



Creating Link to Detail XSLT Function

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1 Introduction

This guide presents explanation illustrated with screenshots and code samples on how to create XSLT functions for a link and detail overview of datatype elements (for example, News items or any other type).

Learning topics in this document are:

- Creating an XSLT function
- Using CMS functions instead of programming
- Using CMS functions within CMS functions
- Creating an input parameter filter
- Getting data from a query string

In this example (specifically, for the NewsDetail function), you will see how to create a complex function in C1 CMS using other functions. The NewsDetail function is a more complex part of this job. It is complex but also very interesting because, we will create a filter without actual programming, by using an input parameter!

A .NET developer would probably say: "I can do that easier with a few lines of code". True, but what is easy relates directly to your skills.

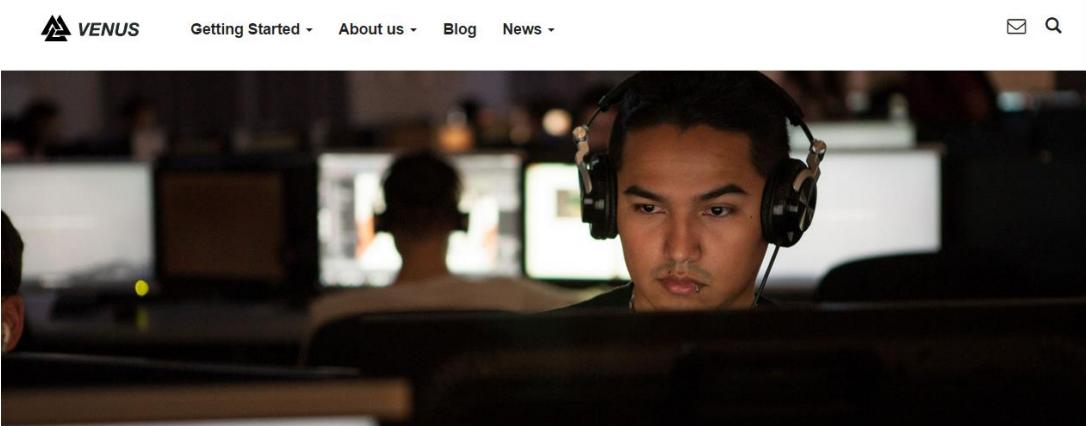
Note: We will do things manually in this example to learn from it. But it is also available as an add-on, so with the deployment wizard, this can all be installed in one go.

Important: In Composite C1 (now C1 CMS) version 5.0 or later, you can quickly build list-to-detail views for a data type by creating a CMS function with a parameter of the RoutedData<T> type. [Please see Data URL Routing for more information.](#)

2 The Pages

We will make an ad-hoc “news archive” page, e.g: <http://www.contoso.com/NewsArchive>

(Make sure to replace the server name and port as well as the page name with your own.)



The screenshot shows a web page titled "News Archive". On the left, there's a sidebar with "Details" and "Archive" buttons. The "Archive" button is highlighted in green. The main content area displays a list of news items categorized by section: Business, World, and Sports. Each category has a list of dates and links. For example, under "Business", there are links for "Monday, 30 April 2012" and "Tuesday, 01 May 2012". Under "Sports", there are links for "Wednesday, 16 May 2012" and "Run for Gold".

Figure 1: The News Archive page

When calling the **NewsArchive** function, you can see that its parameter (**NewsDetailsPage**) points to the “news details” page (via its ID).

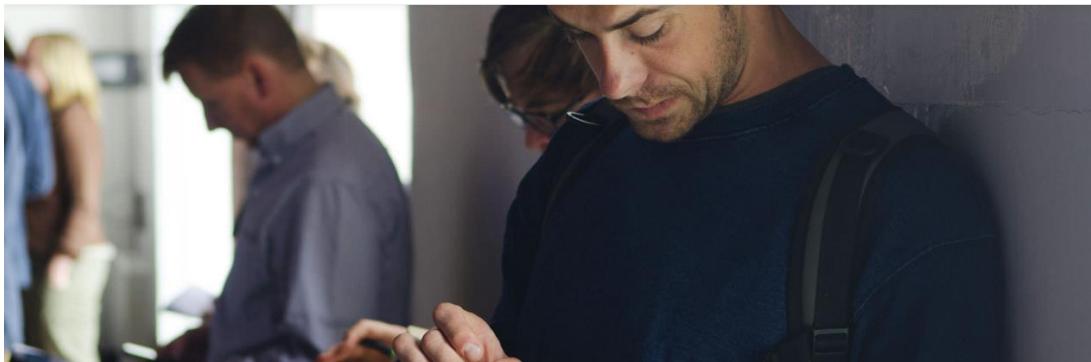
```
<f:function name="Samples.News.NewsArchive"
  xmlns:f="http://www.composite.net/ns/function/1.0">
  <f:param name="NewsDetailsPage" value="4bab5861-9a34-478a-828c-
    f75dcda8729" />
</f:function>
```

Listing 1: Calling the NewsArchive function

Click the link for the news details - and the “news details” page will open as similar to:

<http://www.contoso.com/NewsDetails?NewsID=e18873b2-0e0b-4041-92b6-4913892ac3bd&News=Higher%20interest%20rates>

(Make sure to replace the server name and port as well as the page name with your own.)



Monday, 30 April 2012

Higher Interest Rates

There's a growing sense here on Wall Street that higher interest rates are just around the corner. Fueling that speculation -

Figure 2: The news details of one news element

On our “news details” page both functions are used: **NewDetails** and **NewsLatest**

```
<f:function name="Samples.News.NewsDetails"
xmlns:f="http://www.composite.net/ns/function/1.0" />
```

Listing 2: Calling the NewDetails function

```
<f:function name=" Samples.News.NewsLatest"
xmlns:f="http://www.composite.net/ns/function/1.0">
<f:param name="PageSize" value="5" />
<f:param name="NewsArchivePage" value="0c94fe9d-c1bf-467e-9918-
e7d4b8a4d3ea" />
<f:param name="NewsDetailsPage" value="4bab5861-9a34-478a-828c-
f75dcda8729" />
</f:function>
```

Listing 3: Calling the NewsLatest function

The **NewsLatest** function is almost the same as **NewsArchive** but now it lists a fixed number of articles per category (maximum 5 in this sample):

[Details](#)[Archive](#)

Latest News

- Business
 - Monday, 30 April 2012
[Higher Interest Rates](#)
 - Tuesday, 01 May 2012
[More Profit!](#)
- World
 - Sunday, 29 April 2012
[Run for Presidency](#)
- Sports
 - Wednesday, 16 May 2012
[Run for Gold](#)

[News Archive](#)

Figure 3: The “News Details” article with NewsLatest underneath

Yes, we need a nicer link for this, based on a title without spaces or the like.

So you have a link like this: <http://www.contoso.com/NewsArchive?Category=Business>

Note: You must avoid duplicate news titles for this to work nicely.

[Details](#)[Archive](#)

News Archive

- [Business](#)
 - Monday, 30 April 2012
[Higher Interest Rates](#)
 - Tuesday, 01 May 2012
[More Profit!](#)

Figure 4: Using the “Category” query string filter (done in XSLT in this case)

3 The Datatypes

Two datatypes must be present in C1 CMS for the News-related functions to work:

- “News Category” (Samples.News.Category)
- “News Item” (Samples.News.Item)

3.1 News Category

We also introduce some very simple metadata we will use to group our news articles - just one field name and some data for the “News Category” datatype.

