General

All code must be written using **C#** and **Windows Forms** (.NET 4.5 or newer and Visual Studio 2017)

Test results may contain multiple projects but all projects must be a part of a single Visual Studio solution. The solution must be fully buildable without any errors or warnings

All code identifiers (**forms**, **components**, **classes**, **methods**, **properties**, **fields**…) must be named using meaningful English names describing their function

3rd party components are not allowed

Task

We need a GUI application (windows Forms) that will provide functionality to search entered string in all text files in selected folder (and all its subfolders).

1. When started, the application must provide mechanism to select desired folder and enter search string (you can use *FolderBrowserDialog* for folder selection).
    You can limit the search to .txt files or allow the user to select custom extension (.txt should be default)

2. Once user initiates the search, application will need to traverse selected folder (and all of it's subfolders) for selected file types and search each file content for entered search string

3. Once the search is over, the application needs to show all files which contain search string (show a list of files), along with number of repetitions of said string

4. When the file (in list) is double clicked, the application needs to open that file using ShellExecute (use Process.Start)

5. Implement mechanism to view selected file directly in application

Results

After receiving this document time allowed for sending back test results is **2 days**. Time limit exceeding is not allowed

Results should be submitted as a fully buildable single solution and source code files only, **excluding all binaries and executables**

Please send back a single archive file containing all the results as an email attachment, send directly to **jobs@apexsql.com**

We can't accept test results sent in any other way (i.e. file sharing website URL, multiple email attachments, multiple emails, etc.)

Notes

Additional test clarification or consultations are not available and all such emails will be ignored until the test is completed. When in doubt resolve all questions and concerns the best way you see fit

Time spent during the test is unpaid. ApexSQL will not use the developed code or software in any way other than to evaluate candidate skills

Focus should be on solution completeness, code consistency, code quality, and documentation

We don't give extra credit for a quick turnaround so use as much time available as needed to do your best

We reserve the right to reject all results that don't comply with the test requirements

After the test is over we guarantee that we will provide feedback about our final decision, but we will not provide details about the test results or test scores