

Platforma .NET – 3

RNDr. Michal Pobucký

michal.pobucky@fpf.slu.cz

Ústav informatiky – zima 2020



Razor

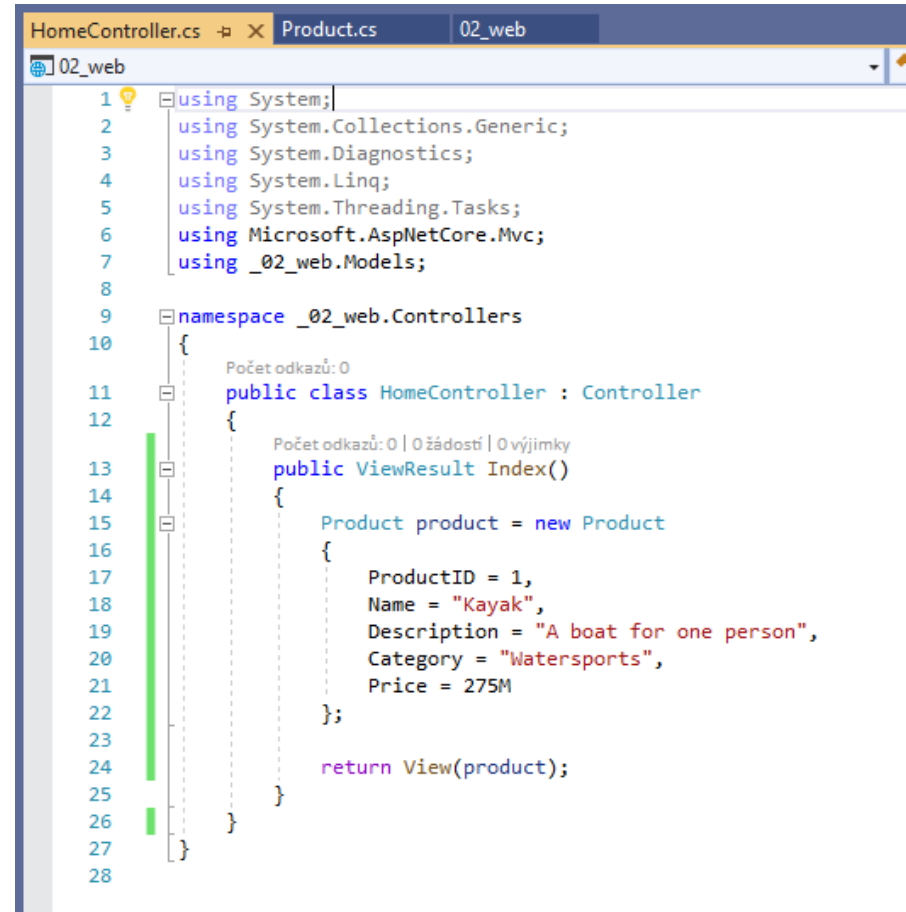
- Razor is the view engine responsible for incorporating data into HTML documents.
- The ability to dynamically generate content is essential to being able to write a web application. Razor provides features that make it easy to work with the rest of the ASP.NET Core MVC using C# statements.
- Vytvořte novou webovou aplikaci MVC

Razor

Nový Models / Product

```
Product.cs 02_web
02_web
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5
6 namespace _02_web.Models
7 {
8     Počet odkazů: 0
9     public class Product
10    {
11        Počet odkazů: 0 | 0 výjimky
12        public int ProductID { get; set; }
13        Počet odkazů: 0 | 0 výjimky
14        public string Name { get; set; }
15        Počet odkazů: 0 | 0 výjimky
16        public string Description { get; set; }
17        Počet odkazů: 0 | 0 výjimky
18        public decimal Price { get; set; }
19        Počet odkazů: 0 | 0 výjimky
20        public string Category { get; set; }
21    }
22 }
```

Razor



```
1  using System;
2  using System.Collections.Generic;
3  using System.Diagnostics;
4  using System.Linq;
5  using System.Threading.Tasks;
6  using Microsoft.AspNetCore.Mvc;
7  using _02_web.Models;
8
9  namespace _02_web.Controllers
10 {
11     public class HomeController : Controller
12     {
13         public IActionResult Index()
14         {
15             Product product = new Product
16             {
17                 ProductID = 1,
18                 Name = "Kayak",
19                 Description = "A boat for one person",
20                 Category = "Watersports",
21                 Price = 275M
22             };
23
24             return View(product);
25         }
26     }
27 }
28
```

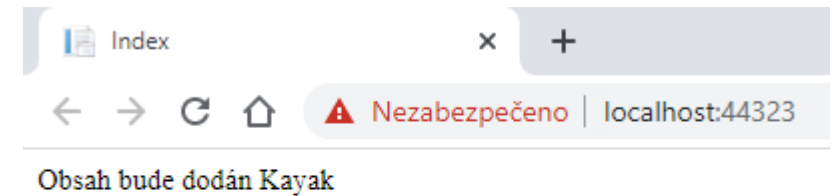
Razor

```
Index.cshtml  HomeController.cs  Product.cs  02_web
1  @model _02_web.Models.Product
2
3  @{
4      Layout = null;
5  }
6
7  <!DOCTYPE html>
8  <html>
9  <head>
10     <meta name="viewport" content="width=device-width" />
11     <title>Index</title>
12 </head>
13 <body>
14     Obsah bude dodán
15 </body>
16 </html>
17
```

Razor

```
Index.cshtml* HomeController.cs Product.cs 02_web
1 @model _02_web.Models.Product
2
3 @{
4     Layout = null;
5 }
6
7 <!DOCTYPE html>
8 <html>
9 <head>
10     <meta name="viewport" content="width=device-width" />
11     <title>Index</title>
12 </head>
13 <body>
14     Obsah bude dodán
15     @Model.
16 </body>
17 </html>
18
```

- Category
- Description
- Equals
- GetHashCode
- GetType
- Name
- Price
- ProductID
- ToString



Layout

Views / Shared / Přidat / Nová položka

The screenshot shows the Visual Studio interface with a file explorer on the left displaying a project structure. The 'Shared' folder is selected, and a context menu is open over it. The menu options include 'Zobrazit v prohlížeči (Google Chrome)', 'Nastavit prohlížeče...', 'Přidat', 'Nastavit rozsah na tuto položku', 'Nové zobrazení v Průzkumník řešení', 'Vymout z projektu', 'Vymout (Ctrl+X)', 'Kopírovat (Ctrl+C)', 'Odstranit (Del)', 'Přejmenovat (F2)', 'Kopírovat úplnou cestu', 'Otevřít složku v Průzkumníkovi souborů', and 'Vlastnosti (Alt+Enter)'. Below the menu, a table shows the file name 'Název složky' as 'Shared' and the full path 'Úplná cesta' as 'C:\Users\pobucky\source\repos\02_1\...'.

The screenshot shows the 'Add New Item' dialog box in Visual Studio. The 'Visual C#' category is selected, and the 'Razor Layout' item is highlighted. The 'Name' field contains '_BasicLayout.cshtml'. The 'Add' button is visible at the bottom right.

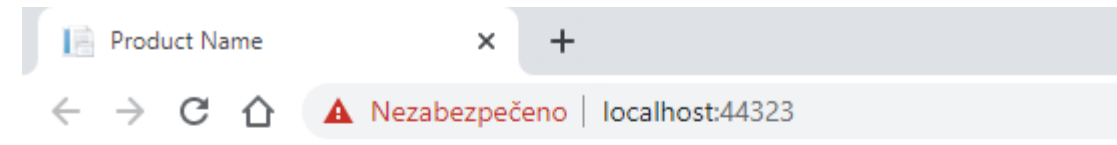
```
1 <!DOCTYPE html>
2
3 <html>
4 <head>
5 <meta name="viewport" content="width=device-width" />
6 <title>@ViewBag.Title</title>
7 </head>
8 <body>
9 <div>
10 @RenderBody()
11 </div>
12 </body>
13 </html>
14
```

Layout

```
_BasicLayout.cshtml | Index.cshtml | HomeController.cs | Product.cs
1 <!DOCTYPE html>
2
3 <html>
4 <head>
5   <meta name="viewport" content="width=device-width" />
6   <title>@ViewBag.Title</title>
7   <style>
8     #mainDiv {
9       padding: 20px;
10      border: solid medium black;
11      font-size: 20pt;
12    }
13  </style>
14 </head>
15 <body>
16   <h1>Product Information</h1>
17   <div id="mainDiv">
18     @RenderBody()
19   </div>
20 </body>
21 </html>
22
```