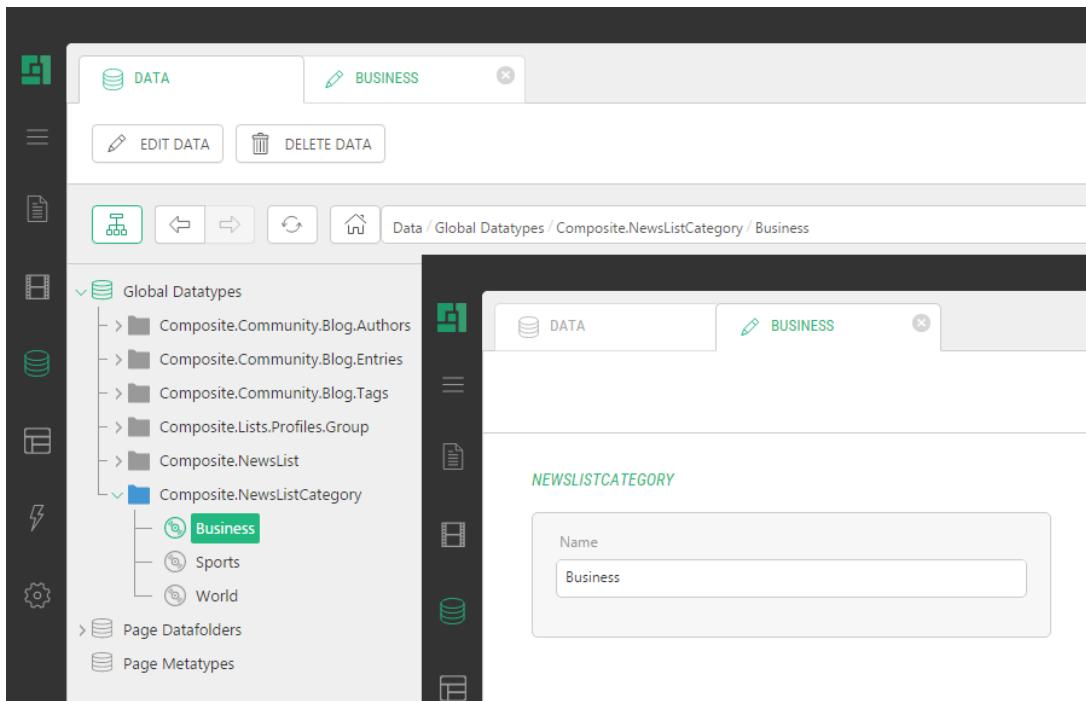


Figure 5: The News Category datatype

3.2 News Item

“News Item” is another simple datatype with some content, a date field and a field reference to our “News Category” datatype.

