If you have pages that are organized in categories, you can display a list of categories that each page belongs to. You need to write a transformation method for displaying a list of categories assigned to a given page.

Displaying page categories using a custom transformation function

1. Open your web project in Visual Studio.

   > **Note**: If you have already extended the **CMSTransformation** partial class when defining other transformation methods, you can add the method for displaying categories there without creating a new class.

2. Create a new folder under the **App_Code** folder (or **Old_App_Code** on web application installations) and name it *CustomTransformationMethods*.
3. Right-click the folder and select **Add -> Add new Item**.
4. Create a new **Class** and name it **CMSTransformation.cs**.
5. Remove the default content of the class and enter the following code:

```
using System;

using CMS.DocumentEngine;
using CMS.Taxonomy;
using CMS.Helpers;

namespace CMS.DocumentEngine.Web.UI
{
        /// <summary>
        /// Extends the CMSTransformation partial class.
        /// </summary>
        public partial class CMSTransformation
        {
                public string GetDocumentCategories(int documentId, string
documentListAliasPath)
                {
                        if (documentId < 1)
                        {
                                throw new Exception("Invalid document ID");
                        }

                        // Uses the current page's alias path if one is not
specified for the category list page
                        if (documentListAliasPath == null)
                        {
                                documentListAliasPath = DocumentContext.
CurrentAliasPath;
                        }

                        // Initializes the HTML code result
                        string result = "";

                        // Gets the categories of the specified page
                        var categories = DocumentCategoryInfoProvider.
GetDocumentCategories(documentId)

.Columns("CMS_Category.CategoryID, CategoryDisplayName");

                        foreach (CategoryInfo category in categories)
                        {
                                // Constructs links for the assigned categories
                                // The links lead to a page containing a list of
pages that belong to the same category, with the category ID in the query string
                                int categoryId = category.CategoryID;
                                string categoryName = category.
CategoryDisplayName;

                                result += "<a href=\"" + URLHelper.ResolveUrl
(DocumentURLProvider.GetUrl(documentListAliasPath));
                                result += "?category=" + categoryId;
                                result += "\">" + categoryName + "</a> ";
                        }

                        return result;
                }
    }
}
```

6. Save the class. **Build** the project if it is installed as a web application.
7. Call the method in the code of your transformation.

Example

```
<strong>Categories:</strong> <%# GetDocumentCategories(Eval<int>("DocumentID"),
null) %>
```

The method takes the following arguments:

- **int DocumentID** – the ID of the page whose categories you want to retrieve.
- **string DocumentListAliasPath** – path of the page that contains the list of pages (filtered according to the *category* query string parameter). If you set the argument to *null*, the method uses the current page.

If you view the output of the transformation, you will see the categories to which the displayed page belongs.