Layout

```
BasicLayout.cshtml | Index.cshtml | HomeController.cs | Product.cs | 02_
1 @model _02_web.Models.Product
2
3 @{
4     Layout = "_BasicLayout";
5     ViewBag.Title = "Product Name";
6 }
7
8 <!DOCTYPE html>
9 <html>
10 <head>
11     <meta name="viewport" content="width=device-width" />
12     <title>Index</title>
13 </head>
14 <body>
15     Product Name: @Model.Name
16 </body>
17 </html>
18
```



Product Information

Product Name: Kayak

Layout

```
ViewStart.cshtml | _BasicLayout.cshtml | Index.cshtml | HomeController.cs
02_web
1 using System;
2 using System.Collections.Generic;
3 using System.Diagnostics;
4 using System.Linq;
5 using System.Threading.Tasks;
6 using Microsoft.AspNetCore.Mvc;
7 using _02_web.Models;
8
9 namespace _02_web.Controllers
10 {
11     public class HomeController : Controller
12     {
13         public IActionResult Index()
14         {
15             Product product = new Product
16             {
17                 ProductID = 1,
18                 Name = "Kayak",
19                 Description = "A boat for one person",
20                 Category = "Watersports",
21                 Price = 275M
22             };
23
24             ViewBag.StockLevel = 2;
25
26             return View(product);
27         }
28     }
29 }
30
```

```
Soubor | Upravit | Zobrazit | Projekt | Sestavit | Ladit | Test | Analyzovat | Nástroje
Debug | Any CPU | IIS Express
ViewStart.cshtml | _BasicLayout.cshtml | Index.cshtml | HomeController.cs
1 @model _02_web.Models.Product
2
3 @{
4     Layout = "_BasicLayout";
5     ViewBag.Title = "Product Name";
6 }
7
8 <!DOCTYPE html>
9 <html>
10 <head>
11     <meta name="viewport" content="width=device-width" />
12     <title>Index</title>
13 </head>
14 <body>
15     <p>Product Name: @Model.Name</p>
16     <p>Product Price: @($"{Model.Price:C2}")</p>
17     <p>Stock Level: @ViewBag.StockLevel</p>
18 </body>
19 </html>
20
```

Spustit

Layout

Product Information

Product Name: Kayak

Product Price: 275,00 Kč

Stock Level: 2

Sportovní obchod

- Vytvořte novou webovou aplikaci MVC (SportsStore; raději ne 03_web_SportsStore)
- Nejprve vytvoříme základní strukturu aplikace

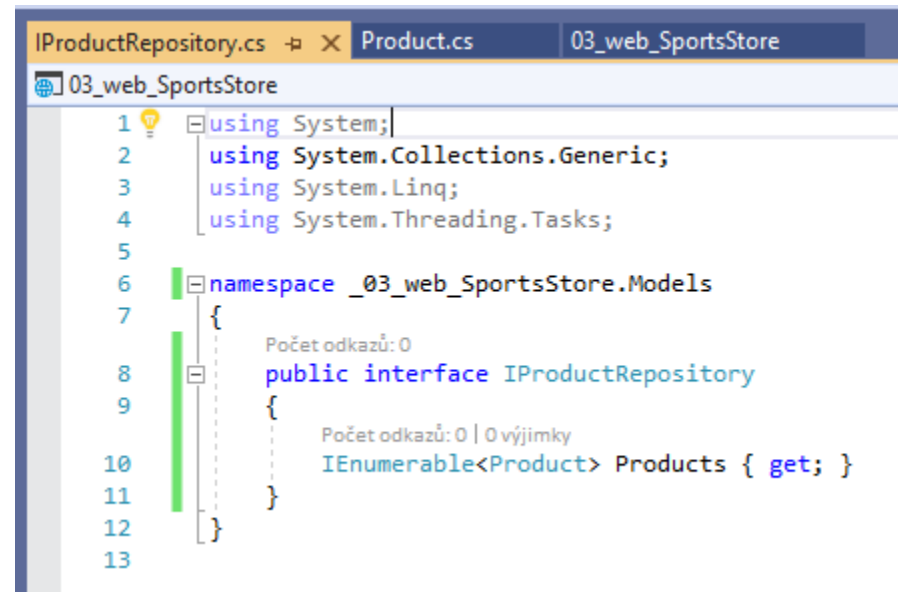
Sportovní obchod

Models / Product.cs

```
Product.cs -> X 03_web_SportsStore
03_web_SportsStore
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace _03_web_SportsStore.Models
7  {
8      public class Product
9      {
10         public int ProductID { get; set; }
11         public string Name { get; set; }
12         public string Description { get; set; }
13         public decimal Price { get; set; }
14         public string Category { get; set; }
15     }
16 }
17
```

Sportovní obchod

Models / IProductRepository.cs



```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace _03_web_SportsStore.Models
7  {
8      public interface IProductRepository
9      {
10         IEnumerable<Product> Products { get; }
11     }
12 }
13
```

Sportovní obchod

Models / TempProductRepository.cs

```
TempProductRepository.cs | IProductRepository.cs | Product.cs | 03_web_SportsStore
03_web_SportsStore
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5
6 namespace _03_web_SportsStore.Models
7 {
8     public class TempProductRepository : IProductRepository
9     {
10         public IEnumerable<Product> Products => new List<Product> {
11             new Product { Name = "Football", Price = 25 },
12             new Product { Name = "Surf board", Price = 179 },
13             new Product { Name = "Running shoes", Price = 95 }
14         };
15     }
16 }
17
```

Sportovní obchod

```
Startup.cs  TempProductRepository.cs  IProductRepository.cs  Product.cs  03_web_SportsStore
03_web_SportsStore  03_web_SportsStore.Startup
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5  using Microsoft.AspNetCore.Builder;
6  using Microsoft.AspNetCore.Hosting;
7  using Microsoft.AspNetCore.Http;
8  using Microsoft.AspNetCore.HttpsPolicy;
9  using Microsoft.AspNetCore.Mvc;
10 using Microsoft.Extensions.Configuration;
11 using Microsoft.Extensions.DependencyInjection;
12 using _03_web_SportsStore.Models;
13
14 namespace _03_web_SportsStore
15 {
16     public class Startup
17     {
18         public Startup(IConfiguration configuration)
19         {
20             Configuration = configuration;
21         }
22
23         public IConfiguration Configuration { get; }
24
25         // This method gets called by the runtime. Use this method to add services to the container.
26         public void ConfigureServices(IServiceCollection services)
27         {
28             services.Configure<CookiePolicyOptions>(options =>
29             {
30                 // This lambda determines whether user consent for non-essential cookies is needed for a given request.
31                 options.CheckConsentNeeded = context => true;
32                 options.MinimumSameSitePolicy = SameSiteMode.None;
33             });
34
35             services.AddTransient<IProductRepository, TempProductRepository>();
36
37             services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_1);
38         }
39     }
40 }
```

Startup.cs

Provedeme registraci
služby našeho úložiště
TempProductRepository

Sportovní obchod

Contollers / ProductController.cs

```
ProductController.cs x Startup.cs TempProductRepository.cs IProductRepository.cs
03_web_SportsStore
1 using System;
2   using System.Collections.Generic;
3   using System.Linq;
4   using System.Threading.Tasks;
5   using Microsoft.AspNetCore.Mvc;
6   using _03_web_SportsStore.Models;
7
8   namespace _03_web_SportsStore.Controllers
9   {
10      Počet odkazů: 1
11      public class ProductController : Controller
12      {
13          Počet odkazů: 0 | 0 výjimky
14          private IProductRepository repository;
15          public ProductController(IProductRepository repo)
16          {
17              repository = repo;
18          }
19          Počet odkazů: 0 | 0 žádostí | 0 výjimky
20          public IActionResult List() => View(repository.Products);
21      }
22  }
```

Sportovní obchod

Upravit

Views / Shared / _Layout.cshtml

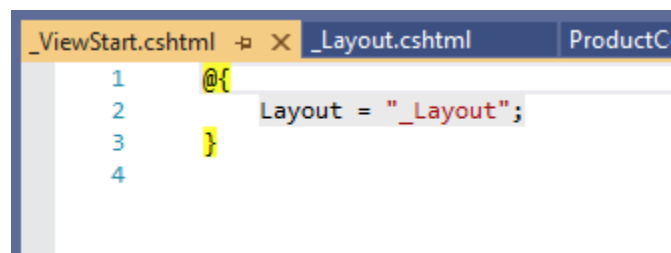
```

_Layout.cshtml  ProductController.cs  Startup.cs  TempProductRepository.cs  IProductRepository
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6      <title>Sports Store</title>
7  </head>
8  <body>
9      <div>
10         @RenderBody()
11     </div>
12 </body>
13 </html>
14
```

