Core - Task # 54230

Epic # 55070 (Accepted): Workpackages

Epic # 54260 (Accepted): WP: FAL Missing Issues / Features / API

Story # 54268 (Resolved): As an TYPO3-Contributor I want to have a clean CodeBase in order maintain the product

Status:	Resolved	Priority:	Must have		
Author:	Steffen Ritter	Category:	File Abstrac	ction Layer (FA	L)
Created:	2013-12-06	Assigned To:	Steffen Ritt	er	
Updated:	2014-02-17	Due date:	2013-12-31		
TYPO3 Version:	6.2	ł			
PHP Version:					
Complexity:	medium				
Sprint Focus:					
Subject:	Refactor Driver API				
Description					
	ept to just encapsulate the Filesystem a bout FileObject or FolderObjects A file		ts Identifiers.		
It should not know ab		esystem only knows about it	ts Identifiers.		
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It should not know ab The connection to the Refactor the Driver to interface Related issues: related to Core - Bug #	oout FileObject or FolderObjects A file FAL Object world happens in the Res o only act on Identifiers and define an Ir	esystem only knows about it sourceStorage. hterface for that, replace all	type-hints for abs		use the
It should not know ab The connection to the Refactor the Driver to interface Related issues: related to Core - Bug # related to Core - Task #	oout FileObject or FolderObjects A file FAL Object world happens in the Res o only act on Identifiers and define an Ir 57415: Local driver does not sanitize directo	esystem only knows about it sourceStorage. nterface for that, replace all ory names driver API	type-hints for abs Resolved	2014-03-28	use the

Associated revisions

Revision f83eddd5 - 2014-01-15 14:57 - Steffen Ritter

[!!!][TASK] Driver API has too many crosscutting concerns

The Driver within the FileAbstractionLayer is the actual abstraction of a concrete file-system meant to unify access to several kind of storage-systems the file data might reside in. For each way of storing files there has to be a driver.

Therefore a driver is solely a unique API to interact with an underlying storage system based upon its own identifier system.

Opposite to that, the AbstractDriver (defining our Interface) knows about its storage, file- and folder-objects as well as indexes. The methods within the current driver need to implement more FAL-internal logic than one would expect from what the driver is purposed to. As a result only a few drivers are existing by now. In addition it's nearly impossible to change FAL interals without touching every driver out there. This change deals with these problems. In several steps the current driver API has been refactored to have less dependencies and only fullfills it's original purpose: the abstraction of a file storage system.

The following things are considered:

- 1. Change every return value which has been an object to the identifier and adapt the ResourceStorage accordingly.
- 2. Change every method parameter being FileInterface, File, AbstractFile or Folder objects to a string: the identifier.
- 3. Get rid of the storage as a member variable, only the uid of the storage is needed at two places.
- 4. Remove all abstract methods from the AbstractDriver and put them in a newly created DriverInterface.
- 5. Exchange all references to AbstractDriver to the interface.
- 6. Remove unused methods, which came to light doing so.
- Merge addFile/removeFile and *Raw since the do the same if no objects are in place.
- 8. Unify the creation of folder objects and how information is retrieved (analogue to files now).
- 9. Unify and simplify the methods for retrieving folder contents (files / folders).
- Adapt the UnitTests of both classes to the changes.
 This also leads to the removal of some tests which are superfluous with that change.
- 11. Make the DriverRegistry check the implementation of the newly created interface.
- 12. Unify the parameter names in the methods.

Releases: 6.2 Resolves: #54230 Resolves: #54231 Change-Id: I4a51572c6a10859e6fd5f12f6cb539950444992e Reviewed-on: <u>https://review.typo3.org/26520</u> Reviewed-by: Frans Saris Tested-by: Frans Saris Reviewed-by: Benjamin Mack Tested-by: Benjamin Mack

Revision 84b6e61f - 2014-01-15 15:57 - Steffen Ritter

[TASK] Skip two tests in LocalDriverTests in PHP 5.3

For most tests in the LocalDriverTest vfsStream is used to emulate the filesystem. This needs PHP filesystem functions to use the stream wrappers.

For touch() this has been enabled with PHP 5.4. The reversal conclusion is, that this does not work with PHP 5.3 which causes failing tests there.

As a result If the PHP version is 5.3 we skip the two tests.

This is a follow-up to https://review.typo3.org/#/c/26520/

Resolves: #54230 Releases: 6.2 Change-Id: I4e92927e1d77f825bab8583318a944a8916051d5 Reviewed-on: https://review.typo3.org/26845 Reviewed-by: Steffen Ritter Tested-by: Steffen Ritter

History

#1 - 2013-12-07 16:08 - Steffen Ritter

- Parent task set to #54268

#2 - 2013-12-20 15:56 - Gerrit Code Review

- Status changed from Accepted 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/26520

#3 - 2013-12-20 16:15 - 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/26520

#4 - 2013-12-20 17:49 - 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/26520

#5 - 2013-12-21 19:02 - 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 <u>https://review.typo3.org/26520</u>

#6 - 2013-12-22 10:24 - Steffen Ritter

- % Done changed from 0 to 70

#7 - 2014-01-05 16:35 - 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 <u>https://review.typo3.org/26520</u>

#8 - 2014-01-05 20:29 - Gerrit Code Review

Patch set 6 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at https://review.typo3.org/26520

#9 - 2014-01-09 15:34 - Gerrit Code Review

Patch set 7 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at https://review.typo3.org/26520

#10 - 2014-01-09 23:02 - Gerrit Code Review

Patch set 8 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at https://review.typo3.org/26520

#11 - 2014-01-14 12:42 - Gerrit Code Review

Patch set 9 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <u>https://review.typo3.org/26520</u>

#12 - 2014-01-15 10:01 - Gerrit Code Review

Patch set 10 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at https://review.typo3.org/26520

#13 - 2014-01-15 14:09 - Gerrit Code Review

Patch set 11 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at https://review.typo3.org/26520

#14 - 2014-01-15 15:30 - Steffen Ritter

- Status changed from Under Review to Resolved

- % Done changed from 70 to 100

Applied in changeset commit:f83eddd5027b74d7f4d28a845521bff3b2dd603d.

#15 - 2014-01-15 15:40 - Gerrit Code Review

- Status changed from Resolved 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/26845

#16 - 2014-01-15 16:30 - Steffen Ritter

- Status changed from Under Review to Resolved

Applied in changeset commit:84b6e61fa61592f4d704846fa5292ab58773851d.

#17 - 2014-01-15 16:36 - Steffen Ritter

- % Done changed from 100 to 90

#18 - 2014-02-17 08:47 - Steffen Ritter

- % Done changed from 90 to 100