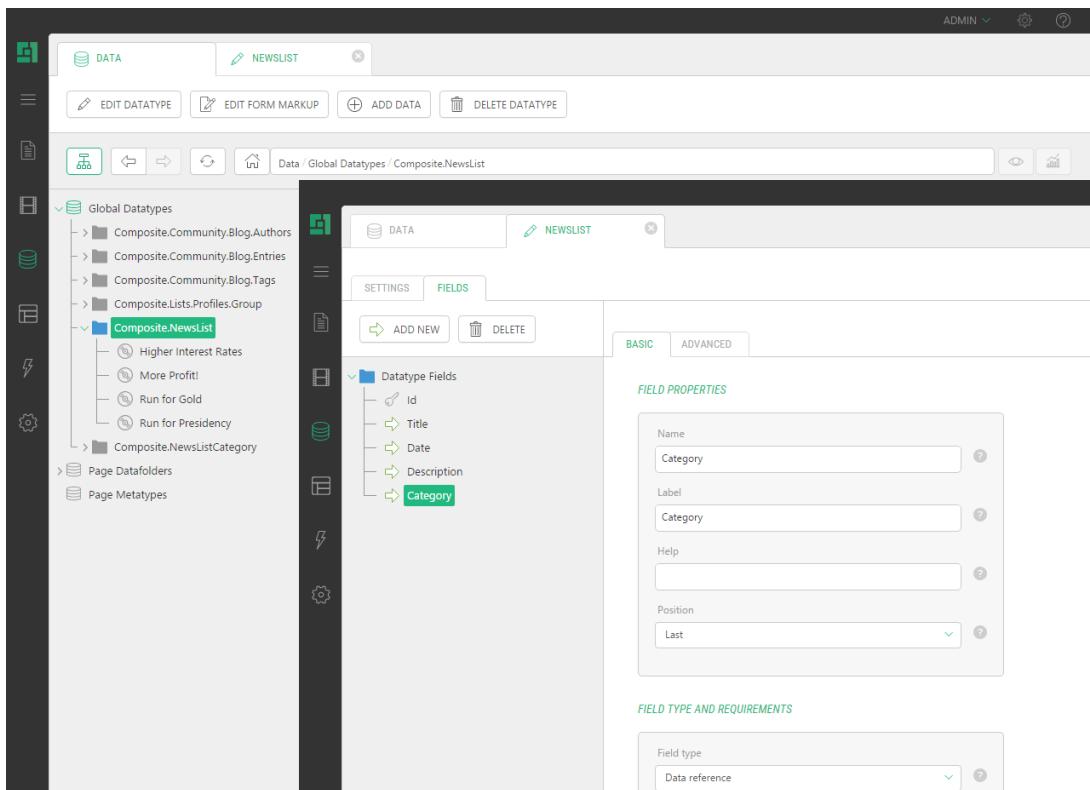


Figure 6: The News Item datatype

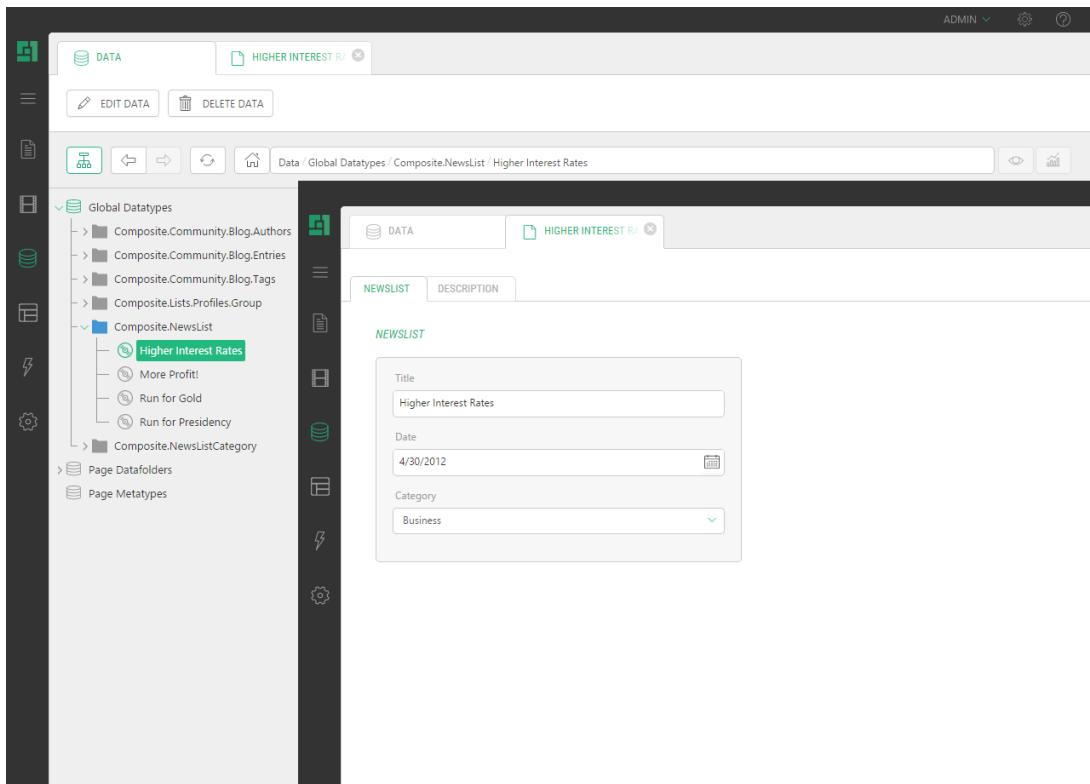


Figure 7: And some data for the News Item datatype

4 The Functions

We have three functions here. All the functions are XHTML-based. The NewsArchive and NewsLatest functions are very similar. NewsLatest has a little less functionality than NewsArchive.

So we'll focus on NewsArchive and NewsDetails. NewsDetails is the most complex but also the most interesting one to learn from.

4.1 NewsArchive

This function lists the news articles grouped by category. You can also specify which category you would like to see.

The function needs to return links to the “news details” page so here we have an input parameter called **NewsDetailsPage** which holds that URL.

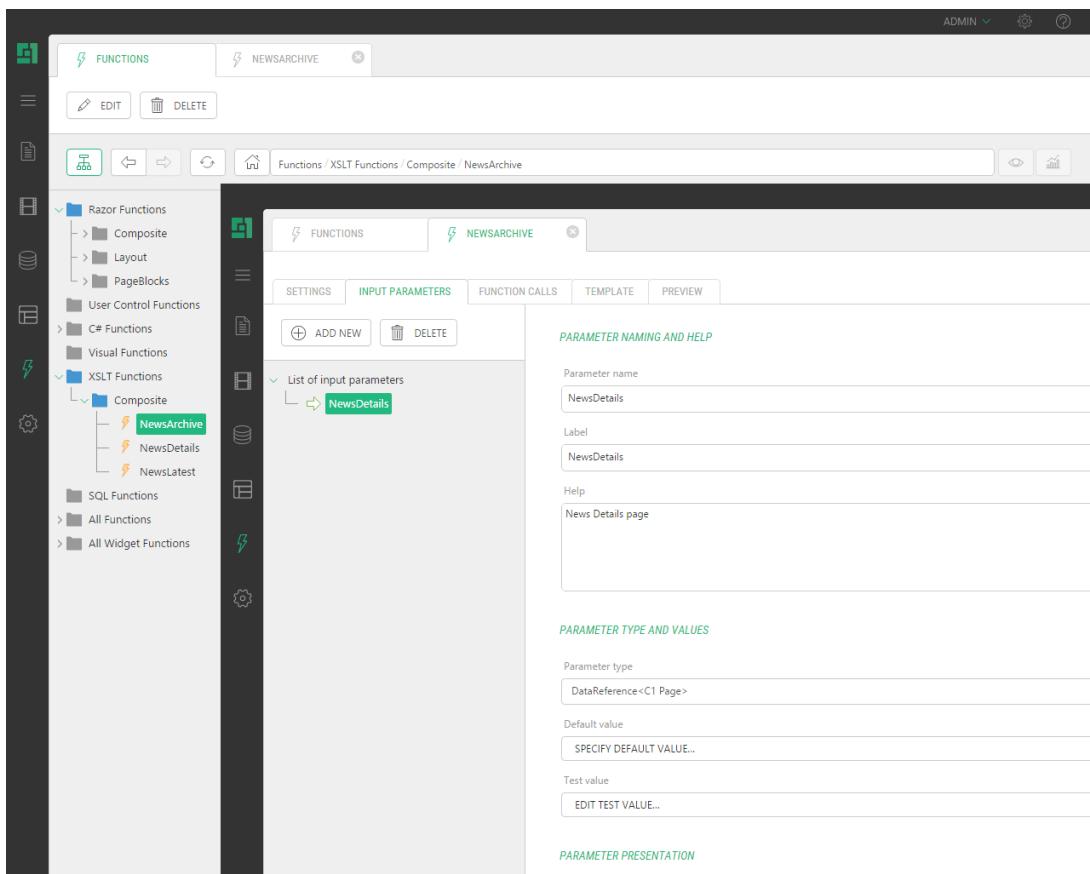


Figure 8: The NewsDetailsPage input parameter in NewsArchive

This function calls three other functions to:

- Get the news data (using the generated Get<Type>XML function)
- Get category data (using the generated Get<Type>XML function)
- Get the query string parameter to specify a category (optional)

It is pretty straightforward with the C1 CMS generated functions to get your data in XML.