Sportovní obchod

Upravit

Views / _ViewStart.cshtml



```
_ViewStart.cshtml  X  _Layout.cshtml  ProductC
1  @{
2      Layout = "_Layout";
3  }
4
```

Sportovní obchod

Views / Product / List.cshtml

Při volání obdržíme
objekty Product

```
List.cshtml  -p x  _ViewStart.cshtml  _Layout.cshtml  ProductC
1  @model IEnumerable<Product>
2
3  @foreach (var p in Model)
4  {
5      <div>
6          <h3>@p.Name</h3>
7          @p.Description
8          <h4>@p.Price.ToString("c")</h4>
9      </div>
10 }
```

Sportovní obchod

Upravit
Startup.cs

Počet odkazů: 0 | 0 výjimky

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Home/Error");
        app.UseHsts();
    }

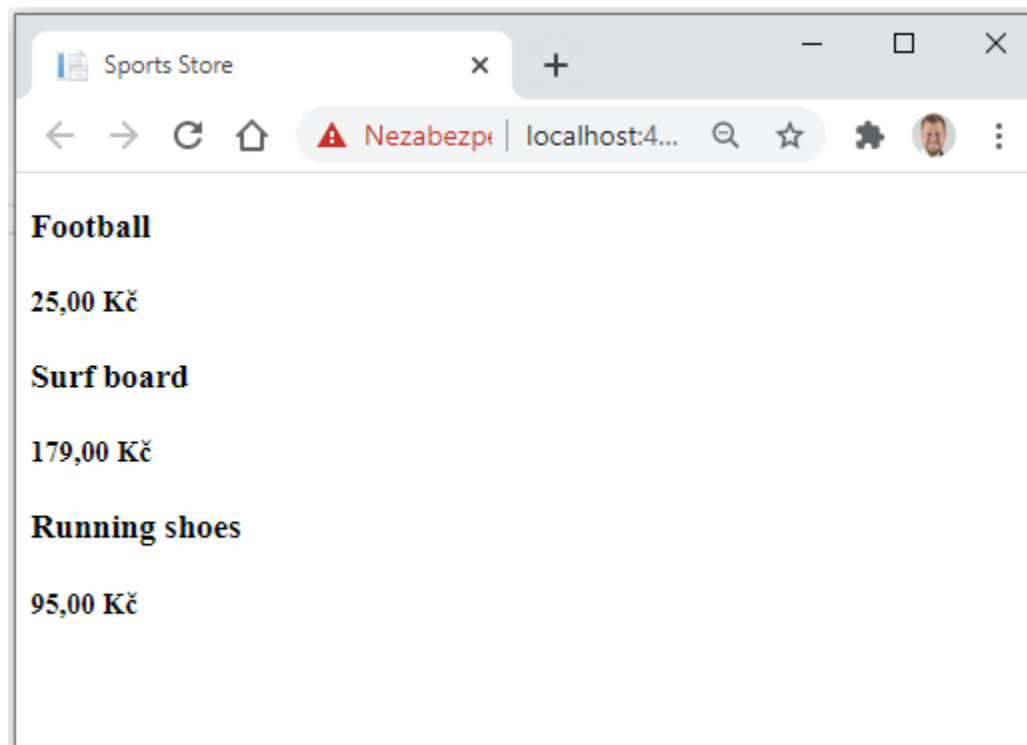
    app.UseHttpsRedirection();
    app.UseStaticFiles();
    app.UseCookiePolicy();

    app.UseMvc(routes =>
    {
        routes.MapRoute(
            name: "default",
            template: "{controller=Home}/{action=Index}/{id?}");
    });
}
```

```
app.UseMvc(routes =>
{
    routes.MapRoute(
        name: "default",
        template: "{controller=Product}/{action=List}/{id?}");
});
```

Máme základní strukturu hotovou
Spustit

Sportovní obchod



Sportovní obchod

- Propojení dat z databáze

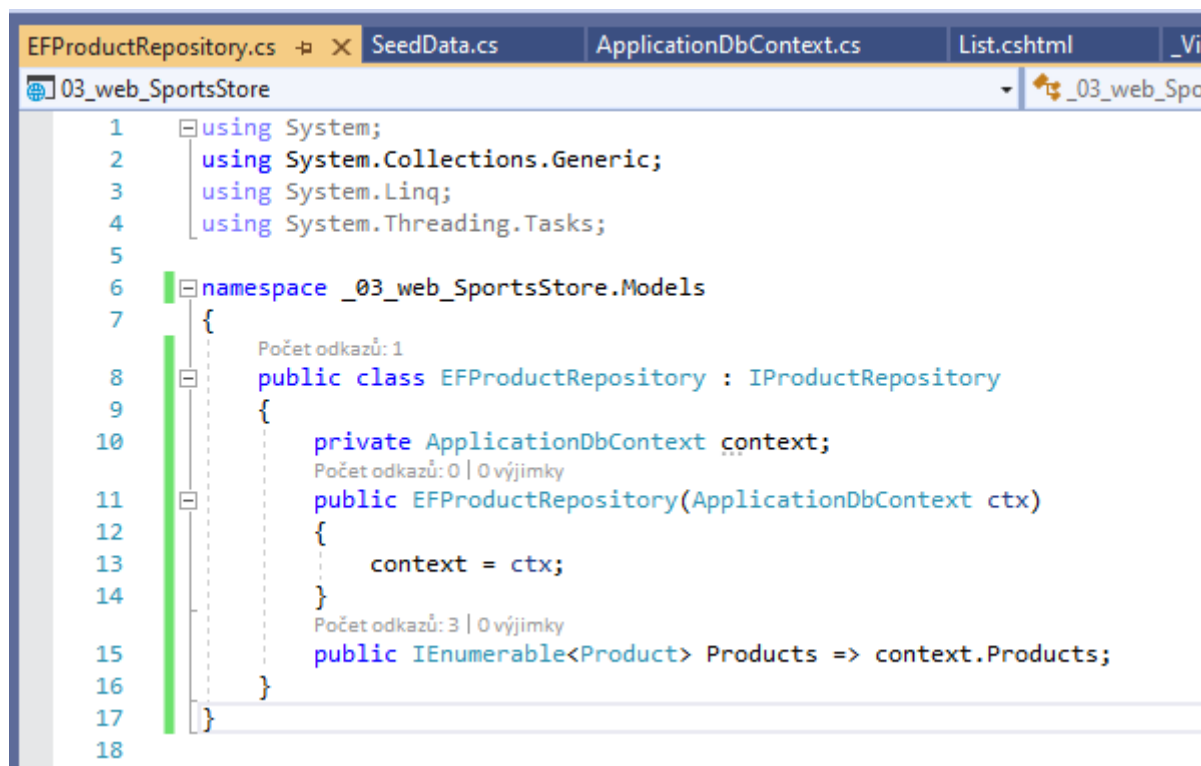
Sportovní obchod

Models / ApplicationDbContext.cs

