will also calculate the percentage of similarity by dividing the number of lines with differences by the total number of lines. It allows the user to choose what file they are checking the uploaded file against. It takes string input and checks if there are any files with that name and performs the similarity check.

Challenges

Aside from the challenges of the first assignment, it now has a few different problems. When attempting to upload 2 files, one after another, it will go into errors and must be terminated and restarted. If the user enters a filename that does not exist, it will give an error, it does not have validation for it.

Solutions

The errors for this assignment couldn't be resolved because I wasn't sure how to solve them. It would give out of bounds errors if you try to upload a second file, after the first was successful. The error of entering a filename that doesn't exist is much simpler because it only requires additional validation, however it was awkward to implement it in my check function.