

TYPO3 Core - Bug #89464

PageTree in workspace not loading

2019-10-21 12:18 - Claude Unterleitner

Status:	Closed	Start date:	2019-10-21
Priority:	Must have	Due date:	
Assignee:		% Done:	100%
Category:	Workspaces	Estimated time:	0.00 hour
Target version:	next-patchlevel	Complexity:	
TYPO3 Version:	8	Is Regression:	Yes
PHP Version:		Sprint Focus:	
Tags:	workspace, draft		
Description			
In a TYPO3 v. 8.7.28 installation the page tree is not loading anymore in the workspace draft view. PHP-version: 7.2 no composer mode It is caused by the modification to resolve the issue 86945 [[https://forge.typo3.org/issues/86945]]			
Related issues:			
Related to TYPO3 Core - Bug #86945: Performance PageTree in Workspace		Closed	2018-11-16

Associated revisions

Revision 642c1e67 - 2019-11-07 22:36 - Oliver Hader

Revert "[TASK] Speed up DB query for tables with versions"

This reverts commit 98c74eb212b728db2818c256994c501a6173ab7b.

The change resulted in AJAX timeouts when dealing with lots of database records on MySQL 5.6 - it was fine however on MySQL 5.7.

Reverts: #86945
Resolves: #89464
Releases: master, 9.5, 8.7
Change-Id: led400255186f5e72521d3318521c3edb0f4f7784
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+62209>
Tested-by: TYPO3com <noreply@typo3.com>
Tested-by: Benni Mack <benni@typo3.org>
Tested-by: Oliver Hader <oliver.hader@typo3.org>
Reviewed-by: Benni Mack <benni@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>

Revision 8f3d8dde - 2019-11-07 22:36 - Oliver Hader

Revert "[TASK] Speed up DB query for tables with versions"

This reverts commit 0dab9b4183208040c76e84ea845396b742d91fab.

The change resulted in AJAX timeouts when dealing with lots of database records on MySQL 5.6 - it was fine however on MySQL 5.7.

Reverts: #86945
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Tested-by: Oliver Hader <oliver.hader@typo3.org>
Reviewed-by: Benni Mack <benni@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>

Revision 5c716ee9 - 2019-11-07 22:37 - Oliver Hader

Revert "[TASK] Speed up DB query for tables with versions"

This reverts commit 28c285e7db92a8d8249c774ef15839c78ef9258c.

The change resulted in AJAX timeouts when dealing with lots of database records on MySQL 5.6 - it was fine however on MySQL 5.7.

Reverts: #86945
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Tested-by: Benni Mack <benni@typo3.org>
Tested-by: Oliver Hader <oliver.hader@typo3.org>
Reviewed-by: Benni Mack <benni@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>

History

#1 - 2019-10-21 15:06 - Oliver Hader

- Status changed from New to Needs Feedback

Are there any error messages available in the browser's console?

Besides that, could you please provide a screenshot - I could not reproduce the behavior in the TYPO3 backend using a workspace context.

#2 - 2019-10-21 22:52 - Claude Unterleitner

- File screenshot-www.adfc-nuernberg.ddev.site-2019.10.21-22_37_55.png added

Yes, these error messages are in the browser's console (it's from my dev environment, as the live environment is now already patched by reusing the old WorkspaceService.php file of TYPO3 v. 8.7.27):

```
TypeError: response is undefined
merged-14de4b534885b83ab57e92f6e0623bb3-d41c8782625143d9a35f149f76e704bb.js.1571649664.gzip:2665:31
addDragDropNodeInsertionFeature
https://www.adfc-nuernberg.ddev.site/typo3temp/assets/compressed/merged-14de4b534885b83ab57e92f6e0623bb3-d41c8782625143d9a35f149f76e704bb.js.1571649664.gzip:2665
createDelegate https://www.adfc-nuernberg.ddev.site/typo3temp/assets/compressed/ext-base-f628b6975925566e3abb8fcb80d6c4fa.js.gzip:21
ExtJS 3
doCallback
onData
handleFailure
f https://www.adfc-nuernberg.ddev.site/typo3temp/assets/compressed/ext-base-f628b6975925566e3abb8fcb80d6c4fa.js.gzip:21
abort https://www.adfc-nuernberg.ddev.site/typo3temp/assets/compressed/ext-base-f628b6975925566e3abb8fcb80d6c4fa.js.gzip:21
r https://www.adfc-nuernberg.ddev.site/typo3temp/assets/compressed/ext-base-f628b6975925566e3abb8fcb80d6c4fa.js.gzip:21
createCallback https://www.adfc-nuernberg.ddev.site/typo3temp/assets/compressed/ext-base-f628b6975925566e3abb8fcb80d6c4fa.js.gzip:21
```

I have now also attached a screenshot.

