Project Implementation Document

Group: CS311S20PID-G58

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Project Name: Plagiarism Checker Tool
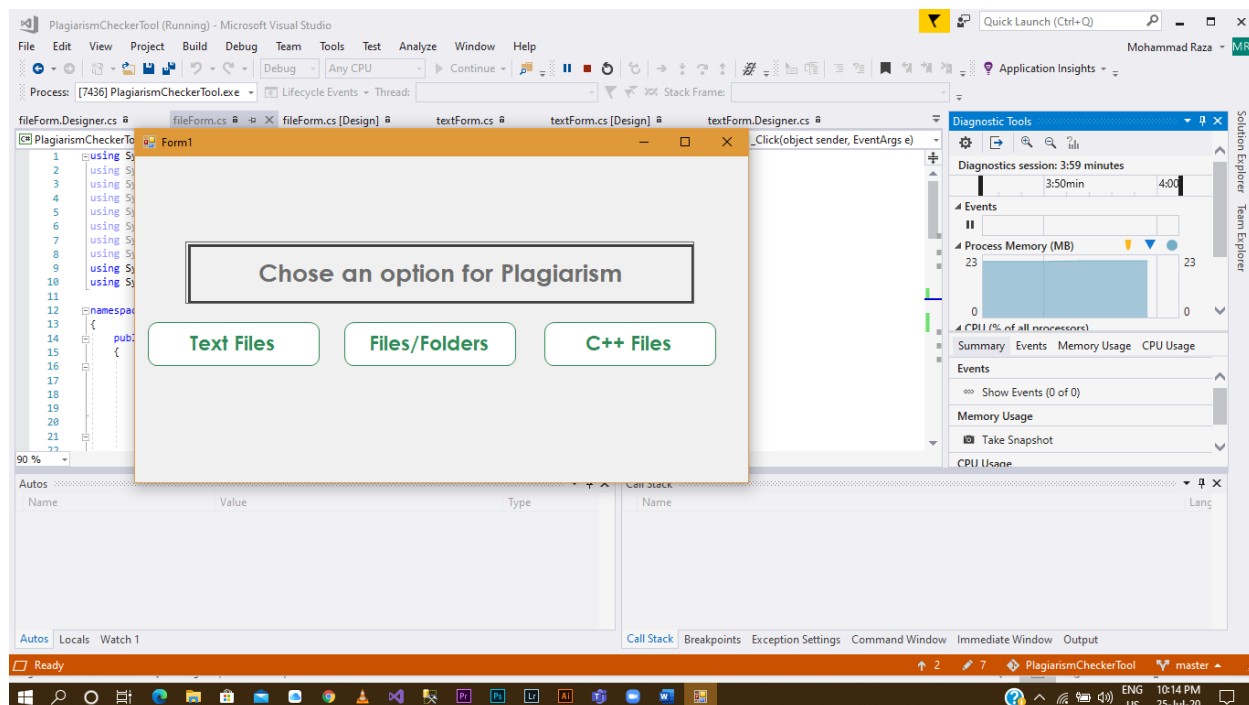
Language: C# (Desktop Application)

Algorithm: Rabin-Karp (with some of our modification + using hash tables)

Interfaces Implementation and Integration with document

Description:

Our project is a plagiarism checking tool. In this project we are checking the text similarities between different files and then highlight the similar text. Our Project has three modules:
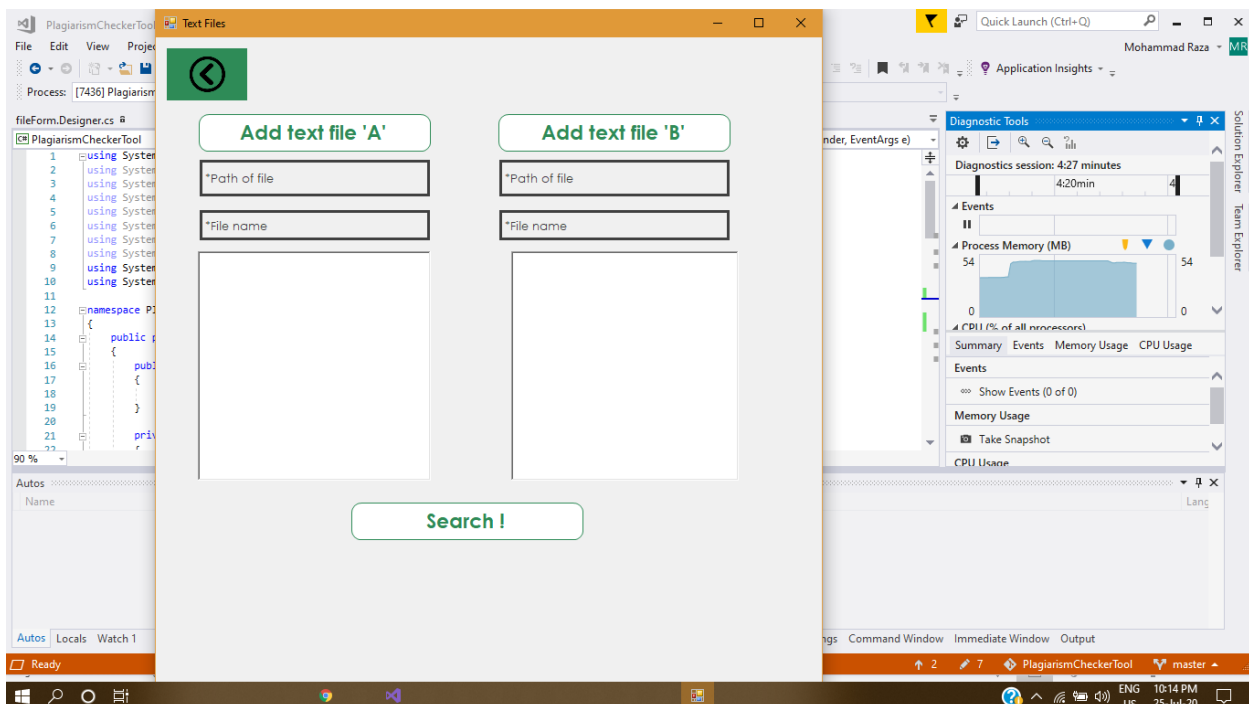
i.   Two text files similarity checking

