

## TYPO3.Flow - Feature #8736

### Implement generic Identity RoutePartHandler

2010-07-08 13:17 - Bastian Waidelich

<b>Status:</b>	Resolved	<b>Start date:</b>	
<b>Priority:</b>	Should have	<b>Due date:</b>	
<b>Assignee:</b>	Bastian Waidelich	<b>% Done:</b>	100%
<b>Category:</b>	MVC - Routing	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.0.0	<b>Complexity:</b>	
<b>PHP Version:</b>			
<b>Has patch:</b>			

#### Description

We should provide a generic RoutePart handler, that allows to match/resolve Identities. This should be configurable through the "options" setting that was implemented with [#2825](#).

Instead of

```
uriPattern: 'posts/{post}'
defaults:
  '@package': Blog
  '@controller': Post
  '@action': show
routeParts:
  post:
    handler: F3\Blog\RoutePartHandlers\PostRoutePartHandler
```

I could imagine something like

```
uriPattern: 'posts/{post}'
defaults:
  '@package': Blog
  '@controller': Post
  '@action': show
routeParts:
  post:
    handler: IdentityRoutePartHandler
    options:
      model: F3\Blog\Domain\Model\Post
      pattern: '{date}/{title}'
```

Then you wouldn't need a custom RoutePart handler anymore most cases..

**Note1:** the namespace of the handler can be omitted when it is in the FLOW3 package

**Note2:** the line "handler: IdentityRoutePartHandler" could be implicit for domain models

**Note3:** how to handle the date format here? should we somehow support regular expressions in the pattern?

#### Related issues:

Related to TYPO3.Flow - Feature #29972: Configurable Redirects

**Under Review** 2011-09-18

Has duplicate TYPO3.Flow - Feature #26688: Magic Object Routes

**Closed** 2011-05-06

#### Associated revisions

**Revision 38232efb - 2011-09-20 19:12 - Bastian Waidelich**

[FEATURE] Add generic Identity RoutePartHandler

This implements improved routing for persisted objects.

When an object type is specified in the routing configuration, the new "IdentityRoutePart" is used to match/resolve the route part.

By default the resolved URI representation (path segment) is built from the identity properties of the domain model. If no identity properties are defined, the technical identifier (UUID) is used.

Additionally a custom URI pattern can be defined in the route. For properties of type DateTime the date format can be specified prefixed by a colon.

If a path segment already exists, the IdentityRoutePart handler will append an increasing counter to ensure unique URIs.

Sample Route:

```
-  
uriPattern: 'posts/{post}'  
defaults:  
  '@package': 'TYPO3.Blog'  
  '@controller': 'Post'  
  '@action': 'show'  
  '@format': 'html'  
routeParts:  
  post:  
    objectType: TYPO3\Blog\Domain\Model\Post
```

Change-Id: I8fb5d4f4be3649e2f6307f83af2f3bbaa2191b5b  
Resolves: #8736

## History

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### #1 - 2010-07-08 13:17 - Bastian Waidelich

- Due date deleted (2009-03-16)
- Start date deleted (2009-03-12)
- % Done changed from 100 to 0
- Estimated time changed from 2.00 h to 4.00 h

### #2 - 2010-07-08 13:24 - Bastian Waidelich

- Status changed from New to Needs Feedback

One more addition:

According to "Convention over Configuration" the above example could be

```
uriPattern: 'posts/{post}'  
defaults:  
  '@package': Blog  
  '@controller': Post  
  '@action': show  
routeParts:  
  post:  
    options:  
      pattern: '{date}/{title}'
```

-> By default FLOW3s IdentityRoutePart would be used for the domain model. And - if not specified - the model would be @package\Domain\Model and uppercase RoutePart-getName(). Would that work?

IMO even the routParts configuration could be omitted - then all @identity properties would be used to build the Uri segments..

What do you think?

### #3 - 2010-07-08 13:44 - Bastian Waidelich

- Subject changed from Routing: Implement generic Identity RoutePartHandler to Implement generic Identity RoutePartHandler
- Category changed from MVC to MVC - Routing

### #4 - 2010-08-18 15:52 - Karsten Dambekalns

I like the concept. As for date formatting, this needs to be configurable. Since the handler could find out about the types of the properties used, it could look for type-specific information in the pattern. E.g. like this:

```
uriPattern: 'posts/{post}'  
defaults:
```

```
'@package': Blog
'@controller': Post
'@action': show
routeParts:
  post:
    options:
      pattern: '{date format:Y-m-d}/{title}'
```

Then it could use format as needed.

#### #5 - 2010-08-18 16:28 - Bastian Waidelich

Karsten Dambekalns wrote:

As for date formatting, this needs to be configurable.

Yes, but I'm unhappy about yet another syntax

```
{date format:Y-m-d}
```

Why hasn't the DateTime object more getters.. Then one could write

```
pattern: '{date.year}-{date.month}-{date.day}/{title}'
```

And this is not the only case where this was useful..

