C# Web – MVC

PRO/PRW - C# Web 1

DE HOGESCHOOL
MET HET NETWERK

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Doel

- ASP.Net Core toepassing
  - PE
    - Maandag 06/11
  - MVC Web Application
    - TagHelper
      - SportStore
    - ViewComponent
      - SportStore

ASP.NET CORE

MVC Web Application
MVCSportStore

- **TagHelper**
- **ViewComponent**

TagHelper- PageLinkTagHelper

```
public class PageLinkTagHelper : TagHelper
{
    public PagingInfo PagingInfo { get; set; }
    public override void Process(…)
    {
      ...
    }
    private TagBuilder GetPaginationLink(int page, bool active)
    {
      string pageLinkActive = "btn border border-primary m-1";
      string pageLink = "btn border border-secondary m-1";
```

Navigation menu - ViewComponent

Navigation Menu - Views/Shared

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

```
@model IEnumerable<string>
@{
    string style = "btn btn-outline-secondary btn-block m-2";
    string styleActive = "btn btn-outline-primary btn-block m-2";
}
@foreach(string category in Model)
{
    <div class="row">
        <a class="@((category==ViewBag.SelectedCategory)
                      ? styleActive : style)"
           asp-controller="Home"
           asp-action="Index"
           asp-route-id="1">
               @category
        </a>
    </div>
}
```

Navigation menu - ViewComponent

Navigation Menu - Views/Shared

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

```
<div class="row">
    <a class="@(category==ViewBag.SelectedCategory
                     ? styleActive : style)"
       asp-controller="Home"
       asp-action="Index"
       asp-route-id="1“
       asp-route-category="@category">
        @category
    </a>
</div>
```

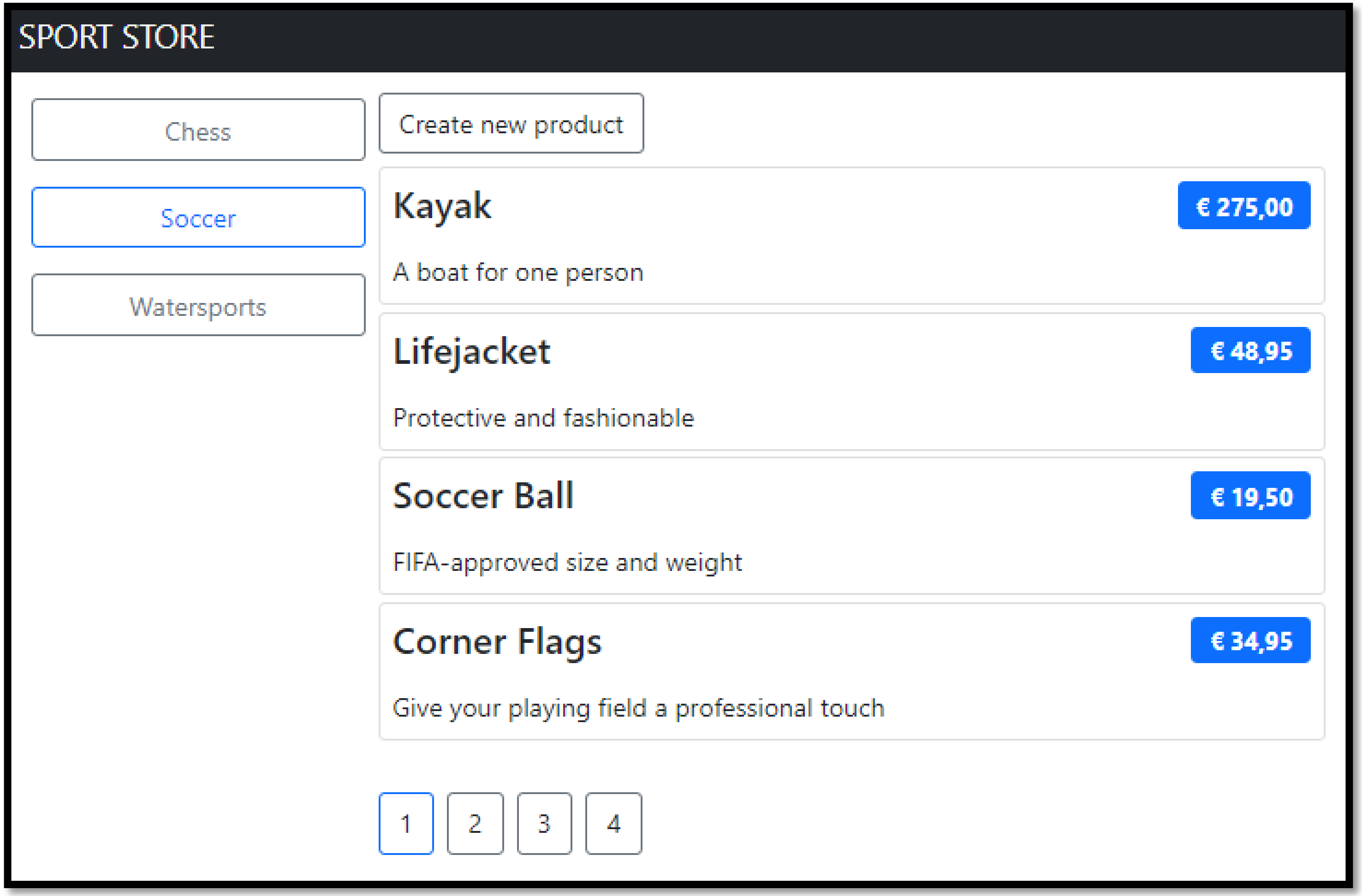
Navigation menu - ViewComponent

```
namespace MVCSportStore.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));
        }
    }
}
```

