Text files comparator

Kick-off Summary

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CONTENT

1. Document history

version	Date	Author	Approved by	Additional Information
1.0.0	2021/10/28	Patryk Langer, Adam Fudala, Mateusz Oślizło Hieronim Daniel, Przemysław Gołkowski	Patryk Langer, Adam Fudala, Mateusz Oślizło Hieronim Daniel, Przemysław Gołkowski	Initial version of the document
1.0.1	2021/11/05	Patryk Langer, Adam Fudala, Mateusz Oślizło Hieronim Daniel, Przemysław Gołkowski	Patryk Langer, Adam Fudala, Mateusz Oślizło Hieronim Daniel, Przemysław Gołkowski	Fixes in the document, extended dictionary of terms, added one more description of feature

2. Introduction

Text files comparator – single purpose program which will be useful in terms of comparing two text files and finding differences between them. It will allow user to choose between both version of document making merge of those two files. Additional feature will be possibility of editing chosen version of document.

3. Features and functional requirements

Features:

- Program will have functional and aesthetic *GUI*

- Two texts will be compared by program and differences will be shown to user

- Differences in *whitespaces* will be also taken into consideration

- User will be able to choose which version of each *difference* between text A and text B is the most suitable

- User will be allowed to omit the block of text with *difference* in both files, to choose the most suitable, to edit the chosen version or to create his own version

- Not only differences but the whole documents will be in user's perspective

- After finding difference in the documents, whole line (or lines) containing the difference will be highlighted

- User will be able to go to next or previous difference with a click of a button

Functional requirements:

- User will be allowed to load any of *text formats*

- Program will create third file containing merged input files

- It will be allowed to save result in any of text formats

- Program's architecture will allow be extendable

- Input files will not be edited by program

- Program will be executed not longer than 5 mins per 50 MB of input files on *CPU* not worse than **Intel Core i5-1038NG7**

4. Dictionary of terms

CPU – central processing unit

DIFFERENCE - situation when block of text includes words or characters that are not the same in both documents

GUI – Graphical user interface

MERGE – connect two files

TEXT FORMAT – file of text format contains only letters and words understandable by human, without binary code

WHITESPACE - non-printing character that does not represent a written symbol