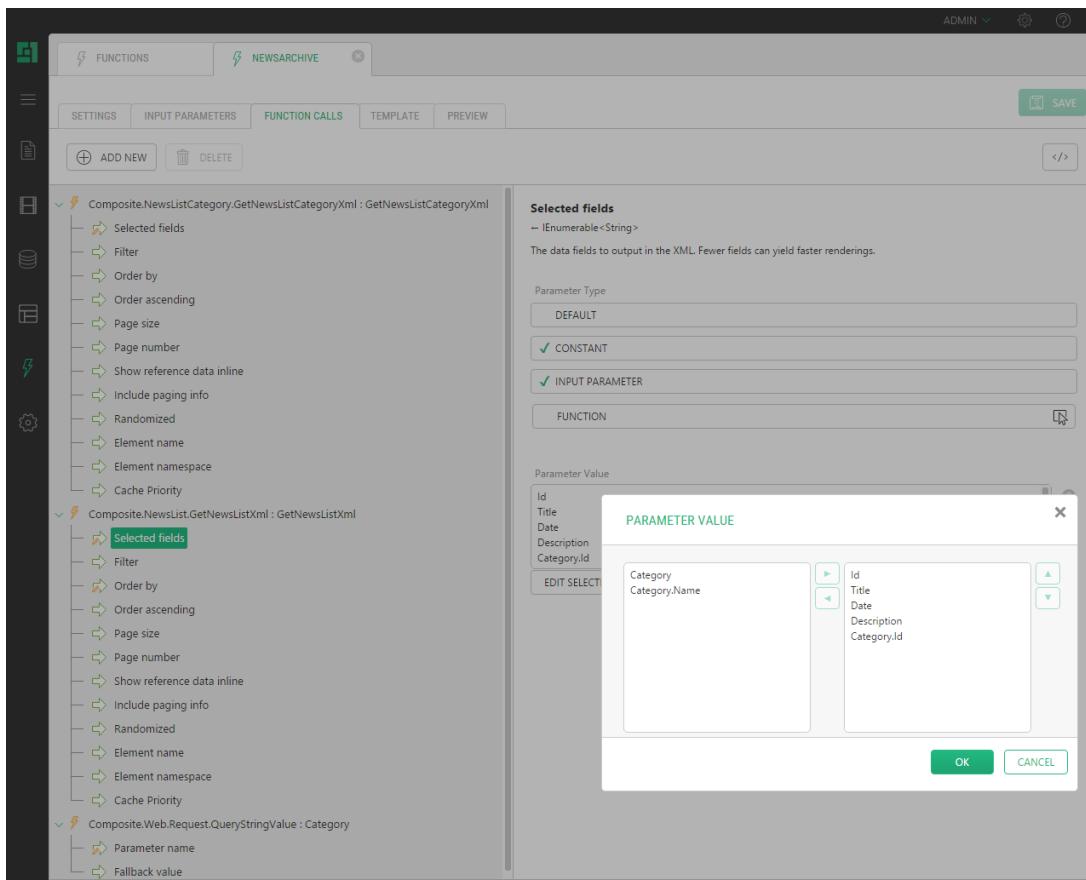


Figure 9: Getting fields in XML

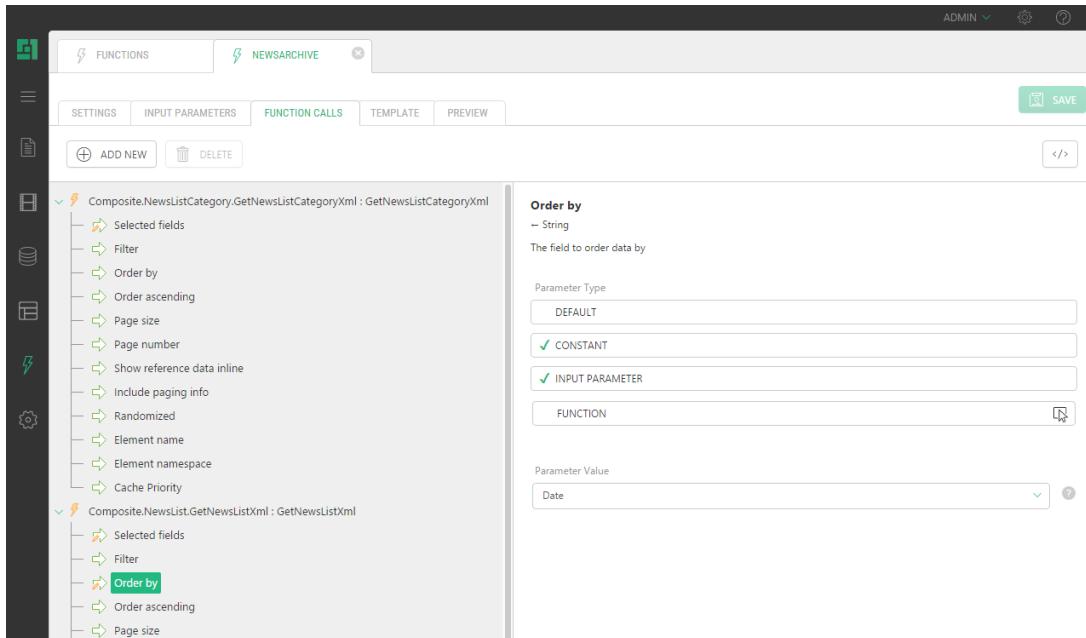


Figure 10: Sorting items by date

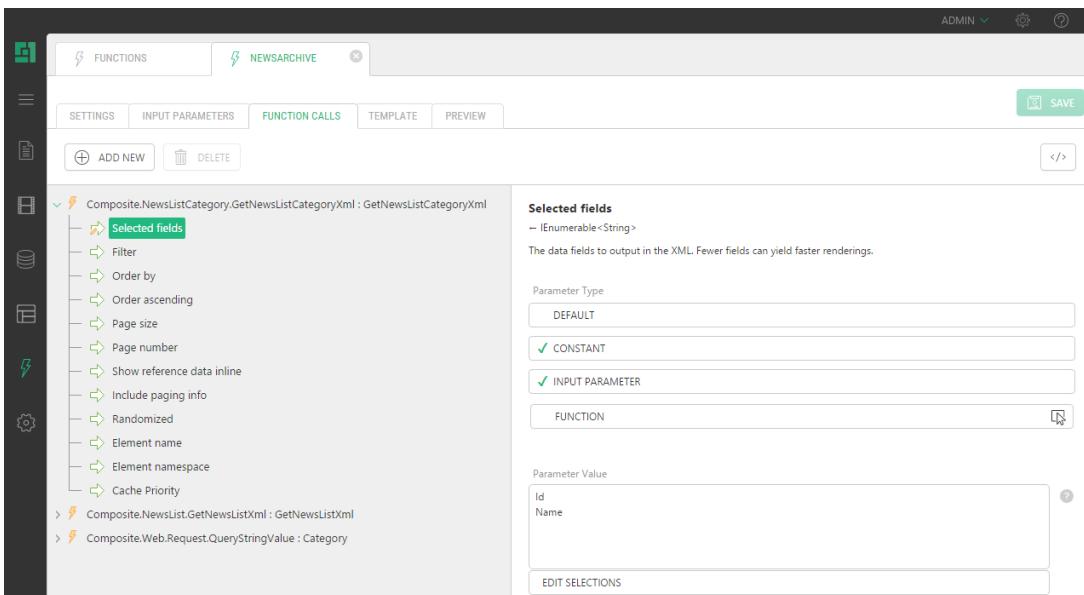


Figure 11: Getting the category data and fields

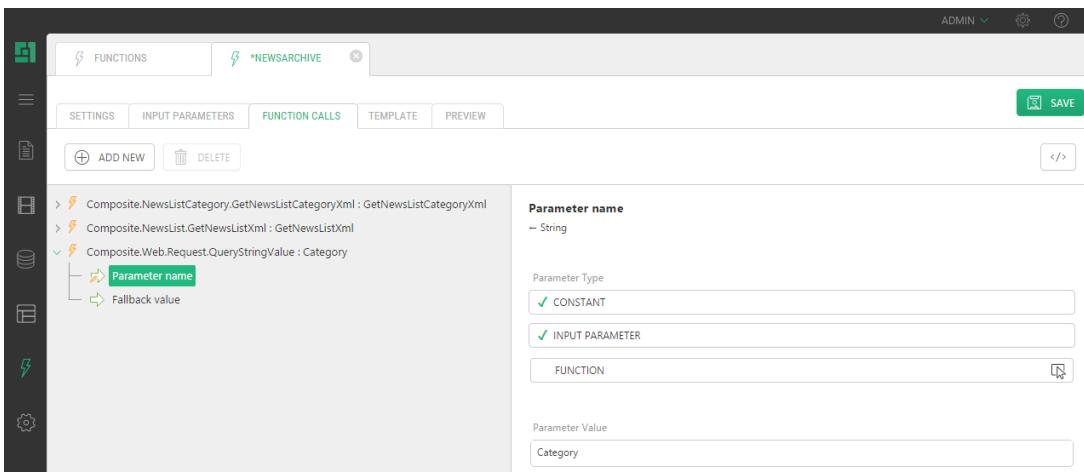


Figure 12: Getting the "?Category=Sport" value from the query string

The logic is implemented in XSLT.

Note: If you have a lot of categories and you filter them, it is better to use the filter on the GetItemXml function.

