

Elmah logs

ELMAH (Error Logging Modules and Handlers) is an application-wide error logging facility that is completely pluggable. It captures nearly all unhandled exceptions in PMA.studio as well as some handled exceptions that needs to be reported. It also provides the following very useful features for maintaining a running production server:

- Logging of nearly all unhandled exceptions.
- A web page to remotely view the entire log of recorded exceptions.
- A web page to remotely view the full details of any one logged exception, including colored stack traces.

Elmah although powerful and useful it is, it is not a substitute for IIS logs and PMA.studio internal logging as it does not capture all detailed information for requests like IIS does, nor does know the internal workings of PMA.studio as the internal logging is capable of. Once you click on the “Elmah Logs” link in admin panel you are taken to the errors page. You can click on the “detail” link to view more details about the specific error.

The screenshot shows the ElmahCore Errors page. On the left is a list of errors with icons indicating their severity (500 for critical, 404 for client errors). The main area on the right shows the details of a selected error: a 500 status code 'System.TypeLoadException' occurring at 2023-04-06T19:54:24.6190036+02:00. The error message is 'Could not load type 'Microsoft.EntityFrameworkCore.Metadata.IRelationalEntityTypeAnnotation' from assembly 'Microsoft.EntityFrameworkCore.Relational, Version=6.0.0.0, Culture=neutral, PublicKeyToken=adb9793829ddae60'.' The application is PMA.Studio, and the source is EFCORE BulkExtensions. The client IP is 206.84.150.95. Below the error details, there is a tabbed interface showing the 'Source' code, which is a C# method in SlidesTrayService.cs. The code includes GUID generation, path handling, and a call to BulkInsertAsync. The error occurred at line 59 in the await _context.BulkInsertAsync(listSlides) call.

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