

C# Web - MVC

PRO - C# Web 1

DE HOGESCHOOL MET HET NETWERK

Hogeschool PXL – Elfde-Liniestraat 24 – B-3500 Hasselt www.pxl.be - www.pxl.be/facebook



Doel

- ASP.Net Core toepassing
 - MVC Web Application
 - TagHelper



ASP.NET CORE

MVC Web Application MVCTagHelper

- Models
 - Afdeling
 - Locatie
 - Land
- Data
 - TagHelperDbContext
- Packages
 - SQLServer
 - Tools



TagHelper

<u>Name</u>	<u>Description</u>
TagName	Get or Set the tag name for the output element.
Attributes	It returns a dictionary containing all the attributes of the output element.
Content	Used to set the contents of the output element.
PreElement	Used to insert Elements before the output element.
PostElement	Used to insert Elements after the output element.
PreContent	Used to insert contents into the output element before any existing content.
PostContent	Used to insert contents into the output element after any existing content.



TagHelper - ViewImports

```
    Views/_ViewImports.cshtml
    @using MVCTagHelper
    @using MVCTagHelper.Models
    @addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
    @addTagHelper *, MVCTagHelper
```

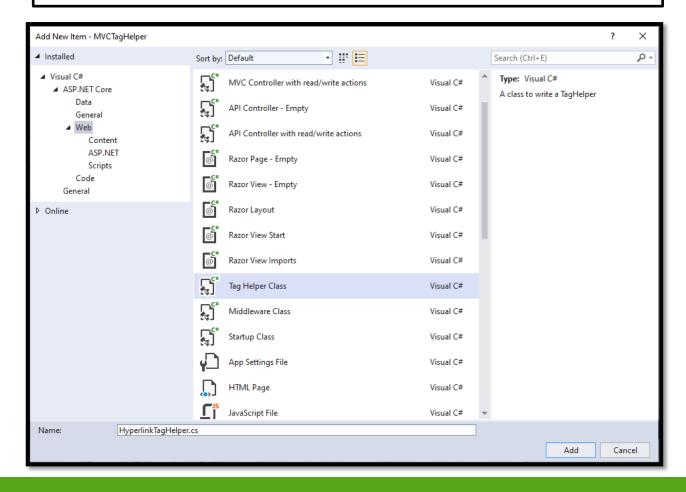
- Create Folder
 - TagHelpers
 - Create class
 - BoldTagHelper

```
namespace MVCTagHelper.TagHelpers
{
    // You may need to install the Microsoft.AspNetCore.Razor.Runtime package into
your project
    [HtmlTargetElement("bold")]
    public class BoldTagHelper : TagHelper
    {
        public override void Process(TagHelperContext context, TagHelperOutput output)
        {
            output.PreContent.SetHtmlContent("<b>");
            output.PostContent.SetHtmlContent("</b>");
        }
     }
}
```

Views/Home/Index



- Create taghelper
 - TagHelpers
 - HyperlinkTagHelper





HyperlinkTagHelper



- HyperlinkTagHelper
 - Views/Shared/_Layout.cshtml



PXL - MVC TagHelper

Landen Locaties Afdelingen

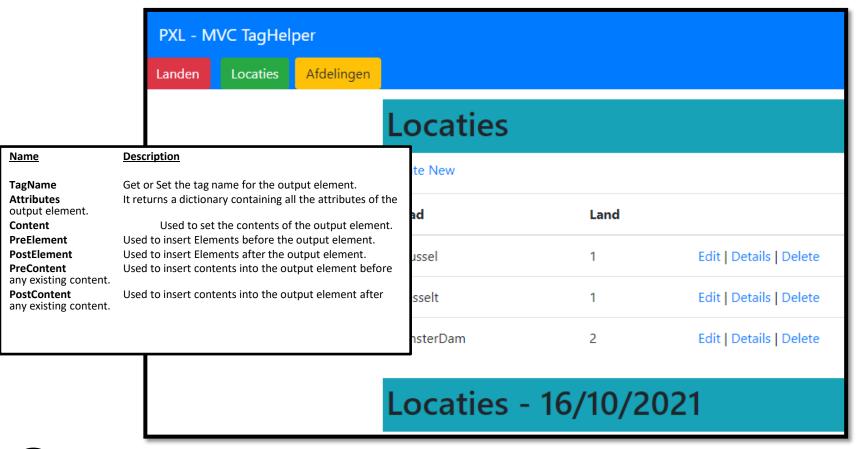
HyperlinkTagHelper

```
namespace MVCTagHelper.TagHelpers
     [HtmlTargetElement("a", Attributes = "background-color")]
    public class HyperlinkTagHelper : TagHelper
       public string BackgroundColor { get; set; } = "danger";
       public override void Process(TagHelperContext context,
TagHelperOutput output)
           output.Attributes.SetAttribute("class", $"btn btn-
{BackgroundColor}");
```

