

TYPO3 Core - Task #86365

Story # 86171 (Closed): Basic implementation of Route Enhancers for Extensions

Introduce routing Enhancers and Aspects

2018-09-25 08:23 - Oliver Hader

Status:	Closed	Start date:	2018-09-25
Priority:	Should have	Due date:	
Assignee:		% Done:	100%
Category:	Link Handling, Site Handling & Routing	Estimated time:	0.00 hour
Target version:	9 LTS	Complexity:	
TYPO3 Version:	9	Sprint Focus:	
PHP Version:	7.2		
Tags:			
Description			
<p>Page-base routing is extended by Enhancers and Aspects in order to either generate URLs based on given parameters for a specific route definition or resolve parameters from a collection of possible routes that are matching.</p> <p>Enhancers create variants of a specific page-base route for a specific purpose (e.g. one plugin, one Extbase plugin, one typeNum, ...) and enhance their route definition, requirements, default values and aspects in general.</p> <p>Aspects can be Modifiers that statically modify an enhance route path for the current scenario (e.g. locale-based modifications for static name parts) - Aspects also can be Mappers that define mapping rules between routing parameters and system-internal parameters such as static values or database-table based transformations.</p>			

Associated revisions

Revision 4844fae6 - 2018-09-29 17:00 - Benni Mack

[FEATURE] Introduce RouteEnhancers for Page-based Routing

Page-based routing can now be configured within a site configuration to add so-called "route enhancers" which allow to add more placeholders to a route for a page.

There are three Enhancers that TYPO3 now ships with:

- SimpleEnhancer
- PluginEnhancer
- ExtbasePluginEnhancer

It is also possible to add custom enhancers by third-party extensions.

Each placeholder within an enhancer can receive a so-called "Aspect", usually used for mapping speaking values instead of IDs, or month-names in an archive link, and "modifiers" to modify a placeholder.

The simple enhancer transfers a link parameter, previously maybe used to add a `&product=123`, which will now result into `/product/123` for a page. PluginEnhancer adds a namespace, common for simple plugins or Pi-Based plugins, and the ExtbasePluginEnhancer adds logic for multiple route variants to be added, depending on the controller/action combinations.

Aspects are processors / modifiers / mappers to transfer a placeholder value back & forth to make each placeholder value more "speaking".

TYPO3 Core ships with the following aspects:

- LocaleModifier (for localized path segments)
- StaticValueMapper (for path segments with a static list)
- StaticRangeMapper (for pagination)
- PersistedAliasMapper (for slug fields)

- PersistedPatternMapper (for database records without slug fields)

Routing now returns a so-called "PageArguments" object which is then used for evaluating site-based URL handling and the cHash calculation.

It is highly discouraged to access `_GET` or `_POST` variables within any kind of code now, instead the PSR-7 request object should be used as much as possible.

Releases: master
Resolves: #86365
Change-Id: I77e001a5790f1ab3bce75695ef0e1615411e2bd9
Reviewed-on: <https://review.typo3.org/58384>
Tested-by: TYPO3com <no-reply@typo3.com>
Reviewed-by: Susanne Moog <susanne.moog@typo3.org>
Tested-by: Susanne Moog <susanne.moog@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>
Tested-by: Oliver Hader <oliver.hader@typo3.org>

Revision e277b8ba - 2018-10-01 10:13 - Daniel Siepmann

[TASK] Adjust rst syntax for proper yaml highlighting

Define default highlighting for 86365 changelog entry to be yaml. Adjust all yaml occurrences within this entry to use default highlighting.

