

Core - Task # 46357

Epic # 55575 (Accepted): Streamline JavaScript Code in the TYPO3 Backend

Status:	Resolved	Priority:	Should have
Author:	Benjamin Mack	Category:	FormEngine aka TCEforms
Created:	2013-03-16	Assigned To:	Benjamin Mack
Updated:	2014-03-11	Due date:	
TYPO3 Version:	6.1		
PHP Version:			
Complexity:			
Sprint Focus:			
Subject:	Move TCEForms JS Code to external file - part 1		
Description			
<p>Parts of the JavaScript code used in TCEforms is put inline, coming from the PHP file. There is no concept of using HTML5-data attributes to store information. Plus, most of the JS functions are inline in the HTML output and called in onclick etc. handlers in the HTML elements. Thus, the functionality cannot be abstracted from the markup, and the JS functionality cannot be cached by the browser.</p> <p>Previously, the JS functionality is based on plain MSIE4-compatible JS code without any framework (no prototype, jQuery etc), and are not in any namespace.</p> <p>This approach extracts TCEforms JS code to an external file (AMD module), and rewrite it to current jQuery and JS standards. But since the JS code of TCEforms is very complicated, it is hard to do it all at once.</p> <p>The beginning makes the functionality around select fields in TCEforms, the functions for importing values from the Element browser, from any other source.</p> <p>The patch does this: * Extract the static functions from the PHP code to an external JS file, in a new RequireJS module named "TYPO3/CMS/Backend/FormEngine.js" * Add options that are page-specific (backPath, formName, callback fn) to PHP so JS can access it. * Add classes and data-attributes and remove onclick... functionality in order to reduce the HTML code and split the data from the logic. * Functionality for icons like "move up" etc are rewritten * Functionality for adding elements from a two-select (like "Access" element in pages) is rewritten, using CSS classes and data attributes.</p> <p>By keeping the global variables for the old functionality, the old functions still work as expected.</p> <p>Please note that you need to have the RequireJS code in the Core in order to use that.</p> <p>Also, find the work-in-progress for JS coding guidelines and CSS Class guidelines here:</p> <p>https://notes.typo3.org/p/JS-Coding-Conventions</p> <p>https://notes.typo3.org/p/BE-CSS-Classes</p>			
Related issues:			

related to Core - Task # 55572: Switch IRRE to jQuery

Resolved

2014-02-02

related to Core - Bug # 61276: TCA property "exclusiveKeys" prevents from sel...

Resolved

2014-08-29

Associated revisions

Revision 4bef9b87 - 2014-02-08 11:17 - Benjamin Mack

[TASK] Move TCEForms JS Code to external file - part 1

Parts of the JavaScript code used in TCEforms is put inline, coming from the PHP file. There is no concept of using HTML5-data attributes to store information. Plus, most of the JS functions are inline in the HTML output and called in onclick etc. handlers in the HTML elements.

Thus, the functionality cannot be abstracted from the markup, and the JS functionality cannot be cached by the browser.

Previously, the JS functionality is based on plain MSIE4-compatible JS code without any framework (no prototype, jQuery etc), and are not in any namespace.

This approach extracts TCEforms JS code to an external file (AMD module / RequireJS), and rewrite it to current jQuery and JS standards. But since the JS code of TCEforms is very complicated, it is hard to do it all at once, and the task is split into separate parts.

The beginning marks the functionality around select fields in TCEforms, the functions for importing values from the Element browser, from any other source.

The patch does this:

- Extract the static functions from the PHP code to an external JS file, in a new RequireJS module named "TYPO3\CMS\Backend\FormEngine.js"
- Add options that are page-specific (backPath, formName, callback fn) to PHP so JS can access it.
- Add classes and data-attributes and remove onclick... functionality in order to reduce the HTML code and split the data from the logic.
- Functionality for icons like "move up" etc are rewritten
- Functionality for adding elements from a two-select (like "Access" element in pages) is rewritten, using CSS classes and data attributes.

By keeping the global variables for the old functionality, the old functions still work as expected.

Resolves: #46357

Releases: 6.2

Change-Id: I3b9936143342d99eec3058cd55fefdb006060cd4

Reviewed-on: <https://review.typo3.org/18971>

Reviewed-by: Andreas Wolf

Reviewed-by: Stefan Neufeind

Tested-by: Stefan Neufeind

Tested-by: Felix Kopp

Reviewed-by: Benjamin Mack

Tested-by: Benjamin Mack

History

#1 - 2013-03-16 15:04 - Gerrit Code Review

- *Status changed from Accepted to Under Review*

Patch set 1 for branch **master** has been pushed to the review server.

It is available at <https://review.typo3.org/18971>

#2 - 2013-03-30 21:18 - Gerrit Code Review

Patch set 2 for branch **master** has been pushed to the review server.

It is available at <https://review.typo3.org/18971>

#3 - 2013-07-02 14:23 - Gerrit Code Review

Patch set 3 for branch **master** has been pushed to the review server.

It is available at <https://review.typo3.org/18971>

#4 - 2014-01-31 19:52 - 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/18971>

#5 - 2014-02-08 11:30 - Benjamin Mack

- *Status changed from Under Review to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset commit:4bef9b87a3179be0fd8780855a76cd4cc1f2451b.

#6 - 2014-03-11 11:22 - Daniel Siepmann

- *Parent task set to #55575*