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform" exclude-result-
prefixes="xsl" in"
    xmlns:in="http://www.composite.net/ns/transformation/input/1.0"
    xmlns="http://www.w3.org/1999/xhtml"
    xmlns:msxsl="urn:schemas-microsoft-com:xslt"
    xmlns:user="urn:my-scripts"
    >

    <msxsl:script language="C#" implements-prefix="user">
        <![CDATA[
            public string FormatDate(DateTime Date)
            {
                return Date.ToString("dddd, dd MMMM yyyy");
            }
        ]]>
    </msxsl:script>
```

```

<xsl:param name="items" select="/in:inputs/in:result[@name='GetItemXml']"
/>
<xsl:param name="categories"
select="/in:inputs/in:result[@name='GetCategoryXml']" />
<xsl:param name="category"
select="/in:inputs/in:result[@name='Category']" />

<xsl:template match="/">
<html>
<head></head>
<body>
<div class="NewsLatest">
<ul>
<xsl:apply-templates mode="NewsCategory"
select="$categories/*[$category = '' or $category = @Name]">
</xsl:apply-templates>

</ul>
</div>
</body>
</html>
</xsl:template>
<xsl:template mode="NewsCategory" match="*">
<xsl:variable name="id" select="@Id" />
<li>
<a href="?Category={@Name}" class="NewsCategory" ><xsl:value-of
select="@Name" /></a>
<ul>
<xsl:apply-templates mode="NewsItem" select="$items/*[@Category.Id
= $id]">
<xsl:sort select="@Date" order="ascending"/>
</xsl:apply-templates>
</ul>
</li>
</xsl:template>

<xsl:template mode="NewsItem" match="*">
<li>
<xsl:if test="position() = 1" >
<xsl:attribute name="class" >First</xsl:attribute>
</xsl:if>
<xsl:if test="position() = last()" >
<xsl:attribute name="class" >Last</xsl:attribute>
</xsl:if>
<span class="NewsDate">
<xsl:value-of select="user:FormatDate(@Date)" />
</span><br/>
<span class="NewsTitle">
<a
href="~/page({/in:inputs/in:param[@name='NewsDetailsPage']})?NewsID={@Id}&a
mp;News={@Title}">
<xsl:value-of select="@Title"/>
</a>
</span>
</li>
</xsl:template>
</xsl:stylesheet>

```

Listing 4: The NewsArchive template code