```
ApplicationDbContext.cs  X List.cshtml  _ViewStart.cshtml  _Layout.cshtml  ProductController.cs  Startup.cs  TempProdu...
03_web_SportsStore  ▾ 03_web_SportsStore.Models.ApplicationDbContext
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5  using Microsoft.EntityFrameworkCore;
6
7  namespace _03_web_SportsStore.Models
8  {
9      Počet odkazů: 2
10     public class ApplicationDbContext : DbContext
11     {
12         Počet odkazů: 0 | 0 výjimky
13         public ApplicationDbContext(DbContextOptions<ApplicationDbContext> options) : base(options) { }
14         Počet odkazů: 0 | 0 výjimky
15         public DbSet<Product> Products { get; set; }
16     }
17 }
```


Sportovní obchod

Models / EFProductRepository.cs



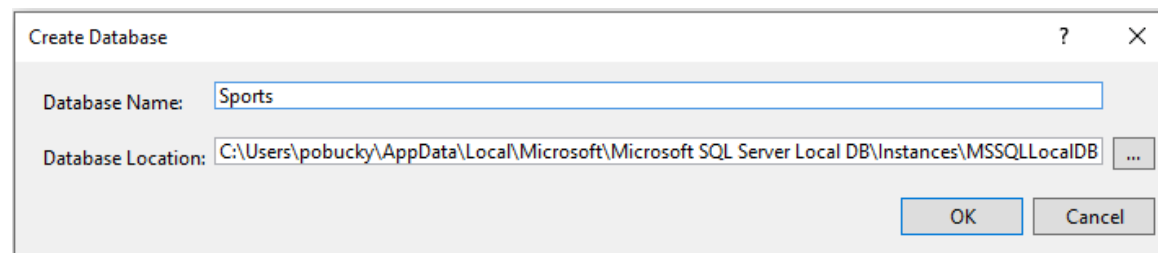
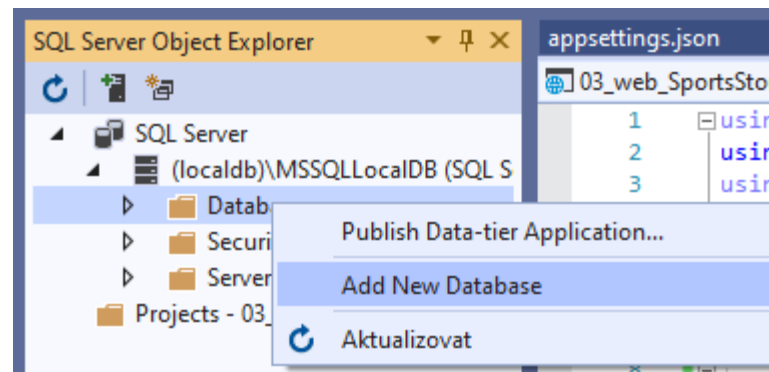
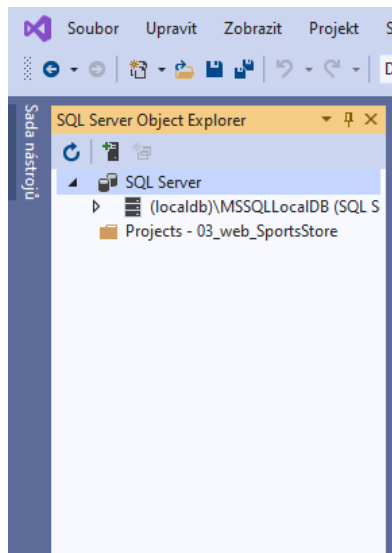
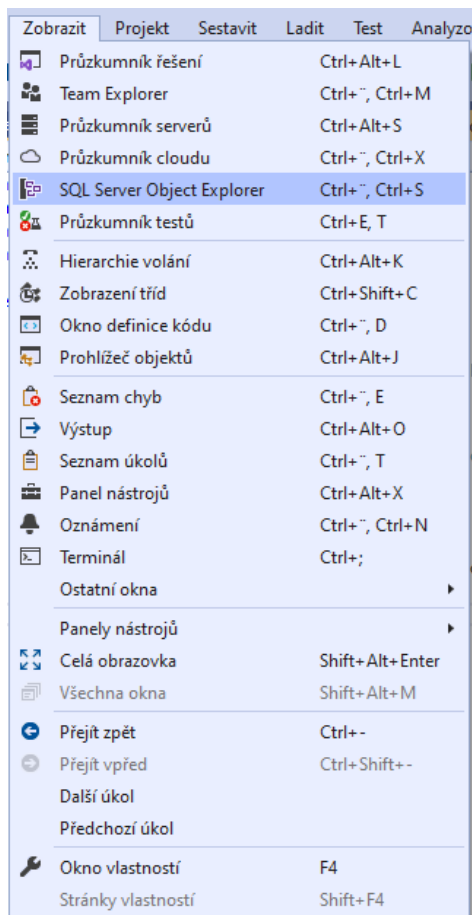
```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace _03_web_SportsStore.Models
7  {
8      public class EFProductRepository : IProductRepository
9      {
10         private ApplicationDbContext context;
11         public EFProductRepository(ApplicationDbContext ctx)
12         {
13             context = ctx;
14         }
15         public IEnumerable<Product> Products => context.Products;
16     }
17 }
18
```

Sportovní obchod

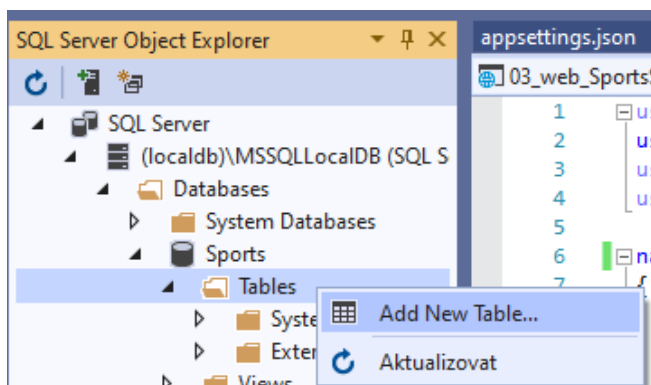
Upravit
Startup.cs

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using Microsoft.AspNetCore.Builder;
6 using Microsoft.AspNetCore.Hosting;
7 using Microsoft.AspNetCore.Http;
8 using Microsoft.AspNetCore.HttpsPolicy;
9 using Microsoft.AspNetCore.Mvc;
10 using Microsoft.Extensions.Configuration;
11 using Microsoft.Extensions.DependencyInjection;
12 using _03_web_SportsStore.Models;
13 using Microsoft.EntityFrameworkCore;
14
15 namespace _03_web_SportsStore
16 {
17     public class Startup
18     {
19         public Startup(IHostingEnvironment env)
20         {
21             Configuration = new ConfigurationBuilder()
22                 .SetBasePath(env.ContentRootPath)
23                 .AddJsonFile("appsettings.json").Build();
24         }
25
26         public IConfiguration Configuration { get; }
27
28         // This method gets called by the runtime. Use this method to add services to the container.
29         public void ConfigureServices(IServiceCollection services)
30         {
31             services.AddDbContext<ApplicationDbContext>(options => options.UseSqlServer(Configuration["Data:SportStoreProducts:ConnectionString"]));
32             services.AddTransient<IProductRepository, EFProductRepository>();
33
34             services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_1);
35         }
36     }
37 }
```