Maybe we can use our own DateTime implementation in FLOW3!?

#### #6 - 2010-08-18 16:48 - Karsten Dambekalns

Bastian Waidelich wrote:

Yes, but I'm unhappy about yet another syntax

[..]

Why hasn't the DateTime object more getters.. Then one could write

So, in the pattern one could use the object path syntax as in Fluid. Nice idea.

Maybe we can use our own DateTime implementation in FLOW3!?

Yeah, one more reason to have one...

#### #7 - 2011-05-07 07:56 - Bastian Waidelich

- Status changed from Needs Feedback to Accepted

- Target version set to 1.0 beta 1

- % Done changed from 0 to 30

- Estimated time deleted (4.00 h)

**Note:** One reason that prevented me from implementing this, was the missing "transliteration" feature of the l18n sub package, that would be needed to convert special characters (e.g. "ä" -> "ae").

As transliteration will most probably not make it into FLOW3 1.0, we'll have to find another (temporary) solution anyways.

Maybe we can make use of some built-in Doctrine functionality here (for example the sluggable behavior:

[http://www.doctrine-project.org/documentation/manual/1\\_0/en/behaviors/core-behaviors/sluggable](http://www.doctrine-project.org/documentation/manual/1_0/en/behaviors/core-behaviors/sluggable) ->

<https://github.com/l3pp4rd/DoctrineExtensions/tree/doctrine2.0.x/lib/Gedmo/Sluggable>)

#### #8 - 2011-05-07 09:20 - Karsten Dambekalns

Bastian Waidelich wrote:

As transliteration will most probably not make it into FLOW3 1.0, we'll have to find another (temporary) solution anyways.

Why not? The basics are all there, even in TYPO3 (v4).

Maybe we can make use of some built-in Doctrine functionality here (for example the sluggable behavior:

[http://www.doctrine-project.org/documentation/manual/1\\_0/en/behaviors/core-behaviors/sluggable](http://www.doctrine-project.org/documentation/manual/1_0/en/behaviors/core-behaviors/sluggable) ->

<https://github.com/l3pp4rd/DoctrineExtensions/tree/doctrine2.0.x/lib/Gedmo/Sluggable>)

Oh, well, looks interesting, why not mix and match the best from our and their code. Either way, having this in I18n by 1.0 should be no problem. Even it's some kind of "workaround", I'd put it there. We should discuss your needs and just do it.

**#9 - 2011-08-04 08:41 - Sebastian Kurfuerst**

- Target version changed from 1.0 beta 1 to 1.0 beta 2

**#10 - 2011-09-09 15:17 - Robert Lemke**

- Target version changed from 1.0 beta 2 to 1.0.0

**#11 - 2011-09-19 22:27 - Mr. Hudson**

- Status changed from Accepted to Under Review

Patch set 1 of change I8fb5d4f4be3649e2f6307f83af2f3bbaa2191b5b has been pushed to the review server. It is available at <http://review.typo3.org/5076>

**#12 - 2011-09-19 22:33 - Bastian Waidelich**

FYI: The current implementation supports following syntax:

```
name: 'Single Post Actions'
uriPattern: 'posts/{post}/{@action}'
defaults:
  '@package': 'TYPO3.Blog'
  '@controller': 'Post'
  '@action': 'show'
  '@format': 'html'
routeParts:
  post:
    objectType: TYPO3\Blog\Domain\Model\Post
```

By default the @identity property/ies of the specified object type are used to create the URI section, or - if they're not specified - the technical identifier (UUID) of the respective object.

Alternatively a custom URI pattern can be specified:

```
name: 'Single Post Actions'
uriPattern: 'posts/{post}/{@action}'
defaults:
  '@package': 'TYPO3.Blog'
  '@controller': 'Post'
  '@action': 'show'
  '@format': 'html'
routeParts:
  post:
    objectType: TYPO3\Blog\Domain\Model\Post
    uriPattern: '{date:Y}/{date:m}/{date:d}/{title}'
```

**#13 - 2011-09-20 13:10 - Mr. Hudson**

Patch set 2 of change I8fb5d4f4be3649e2f6307f83af2f3bbaa2191b5b has been pushed to the review server. It is available at <http://review.typo3.org/5076>

**#14 - 2011-09-20 15:23 - Mr. Hudson**

Patch set 3 of change I8fb5d4f4be3649e2f6307f83af2f3bbaa2191b5b has been pushed to the review server. It is available at <http://review.typo3.org/5076>

**#15 - 2011-09-20 19:12 - Mr. Hudson**

Patch set 4 of change I8fb5d4f4be3649e2f6307f83af2f3bbaa2191b5b has been pushed to the review server. It is available at <http://review.typo3.org/5076>

**#16 - 2011-09-20 20:03 - Karsten Dambekalns**

- Status changed from Under Review to Resolved

- % Done changed from 30 to 100