```

<in:inputs xmlns:in="http://www.composite.net/ns/transformation/input/1.0">
    <!-- Input Parameters, XPath /in:inputs/in:param[@name='NewsDetails'] -->
    <in:param name="NewsDetails">bab5861-9a34-478a-828c-f75dcda8729</in:param>
    <!-- Function Call Result (0 ms), XPath /in:inputs/in:result[@name='GetNewsListCategoryXml']/NewsListCategory -->
    <in:result name="GetNewsListCategoryXml">
        <NewsListCategory Id="6e8f4de0-076d-4a64-a518-113833fd524e" Name="Business" xmlns="" />
        <NewsListCategory Id="8d1b5b5d-1088-474b-b582-0b53752e2a0f" Name="World" xmlns="" />
        <NewsListCategory Id="e5212a64-93e8-4f80-9c31-a22ab2b60c0d" Name="Sports" xmlns="" />
    </in:result>
    <!-- Function Call Result (0 ms), XPath /in:inputs/in:result[@name='GetNewsListXml']/NewsList -->
    <in:result name="GetNewsListXml">
        <NewsList Id="32ed4bae-6508-4b9e-87ce-25aae81628d6" Title="Run for Presidency" Date="2012-04-29T08:00:00+03:00" Description="&lt;html xmlns='http://www.w3.org/1999/xhtml'><head></head><body><div class='NewsLatest'><ul><li><a href=?Category=Business" class="NewsCategory">Business</a></li><li class="first"><span class="NewsDate">Monday, 30 April 2012</span><br/><span class="NewsTitle"><a href=~page(4bab5861-9a34-478a-828c-f75dcda8729)?NewsID=27d847b5-4c1-41f7-a73e-8fa7820ed723&#039;NewsHigher Interes</span></li><li class="last"><span class="NewsDate">Tuesday, 01 May 2012</span><br/><span class="NewsTitle"></span></ul></div></body></html>">
            <NewsList Id="27d847b5-4c1-41f7-a73e-8fa7820ed723" Title="Higher Interest Rates" Date="2012-04-30T00:00:00" Description="&lt;html xmlns='http://www.w3.org/1999/xhtml'><head></head><body><div class='NewsLatest'><ul><li><a href=?Category=Business" class="NewsCategory">Business</a></li><li class="first"><span class="NewsDate">Monday, 30 April 2012</span><br/><span class="NewsTitle"><a href=~page(4bab5861-9a34-478a-828c-f75dcda8729)?NewsID=27d847b5-4c1-41f7-a73e-8fa7820ed723&#039;NewsHigher Interes</span></li><li class="last"><span class="NewsDate">Tuesday, 01 May 2012</span><br/><span class="NewsTitle"></span></ul></div></body></html>">
                <NewsList Id="13aa95c0-0088-43bf-9e8a-28bb09d748" Title="More Profit!" Date="2012-05-01T08:00:00+03:00" Description="&lt;html xmlns='http://www.w3.org/1999/xhtml'><head></head><body><div class='NewsLatest'><ul><li><a href=?Category=Business" class="NewsCategory">Business</a></li><li class="first"><span class="NewsDate">Monday, 30 April 2012</span><br/><span class="NewsTitle"><a href=~page(4bab5861-9a34-478a-828c-f75dcda8729)?NewsID=27d847b5-4c1-41f7-a73e-8fa7820ed723&#039;NewsHigher Interes</span></li><li class="last"><span class="NewsDate">Tuesday, 01 May 2012</span><br/><span class="NewsTitle"></span></ul></div></body></html>">
                    <NewsList Id="abd36f92-fd49-4ce0-8e78-30c8bb370a83" Title="Run for Gold" Date="2012-05-16T08:00:00+03:00" Description="&lt;html xmlns='http://www.w3.org/1999/xhtml'><head></head><body><div class='NewsLatest'><ul><li><a href=?Category=Business" class="NewsCategory">Business</a></li><li class="first"><span class="NewsDate">Monday, 30 April 2012</span><br/><span class="NewsTitle"><a href=~page(4bab5861-9a34-478a-828c-f75dcda8729)?NewsID=27d847b5-4c1-41f7-a73e-8fa7820ed723&#039;NewsHigher Interes</span></li><li class="last"><span class="NewsDate">Tuesday, 01 May 2012</span><br/><span class="NewsTitle"></span></ul></div></body></html>">
                <NewsList Id="e5212a64-93e8-4f80-9c31-a22ab2b60c0d" Title="Sports" Date="2012-05-16T08:00:00+03:00" Description="&lt;html xmlns='http://www.w3.org/1999/xhtml'><head></head><body><div class='NewsLatest'><ul><li><a href=?Category=Sports" class="NewsCategory">Sports</a></li><li class="first"><span class="NewsDate">Monday, 30 April 2012</span><br/><span class="NewsTitle"><a href=~page(4bab5861-9a34-478a-828c-f75dcda8729)?NewsID=27d847b5-4c1-41f7-a73e-8fa7820ed723&#039;NewsSports</span></li><li class="last"><span class="NewsDate">Tuesday, 01 May 2012</span><br/><span class="NewsTitle"></span></ul></div></body></html>">
            </NewsList>
        </in:result>
    </in:results>
    <!-- Function Call Result (0 ms), XPath /in:inputs/in:result[@name='Category'] -->
    <in:result name="Category"/>

```

Figure 13: Previewing the function

4.2 NewsDetails

This is one of the most interesting parts. We will need filtering and do that using CMS functions. And no programming at all!

We want to get a news article so that we use the Get<Type>XML function to get the XML for our news article and specify which fields we want to retrieve to build our news details:

Figure 14: Selected fields

But we don't want all articles. We only want a specific item, which we specify by using the query string's news ID. So we will filter to only get that specific News Item element instead of getting all of them

The filter expects the expression function <Func<News Item,Boolean>>.

Basically this expression walks along all the News Item items, evaluates the News Item data and returns a Boolean to say if it passes the filter's True / False.

We can build such an expression using an input parameter.

After we have built the expression, we need to indicate that we want to use that input parameter by specifying its name. We will call it "Filter" (see the text below the following screenshot). When you set up the "Filter" parameter (see below), you will be able to switch to the Input Parameter type and select the input parameter:

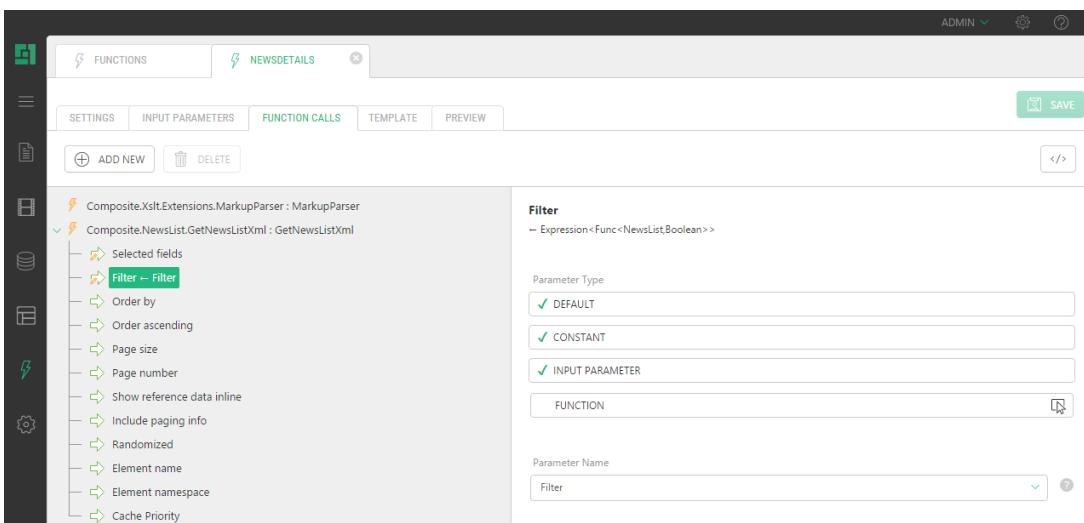


Figure 15: Naming the input parameter

4.2.1 Building a filter expression using an input parameter

So now we need to make an expression function <func<News Item,Boolean>> (also called a predicate function in .NET), which will be used as our filter in the GetItemXml function.

We need to give it a name. (In the previous section, we decided to call this input parameter "Filter").

In the parameter type, select the Expression<Func<News Item,Boolean>>.

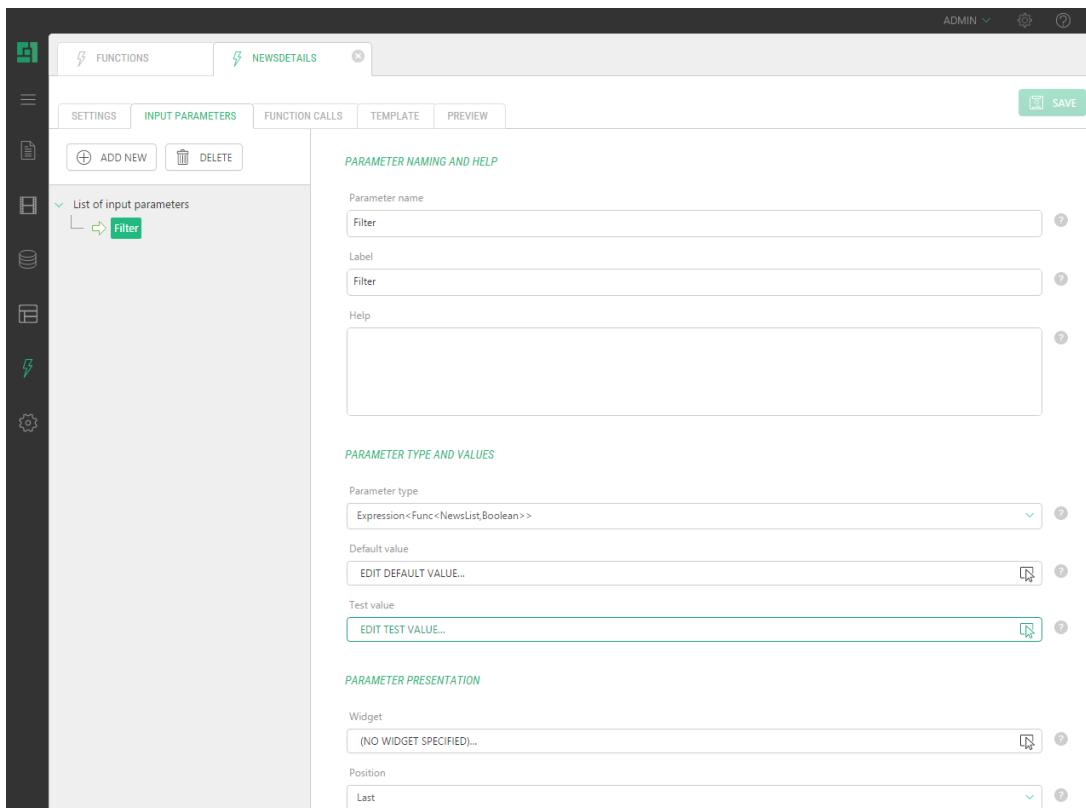


Figure 16: The input parameter expression

We will filter on a specific ID using a GUID.

We make a complex function call and take the GUID from the query string's NewsID:

1. For the default value, call News Item's GetPredicatesFilter function.
2. For its IdFilter parameter, call Composite.Utils.Predicates.GuidEquals.
3. For its Value to compare with parameter, call
Composite.Web.Request.QueryStringGuidValue and set its Parameter name to "NewsID".

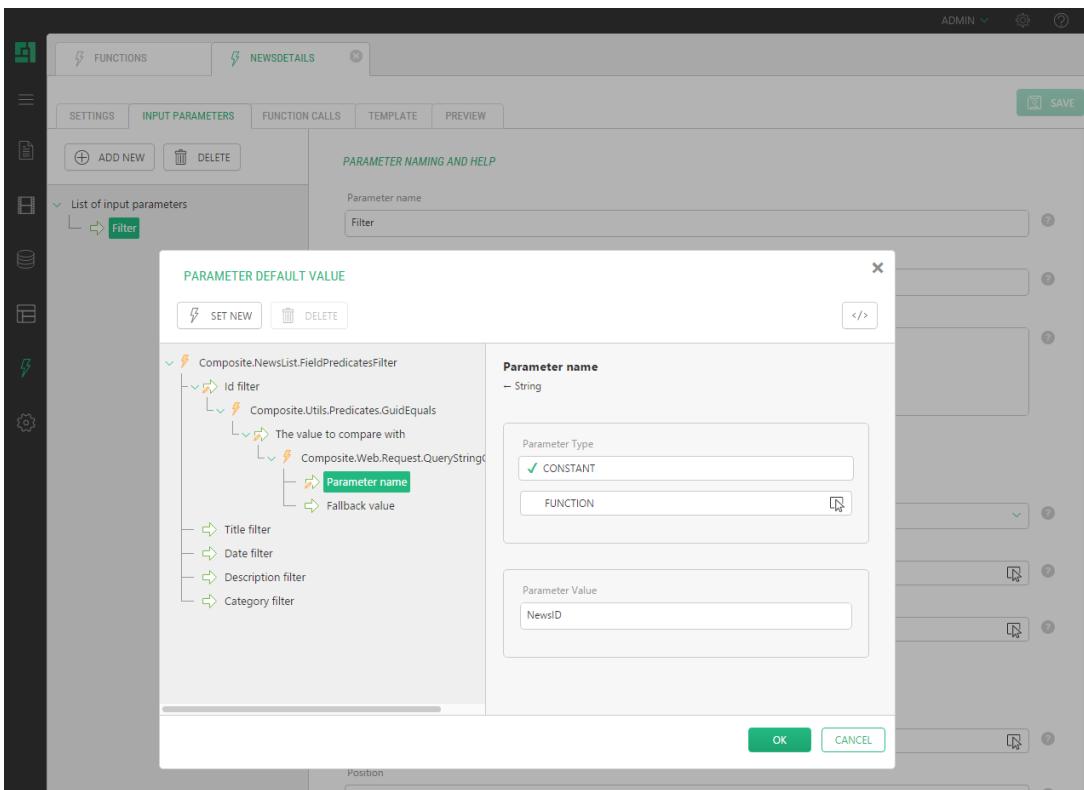


Figure 17: Editing the default value to filter on an ID and using NewsID from the query string

So this is where you could decide not to use the GUID but rather filter on the title (or an extra “no spaces” title field) and get a string from the query string.

That was almost it. We still need the XSLT to create our detailed page out of the XML.

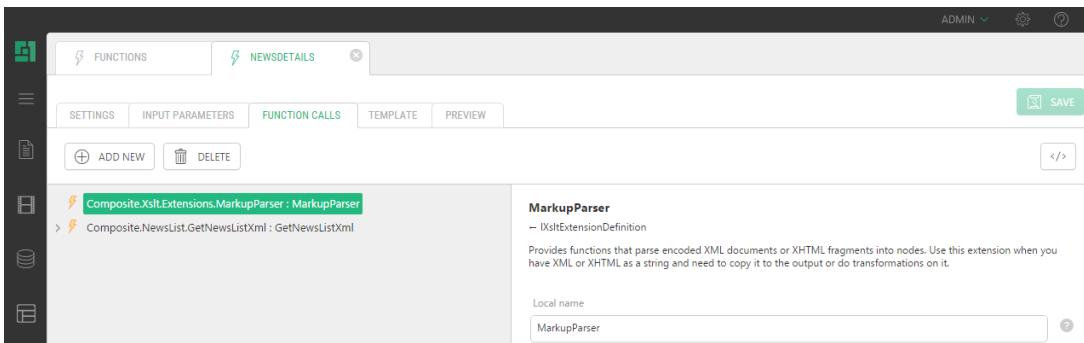


Figure 18: XSLT extension

In our XSLT, we will use an XSLT extension: `xmlns:mp="#MarkupParserExtensions"` - to parse the HTML from the news article body:

```
<div class="NewsDescription">
  <xsl:copy-of select="mp:ParseXhtmlBodyFragment(@Description)"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"/>
</div>
```

Listing 5: Using the ParseXhtmlBodyFragment markup parser extension

We will also use XSLT to render the news details:

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform" exclude-result-
  prefixes="xsl in"
```

```

xmlns:in="http://www.composite.net/ns/transformation/input/1.0"
xmlns="http://www.w3.org/1999/xhtml"
xmlns:msxsl="urn:schemas-microsoft-com:xslt"
xmlns:user="urn:my-scripts"
xmlns:mp="#MarkupParserExtensions"
>

<msxsl:script language="C#" implements-prefix="user">
<![CDATA[
    public string FormatDate(DateTime Date)
    {
        return Date.ToString("dddd, dd MMMM yyyy");
    }
]]>
</msxsl:script>

<xsl:template match="/">
    <html>
        <head>
        </head>
        <body>
            <div class="NewsDetails">
                <xsl:apply-templates mode="NewsItem"
select="/in:inputs/in:result[@name='GetItemXml']/*"></xsl:apply-templates>
                    </div>
            </body>
        </html>
    </xsl:template>
    <xsl:template mode="NewsItem" match="*">
        <div class="NewsItem">
            <div class="NewsDate">
                <xsl:value-of
select="user:FormatDate(@Date)"/>
            </div>
            <div class="NewsTitle">
                <xsl:value-of select="@Title"/>
            </div>
            <div class="NewsDescription">
                <xsl:copy-of
select="mp:ParseXhtmlBodyFragment(@Description)"/>
            </div>
        </div>
    </xsl:template>
</xsl:stylesheet>

```

Listing 6: NewsDetails

Note: You might want to specify a GUID as a test value so that you could preview your function. In our case, there is nothing to preview since our current filter returns no valid element.

The screenshot shows the C1 CMS interface for previewing a XSLT function. The top navigation bar includes 'ADMIN', a gear icon, and a help icon. The left sidebar has icons for 'FUNCTIONS' (selected), 'NEWSDETAILS' (highlighted in green), and other system functions like 'INPUT PARAMETERS', 'FUNCTION CALLS', 'TEMPLATE', and 'PREVIEW'. The main area is titled 'Input' and contains the XSLT code:

```

<in:inputs xmlns:in="http://www.composite.net/ns/transformation/input/1.0">
  <!-- Input Parameters, XPath /in:inputs/in:param[@name='Filter'] -->
  <in:param name="Filter">data => (data.Id == 0000000-0000-0000-00000000000) /in:param>
  <!-- Function Call Result (0 ms), XPath /in:inputs/in:result[@name='GetNewsListXml'] -->
  <in:result name="GetNewsListXml"/>
  <!-- Function call result 'MarkupParser' has been registered as an Xslt Extension Object. -->
  <!-- Extension methods can be called using the namespace '#MarkupParserExtensions'. -->
  <!-- The following methods exist: -->
  <!-- XPathNavigator ns:ParseWellformedDocumentMarkup(String wellformedMarkupString) -->
  <!-- XPathNavigator ns:ParseXhtmlBodyFragment(String xhtmlBodyFragmentString) -->
</in:inputs>

```

The 'Output' section shows the generated HTML code:

```

<html xmlns="http://www.w3.org/1999/xhtml">
  <head/>
  <body>
    <div class="NewsDetails"/>
  </body>
</html>

```

At the bottom, a status bar indicates: 'Execution times: Total 1 ms. Functions: 0 ms. XSLT: 1 ms.'

Figure 19: Previewing the function

4.3 NewsLatest

This function is similar to the NewsArchive function, except that it shows a fixed maximum number of articles per category.

VENUS

Getting Started ▾ About us ▾ Blog News ▾

✉️ 🔎

Latest News

- Business
 - Tuesday, 01 May 2012 [More Profit!](#)
- World
 - Sunday, 29 April 2012 [Run for Presidency](#)
- Sports
 - Wednesday, 16 May 2012 [Run for Gold](#)

[News Archive](#)

Figure 20: NewLatest with the PageSize parameter set to 1 (1 news in each category)

FUNCTIONS NEWSLATEST

ADMIN 🔎 ?