Sportovní obchod



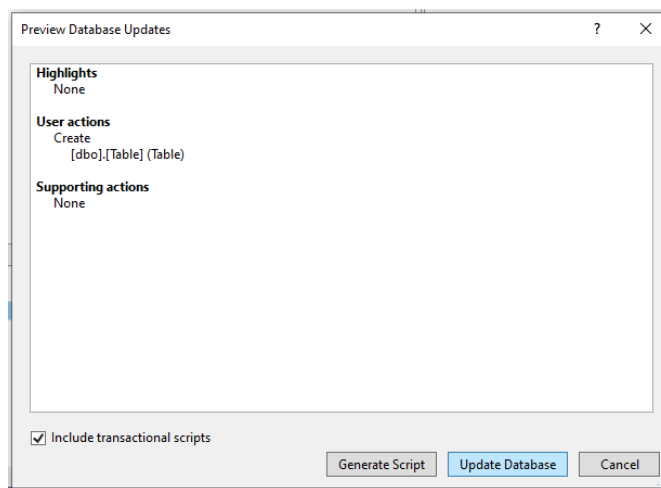
Sportovní obchod



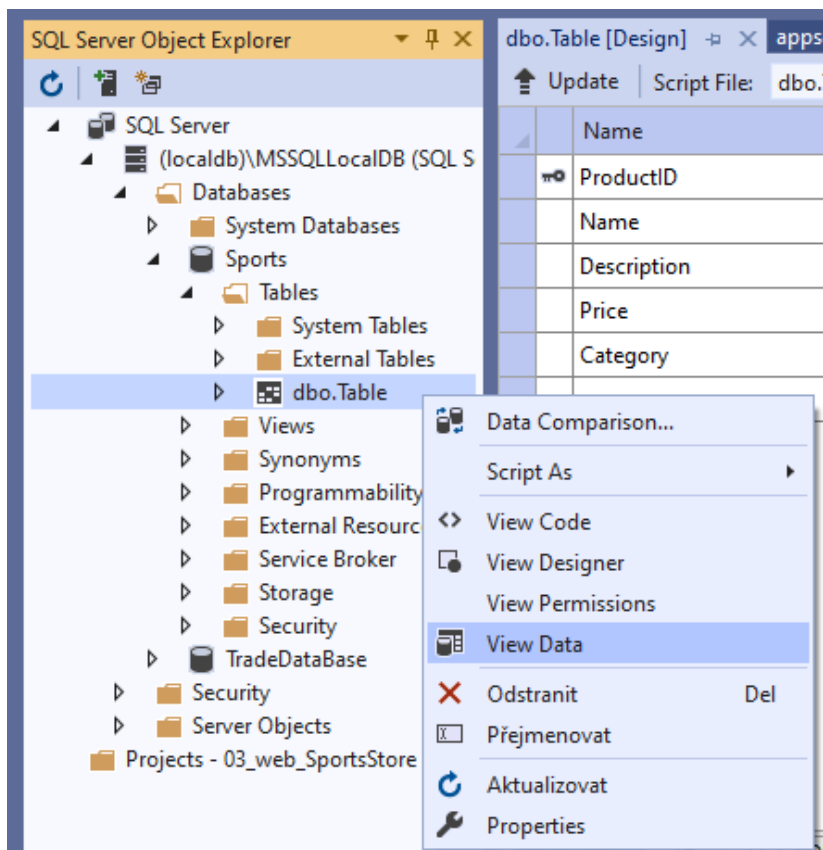
A screenshot of the SQL Server Enterprise Designer showing a table design for a table named 'Products'. The table has the following columns:

	Name	Update Database	Data Type	Allow Nulls	Default
PK	ProductID		int	<input type="checkbox"/>	
	Name		nvarchar(50)	<input checked="" type="checkbox"/>	
	Description		nvarchar(50)	<input checked="" type="checkbox"/>	
	Price		decimal(18,2)	<input checked="" type="checkbox"/>	
	Category		nvarchar(50)	<input checked="" type="checkbox"/>	
				<input type="checkbox"/>	

Novou tabulku s
názvem Products



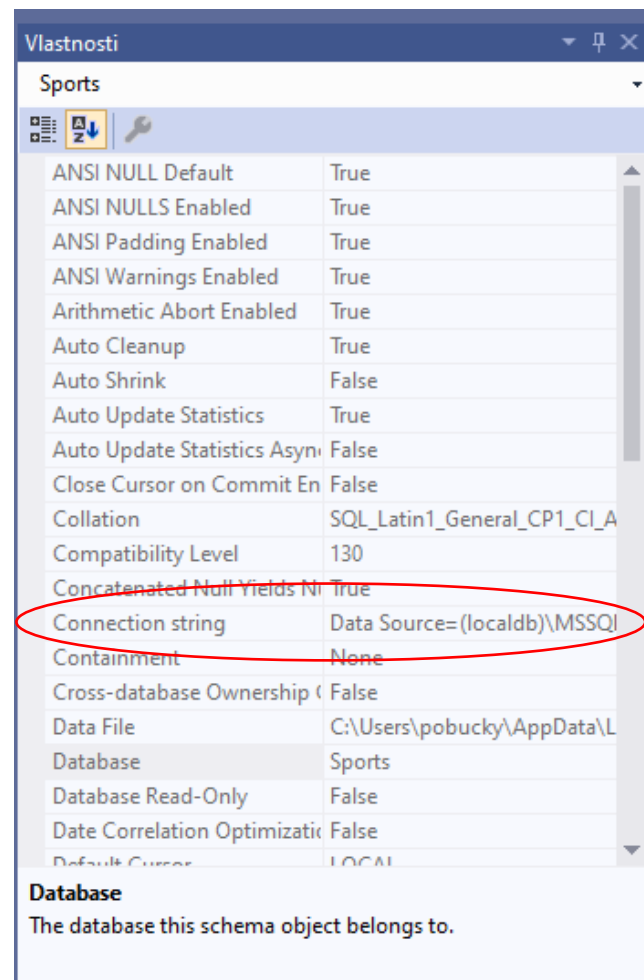
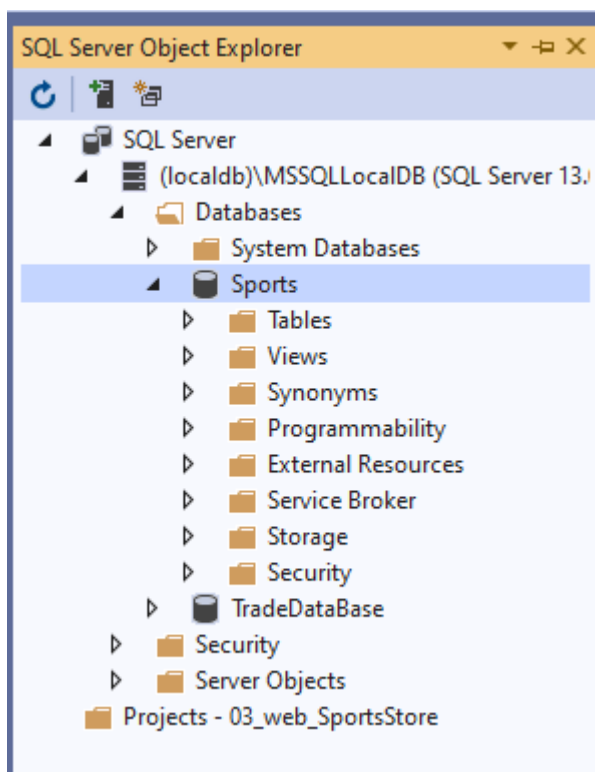
Sportovní obchod



The screenshot shows the 'dbo.Table [Data]' view in SQL Server. The table contains the following data:

ProductID	Name	Description	Price	Category
1	Kayak	A boat for one person	275,00	Watersports
2	Lifejacket	Protective and fashionable	48,95	Watersports
3	Soccer Ball	FIFA-approved size and weight	19,50	Soccer
4	Corner Flags	Give your playing field a professional touch	34,95	Soccer
5	Stadium	Flat-packed 35,000-seat stadium	79500,00	Soccer
6	Thinking Cap	Improve brain efficiency by 75%	16,00	Chess
7	Unsteady Chair	Secretly give your opponent a disadvantage	29,95	Chess
8	Human Chess Boa...	A fun game for the family	75,00	Chess
9	Bling-Bling King	Gold-plated, diamond-studded King	1200,00	Chess
NULL	NULL	NULL	NULL	NULL

