

Windows Presentation Foundation (WPF) with DocFx and Microsoft Logging Support Solution

Quick Start Notes:

The Place holder for API Cover Page. Modify this markdown page to change API Cover Page. File is named cover.md located in the VS Project API folder.

Solution Requirements

DocFx.Console version 2.56.4 or higher.

[Download DocFx Nuget package version 2.56.4](#)

Microsoft.Extensions.Logging version 3.1.9 or higher.

[Download Microsoft.Extensions.Logging Nuget package version 2.1.9](#)

Net Core 3.1 or higher.

[Download the Net Core 3.1](#)

[Download the Net Core 5.0](#)

Windows Preinstallation Environment (WinPE) version 2004 ADK.

For WinPE version 2004 you must support USB version 3.0 **or** greater.

[Download the Windows ADK for Windows 10, version 2004](#)

Visual Studio Enterprise 2019 version 16.8.0 or higher.

[Download the Visual Studio Enterprise 2019](#)

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Interaction logic for App.xaml

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App

Namespace: [WPFAppWithDocFxAndLogging3](#)

Assembly: WPFAppWithDocFxAndLogging3.dll

Syntax

```
public class App : Application
```

Constructors

App()

Declaration

```
public App()
```

Methods

InitializeComponent()

InitializeComponent

Declaration

```
public void InitializeComponent()
```

Main()

Application Entry Point.

Declaration

```
public static void Main()
```

Class FileLoggerExtensions

Class FileLoggerExtensions

Inheritance

System.Object

FileLoggerExtensions

Namespace: [WPFAppWithDocFxAndLogging3](#)

Assembly: WPFAppWithDocFxAndLogging3.dll

Syntax

```
public static class FileLoggerExtensions : Object
```

Remarks

History:

	Code Changed by: Danny C. McNaught danny.mcnaught@dannymcnaught.com
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Methods

AddFile(ILoggerFactory, String, String)

Adds the file.

Declaration

```
public static ILoggerFactory AddFile(this ILoggerFactory factory, string name, string logFolder)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILoggerFactory	factory	The factory.
System.String	name	The name.
System.String	logFolder	The log folder.

Returns

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.ILoggerFactory	ILoggerFactory.

Remarks

History:

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Log(ILogger, LogLevel, Exception, String, Boolean, Object[])

Logs the specified log level.

Declaration

```
public static void Log(this ILogger logger, LogLevel logLevel, Exception exception, string message, bool includeStackTrace = false, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
Microsoft.Extensions.Logging.LogLevel	logLevel	The log level.
System.Exception	exception	The exception.
System.String	message	The message.
System.Boolean	includeStackTrace	if set to <code>true</code> [include stack trace].

TYPE	NAME	DESCRIPTION
System.Object[]	args	The arguments.

Remarks

History:

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Log(ILogger, LogLevel, String, Object[])

Logs the specified log level.

Declaration

```
public static void Log(this ILogger logger, LogLevel logLevel, string message, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
Microsoft.Extensions.Logging.LogLevel	logLevel	The log level.
System.String	message	The message.
System.Object[]	args	The arguments.

Remarks

History:

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LogDebug(ILogger, String, Boolean, String, String, Int32)

Logs the debug.

Declaration

```
public static void LogDebug(this ILogger logger, string message, bool includeLineInfo, string callerMemberName
= "", string callerFilePath = "", int callerLineNumber = 0)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
System.String	message	The message.
System.Boolean	includeLineInfo	if set to <code>true</code> [include line information].
System.String	callerMemberName	Name of the caller member.
System.String	callerFilePath	The caller file path.
System.Int32	callerLineNumber	The caller line number.

Remarks

History:

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LogError(ILogger, Exception, String, Boolean, Boolean, String, String, Int32)

Logs the error.

Declaration

```
public static void LogError(this ILogger logger, Exception exception, string message, bool includeLineInfo, bool includeStackTrace, string callerMemberName = "", string callerFilePath = "", int callerLineNumber = 0)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
System.Exception	exception	The exception.
System.String	message	The message.
System.Boolean	includeLineInfo	if set to <code>true</code> [include line information].
System.Boolean	includeStackTrace	if set to <code>true</code> [include stack trace].
System.String	callerMemberName	Name of the caller member.
System.String	callerFilePath	The caller file path.
System.Int32	callerLineNumber	The caller line number.

Remarks

History:

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LogInformation(ILogger, String, Boolean, String, String, Int32)

Logs the information.

Declaration

```
public static void LogInformation(this ILogger logger, string message, bool includeLineInfo, string callerMemberName = "", string callerFilePath = "", int callerLineNumber = 0)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
System.String	message	The message.
System.Boolean	includeLineInfo	if set to <code>true</code> [include line information].
System.String	callerMemberName	Name of the caller member.
System.String	callerFilePath	The caller file path.
System.Int32	callerLineNumber	The caller line number.

Remarks

History:

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LogTrace(ILogger, String, Boolean, String, String, Int32)

Logs the trace.