Releases: master
Resolves: #86365
Change-Id: I9063311830330d55ae051c8a0d38da78a2a91831
Reviewed-on: <https://review.typo3.org/58514>
Reviewed-by: Susanne Moog <susanne.moog@typo3.org>
Tested-by: TYPO3com <no-reply@typo3.com>
Tested-by: Susanne Moog <susanne.moog@typo3.org>
Reviewed-by: Christian Kuhn <lolli@schwarzbu.ch>
Tested-by: Christian Kuhn <lolli@schwarzbu.ch>

Revision 0625b67a - 2018-10-02 08:25 - Daniel Siepmann

[TASK] Improve changelog docs

- Fix wrong indentation level in example.
- Adjust sorting of paragraphs for explanation to match order of configuration options in example above.
- Keep example consistent. Remove single quotes around two keys in a single line, not used in other lines.
- Add syntax highlighting to SiteConfiguration syntax for environment variables.

Releases: master
Resolves: #86365, #86409
Change-Id: Ic7923bf7a3215f86637d3a8e20776f74666daf3f
Reviewed-on: <https://review.typo3.org/58551>
Reviewed-by: Wouter Wolters <typo3@wouterwolters.nl>
Tested-by: Wouter Wolters <typo3@wouterwolters.nl>
Reviewed-by: Georg Ringer <georg.ringer@gmail.com>
Tested-by: Georg Ringer <georg.ringer@gmail.com>

History

#1 - 2018-09-25 08:58 - Gerrit Code Review

- Status changed from New to Under 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/58384>

#2 - 2018-09-25 09:01 - 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/58384>

#3 - 2018-09-26 18:42 - 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/58384>

#4 - 2018-09-26 18:44 - 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/58384>

#5 - 2018-09-26 19:08 - 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/58384>

#6 - 2018-09-26 20:46 - 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/58384>

#7 - 2018-09-26 20:47 - 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/58384>

#8 - 2018-09-26 21:14 - 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 <https://review.typo3.org/58384>

#9 - 2018-09-26 21:24 - 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/58384>

#10 - 2018-09-26 22:12 - 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/58384>

#11 - 2018-09-26 22:42 - Gerrit Code Review

Patch set 12 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#12 - 2018-09-26 22:44 - Gerrit Code Review

Patch set 13 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#13 - 2018-09-26 22:51 - Gerrit Code Review

Patch set 14 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#14 - 2018-09-26 22:53 - Gerrit Code Review

Patch set 15 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#15 - 2018-09-26 23:11 - Gerrit Code Review

Patch set 16 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#16 - 2018-09-26 23:17 - Gerrit Code Review

Patch set 17 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#17 - 2018-09-26 23:19 - Gerrit Code Review

Patch set 18 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#18 - 2018-09-26 23:24 - Gerrit Code Review

Patch set 19 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#19 - 2018-09-26 23:27 - Gerrit Code Review

Patch set 20 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#20 - 2018-09-26 23:30 - Gerrit Code Review

Patch set 21 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#21 - 2018-09-26 23:31 - Gerrit Code Review

Patch set 22 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#22 - 2018-09-26 23:43 - Gerrit Code Review

Patch set 23 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#23 - 2018-09-26 23:47 - Gerrit Code Review

Patch set 24 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#24 - 2018-09-26 23:49 - Gerrit Code Review

Patch set 25 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#25 - 2018-09-27 00:11 - Gerrit Code Review

Patch set 26 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#26 - 2018-09-27 00:48 - Gerrit Code Review

Patch set 27 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#27 - 2018-09-27 00:58 - Gerrit Code Review

Patch set 28 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#28 - 2018-09-27 01:34 - Gerrit Code Review

Patch set 29 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#29 - 2018-09-27 09:50 - Gerrit Code Review

Patch set 30 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#30 - 2018-09-27 20:00 - Gerrit Code Review

Patch set 31 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#31 - 2018-09-27 21:30 - Gerrit Code Review

Patch set 32 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#32 - 2018-09-27 22:04 - Gerrit Code Review

Patch set 33 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#33 - 2018-09-27 22:14 - Gerrit Code Review

Patch set 34 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#34 - 2018-09-27 22:36 - Gerrit Code Review

Patch set 35 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#35 - 2018-09-27 22:39 - Gerrit Code Review

Patch set 36 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#36 - 2018-09-27 22:40 - Gerrit Code Review