SETTINGS INPUT PARAMETERS FUNCTION CALLS TEMPLATE PREVIEW

SAVE

PARAMETER NAMING AND HELP

Parameter name: PageSize

Label: PageSize

Help: The number of news to show in a category.

PARAMETER TYPE AND VALUES

Parameter type: String

Default value: SPECIFY DEFAULT VALUE...

Test value: SPECIFY TEST VALUE...

PARAMETER PRESENTATION

Widget: TEXTBOX...

Position:

Figure 21: The PageSize parameter and parameters for hyperlinks

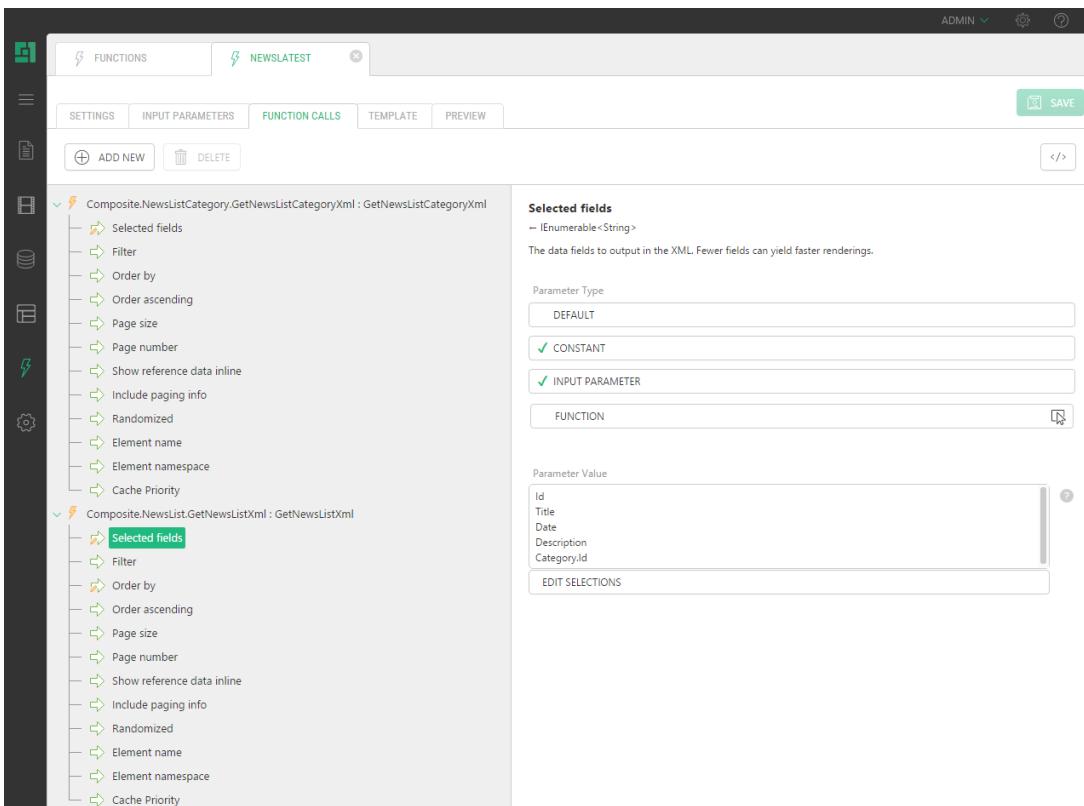


Figure 22: Nothing really new here

It is the XSLT that takes care of the counting.

Note: There is no filter in here. If you have loads of news items, this might give the performance you want. In such a case, it would be better to use a filter on the GetItemXml to limit the total number of XML items to work with.

The problem is that if you want 5 items per category and you have 3 categories, you don't know how many news items you need to retrieve to fill each category up to 5 items.

You could filter on a date. You could use the page size (for example, 25, and hopefully you get enough variation in category news items in there). You could also do it perfectly and filter on the Category and PageSize with your amount but then you will have to add a function for each list.

You should work it out. Only keep in mind that this sample is not what you want to use on something like 1000 news items without changes.

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform" exclude-result-
prefixes="xsl in"
    xmlns:in="http://www.composite.net/ns/transformation/input/1.0"
    xmlns="http://www.w3.org/1999/xhtml"
    xmlns:msxsl="urn:schemas-microsoft-com:xslt"
    xmlns:user="urn:my-scripts"
>

<msxsl:script language="C#" implements-prefix="user">

    <![CDATA[
        public string FormatDate(DateTime Date)
        {
            return Date.ToString("dddd, dd MMMM yyyy");
        }
    ]]>

```

```

]]>

</msxsl:script>

<xsl:param name="items" select="/in:inputs/in:result[@name='GetItemXml']"
/>
<xsl:param name="categories"
select="/in:inputs/in:result[@name='GetCategoryXml']" />
<xsl:param name="pagesize" select="/in:inputs/in:param[@name='PageSize']"
/>
<xsl:template match="/">
<html>
<head>
<!-- markup placed here will be shown in the head section of the
rendered page --&gt;
&lt;/head&gt;
&lt;body&gt;
&lt;div class="NewsLatest"&gt;
&lt;ul&gt;
&lt;xsl:apply-templates mode="NewsCategory"
select="$categories/*"&gt;
&lt;/xsl:apply-templates&gt;

&lt;/ul&gt;
&lt;a href="~/page({/in:inputs/in:param[@name='NewsArchivePage']})"&gt;
    News Archive
&lt;/a&gt;
&lt;/div&gt;
&lt;/body&gt;
&lt;/html&gt;
&lt;/xsl:template&gt;
&lt;xsl:template mode="NewsCategory" match="*"&gt;
&lt;xsl:variable name="id" select="@Id" /&gt;
&lt;li&gt;
&lt;xsl:value-of select="@Name" /&gt;
&lt;ul&gt;
&lt;xsl:apply-templates mode="NewsItem" select="$items/*[@Category.Id
= $id][position() &amp;gt; count($items/*[@Category.Id = $id]) - $pagesize]"&gt;
&lt;xsl:sort select="@Date" order="ascending"/&gt;
&lt;/xsl:apply-templates&gt;
&lt;/ul&gt;
&lt;/li&gt;
&lt;/xsl:template&gt;

&lt;xsl:template mode="NewsItem" match="*"&gt;
&lt;li&gt;
&lt;xsl:if test="position() = 1" &gt;
    &lt;xsl:attribute name="class" &gt;First&lt;/xsl:attribute&gt;
&lt;/xsl:if&gt;
&lt;xsl:if test="position() = last()" &gt;
    &lt;xsl:attribute name="class" &gt;Last&lt;/xsl:attribute&gt;
&lt;/xsl:if&gt;
&lt;span class="NewsDate"&gt;
    &lt;xsl:value-of select="user:FormatDate(@Date)" /&gt;
&lt;/span&gt;&lt;br/&gt;
&lt;span class="NewsTitle"&gt;
    &lt;a
href="~/page({/in:inputs/in:param[@name='NewsDetailsPage']})?NewsID={@Id}&amp;a
mp;News={@Title}"&gt;
        &lt;xsl:value-of select="@Title"/&gt;
    &lt;/a&gt;
&lt;/span&gt;
&lt;/li&gt;
&lt;/xsl:template&gt;
&lt;/xsl:stylesheet&gt;
</pre>

```

Listing 7: The NewsLatest template code