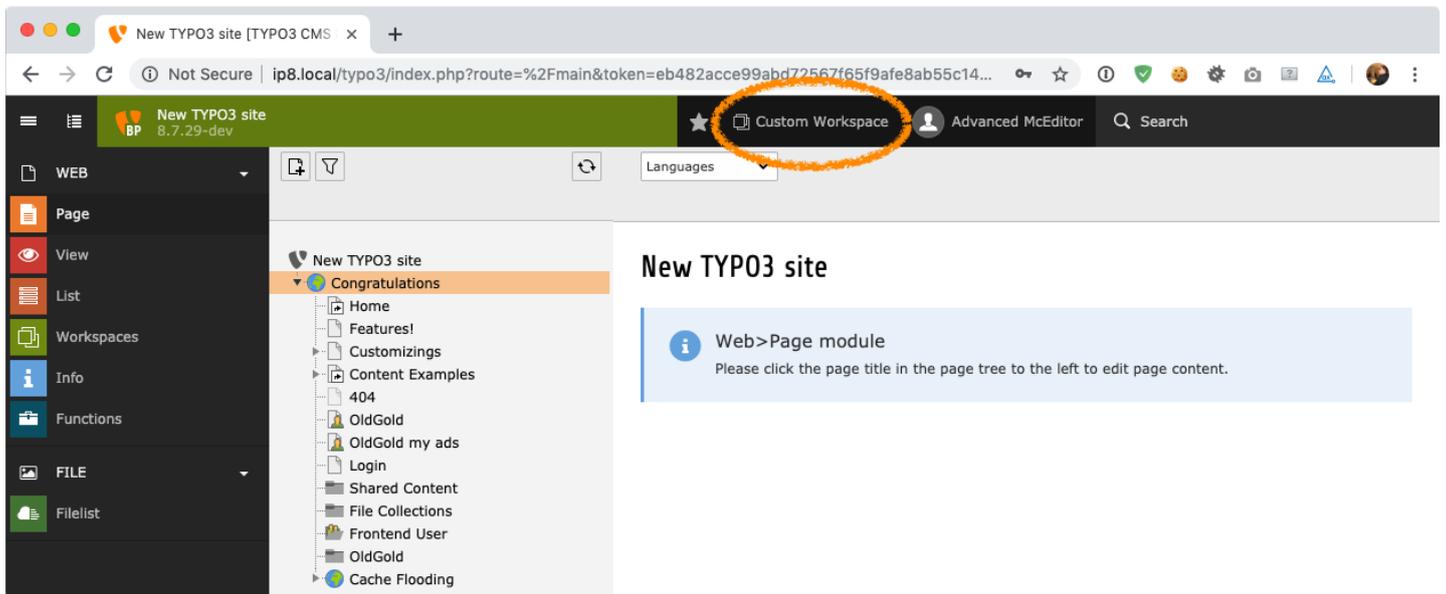
#3 - 2019-10-22 17:52 - Oliver Hader

- File 89464_002.png added

Thanks for your feedback. Since you seem to be using DDEV, can you please attach your .ddev/config.yaml in case it contains custom services or alternative images?

In order to track JavaScript errors better, please enable the debugging preset via Install Tool (Configuration Presets > Debug Settings > Debug) and post the shown errors again.

Besides that, I'm puzzled since the screenshot you provided does not show the current workspace and according selector in the backend top toolbar (see my screenshot as reference). Actually that would mean that the current user is neither owner or member of that workspace record...



Current status: Could not reproduce (yet) locally with TYPO3 v8.7.28

#4 - 2019-10-31 14:01 - Frank Gerards

- Priority changed from *Should have* to *Must have*

we can reproduce it here on our system:
 TYPO3 8.7.28, PHP 7.2, CentOS 7.7, Apache 2.4

we also use TemplaVOila+ - could this be related ?
 Error is reproducible with every workspace and on every request/reload.

thx 4 digging into this.

#5 - 2019-10-31 14:43 - Oliver Hader

- Related to Bug #86945: Performance PageTree in Workspace added

#6 - 2019-11-06 11:17 - rengaw83

I have the same Problem after Upgrading TYPO3 to 8.7.28 or later.

In Bug #86945 the PageTree Performance for Workspace are optimized.

Since this change, the page tree will no longer work in certain cases.