Patch set 37 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#37 - 2018-09-27 22:49 - Gerrit Code Review

Patch set 38 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#38 - 2018-09-27 23:07 - Gerrit Code Review

Patch set 39 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#39 - 2018-09-27 23:10 - Gerrit Code Review

Patch set 40 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#40 - 2018-09-27 23:15 - Gerrit Code Review

Patch set 41 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#41 - 2018-09-28 13:17 - Gerrit Code Review

Patch set 42 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#42 - 2018-09-28 18:37 - Gerrit Code Review

Patch set 43 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#43 - 2018-09-28 18:58 - Gerrit Code Review

Patch set 44 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#44 - 2018-09-28 19:08 - Gerrit Code Review

Patch set 45 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#45 - 2018-09-28 19:33 - Gerrit Code Review

Patch set 46 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#46 - 2018-09-28 19:39 - Gerrit Code Review

Patch set 47 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#47 - 2018-09-28 20:42 - Gerrit Code Review

Patch set 48 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#48 - 2018-09-28 21:18 - Gerrit Code Review

Patch set 49 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#49 - 2018-09-28 21:40 - Gerrit Code Review

Patch set 50 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#50 - 2018-09-28 22:34 - Gerrit Code Review

Patch set 51 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#51 - 2018-09-28 22:59 - Gerrit Code Review

Patch set 52 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#52 - 2018-09-28 23:39 - Gerrit Code Review

Patch set 53 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#53 - 2018-09-28 23:58 - Gerrit Code Review

Patch set 54 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#54 - 2018-09-28 23:58 - Gerrit Code Review

Patch set 55 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#55 - 2018-09-29 00:01 - Gerrit Code Review

Patch set 56 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#56 - 2018-09-29 02:03 - Gerrit Code Review

Patch set 57 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#57 - 2018-09-29 09:15 - Gerrit Code Review

Patch set 58 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#58 - 2018-09-29 09:48 - Gerrit Code Review

Patch set 59 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#59 - 2018-09-29 09:54 - Gerrit Code Review

Patch set 60 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#60 - 2018-09-29 11:49 - Gerrit Code Review

Patch set 61 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#61 - 2018-09-29 12:47 - Gerrit Code Review

Patch set 62 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#62 - 2018-09-29 12:52 - Gerrit Code Review

Patch set 63 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#63 - 2018-09-29 13:00 - Gerrit Code Review

Patch set 64 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#64 - 2018-09-29 13:18 - Gerrit Code Review

Patch set 65 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#65 - 2018-09-29 13:26 - Gerrit Code Review

Patch set 66 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#66 - 2018-09-29 14:27 - Gerrit Code Review

Patch set 67 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#67 - 2018-09-29 14:38 - Gerrit Code Review

Patch set 68 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#68 - 2018-09-29 15:23 - Gerrit Code Review

Patch set 69 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#69 - 2018-09-29 16:07 - Gerrit Code Review

Patch set 70 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#70 - 2018-09-29 16:36 - Gerrit Code Review

Patch set 71 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/58384>

#71 - 2018-09-29 17:30 - Benni Mack

- Status changed from *Under Review* to *Resolved*
- % Done changed from 0 to 100

Applied in changeset [4844fae6dbf99c2c860bb18b73342f50b73dff6d](#).

#72 - 2018-10-01 09:56 - 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/58514>

#73 - 2018-10-01 10:30 - Daniel Siepmann

- Status changed from *Under Review* to *Resolved*

Applied in changeset [e277b8ba3add8b475b650cf63cf3b4d20bd9432b](#).

#74 - 2018-10-02 08:15 - 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/58551>

#75 - 2018-10-02 08:30 - Daniel Siepmann

- Status changed from *Under Review* to *Resolved*

Applied in changeset [0625b67ad7b6625df9969548674ed03d0d5e921f](#).

#76 - 2018-10-02 10:25 - Benni Mack

- Status changed from Resolved to Closed