



General

All code must be written using **C#** and **Windows Forms** (.NET 4.5 or newer and Visual Studio 2015 or newer)

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 that will provide functionality to create and save an XML file containing complete hierarchy of files and folders for a specified folder:

1. Each folder should be qualified with:
 - a. *Folder name*
 - b. *Folder size (bytes)*
 - c. *Number of files*
2. Each file should be qualified with:
 - a. *File name*
 - b. *File size (bytes)*
 - c. *File creation time*
 - d. *File last access time*
 - e. *File last modified time*

After the XML file is created the application needs to display the entire folder hierarchy tree (by using the *TreeView* class)

When a tree node is selected, the application needs to show the selected folder (or file) details listed above. The details should be shown in the same window but separately from the folder hierarchy tree

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

Please send back a single archive file containing all the results as an email attachment

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