

C# Web – MVC

PRO/PRW - 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
 - SportStore
 - ViewComponent
 - SportStore



ASP.NET CORE

MVC Web Application MVCSportStore

TagHelper

- Add folder
 - TagHelpers
 - Add TagHelper class
 - PageLinkTagHelper.cs

```
namespace MVCSportStore.TagHelpers
{
    [HtmlTargetElement("page-link")]
    public class PageLinkTagHelper : TagHelper
    {
        public PagingInfo PagingInfo { get; set; }
}
```

- Html
 - <page-link paging-info=""></page-link>
- Views/Shared
 - ViewImports.cshtml
 - addTagHelper *, MVCSportStore

PageLinkTagHelper.cs

```
namespace MVCSportStore.TagHelpers
 [HtmlTargetElement("page-link", Attributes="paging-info")]
 public class PageLinkTagHelper : TagHelper
   public PagingInfo PagingInfo { get; set; }
   public override void Process(TagHelperContext context, TagHelperOutput output)
   private TagBuilder GetPaginationLinks(PagingInfo pagingInfo)
     TagBuilder ul = new TagBuilder("ul");
     return ul;
   private TagBuilder GetPaginationLink(int page, bool active)
     string pageLinkActive = "btn border border-primary";
     string pagelink = "btn border border-secondary";
     TagBuilder li = new TagBuilder("li");
     return li;
```

PageLinkTagHelper.cs - TagBuilder - GetPaginationLink()

```
private TagBuilder GetPaginationLink(int page, bool active)
{
    string pageLinkActive = "btn border border-primary";
    string pagelink = "btn border border-secondary";
    TagBuilder li = new TagBuilder("li");
    li.Attributes["class"] = "page-item";
    TagBuilder a = new TagBuilder("a");
    a.Attributes["class"] = (active) ? pageLinkActive : pagelink;
    a.Attributes["href"] = $"/Home/Index/{page}";
    a.Attributes["title"] = $"Click to go to page {page}";
    a.InnerHtml.Append($"{page}");
    li.InnerHtml.AppendHtml(a);
    return li;
    <a class="btn border border-primary" href="/Home/Index/1" title="Click to go to page 1">1</a>
```

PageLinkTagHelper.cs - TagBuilder - GetPaginationLinks()

```
private TagBuilder GetPaginationLinks(PagingInfo pagingInfo)
{
    TagBuilder ul = new TagBuilder("ul");
    ul.Attributes["class"] = "pagination";
    for (int page = 1; page <= pagingInfo.TotalPages; page++)</pre>
        ul.InnerHtml.AppendHtml(
       GetPaginationLink(page, page == pagingInfo.CurrentPage));
    return ul;
   <a class="btn border border-primary" href="/Home/Index/1" title="Click to go to page 1">1</a>
```

PageLinkTagHelper.cs - Process()

```
public override void Process(TagHelperContext context, TagHelperOutput output)
{
    output.TagName = "div";
    output.Content.AppendHtml(GetPaginationLinks(PagingInfo));
}
```

```
<div>

    <a class="btn border border-primary" href="/Home/Index/1" title="Click to go to page 1">1</a>

cli class="page-item">
    <a class="page-item">
    <a class="btn border border-secondary" href="/Home/Index/2" title="Click to go to page 2">2</a>

cli class="page-item">
    <a class="page-item">
    <a class="btn border border-secondary" href="/Home/Index/3" title="Click to go to page 3">3</a>

cli>cli><a class="btn border border-secondary" href="/Home/Index/3" title="Click to go to page 3">3</a>

</di>
</di>
</di>
</di>
</di>
```