Declaration

```
public static void LogTrace(this ILogger logger, string message, bool includeLineInfo, string callerMemberName = "", string callerFilePath = "", int callerLineNumber = 0)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
System.String	message	The message.
System.Boolean	includeLineInfo	if set to <code>true</code> [include line information].
System.String	callerMemberName	Name of the caller member.
System.String	callerFilePath	The caller file path.
System.Int32	callerLineNumber	The caller line number.

Remarks

History:

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LogWarning(ILogger, String, Boolean, String, String, Int32)

Logs the warning.

Declaration

```
public static void LogWarning(this ILogger logger, string message, bool includeLineInfo, string callerMemberName = "", string callerFilePath = "", int callerLineNumber = 0)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger.
System.String	message	The message.
System.Boolean	includeLineInfo	if set to <input type="checkbox"/> true [include line information].
System.String	callerMemberName	Name of the caller member.
System.String	callerFilePath	The caller file path.
System.Int32	callerLineNumber	The caller line number.

Remarks

History:

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Class FileLoggerProvider

Class FileLoggerProvider

Inheritance

System.Object
FileLoggerProvider

Implements

Microsoft.Extensions.Logging.ILoggerProvider
System.IDisposable

Namespace: [WPFAppWithDocFxAndLogging3](#)
Assembly: WPFAppWithDocFxAndLogging3.dll

Syntax

```
public sealed class FileLoggerProvider : Object, ILoggerProvider, IDisposable
```

Remarks

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Constructors

FileLoggerProvider()

Initializes a new instance of the System.Object class.

Declaration

```
public FileLoggerProvider()
```

Remarks

History:

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FileLoggerProvider(StreamWriter)

Initializes a new instance of the [FileLoggerProvider](#) class.

Declaration

```
public FileLoggerProvider(StreamWriter writer)
```

Parameters

TYPE	NAME	DESCRIPTION
System.IO.StreamWriter	writer	The writer.

Remarks

History:

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FileLoggerProvider(String, String)

Initializes a new instance of the [FileLoggerProvider](#) class.

Declaration

```
public FileLoggerProvider(string name = null, string logFolder = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	name	The name.
System.String	logFolder	The log folder.

Remarks

History:

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Methods

AppName()

Applications the name.

Declaration

```
public static string AppName()
```

Returns

TYPE	DESCRIPTION
System.String	System.String.

Remarks

History:

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AppPath()

Applications the path.

Declaration

```
public static string AppPath()
```

Returns

TYPE	DESCRIPTION
System.String	System.String.

Remarks

History:

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CreateLogger(String)

Creates a new Microsoft.Extensions.Logging.ILogger instance.

Declaration

```
public ILogger CreateLogger(string categoryName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	categoryName	The category name for messages produced by the logger.

Returns

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	The instance of Microsoft.Extensions.Logging.ILogger that was created.

Remarks

History:

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Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

Declaration

```
public void Dispose()
```

Remarks

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Implements

Microsoft.Extensions.Logging.ILoggerProvider

System.IDisposable

Class MainWindow

Class MainWindow Test

Inheritance

System.Object
MainWindow

Implements

System.Windows.Markup.IComponentConnector

Namespace: [WPFAppWithDocFxAndLogging3](#)

Assembly: WPFAppWithDocFxAndLogging3.dll

Syntax

```
public class MainWindow : Window, IComponentConnector
```

Remarks

History:

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Constructors

MainWindow()

Initializes a new instance of the System.Windows.Window class.

Declaration

```
public MainWindow()
```

Remarks

History:

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Properties

Factory

Gets or sets the factory. Test

Declaration

```
public static ILoggerFactory Factory { get; set; }
```

Property Value

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.ILoggerFactory	The factory.

Remarks

History:

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Logger

Gets or sets the logger.

Declaration

```
public static ILogger Logger { get; set; }
```

Property Value

Class MainWindow

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	The logger.

Remarks

History:

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Methods

AppName()

Applications the name.

Declaration

```
public static string AppName()
```

Returns

TYPE	DESCRIPTION
System.String	System.String.

Remarks

History:

	Code Changed by: Danny C. McNaught danny.mcnaught@dannymcnaught.com
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Code Change Date and Time:

Monday, November 9, 2020 11:20 AM

Code Changes:

Created XML Comment

AppPath()

Applications the path.

Declaration

```
public static string AppPath()
```

Returns

TYPE	DESCRIPTION
System.String	System.String.

Remarks

History:

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Danny C. McNaught

danny.mcnaught@dannymcnaught.com

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Code Changes:

Created XML Comment

InitializeComponent()

InitializeComponent

Declaration

```
public void InitializeComponent()
```

ShowDebugInfo()

Shows the debug information. Test Update.

Declaration

```
public static string ShowDebugInfo()
```

Returns

TYPE	DESCRIPTION
System.String	System.String.

Remarks

History:

	Code Changed by: Danny C. McNaught danny.mcnaught@dannymcnaught.com
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Implements

System.Windows.Markup.IComponentConnector