TYPO3 Core - Bug #93236

RequireJS Error at backend login

2021-01-06 19:06 - Kevin Appelt

Status:	Closed		**Start date:**	2021-01-06
Priority:	Must have		**Due date:**	
Assignee:			**% Done:**	100%
Category:	Backend JavaScript		**Estimated time:**	0.00 hour
Target version:	11 LTS			
TYPO3 Version:	11		**Complexity:**	
PHP Version:			**Is Regression:**	
Tags:			**Sprint Focus:**	

Description

I need to add a JS lib to the backend (more precisely to the backend login) which worked fine in v10 - and works fine in v11 **after** logging into the backend.

On login screen I can see an error 500 in the browser console (coming from requirejs-loader.js:67), which is the result of

```
Symfony\Component\Routing\Exception\ResourceNotFoundException
No routes found for "/ajax/core/requirejs&name=nameOfTheLibToLoad".
```

As said, the error is gone when logged in to the backend and the file is loaded as required.

This is the code, which registers the lib.

```
$pageRenderer->addRequireJsConfiguration([
    'shim' => [
        'nameOfTheLibToLoad' => [
            'exports' => 'nameOfTheLibToLoad'
        ]
    ],
    'paths' => [
        'nameOfTheLibToLoad' => PathUtility::getAbsoluteWebPath(
            ExtensionManagementUtility::extPath(
                'myext',
                'Resources/Public/JavaScript/'
            )
        )
            . 'filenameOfTheLibToLoadWithoutDotJs'
    ]
]);
```

This code works as expected (but fails due to the missing lib)

```
$pageRenderer->loadRequireJsModule('TYPO3/CMS/Myext/FileWithoutDotJs');
```

Associated revisions

Revision afada335 - 2021-10-01 13:00 - Benjamin Franzke

[BUGFIX] Fix PageRenderer->addRequireJsConfiguration from ext_localconf

TYPO3_REQUESTTYPE constants have been deprecated since #92947,
but PageRenderer->addRequireJsConfiguration() currently needs to be
scoped to BE context as the applicationType is derived
from the global TYPO3_REQUEST object since #92953.

This causes problems as the request object is not available during
ext_localconf.php loading, and is therefore always considered to be BE
– also in FE, causing RequireJS to be always loaded, if PageRenderer

is configued via ext_localconf.php as possible in TYPO3 v10.

Therefore currently there is no longer a "supported" way to register RequireJS configuration in ext_localconf.php.

This change delays RequireJs configuration loading and merging until configuration is actually used, allowing configuration to be registered anytime and without REQUESTTYPE conditions. Also ApplicationType is evaluated on demand instead of during object construction.

In TYPO3 v12 this should better be provided as an event that allows to enhance the configuration, therefore add that as todo to t3editor and rte_ckeditor which use the render-preProcess hook right now, which works for them, but not for extensions that need to register RequireJS configuration for the TYPO3 backend login screen.

Releases: master
Resolves: #93236
Related: #92848
Related: #92953
Related: #92947
Change-Id: I899edbb50d1c1c34854e8f98f896a5a671798386
Reviewed-on: https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395
Tested-by: Christian Kuhn <lolli@schwarzbu.ch>
Tested-by: Anja Leichsenring <aleichsenring@ab-softlab.de>
Tested-by: core-ci <typo3@b13.com>
Tested-by: Benjamin Franzke <bfr@qbus.de>
Reviewed-by: Christian Kuhn <lolli@schwarzbu.ch>
Reviewed-by: Anja Leichsenring <aleichsenring@ab-softlab.de>
Reviewed-by: Benjamin Franzke <bfr@qbus.de>

History

#1 - 2021-01-07 06:48 - Andreas Fernandez

- Status changed from New to Needs Feedback

This seems to be fixed with #93227. Can you please check this with the latest master?

#2 - 2021-01-15 10:07 - Kevin Appelt

On current master the problem changes a little bit but is still present.

What i cann see in the browser console:

```
ajax/core/requirejs?name=nameOfTheLibToLoad:1 Failed to load resource: the server responded with a status of 4
04 ()
```

So it is not an error 500, but a 404 now.

Unchanged:
- problem is gone as soon as the user is logged in

#3 - 2021-01-15 12:49 - Benjamin Franzke

Where do you invoke $pageRenderer->addRequireJsConfiguration(…)?

Which hook/event are you using?

#4 - 2021-03-03 07:26 - Benni Mack

- Target version changed from 11.1 to 11.2

#5 - 2021-03-30 20:52 - Riccardo De Contardi

- Category set to Backend JavaScript

#6 - 2021-05-07 19:37 - Benni Mack

- Target version changed from 11.2 to 11.3

#7 - 2021-07-18 15:46 - Benni Mack

- Target version changed from 11.3 to 11.4

#8 - 2021-09-07 07:44 - Benni Mack

- Target version changed from 11.4 to 11 LTS

#9 - 2021-09-30 15:16 - Kevin Appelt

I've prepared an extension to check the issue: https://github.com/kevin-appelt/TrianglifyBackground
In TYPO3 Version 10 everything is fine.
In TYPO3 Version 11 the code does not work.

#10 - 2021-09-30 18:16 - Gerrit Code Review

- Status changed from Needs Feedback to Under Review

Patch set 1 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/c/Packages/TYPO3.CMS/+/71389

#11 - 2021-09-30 18:26 - Benjamin Franzke

Thanks for the example extension.

So the issue basically happens because you're adding the configuration in ext_localconf.php in TYPO3 v10, but via PageRenderer render-preProcess in TYPO3 v11.
So two completely different codepaths

Sure, you do this because TYPO3 core does the same for rte_ckeditor and t3editor since #92848.

Now, the issue is that since RequireJS configuration is loaded ondemand (with a separate AJAX request) at the TYPO3 backend login screen for security reasons (see #83855). In that context the hook is never executed (neither in v10 nor in v11)
And because of that it would have failed in TYPO3 v10 as well, if you would have used the hook there.

Now, what is the difference between rte_ckeditor and t3editor and your extension?
These core extensions don't require their configuration to be available during backend login, therefore the usage of the render-preProcess hook is ok(ish), while not perfect.

But render-preProcess has never been an explicit post-configuration API.

I'm not sure whether we really want to officially support that – if so https://review.typo3.org/c/Packages/TYPO3.CMS/+/71389 would solve this issue – or if we rather introduce a new Event that allows to modify requirejs configuration and use that in core as well.

#12 - 2021-09-30 22:04 - Gerrit Code Review

Patch set 1 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395

#13 - 2021-09-30 22:08 - Benjamin Franzke

An alternative would be to avoid the hook and rather fix addRequireJsConfiguration to work without conditions in ext_localconf.php

Implementation would be as follows:

    71395: [BUGFIX] Fix PageRenderer->addRequireJsConfiguration from ext_localconf | https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395

Adaption for the demo extension:
https://github.com/bnf/TrianglifyBackground/commit/no-hook

#14 - 2021-10-01 04:26 - Gerrit Code Review

Patch set 2 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395

#15 - 2021-10-01 09:14 - Gerrit Code Review

Patch set 3 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395

#16 - 2021-10-01 09:37 - Gerrit Code Review

Patch set 4 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395

#17 - 2021-10-01 12:37 - Gerrit Code Review

Patch set 5 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/c/Packages/TYPO3.CMS/+/71395

#18 - 2021-10-01 13:18 - Benjamin Franzke

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset afada335c0a3fb66f80ea34ac493379e9fa6c63b.

#19 - 2021-10-07 07:14 - Benni Mack

- Status changed from Resolved to Closed