RSCG nr 7: Microsoft.Extensions.Logging

Info

Nuget: https://www.nuget.org/packages/Microsoft.Extensions.Logging/

You can find more details at : https://learn.microsoft.com/en-us/dotnet/core/e

xtensions/logger-message-generator-generators/

Author : Microsoft

Source: https://github.com/dotnet/runtime

About

Logging defined and compiled

How to use

Add reference to the Microsoft. Extensions. Logging in the csproj

```
• • •
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
   <0utputType>Exe
    <TargetFramework>net7.0/TargetFramework>
   <ImplicitUsings>enable</ImplicitUsings>
   <Nullable>enable
  </PropertyGroup>
   <PropertyGroup>
       <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>
<CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GX</CompilerGenerated</pre>
FilesOutputPath>
   </PropertyGroup>
   <ItemGroup>
       <PackageReference Include="Microsoft.Extensions.Logging.Console"</pre>
Version="7.0.0" />
   </ItemGroup>
```

This was for me the starting code

I have **coded** the file Program.cs

I have **coded** the file LogDemo.cs

```
•using Microsoft.Extensions.Logging;
public partial class LoggingSample
    private readonly ILogger _logger;
    public LoggingSample(ILogger logger)
        _logger = logger;
    public static partial void UsingFormatSpecifier(
       ILogger logger, double value);
    [LoggerMessage(
        EventName = "CustomEventName")]
    public partial void LogWithCustomEventName();
    [LoggerMessage(
        EventId = 10,
Message = "Welcome to {city} {province}!")]
    public partial void LogWithDynamicLogLevel(
        string city, LogLevel level, string province);
    public void TestLogging()
        LogWithCustomEventName();
        LogWithDynamicLogLevel("Vancouver", LogLevel.Warning, "BC");
        LogWithDynamicLogLevel("Vancouver", LogLevel.Information, "BC");
        UsingFormatSpecifier(_logger, 12345.6789);
```

And here are the generated files

The file *generated* is LoggerMessage.g.cs

You can download the code and this page as pdf from https://ignatandrei.github.io/RSCG_Examples/v2/docs/Microsoft.Extensions.Logging

You can see the whole list at https://ignatandrei.github.io/RSCG_Examples/v2/docs/List-of-RSCG