- HyperlinkTagHelper
 - Views/Shared/_Layout.cshtml



HeaderFooterTagHelper





HeaderFooterTagHelper

```
[HtmlTargetElement("div", Attributes = "header, footer")]
public class HeaderFooterTagHelper : TagHelper
    public string Header { get; set; }
    public string Footer { get; set; }
    public override void Process(TagHelperContext context, TagHelperOutput output)
        if (!string.IsNullOrEmpty(Header) | !string.IsNullOrEmpty(Footer))
            output.Attributes.SetAttribute("class", "m-1 p-1");
            if (!string.IsNullOrEmpty(Header))
                output.PreElement.SetHtmlContent(GetFormattedDiv(Header));
            if (!string.IsNullOrEmpty(Footer))
                output.PostElement.SetHtmlContent(GetFormattedDiv(Footer));
```

HeaderFooterTagHelper

```
private TagBuilder GetFormattedDiv(string content)
{
     TagBuilder title = new TagBuilder("h1");
     title.InnerHtml.Append(content);
     TagBuilder container = new TagBuilder("div");
     container.Attributes["class"] = "bg-info m-1 p-1";
     container.InnerHtml.AppendHtml(title);
     return container;
}
```

- HeaderFooterTagHelper
 - Views/Locaties/Index.cshtml

```
@{
    ViewData["Title"] = "Index";
    var header = "Locaties";
    var footer = $"Locaties - {DateTime.Now.ToString("dd/MM/yyyy")}";
<div header=@header footer=@footer>
    >
        <a asp-action="Create">Create New</a>
```

- AfdelingCardTagHelper
- Create Folder (project niveau)
 - ViewModels
 - Create class
 - AfdelingCard.cs



AfdelingCardTagHelper - AfdelingCard.cs

```
namespace MVCTagHelper.ViewModels
{
    public class AfdelingCard
        //TagHelperContext context;
        public AfdelingCard(TagHelperDbContext context, Afdeling afdeling)
            // context = context;
            AfdelingId = afdeling.AfdelingId;
            AfdelingNaam = afdeling.AfdelingNaam;
            Locatie = afdeling.Locatie.Stad;
            Land = afdeling.Locatie.Land.LandNaam;
            LandCode = afdeling.Locatie.Land.LandCode;
            Afdeling = afdeling;
        public Afdeling Afdeling { get; set; }
        public int AfdelingId { get; set; }
        public string AfdelingNaam { get; set; }
        public string Locatie { get; set; }
        public string LandCode { get; set; }
        public string Land { get; set; }
```

AfdelingCardTagHelper

```
[HtmlTargetElement(Attributes = "afdeling-card-view-model")]
   public class AfdelingCardTagHelper : TagHelper
       public AfdelingCard AfdelingCardViewModel { get; set; }
       public override void Process(TagHelperContext context, TagHelperOutput
output)
           string content = $@"<div class='card'>";
           content += $@"<h4 class='card-</pre>
title'>{AfdelingCardViewModel.AfdelingNaam}</h4>";
           content += $@"{AfdelingCardViewModel.LandCode} -
{AfdelingCardViewModel.Locatie}";
           content += $@"De afdeling
{AfdelingCardViewModel.AfdelingNaam} ligt in {AfdelingCardViewModel.Land}. ";
           output.TagName = "div";
           output.Content.SetHtmlContent(content);
```

- AfdelingCardTagHelper
 - AfdelingenController Details

```
public async Task<IActionResult> Details(int? id)
    if (id == null)
        return NotFound();
   var afdeling = await context.Afdelingen
        .Include(a => a.Locatie)
        .ThenInclude(1 => 1.Land)
        .FirstOrDefaultAsync(m => m.AfdelingId == id);
    if (afdeling == null)
        return NotFound();
    var afdelingCard = new AfdelingCard(_context, afdeling);
    return View(afdelingCard);
```

- AfdelingCardTagHelper
 - Views/Afdelingen/Details

@model MVCTagHelper.ViewModels.AfdelingCard

<afdeling-card afdeling-card-view-model="@Model"></afdeling-card>



Pluralsight

https://app.pluralsight.com/library/courses/aspdotnet-core-tag-helpers/table-of-contents



ASP.NET CORE TAGHELPER

MVC Web Application – Oefening 10 Medewerker