<u>FileComparerApp</u>

FileComparerApp is a console application that compares two text files line to line using

byte to byte comparison enabled by UTF-8.

It is able to detect exact differences, including subtle or invisible ones and then mark each

line as 'Match', 'Mismatch' or 'Missing'.

The results are then displayed on the console with appropriate information then that result

is also tabulated and exported onto an excel file named ComparisonReport using

ClosedXML.

How it works

The program asks the user to enter the file paths one by one, first for file one then for file

two using the FilePathPromter class.

This class makes sure that the files exist and also remove the double quotes ("") from the

copied file path that will be entered in the console

The file paths are then passed to FileComparer which reads the files line to line instead of

loading it all into memory so as to accommodate huge files, then returns a list of

LineComparisonResult objects containing the line number, content from each file, and

status which indicates how the lines differ.

In CompareFiles, AreLinesIdentical is inherited from ByteComparer and used to compare

the lines byte to byte

The program then checks if the files are identical or not. If there are differences, they are

displayed with this format:

Difference at line 3:

File1: Hello World

File2: Hello Word

Then all the results are exported to an excel file using ExcelExporter with proper tabulation for a clear understanding. After having generated the file the program alerts the user that

file has being created successfully and created file path is also shown.

In Program.cs which is the entry point of the application, the Main serves as the main

controller for the application.

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