

## TYPO3 Core - Feature #88833

### Extend possibility to create FileReference in frontend with a given File object

2019-07-24 12:17 - Jan Kornblum

<b>Status:</b>	New	<b>Start date:</b>	2019-07-24
<b>Priority:</b>	Should have	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Extbase	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Complexity:</b>	
<b>PHP Version:</b>	7.3	<b>Sprint Focus:</b>	
<b>Tags:</b>	Extbase, FileReference, FAL, Frontend, Create		

#### Description

Related to <https://forge.typo3.org/issues/48965#note-21> it is still not possible, to create a FileReference in frontend context by a given File object. So still a custom extended FileReference class is necessary. Please add a setFile() method to the native Extbase FileReference class like this:

```
/**
 * Class FileReference
 */
class FileReference extends \TYPO3\CMS\Extbase\Domain\Model\FileReference {

    /**
     * uid of a sys_file
     *
     * @var integer
     */
    protected $originalFileIdentifier;

    /**
     * setOriginalResource
     *
     * @param \TYPO3\CMS\Core\Resource\ResourceInterface $originalResource
     * @return void
     */
    public function setOriginalResource(\TYPO3\CMS\Core\Resource\ResourceInterface
$originalResource) {
        $this->originalResource = $originalResource;
        $this->originalFileIdentifier = (int)$originalResource->getOriginalFile()->getUid();
    }

    /**
     * setFile
     *
     * @param \TYPO3\CMS\Core\Resource\File $falFile
     * @return void
     */
    public function setFile(\TYPO3\CMS\Core\Resource\File $falFile) {
        $this->originalFileIdentifier = (int)$falFile->getUid();
    }
}
```

With this, creating a new FileReference in frontend will be possible by core for all three variants like following:

```
// A) File Objekt already exists in Storage (but Storage doesn't know it yet):
$file = ResourceFactory::getInstance()->retrieveFileOrFolderObject('path_to_file');

// B) File Objekt exists anywhere and will be copied to storage:
$storage = ResourceFactory::getInstance()->getDefaultStorage();
$file = $storage->getFolder('folder_name')->addFile('path_to_file');
```

```
// C) File Objekt doesn't yet exist will be created as an empty file (can be filled later using
setContent() or else):
$storage = ResourceFactory::getInstance()->getDefaultStorage();
$file = $storage->getFolder('folder_name')->createFile('path_to_file', $folder);

// Create the file reference itself here (for A, B, and C)
$fileReference = $objectManager->get(\TYPO3\CMS\Extbase\Domain\Model\FileReference::class);
$fileReference->setFile($file);
```

#### Related issues:

Related to TYPO3 Core - Bug #66813: Persisting extbase FileReference does not...	<b>Accepted</b>	<b>2015-05-06</b>
Related to TYPO3 Core - Feature #90374: Add setOriginalFile / setFile setter t...	<b>New</b>	<b>2020-02-15</b>
Related to TYPO3 Core - Bug #48965: FileReference can't be created in Fronten...	<b>Closed</b>	<b>2013-06-08</b>

#### History

##### #1 - 2019-09-24 18:49 - Christian EBI

- Related to Bug #66813: Persisting extbase FileReference does not work with default TCA configuration added

##### #2 - 2020-01-17 09:48 - Yohann CERDAN

+1 for this, i dont know why this is not by default after such a time.

##### #3 - 2020-02-16 13:23 - Christian EBI

- Related to Feature #90374: Add setOriginalFile / setFile setter to TYPO3\CMS\Extbase\Domain\Model\FileReference added

##### #4 - 2020-11-12 09:33 - Jan Kornblum

- Related to Bug #48965: FileReference can't be created in Frontend context added

##### #5 - 2020-11-12 09:48 - Jan Kornblum

- Category changed from File Abstraction Layer (FAL) to Extbase

Nobody interested in improving this? Since FAL has already been introduced in 6 LTS (?) there is still no native support for such basic tasks? I'm sorry if this is not as simple as it seems to me (i am not a core developer)...

If anybody will implement this missing feature, please also respect this (<https://forge.typo3.org/issues/66813#note-3>) related issue, to prevent the need to extend the TCA's "foreign\_match\_fields" always.

##### #6 - 2021-07-21 09:26 - Stefan Neufeind

Stumbled across this again. We really should find a way to easily create a filereference - either by using a file-object and being able to create a filereference from there or like described here by creating a new reference and assigning it a file.

Use-case is for example: You have a FrontendUser-object, have an image in the filesystem (and can easily request a file-object for it) ... and need to call FrontendUser::setImage() with an ObjectStorage holding a file-reference.  
Maybe we could also allow to pass a file-object there and setImage would itself create the needed FileReference out of it.

Blogpost (in German) referring to this issue here:

<https://www.typo3tiger.de/blog/post/extbase-fal-filereference-erzeugen-update.html>