C# Web – MVC

PRO - C# Web 1

DE HOGESCHOOL
MET HET NETWERK

Hogeschool PXL – Elfde-Liniestraat 24 – B-3500 Hasselt
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Doel

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

ASP.NET CORE

MVC Web Application
Sportstore
TagHelper

Sportstore

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

```
namespace SportsStore.TagHelpers
{
    //[HtmlTargetElement("tag-name")]
    public class PageLinkTagHelper : TagHelper
    {
        public PagingInfo PageModel { get; set; }
```

- Html
  - <page-link page-model=“”></page-link>

- Views/Shared
  - _ViewImports.cshtml
    - addTagHelper *, SportStore

Sportstore

PageLinkTagHelper.cs

```
public override void Process(TagHelperContext context, TagHelperOutput output)
{
    var current = PageModel.CurrentPage;
    var total = PageModel.TotalPages;
    output.TagName = "div";
    output.PreContent.SetHtmlContent(@"<ul class=‘pagination’>");
    for (var i = 1; i <= total; i++)
    {
        output.Content.AppendHtml(GetLink(i, current, total));
    }

    output.PostContent.SetHtmlContent("</ul>");
}
private string GetLink(int linkId, int currentPage, int totalPages)
{
    string link = $@"<li class=""{(linkId == currentPage ? "active" : "")}"">";
    link += $"<a class='btn border mt - 3' href=/Home/Index/{linkId} ";
    link += $"title = Click to go to page {linkId}>{linkId}</a></li>";
    return link;
}
```

Sportstore

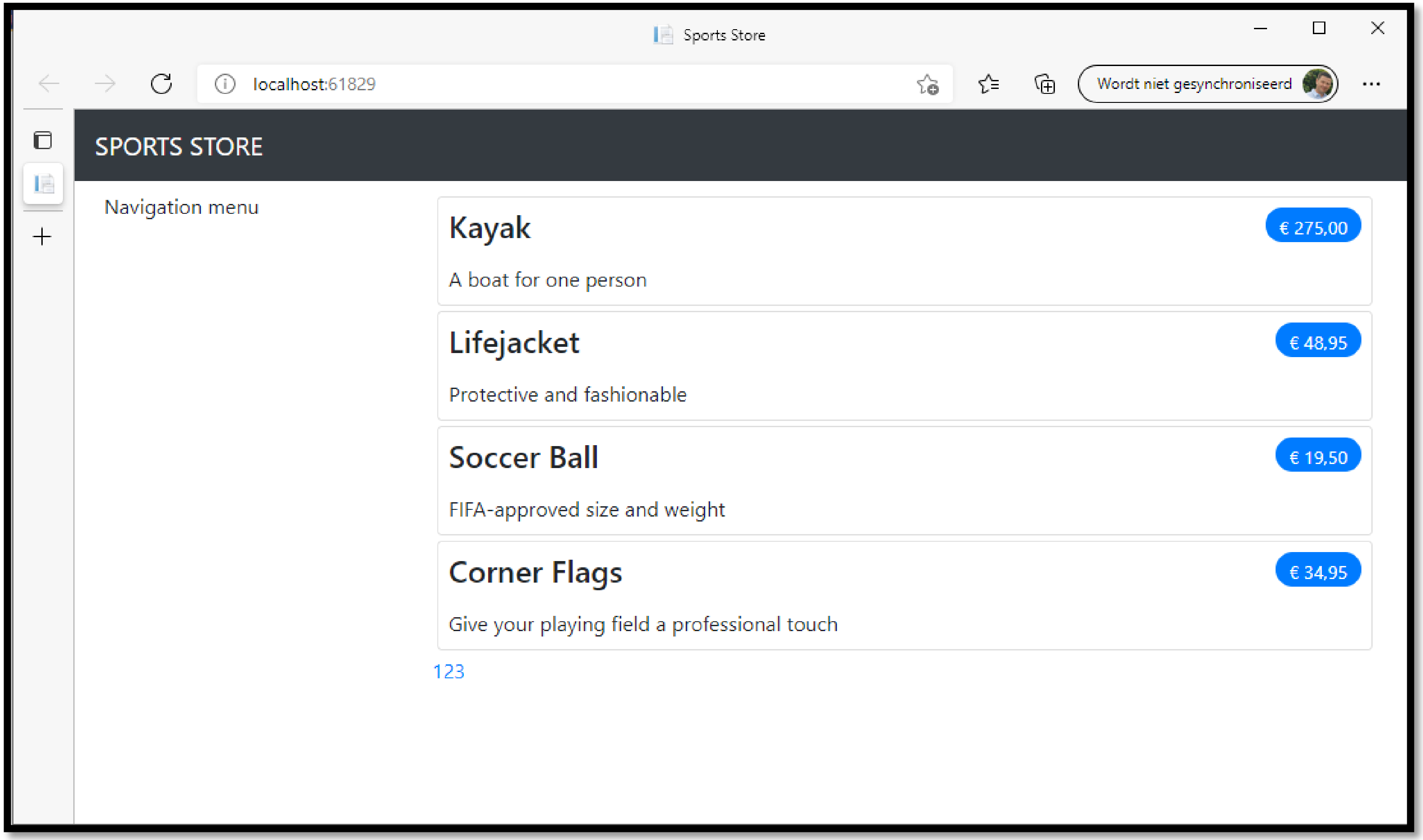
PageLinkTagHelper.cs
Views/Home/Index.cshtml

```
@model ProductsList
@foreach (var p in Model.Products)
{
    <div>
        <h3>@p.Name</h3>@p.Description
        <h4>@p.Price.ToString("c")</h4>
    </div>
}
<page-link page-model="@Model.PagingInfo"></page-link>
```

