Quality and performance in application

Quality Review (using codeclimate)

1

Performance Review (using Blackfire)

2

Quality Review (using codeclimate)

We use CodeClimate.com for analyse a code quality. if the quality of the code is not good enough for our needs and for the improvement of the project, we refactor our code.

This is useful for

- the Sustainability of application
- easy development
- Performance (duplicate code)
- security breaches
- clean code architecture

CodeClimate assigns a score between A and D according to the code quality of the project. In this project, we started from minimum note D. We arrived at note A.

We basically reduced the duplication of the code, and updated the obsolete code, then we factored the code by reducing the lines, and removing the unnecessary functions. Here is the codeClimate report of the TodoList project



However, we have voluntarily hidden 2 errors messages: messages due to migrations and fixtures, which are not reproducible in a production environment.

Performance Review (using Blackfire)

We use blackfire because it is a very important utility which works well with the symfony framework.

Blackfire is able to analyze all the routes of our application and give a very detailed report of the performance of the application

Here is a rapport for homepage

https://blackfire.io/profiles/4721b95f-8e93-4f78-9628-ef7bcda98871/graph

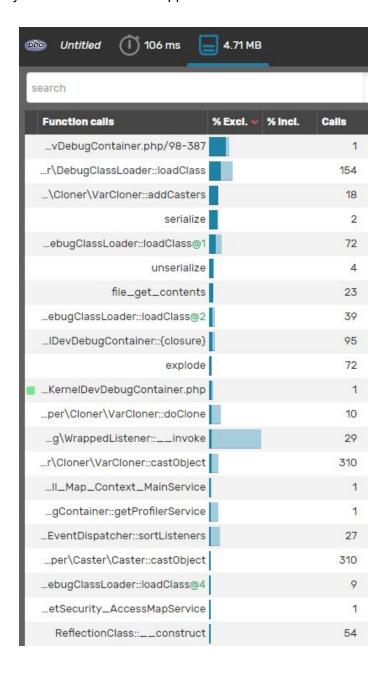
For homepage, Here is a basic information:

Wall Time 106 ms
I/O Wait n/a
CPU Time n/a
Memory 4.49MB
Network n/a n/a n/a
SQL n/a n/a

we can get more precise data and diagram. let's take a closer look at the performance of our Todo List website. Let's look at the loading time of our classes

Function calls	% Excl. •	% Incl.	Calls
file_exists		7.	433
r\DebugClassLoader::loadClass			154
ebugClassLoader::loadClass@1			72
vDebugContainer.php/98-387			1
glob			42
g\WrappedListener::invoke		150	29
filemtime			66
file_put_contents	9		1
r\Cloner\VarCloner::castObject			310
file_get_contents			23
sLoader::findFileWithExtension			292
ebugClassLoader::loadClass@2			39
IDevDebugContainer::(closure)			95
gContainer::getProfilerService			1
rce\GlobResource::getIterator			49
is_file			36
per\Cloner\VarCloner::doClone			10

Here is the memory allocated to load the application



We can also look at the loading diagram of the website