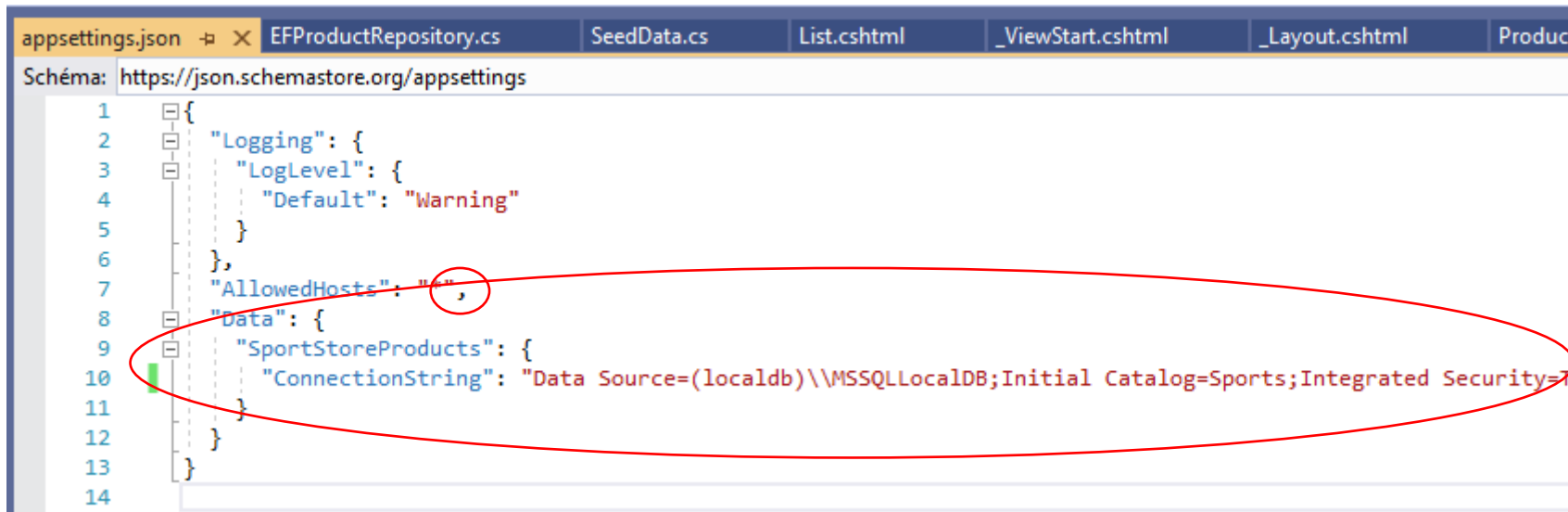
Sportovní obchod



Zkopírovat obsah vlastnosti
Connection string

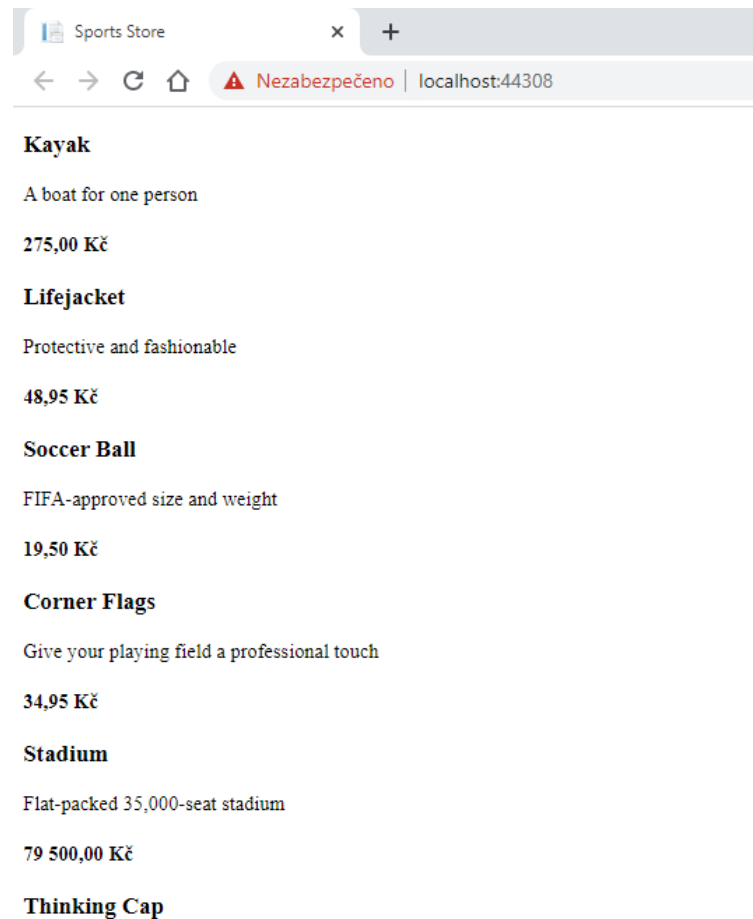
Sportovní obchod

Upravit
appsettings.json



```
appsettings.json  EFProductRepository.cs  SeedData.cs  List.cshtml  _ViewStart.cshtml  _Layout.cshtml  Produ...
Schéma: https://json.schemastore.org/appsettings
1  {
2  "Logging": {
3  "LogLevel": {
4  "Default": "Warning"
5  }
6  },
7  "AllowedHosts": "*",
8  "Data": {
9  "SportStoreProducts": {
10 "ConnectionString": "Data Source=(localdb)\\MSSQLLocalDB;Initial Catalog=Sports;Integrated Security=7
11 }
12 }
13 }
14 }
```

Sportovní obchod



Sportovní obchod

- Přidáme stránkování

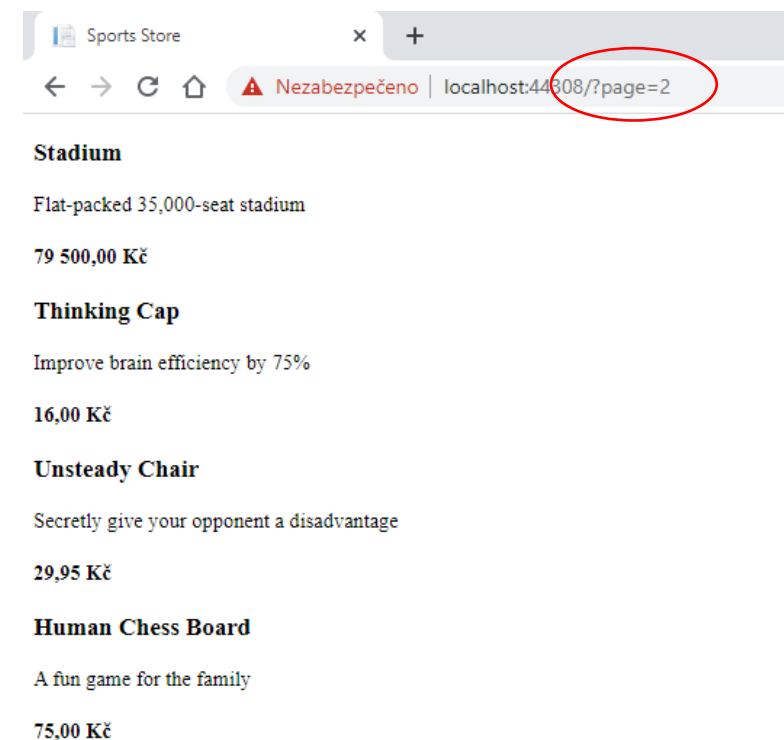
Upravit
Controllers / ProductController.cs

```
namespace _03_web_SportsStore.Controllers
{
    Počet odkazů: 1
    public class ProductController : Controller
    {
        private IProductRepository repository;
        public int PageSize = 4;

        Počet odkazů: 0 | 0 výjimky
        public ProductController(IProductRepository repo)
        {
            repository = repo;
        }

        Počet odkazů: 0 | 0 žádosti | 0 výjimky
        public IActionResult List(int page = 1)
        => View(repository.Products
            .OrderBy(p => p.ProductID)
            .Skip((page - 1) * PageSize)
            .Take(PageSize));
    }
}
```

Spustit



The screenshot shows a web browser window titled "Sports Store" with a single tab. The address bar displays "localhost:44308/?page=2", with the page number "2" circled in red. A warning icon and the text "Nezabezpečeno" are visible in the address bar. The page content lists several items:

- Stadium**: Flat-packed 35,000-seat stadium, 79 500,00 Kč
- Thinking Cap**: Improve brain efficiency by 75%, 16,00 Kč
- Unsteady Chair**: Secretly give your opponent a disadvantage, 29,95 Kč
- Human Chess Board**: A fun game for the family, 75,00 Kč

Sportovní obchod

Models / ViewModels / PagingInfo.cs

```
PagingInfo.cs  appsettings.json  EFProductRepository.cs  List.cshtml  _ViewStart.cshtml  _Layout
03_web_SportsStore
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace _03_web_SportsStore.Models.ViewModels
7  {
8      public class PagingInfo
9      {
10         public int TotalItems { get; set; }
11         public int ItemsPerPage { get; set; }
12         public int CurrentPage { get; set; }
13         public int TotalPages => (int)Math.Ceiling((decimal)TotalItems / ItemsPerPage);
14     }
15 }
16
```

Sportovní obchod

```
PageLinkTagHelper.cs x PAGINGINFO.cs appsettings.json EFProductRepository.cs List.cshtml _ViewStart
03_web_SportsStore - 03_web_SportsStore.Infrastructure.PageLink
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using _03_web_SportsStore.Models.ViewModels;
6 using Microsoft.AspNetCore.Mvc;
7 using Microsoft.AspNetCore.Mvc.Rendering;
8 using Microsoft.AspNetCore.Mvc.Routing;
9 using Microsoft.AspNetCore.Mvc.ViewFeatures;
10 using Microsoft.AspNetCore.Razor.TagHelpers;
11
12 namespace _03_web_SportsStore.Infrastructure
13 {
14     [HtmlTargetElement("div", Attributes = "page-model")]
15     public class PageLinkTagHelper : TagHelper
16     {
17         private IUrlHelperFactory urlHelperFactory;
18         public PageLinkTagHelper(IUrlHelperFactory helperFactory)
19         {
20             urlHelperFactory = helperFactory;
21         }
22         [ViewContext]
23         [HtmlAttributeNotBound]
24         public ViewContext ViewContext { get; set; }
25         public PagingInfo PageModel { get; set; }
26         public string PageAction { get; set; }
27         public override void Process(TagHelperContext context,
28             TagHelperOutput output)
29         {
30             IUrlHelper urlHelper = urlHelperFactory.GetUrlHelper(ViewContext);
31             TagBuilder result = new TagBuilder("div");
32             for (int i = 1; i <= PageModel.TotalPages; i++)
33             {
34                 TagBuilder tag = new TagBuilder("a");
35                 tag.Attributes["href"] = urlHelper.Action(PageAction, new { page = i });
36                 tag.InnerHtml.Append(i.ToString());
37                 result.InnerHtml.AppendHtml(tag);
38             }
39             output.Content.AppendHtml(result.InnerHtml);
40         }
41     }
42 }
```