I use Powermail and i have a lot of entries in the Table `tx_powermail_domain_model_answer`. Over 1k of the 100k database entries are versioned.

In `TYPO3\CMS\Workspaces\Service\WorkspaceService::fetchPagesWithVersionsInTable(\$workspaceId, \$tableName)` the following statement is generated:

```
SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B`
INNER JOIN `tx_powermail_domain_model_answer` `A` ON `B`.`uid` = `A`.`t3ver_oid`
WHERE (`A`.`pid` = -1) AND (`A`.`t3ver_wsid` = 2) AND (`A`.`t3ver_state` <> 4) AND ((`B`.`deleted` = 0) AND (
`A`.`deleted` = 0))
GROUP BY `B`.`pid`
UNION SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B`
INNER JOIN `tx_powermail_domain_model_answer` `A` ON `B`.`t3ver_move_id` = `A`.`t3ver_oid`
WHERE (`A`.`pid` = -1) AND (`A`.`t3ver_wsid` = 2) AND (`A`.`t3ver_state` = 4) AND ((`B`.`deleted` = 0) AND (
`A`.`deleted` = 0))
GROUP BY `B`.`pid`
```

This query runs into a timeout and the page tree keeps empty. so workspaces does not work anymore.

Explain select:

```

+-----+-----+-----+-----+-----+-----+-----+
| id   | select_type | table | type | possible_keys | key | key_len |

```

	ref	rows	Extra			
1	PRIMARY	A	index_merge	parent,t3ver_oid,deleted	parent,deleted	4,2
NULL		719	Using intersect (parent,deleted); Using where; Using temporary; Using filesort			
1	PRIMARY	B	eq_ref	PRIMARY,parent,deleted	PRIMARY	4
A.t3ver_oid		1	Using where			
2	UNION	B	ref	parent,deleted	deleted	2
const		69425	Using where; Using temporary; Using filesort			
2	UNION	A	ref	parent,t3ver_oid,deleted	t3ver_oid	8
B.t3ver_move_id,const		48	Using where			
NULL	UNION RESULT	<union1,2>	ALL	NULL	NULL	NULL
NULL		NULL	Using temporary			

I have tested the query directly in the mysql terminal on a mysql 5.6.33 server. The query returns an empty set in 1 min 57 sec.

After Downgrading TYPO3 to version 8.7.27 all works like a charm

#7 - 2019-11-06 12:07 - rengaw83

- File *table.dump.zip* added

i have added a cleaned sqldump of the table `tx_powermail_domain_model_answer` which causes the problem in my case.

#8 - 2019-11-06 18:45 - Gerrit Code Review

- Status changed from *Needs Feedback* to *Under Review*

Patch set 1 for branch **TYPO3_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62206>

#9 - 2019-11-06 19:11 - Gerrit Code Review

Patch set 2 for branch **TYPO3_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62206>

#10 - 2019-11-06 19:15 - Oliver Hader

Thanks rengaw83 for the details... I did not spot them before creating my previous patch. In case it is causing a timeout, the only fix I see currently is to revert the previous change.

#11 - 2019-11-06 19:48 - Oliver Hader

Alright...

- could reproduce on MySQL v5.6.48 (Docker)
- could not reproduce on MySQL 5.7.25 (Docker), 5.7.27 (source)

Server version: 5.6.46 MySQL Community Server (GPL)

```
mysql> SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B`
-> INNER JOIN `tx_powermail_domain_model_answer` `A` ON `B`.`uid` = `A`.`t3ver_oid`
-> WHERE (`A`.`pid` = -1) AND (`A`.`t3ver_wsid` = 2) AND (`A`.`t3ver_state` <> 4) AND ((`B`.`deleted` = 0)
AND (`A`.`deleted` = 0))
-> GROUP BY `B`.`pid`
-> UNION SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B`
-> INNER JOIN `tx_powermail_domain_model_answer` `A` ON `B`.`t3ver_move_id` = `A`.`t3ver_oid`
-> WHERE (`A`.`pid` = -1) AND (`A`.`t3ver_wsid` = 2) AND (`A`.`t3ver_state` = 4) AND ((`B`.`deleted` = 0)
AND (`A`.`deleted` = 0))
-> GROUP BY `B`.`pid`;
Empty set (1 min 6.29 sec)
```

