**Web logging with Elmah**

**NOTE: This works on IIS, not sure about Cassini!!!!**

1. Put Elmah.dll into .bin folder (the dll included is 64 bits)
2. Add following into web.config -> <system.webServer> -> <modules>

<modules runAllManagedModulesForAllRequests="true">

<add name="ErrorLog" type="Elmah.ErrorLogModule, Elmah"/>

<add name="ErrorFilter" type="Elmah.ErrorFilterModule, Elmah"/>

</modules>

1. Add following into web.config -> <system.webServer> -><handlers>

<handlers>

<add name="Elmah" verb="POST,GET,HEAD" path="elmah.axd" preCondition="integratedMode" type="Elmah.ErrorLogPageFactory, Elmah" />

</handlers>

1. Should be able to view error log from <http://localhost:xxxx/elmah.axd>
2. Try a request with a bad url, should be able to see an error logged.
3. Above only log unhandled exceptions. If you HandleError attribute on controller class, which handles an exception, then redirects to an error page(so it won’t be caught by Elmah). How can I log with Elmah then redirect:
   1. Add HandleErrorWithElmahAttribute
   2. Mark your controller class with [HandleErrorWithElmah].
4. How about catching and logging an exception in code:
   1. Add ILogger, ElmahLogger
   2. Controller class should have a reference of ILogger with default instance of type ElmahLogger, like following:

private readonly ILogger \_logger;

public SayController() : this(new ElmahLogger())

{

}

public SayController(ILogger logger)

{

\_logger = logger;

}

* 1. Catch exception in an action method and log to Elmah, e.g.

public ActionResult Hello()

{

try

{

//Do something may throw an exception...

}

catch (Exception ex)

{

\_logger.Log(ex);

}

return View();

}

1. Above only log error into memory, to log error into SQL DB
   1. Run CreateElmahSqlServerDB.sql to create Elmah DB
   2. Add following into web.config-> <configSections>

<sectionGroup name="elmah">

<section name="errorLog" requirePermission="false" type="Elmah.ErrorLogSectionHandler, Elmah" />

</sectionGroup>

* 1. Add following into web.config

<elmah>

<errorLog type="Elmah.SqlErrorLog, Elmah" connectionString="connection\_string" />

</elmah>

1. Whatelse we want to do:
   1. Secure elmah.axd, so that it can only be accessed by admin (see phil haack’s blog down the bottom)
   2. ...

Useful links:

* [**Elmah Project Site**](http://code.google.com/p/elmah/)
* <http://www.hanselman.com/blog/ELMAHErrorLoggingModulesAndHandlersForASPNETAndMVCToo.aspx>
* <http://dotnetslackers.com/articles/aspnet/ErrorLoggingModulesAndHandlers.aspx>
* [phil](http://haacked.com/archive/2007/07/24/securely-implement-elmah-for-plug-and-play-error-logging.aspx) haack’s [Securely Implement ELMAH For Plug And Play Error Logging](http://haacked.com/archive/2007/07/24/securely-implement-elmah-for-plug-and-play-error-logging.aspx)