Infrastructure / PageLinkTagHelper.cs

TagHelper – propojuje
logiku C# s Views

Sportovní obchod

Upravit
Views / _ViewImports.cshtml

```
_ViewImports.cshtml | PageLinkTagHelper.cs | PagingInfo.cs | appsettings.json | EFProc...
1 @using _03_web_SportsStore
2 @using _03_web_SportsStore.Models
3 @using _03_web_SportsStore.Models.ViewModels
4 @addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
5 @addTagHelper _03_web_SportsStore.Infrastructure.*, SportsStore
6
```

Sportovní obchod

Models / ViewModels / ProductListViewModel.cs

```
ProductsListViewModel.cs  _ViewImports.cshtml  PageLinkTagHelper.cs  Pag
03_web_SportsStore
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace _03_web_SportsStore.Models.ViewModels
7  {
8      public class ProductListViewModel
9      {
10         public IEnumerable<Product> Products { get; set; }
11         public PagingInfo PagingInfo { get; set; }
12     }
13 }
14
```

Sportovní obchod

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using Microsoft.AspNetCore.Mvc;
6 using _03_web_SportsStore.Models;
7 using _03_web_SportsStore.Models.ViewModels;
8
9 namespace _03_web_SportsStore.Controllers
10 {
11     Počet odkazů: 1
12     public class ProductController : Controller
13     {
14         private IProductRepository repository;
15         public int PageSize = 4;
16
17         Počet odkazů: 0 | 0 výjimky
18         public ProductController(IProductRepository repo)
19         {
20             repository = repo;
21
22         Počet odkazů: 0 | 0 žádostí | 0 výjimky
23         public IActionResult List(int page = 1)
24         => View(new ProductsListViewModel
25         {
26             Products = repository.Products
27                 .OrderBy(p => p.ProductID)
28                 .Skip((page - 1) * PageSize)
29                 .Take(PageSize),
30             PagingInfo = new PagingInfo
31             {
32                 CurrentPage = page,
33                 ItemsPerPage = PageSize,
34                 TotalItems = repository.Products.Count()
35             }
36         });
37     }
38 }
```

Upravit
Controllers / ProductController.cs

Musel jsem přejmenovat z
03_web_SportsStore na
SportsStore, abych to rozjel...

Spustit

Sportovní obchod

The image displays three browser screenshots of a sports store application. Each screenshot shows a different page of the store, with a blue U-shaped line connecting the bottom of the first two screenshots and the top of the third. The screenshots are as follows:

- Screenshot 1 (localhost:44308):** Shows a list of products: **Kayak** (275,00 Kč), **Lifejacket** (48,95 Kč), **Soccer Ball** (19,50 Kč), and **Corner Flags** (34,95 Kč). A link [123](#) is visible at the bottom.
- Screenshot 2 (localhost:44308/?page=2):** Shows a list of products: **Stadium** (79 500,00 Kč), **Thinking Cap** (16,00 Kč), **Unsteady Chair** (29,95 Kč), and **Human Chess Board** (75,00 Kč). A link [123](#) is visible at the bottom.
- Screenshot 3 (localhost:44308/?page=3):** Shows a list of products: **Bling-Bling King** (1 200,00 Kč). A link [123](#) is visible at the bottom.

Sportovní obchod

Upravit
Startup.cs

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Home/Error");
        app.UseHsts();
    }

    app.UseHttpsRedirection();
    app.UseStaticFiles();
    app.UseCookiePolicy();

    app.UseMvc(routes =>
    {
        routes.MapRoute(
            name: "pagination",
            template: "Products/Page{page}",
            defaults: new { Controller = "Product", action = "List" });

        routes.MapRoute(
            name: "default",
            template: "{controller=Product}/{action=List}/{id?}");
    });
}
```

localhost:44308/?page=2

localhost:44308/Products/Page2

Spustit

Sportovní obchod

Upravit

Views / Shared / _Layout.cshtml

- Upravíme vzhled

```
_Layout.cshtml  + X
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6      <link rel="stylesheet" asp-href-include="lib/bootstrap/dist/css/*.min.css" />
7      <title>Sports Store</title>
8  </head>
9  <body>
10     <div class="navbar navbar-inverse" role="navigation">
11         <a class="navbar-brand" href="#">SPORTS STORE</a>
12     </div>
13     <div class="row panel">
14         <div id="categories" class="col-xs-3">
15             Put something useful here later
16         </div>
17         <div class="col-xs-8">
18             @RenderBody()
19         </div>
20     </div>
21 </body>
22 </html>
23
```

Spustit

Sportovní obchod

SPORTS STORE

Put something useful here later

Kayak
A boat for one person
275,00 Kč

Lifejacket
Protective and fashionable
48,95 Kč

Soccer Ball
FIFA-approved size and weight
19,50 Kč

Corner Flags
Give your playing field a professional touch
34,95 Kč

[123](#)

Sportovní obchod

Upravit
Views / Product / List.cshtml

```
List.cshtml  _Layout.cshtml
1  @model ProductsListViewModel
2
3  @foreach (var p in Model.Products)
4  {
5      <div class="well">
6          <h3>
7              <strong>@p.Name</strong>
8              <span class="pull-right label label-primary">
9                  @p.Price.ToString("c")
10             </span>
11          </h3>
12          <span class="lead">@p.Description</span>
13      </div>
14  }
15
16  <div page-model="@Model.PagingInfo" page-action="List" page-classes-enabled="true"
17      page-class="btn" page-class-normal="btn-default"
18      page-class-selected="btn-primary" class="btn-group pull-right">
19  </div>
```

Sportovní obchod

Upravit

Infrastructure / PageLinkTagHelper.cs

```
[ViewContext]
[HtmlAttributeNotBound]
Počet odkazů: 1 | 0 výjimky
public ViewContext ViewContext { get; set; }
Počet odkazů: 3 | 0 výjimky
public PagingInfo PageModel { get; set; }
Počet odkazů: 2 | 0 výjimky
public string PageAction { get; set; }

Počet odkazů: 1 | 0 výjimky
public bool PageClassesEnabled { get; set; } = false;
Počet odkazů: 1 | 0 výjimky
public string PageClass { get; set; }
Počet odkazů: 1 | 0 výjimky
public string PageClassNormal { get; set; }
Počet odkazů: 1 | 0 výjimky
public string PageClassSelected { get; set; }

Počet odkazů: 0 | 0 výjimky
public override void Process(TagHelperContext context,
TagHelperOutput output)
{
    IUrlHelper urlHelper = urlHelperFactory.GetUrlHelper(ViewContext);
    TagBuilder result = new TagBuilder("div");
    for (int i = 1; i <= PageModel.TotalPages; i++)
    {
        TagBuilder tag = new TagBuilder("a");
        tag.Attributes["href"] = urlHelper.Action(PageAction, new { page = i });
        if (PageClassesEnabled)
        {
            tag.AddCssClass(PageClass);
            tag.AddCssClass(i == PageModel.CurrentPage ? PageClassSelected : PageClassNormal);
        }
        tag.InnerHtml.Append(i.ToString());
        result.InnerHtml.AppendHtml(tag);
    }
    output.Content.AppendHtml(result.InnerHtml);
}
```

Spustit

Sportovní obchod

SPORTS STORE

Put something useful here later

- Kayak** 275,00 Kč
A boat for one person
- Lifejacket** 48,95 Kč
Protective and fashionable
- Soccer Ball** 19,50 Kč
FIFA-approved size and weight
- Corner Flags** 34,95 Kč
Give your playing field a professional touch

