

TYPO3 Core - Bug #88973

ext:seo does not work for complex extbase routeenhancers

2019-08-18 12:48 - Pascal Querner

Status:	Rejected	Start date:	2019-08-18
Priority:	Won't have this time	Due date:	
Assignee:		% Done:	0%
Category:	SEO	Estimated time:	0.00 hour
Target version:		Complexity:	
TYPO3 Version:	9	Is Regression:	
PHP Version:	7.2	Sprint Focus:	
Tags:			

Description

This issue is partially related to <https://forge.typo3.org/issues/87016>

However, I am creating a new issue because its missing that the complex routeEnhancers do not work, when you use a field (like year) which results from a data row you can not simple fetch from the database (instead is fetched from crdate field, which must be converted from timestamp to year only)

My proposed change was <https://review.typo3.org/c/Packages/TYPO3\CMS/+61505>

However, as Andreas Fernandez said in the code review, this opens the application to execute any functions which are programmed into the typoscript snippet.

Question now is, since its security related, how do we handle this?

I could make the PR read out an additional (GLOBALS) array which contains valid function names to be used, but that would only shift the issue to a new place imho. An attacker can modify that array and still use everything he wanted.

However, an attacker can do anything with typoscript, access, and php anyway.

Why is this needed anyway?

The easiest example I can think of, is the usage of ext:news. In this, you can routeEnhancer your URLs to contain the year/month/date values. You must set "hrdate" to "1" in the ts of ext:news for the extensions viewhelper to produce such URLs in the frontend (to include the GET parameters for month, year and date).

If you have that, ext:seo typoscript is unable to parse, or add that to the GET parameters for typoLink to build the URL properly.

Why?

Because month/date/year is build not from a column found in the database row. Instead its build from the "crdate" (timestamp) and formatted to only contain the month. Because /seo/Classes/XmlSitemap/RecordsXmlSitemapDataProvider.php is only able to fetch column data, but not perform any logic on it, I proposed the change previously mentioned.

Snippets:

RouteEnhancer config which will enhance ext:news URI to be year/month/date/newstitle

```
News:
  type: Extbase
  extension: News
  plugin: Pil
  routes:
    -
      routePath: '/{tag-name}'
      _controller: 'Tag::show'
      _arguments:
        tag-name: tag
      requirements:
        tag-name: '^[a-zA-Z0-9].*$'
    -
      routePath: '/page-{page}'
      _controller: 'News::list'
      _arguments:
        page: '@widget_0/currentPage'
      requirements:
        page: \d+
```

```

-
  routePath: '/{date-year}/{date-month}/{date-day}/{news-title}'
  _controller: 'News::detail'
  _arguments:
    news-title: news
    date-month: month
    date-year: year
    date-day: day
-
  routePath: '/{date-year}'
  _controller: 'News::list'
  _arguments:
    date-month: overwriteDemand/month
    date-year: overwriteDemand/year
    page: '@widget_0/currentPage'
  requirements:
    date-year: \d+
-
  routePath: '/{date-year}/page-{page}'
  _controller: 'News::list'
  _arguments:
    date-year: overwriteDemand/year
    page: '@widget_0/currentPage'
  requirements:
    date-year: \d+
    page: \d+
-
  routePath: '/{date-year}/{date-month}'
  _controller: 'News::list'
  _arguments:
    date-month: overwriteDemand/month
    date-year: overwriteDemand/year
    page: '@widget_0/currentPage'
  requirements:
    date-month: \d+
    date-year: \d+
-
  routePath: '/{date-year}/{date-month}/page-{page}'
  _controller: 'News::list'
  _arguments:
    date-month: overwriteDemand/month
    date-year: overwriteDemand/year
    page: '@widget_0/currentPage'
  requirements:
    date-month: \d+
    date-year: \d+
    page: \d+
defaultController: 'News::list'
defaults:
  page: '0'
  date-month: ''
  date-year: ''
aspects:
  news-title:
    type: PersistedAliasMapper
    tableName: tx_news_domain_model_news
    routeFieldName: path_segment
  tag-name:
    type: PersistedAliasMapper
    tableName: tx_news_domain_model_tag
    routeFieldName: slug
  page:
    type: StaticRangeMapper
    start: '1'
    end: '25'
  date-month:
    type: StaticValueMapper

```

```

map:
  januar: '1'
  februar: '2'
  maerz: '3'
  april: '4'
  mai: '5'
  juni: '6'
  juli: '7'
  august: '8'
  september: '9'
  oktober: '10'
  november: '11'
  dezember: '12'
date-year:
  type: StaticRangeMapper
  start: '2019'
  end: '2030'
date-day:
  type: StaticRangeMapper
  start: '01'
  end: '31'

```

Proposed TS code for ext:seo to make the proposed PR work:

```

plugin.tx_seo.config {
  xmlSitemap {
    sitemaps {
      news {
        provider = TYPO3\CMS\Seo\XmlSitemap\RecordsXmlSitemapDataProvider
        config {
          table = tx_news_domain_model_news
          additionalWhere =
          sortField = sorting
          lastModifiedField = tstamp
          pid = 26
          recursive = 2
          url {
            pageId = 25
            fieldToParameterMap {
              uid = tx_news_pil[news]
            }

            fieldToParameterMapDynamic {
              day {
                field = crdate
                func = strftime
                param = %e
                as = tx_news_pil[day]
              }
              month {
                field = crdate
                func = strftime
                param = %-m
                as = tx_news_pil[month]
              }
              year {
                field = crdate
                func = strftime
                param = %Y
                as = tx_news_pil[year]
              }
            }
          }
        }
      }
    }
  }
  additionalGetParameters {
    tx_news_pil.controller = News
    tx_news_pil.action = detail
  }
}

```

```
}  
  
        useCacheHash = 1  
    }  
}  
}  
}  
}  
}
```

History

#1 - 2019-08-18 13:00 - Georg Ringer

- Status changed from *New* to *Needs Feedback*

Thanks for creating this issue. IMO there are 2 things which are important:

1st: It is not about the route enhancers but about providing the proper arguments to the link building

2nd: Why not just create your own sitemap provider? I don't like that the core must have a configurable solution for everything as this just increases the complexity while it can be very easily solveable with a custom provider. EXT:news will also ship a custom provider to support the custom configuration.

so what you think?

#2 - 2019-08-18 13:32 - Pascal Querner

- Priority changed from *Should have* to *Won't have this time*

1) You are correct

2) After talking to you on Slack you made me realize and accept that custom providers are the best use for this. As you pointed out in Slack the recordxmlfetcher isnt part of public API.

Georg in the meantime provided his custom record provider for ext:news with the wanted functionality.

<https://github.com/georgringer/news/commit/f5fd8def68505c65236fe4703f6b7d255f970a55>

Therefore I vote closing this issue. I will also abandon (=close) the proposed PR mentioned in the first post.

Thanks all who helped here specially Georg and Andreas. :)

~Pascal

#3 - 2019-08-18 13:34 - Georg Ringer

- Status changed from *Needs Feedback* to *Rejected*