Sportstore – styling

```
@model ProductsList
@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 badge-pill badge-primary"
                             style="float:right">
                    <small>@p.Price.ToString("c")</small>
                </span>
            </h4>
        </div>
        <div class="card-text p-1">@p.Description</div>
    </div>
}
```

Sportstore



SPORTS STORE

Navigation menu

Kayak € 275,00

A boat for one person

Lifejacket € 48,95

Protective and fashionable

Soccer Ball € 19,50

FIFA-approved size and weight

Corner Flags € 34,95

Give your playing field a professional touch

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ASP.Net Core 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

```
@model Product
<div class="card card-outline-primary m-1 p-1">
    <div class="bg-faded p-1">
        <h4>
            @Model.Name
            <span class="badge badge-pill badge-primary"
style="float:right">
                <small>@Model.Price.ToString("c")</small>
            </span>
        </h4>
    </div>
    <div class="card-text p-1">@Model.Description</div>
</div>
```

Partial View - ProductSummary

```
Views/Home/Index.cshtml
```

```
@model ProductsList

@foreach (var p in Model.Products)
{
    <partial name="ProductSummary" model="p" />
}

<page-link page-model="@Model.PagingInfo"></page-link>
```

ASP.NET CORE

Sportstore
ViewComponent

Navigation menu - ViewComponent

Navigation Menu

- Nieuwe folder: Components
  - Class: NavigationMenuViewComponent

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

Navigation menu - ViewComponent

```
namespace SportsStore.Components
{
    public class NavigationMenuViewComponent : ViewComponent
    {
        private StoreDbContext _context;
        public NavigationMenuViewComponent(StoreDbContext context)
        {
            _context = context;
        }
        public IViewComponentResult Invoke()
        {
            ViewBag.SelectedCategory = RouteData?.Values["category"];
            return View(_context.Products
                .Select(x => x.Category)
                .Distinct()
                .OrderBy(x => x));
        }
    }
}
```