HomeController- category (Route)

```
public IActionResult Index(int id = 1, string category=null)
{
    if (category != null)
        AddRouteKey("category", category);
    var productModel = _repo.GetProductModel(id);
    return View(productModel);
}
private void AddRouteKey(string key, string keyValue)
{
    if (base.RouteData.Values.ContainsKey(key))
        base.RouteData.Values[key] = keyValue;
    else
        base.RouteData.Values.Add(key, keyValue);
}
```

Navigation menu - ViewComponent



SPORT STORE

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

Navigation menu - ViewComponent

HomeController – Index actie

```
public IActionResult Index(int id = 1, string category=null)
{
    if(category != null)
       AddRouteKey("category", category);
    //category moeten we nog toevoegen
    var productModel = _repo.GetProductModel(id);
    return View(productModel);}
```

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()
```

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

Navigation menu - ViewComponent

```
ProductRepository
```

```
public ProductModel GetProductModel(int productPage, string category)
{
    var productModel = new ProductModel();
    productModel.Products = GetProducts(productPage, category);
    productModel.PagingInfo = GetPagingInfo(productPage, category);
    return productModel;
}
```

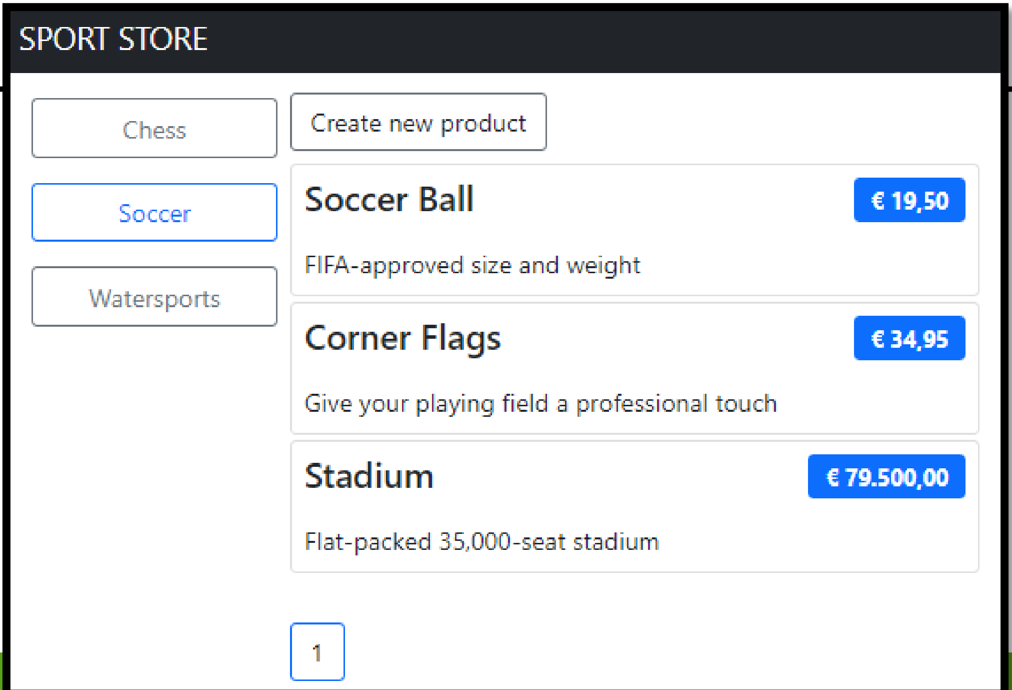
Navigation menu - ViewComponent

```
HomeController – Index action
```

```
public IActionResult Index(int id = 1, string category=null)
{
    if (category != null)
       AddRouteKey("category", category);

    var productModel = _repo.GetProductModel(id, category);
    return View(productModel);

}
```



SPORT STORE

Chess

Soccer

Watersports

Create new product

Soccer Ball € 19,50

FIFA-approved size and weight

Corner Flags € 34,95

Give your playing field a professional touch

Stadium € 79.500,00

Flat-packed 35,000-seat stadium

1

ViewModels - PagingInfo

```
public class PagingInfo
{
    public int TotalItems { get; set; }
    public int ItemsPerPage { get; set; }
    public int CurrentPage { get; set; }
    public string Category { get; set; }
    public int TotalPages =>
(int)Math.Ceiling((decimal)TotalItems / ItemsPerPage);
}
```

TagHelper - PageLink

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

TagHelper - PageLink

```
private TagBuilder GetPaginationLinks(PagingInfo pagingInfo)
{
    var ul = new TagBuilder("ul");
    ul.Attributes["class"] = "pagination";
    bool active = false;
    for (int page = 1; page <= pagingInfo.TotalPages; page++)
    {
        active = (page == pagingInfo.CurrentPage);
        ul.InnerHtml.AppendHtml(
             GetPaginationLink(page, pagingInfo.Category, active));
    }
    return ul;
}
```

TagHelper - PageLink

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

ASP.NET CORE

MVC Web Application
Oefening 14

- ViewComponent