Server version: 5.7.25 MySQL Community Server (GPL)

```
mysql> SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B`
-> INNER JOIN `tx_powermail_domain_model_answer` `A` ON `B`.`uid` = `A`.`t3ver_oid`
-> WHERE (`A`.`pid` = -1) AND (`A`.`t3ver_wsid` = 2) AND (`A`.`t3ver_state` <> 4) AND ((`B`.`deleted` = 0)
AND (`A`.`deleted` = 0))
-> GROUP BY `B`.`pid`
-> UNION SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B`
-> INNER JOIN `tx_powermail_domain_model_answer` `A` ON `B`.`t3ver_move_id` = `A`.`t3ver_oid`
-> WHERE (`A`.`pid` = -1) AND (`A`.`t3ver_wsid` = 2) AND (`A`.`t3ver_state` = 4) AND ((`B`.`deleted` = 0)
AND (`A`.`deleted` = 0))
-> GROUP BY `B`.`pid`;
Empty set (0.04 sec)
```

Thus, on MySQL 5.6 this will at least run into an XHR timeout leaving the TYPO3 page tree empty...

#12 - 2019-11-06 19:48 - Oliver Hader

- Status changed from Under Review to Accepted

- Target version set to next-patchlevel

#13 - 2019-11-06 20:01 - Oliver Hader

... and the previous queries have been like this (reverted the mentioned change) ...

```
mysql> SELECT `B`.`pid` AS `pageId` FROM `tx_powermail_domain_model_answer` `B` WHERE (
-> (`B`.`uid` IN (
-> SELECT `A`.`t3ver_oid` FROM `tx_powermail_domain_model_answer` `A` WHERE (`A`.`pid` = -1) AND (`A`.`
t3ver_wsid` = 14) AND (`A`.`t3ver_state` <> 4) AND (`A`.`deleted` = 0)))
-> OR (`B`.`t3ver_move_id` IN (
-> SELECT `A`.`t3ver_oid` FROM `tx_powermail_domain_model_answer` `A` WHERE (`A`.`pid` = -1) AND (`A`.`
t3ver_wsid` = 14) AND (`A`.`t3ver_state` = 4) AND (`A`.`deleted` = 0))))
-> AND (`B`.`deleted` = 0) GROUP BY `B`.`pid`;
Empty set (0.10 sec)
```

In this use-case 0.04 vs. 0.10 on MySQL 5.7

#14 - 2019-11-06 20:07 - Gerrit Code Review

- Status changed from Accepted to Under Review

Patch set 1 for branch **TYPO3_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62207>

#15 - 2019-11-06 20:13 - Gerrit Code Review

Patch set 1 for branch **9.5** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62208>

#16 - 2019-11-06 20:14 - 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/+62209>

#17 - 2019-11-06 20:16 - Gerrit Code Review

Patch set 2 for branch **TYPO3_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62207>

#18 - 2019-11-06 20:16 - Gerrit Code Review

Patch set 2 for branch **9.5** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62208>

#19 - 2019-11-07 23:00 - Oliver Hader

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [642c1e678cf821967b02b271b22837b1e8995468](https://review.typo3.org/c/Packages/TYPO3.CMS/+642c1e678cf821967b02b271b22837b1e8995468).

#20 - 2019-11-12 18:05 - Alexander Opitz

The main issue with the patch (that is reverted) is the changed query generation in the QueryBuilder since the patch was originally worked out. It now generates an 'INNER JOIN' with back references (which is a mess with older MySQL versions) instead of a JOIN with subselect as it was generated

with QueryBuilder one year ago. That's why, this optimization leads to a big missoptimization for MySQL <=5.6. So to get better performance we now need to do more hand optimization instead of using QueryBuilder (or find a way around).

With MySQL 5.7 and newer or MariaDB 10.0 and newer the original issue (which was tried to fix) with the "OR" combination of both selects was resolved by a better SQL execution plan.

As newer MySQL/MariaDB Versions are more and more in use and all users are moving along I'll do not fix the original issue with digging again into QueryBuilding. The old state (which was faster as the state after the patches) is restored with this revert. If you have a old MySQL (<=5.6 or MariaDB <= 5.5), a large database, use workspaces and long waits while loading the page tree please upgrade to a newer version of MySQL (5.7 or newer [latest is 8.0.16]) or MariaDB (Partially 10.0 and fully 10.1 or newer [latest is 10.4.10]). No further development will be done here.

#21 - 2019-12-23 22:43 - Benni Mack

- Status changed from Resolved to Closed

Files

screenshot-www.adfc-nuernberg.ddev.site-2019.10.21-22_37_55.png	55.1 KB	2019-10-21	Claude Unterleitner
89464_002.png	109 KB	2019-10-22	Oliver Hader
table.dump.zip	838 KB	2019-11-06	rengaw83