Navigation menu - ViewComponent

Navigation Menu - Views/Shared

- Views/Shared/Components/NavigationMenu/Default.cshtml

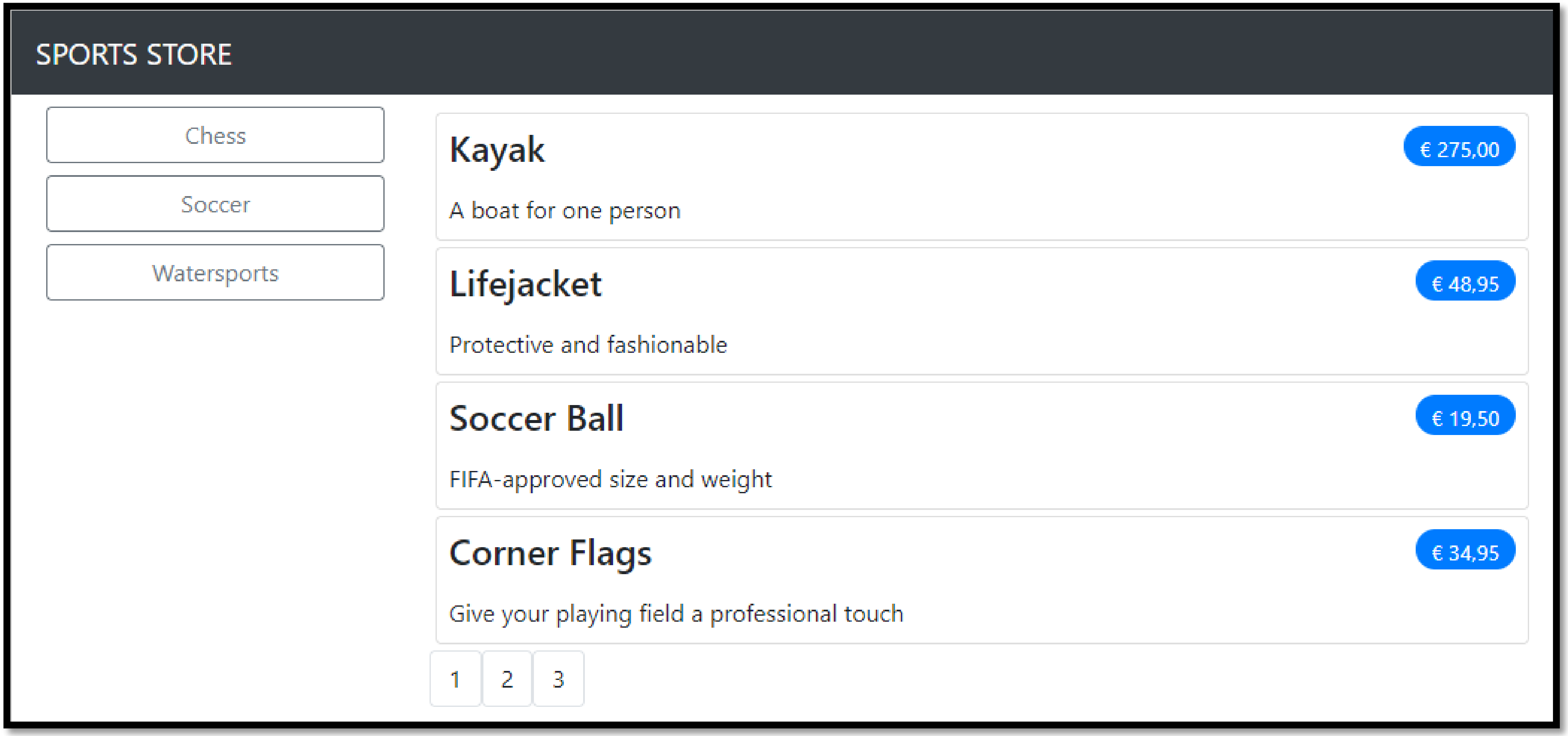
```
@model IEnumerable<string>
@foreach (string category in Model)
{
    <a class="btn btn-block
@(category == ViewBag.SelectedCategory ?
       "btn-primary": "btn-outline-secondary")"
       asp-action=“Index"
       asp-controller="Home"
       asp-route-category="@category"
       asp-route-id="1">
            @category
    </a>
}
```

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 />
        </div>
        <div class="col-9">
            @RenderBody()
        </div>
    </div>
</body>
```

Navigation menu - ViewComponent



SPORTS STORE

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Give your playing field a professional touch

Navigation menu - ViewComponent

```
Startup.cs
```

```
app.UseEndpoints(endpoints =>
{
    endpoints.MapControllerRoute(
        name: "default",
        pattern: "{controller=Home}/{action=Index}/{id=1}");
});
```

Navigation menu - ViewComponent

```
HomeController
```

```
public IActionResult Index(int id, string category)
{
    var productsList = _repo.GetProductsList(id, category);
    return View(productsList);
    //return View(_context.Products);
}
```

Navigation menu - ViewComponent

```
ProductRepository
```

```
public ProductsList GetProductsList(int productPage, string
category)
{
    var pl = new ProductsList();
    pl.Products = GetProducts(productPage, category);
    pl.PagingInfo = GetPagingInfo(productPage, category);
    return pl;
}
```

Navigation menu - ViewComponent

```
ProductRepository – GetProducts()
```

```
private IEnumerable<Product> GetProducts(int productPage, string
category)
{
    return _context.Products
            .Where(p => category == null || p.Category == category)
            .OrderBy(p => p.ProductID)
            .Skip((productPage - 1) * PagingSettings.ProductPagination)
            .Take(PagingSettings.ProductPagination);
}
```

Navigation menu - ViewComponent

```
ProductRepository – GetPagingInfo()
```

```
private PagingInfo GetPagingInfo(int productPage, string category)
{
    var pagingInfo = new PagingInfo();
    pagingInfo.CurrentPage = productPage;
    pagingInfo.ItemsPerPage = PagingSettings.ProductPagination;
    pagingInfo.TotalItems = (category == null)
        ? _context.Products.Count()
        : _context.Products.Where(e => e.Category == category).Count();
    return pagingInfo;
}
```

ASP.NET CORE VIEWCOMPONENT

MVC Web Application – Oefening 11
Medewerker