SPORT STORE

Navigation menu

Kayak

Lifejacket

Soccer Ball

A boat for one person

Protective and fashionable

FIFA-approved size and weight

PageLinkTagHelper.cs
Views/Home/Index.cshtml

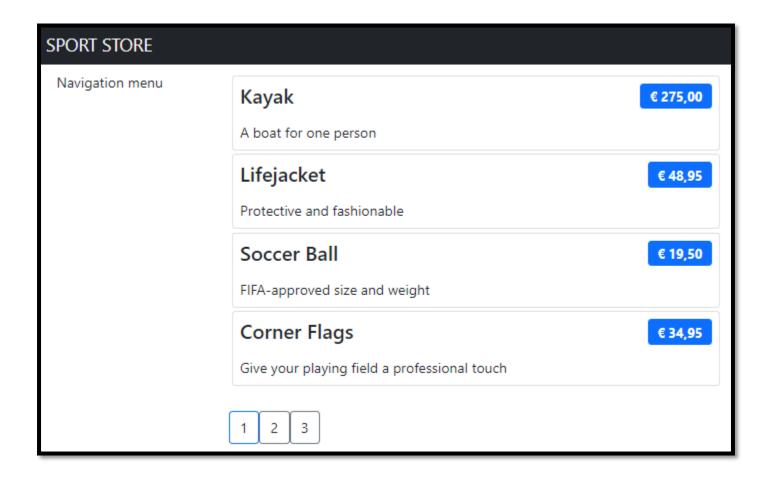
€ 275,00

€ 48,95

€ 19,50

€ 34,95

MvcSportStore – styling





MvcSportStore – styling

```
SPORT STORE

Navigation menu

Kayak

A boat for one person

Lifejacket

Protective and fashionable

Soccer Ball

FIFA-approved size and weight

Corner Flags

Give your playing field a professional touch

1 2 3
```

```
@model ProductModel
@foreach (var p in Model.Products)
{
  <div class="card card-outline-primary m-1 p-1">
        <div class="bg-faded p-1">
            <h4>
                @p.Name
                <span class="badge bg-primary" style="float:right">
                    <small>@p.ProductPrice.ToString("c")</small>
                </span>
            </h4>
        </div>
        <div class="card-text p-1">@p.Description</div>
   </div>
```

ASP.NET CORE

MVC Web Application MVCSportStore

Partial View

Partial View - ProductSummary

Views/Shared

- Add empty razor view
 - ProductSummary.cshtml



Partial View - ProductSummary

Views/Shared

- Add empty razor view
 - ProductSummary.cshtml

Partial View - ProductSummary

Views/Home/Index.cshtml

ASP.NET CORE

MVC Web Application MVCSportStore

ViewComponent

Navigation Menu

- Project Add folder: Components
 - Folder Components Add Class: NavigationMenuViewComponent
- Views/Shared
 - Nieuwe folder: Components/NavigationMenu (Views/Shared/Components/NavigationMenu)
 - Add empty razor view
 - Default.cshtml



```
namespace MVCSportStore.Components
{
    public class NavigationMenuViewComponent : ViewComponent
        private StoreDbContext context;
        public NavigationMenuViewComponent(StoreDbContext context)
            context = context;
        public IViewComponentResult Invoke()
            return View( context.Products
                .Select(x => x.Category)
                .Distinct()
                .OrderBy(x \Rightarrow x);
```



Navigation Menu - Views/Shared

Views/Shared/Components/NavigationMenu/Default.cshtml



```
Navigation Menu - Views/Shared
• Views/Shared/_Layout.cshtml
```

```
<body>
     <div class="bg-dark text-white p-2">
           <span class="navbar-brand ml-2">SPORTS STORE</span>
     </div>
     <div class="row m-1 p-1">
           <div id="categories" class="col-3">
                 <vc:navigation-menu /> sport store
           </div>
                                                    Chess
                                                                 Kayak
                                                                                             € 275,00
           <div class="col-9">
                                                    Soccer
                                                                 A boat for one person
                @RenderBody()
                                                    Watersports
                                                                 Lifejacket
                                                                                              € 48.95
           </div>
                                                                 Protective and fashionable
     </div>
                                                                 Soccer Ball
</body>
                                                                                              € 19,50
                                                                 FIFA-approved size and weight
                                                                 Corner Flags
                                                                                              € 34,95
                                                                 Give your playing field a professional touch
```

