Subject: Exception handling in Http::Dispatch
Posted by dolik.rce on Sat, 24 Nov 2012 09:32:06 GMT
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Hi,

After few weeks of playing with Skylark, there is one last troublesome part of it that I would like to improve. The way it catches exceptions in Dispatch method.

Current Situation is that SqlExc, AuthExc, BadRequestExc and general Exc are caught and user can react on them using virtual methods (SqlError, Unauthorized, BadRequest, InternalError). One problem I have with this is how these functions are defined: They only got one parameter, which is the Http instance where the error occurred. So the user can react, but doesn't now what the exception was... IMHO the functions could look like this:

```
virtual void SqlError(Http& http, const SqlExc& e);
virtual void InternalError(Http& http, const Exc& e);
virtual void Unauthorized(Http& http, const AuthExc& e);
virtual void BadRequest(Http& http, const BadRequestExc& e);
```

BTW: There is an error, BadRequestExc triggers Unauthorized() to be called instead of BadRequest().

Another thing related to this and probably even more important is that exceptions coming from template parser are caught as Exc and they are very hard to recognize and track down. I understand that "Internal server error" should not disclose what exactly the error was because it could reveal way too much informations about application internals. So the preferable way is probably to add another catch block, that would handle CParser::Error, possibly with its own virtual function TemplateError(Http&, const CParser::Error&). The errors from parser are not very informative anyway, but at least knowing that the exception came from a template would save user couple minutes of tracing the code trying to figure out what did he coded wrong before finally realizing that he forgot a parenthesis in template or something similarly stupid

Any other ideas about this? I can supply patch if necessary (but it seems quite simple, so I assumed it is not needed ).

Best regards,
Honza

Subject: Re: Exception handling in Http::Dispatch
Posted by mirek on Mon, 26 Nov 2012 18:22:16 GMT
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