ii.   Similarity checking in the files of a folder.

iii. Similarity between two C++ code files

From three of these modules, we are implementing two which can be selected from the main menu.

Two Text Files

In this module, there is comparison of two text files which are of extension "*.txt*".

When user selects this option from main menu, it takes user to a new screen where user is asked to add two text files.

The user has to select these files from the local folders. Each of the text file is loaded with its name and full path.
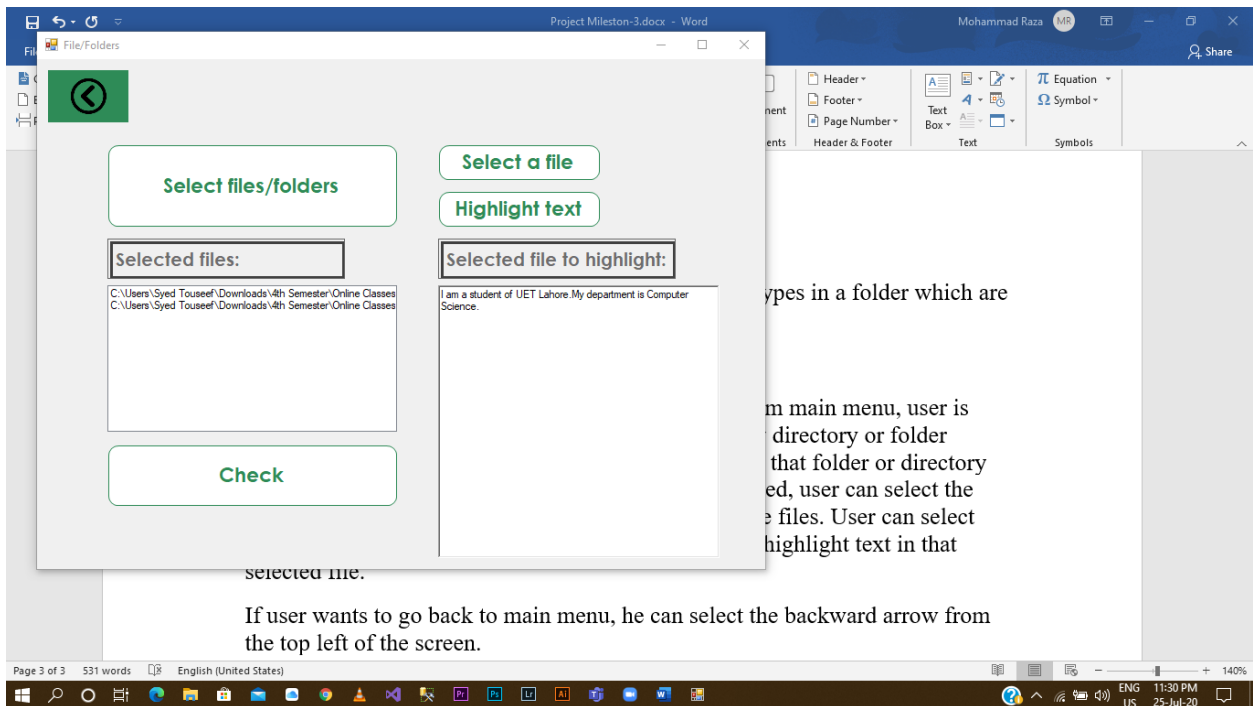
When user is done loading, user can check the text similarities between these two files. After checking, the text which is similar between them, is highlighted for user's convenience.

If user wants to go back to main menu, he can use the backward arrow on the top

left of the screen.

Files in a folder

In this module, there is a comparison of different file types in a folder which are of extension "*.txt*".

When user selects the option for files from a folder from main menu, user is taken to a new screen. Here, user is asked to select any directory or folder where text files are stored. The paths of all text files in that folder or directory are shown on the screen. When all these paths are loaded, user can select the button for check the similarity of text between all those files. User can select any of the files to show the text which is matched and highlight text in that selected file.

If user wants to go back to main menu, he can select the backward arrow from the top left of the screen.