

# 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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# Namespace WPFAppWithDocFxAndLogging3

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### [FileLoggerExtensions](#)

Class FileLoggerExtensions

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Class FileLoggerProvider

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Class MainWindow

# Class App

Interaction logic for App.xaml

Inheritance

System.Object

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:

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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 <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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# 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

History:

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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:

	<b>Code Changed by:</b> Danny C. McNaught <a href="mailto:danny.mcnaught@dannymcnaught.com">danny.mcnaught@dannymcnaught.com</a>
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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

#### History:

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**Implements**

Microsoft.Extensions.Logging.ILoggerProvider

System.IDisposable

# Class MainWindow

Class MainWindow

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.

#### Declaration

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

#### Property Value

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

#### Remarks

### History:

	<b>Code Changed by:</b> Danny C. McNaught <a href="mailto:danny.mcnaught@dannymcnaught.com">danny.mcnaught@dannymcnaught.com</a>
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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:

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## AppPath()

Applications the path.

### Declaration

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

### Returns

TYPE	DESCRIPTION
System.String	System.String.

### Remarks

### History:

**Code Changed by:**

Danny C. McNaught

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## InitializeComponent()

InitializeComponent

### Declaration

```
public void InitializeComponent()
```

## ShowDebugInfo()

Shows the debug information.

### Declaration

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

#### Returns

TYPE	DESCRIPTION
System.String	System.String.

#### Remarks

#### History:

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#### Implements

System.Windows.Markup.IComponentConnector