

***** Log4net And Action Filters article *****

Log4net is very simple and open source logging framework that you can find it @ [Log4Net page](#) The log4net has logger and appender.

Steps to integrate the log4net in asp.net mvc:

1. Install nuget package

```
<package id="log4net" version="2.0.8" targetFramework="net461" />
```

2. Create new log4net section in configSections in web.config

```
<configSections>
  <section name="log4net" type="log4net.Config.Log4NetConfigurationSectionHandler, log4net" />
</configSections>
```

3. Define that section in web.config

```
<configSections>
  <section name="log4net" type="log4net.Config.Log4NetConfigurationSectionHandler, log4net" />
</configSections>
<log4net>
  <logger name="testingLogger">
    <level value="ALL" />
    <appender-ref ref="RollingFileAppender" />
  </logger>
  <logger name="testingErrorLogger">
    <level value="ALL" />
    <appender-ref ref="RollingErrorFileAppender" />
  </logger>
  <appender name="RollingFileAppender" type="log4net.Appender.RollingFileAppender">
    <lockingModel type="log4net.Appender.FileAppender+MinimalLock" />
    <file type="log4net.Util.PatternString" value="App_Data//.log" />
    <appendToFile value="true" />
    <rollingStyle value="Date" />
    <datePattern value=""testing_'yyyy-MM-dd" />
    <preserveLogFileNameExtension value="true" />
    <staticLogFileName value="false" />
    <layout type="log4net.Layout.PatternLayout">
      <!--<conversionPattern value="%date %level - [%ndc] - %message%newline%newline" />-->
      <conversionPattern value="%date %level - %message%newline" />
    </layout>
  </appender>
  <appender name="RollingErrorFileAppender" type="log4net.Appender.RollingFileAppender">
    <lockingModel type="log4net.Appender.FileAppender+MinimalLock" />
    <file type="log4net.Util.PatternString" value="App_Data//.log" />
    <appendToFile value="true" />
    <rollingStyle value="Date" />
    <datePattern value=""testingerror_'yyyy-MM-dd" />
    <preserveLogFileNameExtension value="true" />
    <staticLogFileName value="false" />
    <layout type="log4net.Layout.PatternLayout">
      <conversionPattern value="%date %level - [%ndc] - %message%newline%newline" />
    </layout>
  </appender>
</log4net>
```

As you see, The log4net section has two appenders and loggers that logs both error and log message. For

more information about log4net configuration visit the [Log4Net](#).

4. Create the C# logger class

The logging filter has the optional parameter "canLogParameters", If you want to log the parameters of action method, you can set it to true.

***** END *****