

CS 307 PA4

İsmail Berat Düzenli

January 8, 2023

1 Program Flow

- read database.txt to a linked lists where nodes contain name surname and sex
- There is a fix_directory function that takes current directory path and name of subdirectory to fix files and folders in that subdirectory. This function have a while loop that reads existing folders and files in directory and for files it calls fix_file function with parameters current path and filename, for folders it calls fix_directory functions with parameters current path and folder name. This fix_directory is first called with parameters path = "" and subdirectory = "." so it starts from the root where program exists.
- fix_file function takes path and filename then opens given file. Using file pointer and fscanf() program takes words token by token in a while loop, then check whether token is a name in database if its it goes strlen(token)+4 to left and overwrites Ms. or Mr. according to data read from database (It does not check whether it is correct or not it directly overwrites correct one). Then file pointer goes strlen(token)+4 to right to beginning of surname then then check whether surname is correct or not if not it overwrites correct surname (this one checks either written surname is correct).
- program clears the linked list and returns