1 2 3

Sportovní obchod

- Přidáme navigaci

Sportovní obchod

Upravit

Models / ViewModels / ProductListViewModel.cs

```
ProductsListViewModel.cs [X]
SportsStore [Spor]
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5
6 namespace SportsStore.Models.ViewModels
7 {
8     Počet odkazů: 4
9     public class ProductListViewModel
10    {
11        Počet odkazů: 2 | 0 výjimky
12        public IEnumerable<Product> Products { get; set; }
13        Počet odkazů: 2 | 0 výjimky
14        public PagingInfo PagingInfo { get; set; }
15        Počet odkazů: 0 | 0 výjimky
16        public string CurrentCategory { get; set; }
17    }
18 }
```

Sportovní obchod

```
ProductController.cs  X
SportsStore  SportsStore.Cc
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using Microsoft.AspNetCore.Mvc;
6 using SportsStore.Models;
7 using SportsStore.Models.ViewModels;
8
9 namespace SportsStore.Controllers
10 {
11     public class ProductController : Controller
12     {
13         private IProductRepository repository;
14         public int PageSize = 4;
15
16         public ProductController(IProductRepository repo)
17         {
18             repository = repo;
19         }
20
21         public IActionResult List(string category, int page = 1)
22         => View(new ProductsListViewModel
23         {
24             Products = repository.Products
25                 .Where(p => category == null || p.Category == category)
26                 .OrderBy(p => p.ProductID)
27                 .Skip((page - 1) * PageSize)
28                 .Take(PageSize),
29             PagingInfo = new PagingInfo
30             {
31                 CurrentPage = page,
32                 ItemsPerPage = PageSize,
33                 TotalItems = repository.Products.Count()
34             },
35             CurrentCategory = category
36         });
37     }
38 }
```

Upravit
Controllers / ProductController.cs

Sportovní obchod

localhost:44308/?category=Soccer

SPORTS STORE

Put something useful here later

Soccer Ball 19,50 Kč
FIFA-approved size and weight

Corner Flags 34,95 Kč
Give your playing field a professional touch

Stadium 79 500,00 Kč
Flat-packed 35,000-seat stadium

1 2 3

Sportovní obchod

Upravit
Startup.cs

```
app.UseMvc(routes =>
{
    routes.MapRoute(
        name: null,
        template: "{category}/Page{page:int}",
        defaults: new { controller = "Product", action = "List" }
    );

    routes.MapRoute(
        name: null,
        template: "Page{page:int}",
        defaults: new { controller = "Product", action = "List", page = 1 }
    );

    routes.MapRoute(
        name: null,
        template: "{category}",
        defaults: new { controller = "Product", action = "List", page = 1 }
    );

    routes.MapRoute(
        name: null,
        template: "",
        defaults: new { controller = "Product", action = "List", page = 1 });

    routes.MapRoute(name: null, template: "{controller}/{action}/{id?}");
});
```

Metoda public void Configure

Sportovní obchod

Upravit

Infrastructure / PageLinkTagHelper.cs

Počet odkazů: 2 | 0 výjimky

```
public string PageAction { get; set; }
```

```
[HtmlAttributeName(DictionaryAttributePrefix = "page-url-")]
```

Počet odkazů: 2 | 0 výjimky

```
public Dictionary<string, object> PageUrlValues { get; set; } = new Dictionary<string, object>();
```

Počet odkazů: 2 | 0 výjimky

```
public bool PageClassesEnabled { get; set; } = false;
```

Počet odkazů: 2 | 0 výjimky

```
public string PageClass { get; set; }
```

Počet odkazů: 2 | 0 výjimky

```
public string PageClassNormal { get; set; }
```

Počet odkazů: 2 | 0 výjimky

```
public string PageClassSelected { get; set; }
```

Počet odkazů: 0 | 0 výjimky

```
public override void Process(TagHelperContext context,  
TagHelperOutput output)
```

```
{
```

```
    IUrlHelper urlHelper = urlHelperFactory.GetUrlHelper(ViewContext);
```

```
    TagBuilder result = new TagBuilder("div");
```

```
    for (int i = 1; i <= PageModel.TotalPages; i++)
```

```
    {
```

```
        TagBuilder tag = new TagBuilder("a");
```

```
        PageUrlValues["page"] = i;
```

```
        tag.Attributes["href"] = urlHelper.Action(PageAction, PageUrlValues);
```

```
        if (PageClassesEnabled)
```

```
        {
```

```
            tag.AddCssClass(PageClass);
```

```
            tag.AddCssClass(i == PageModel.CurrentPage ? PageClassSelected : PageClassNormal);
```

```
        }
```

```
        tag.InnerHtml.Append(i.ToString());
```

```
        result.InnerHtml.AppendHtml(tag);
```

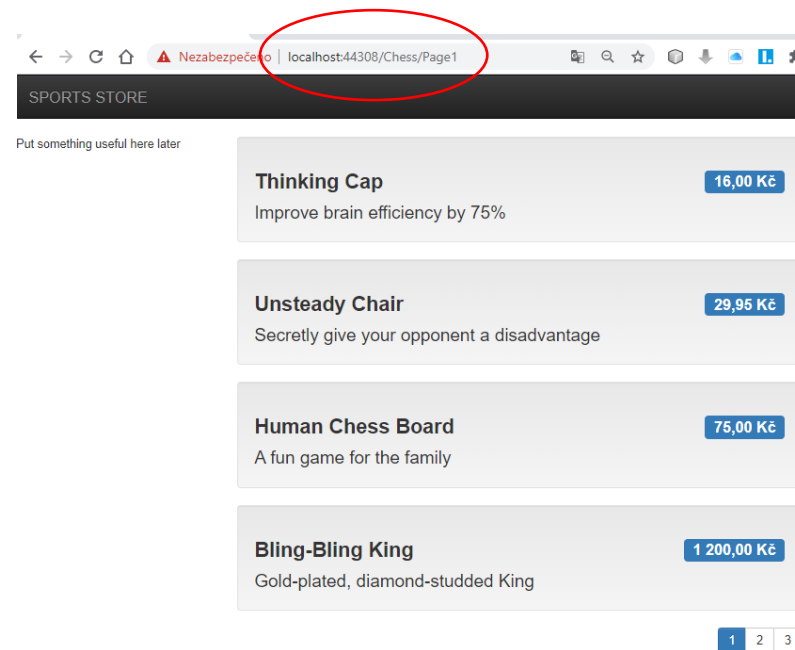
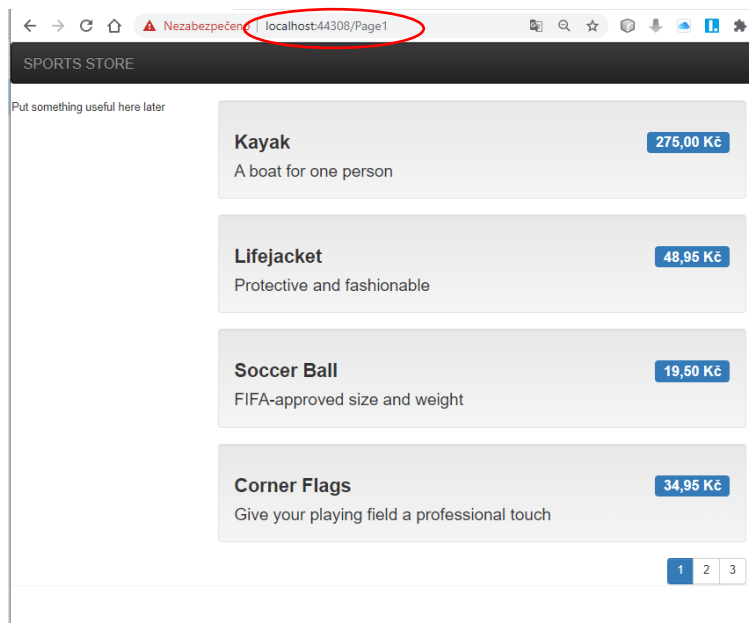
```
    }
```

Sportovní obchod

Upravit
Views / Product / List.cshtml

```
List.cshtml  + x
1  @model ProductsListViewModel
2
3  @foreach (var p in Model.Products)
4  {
5      <div class="well">
6          <h3>
7              <strong>@p.Name</strong>
8              <span class="pull-right label label-primary">
9                  @p.Price.ToString("c")
10             </span>
11             </h3>
12             <span class="lead">@p.Description</span>
13         </div>
14     }
15
16     <div page-model="@Model.PagingInfo" page-action="List" page-classes-enabled="true"
17         page-class="btn" page-class-normal="btn-default"
18         page-class-selected="btn-primary" page-url-category="@Model.CurrentCategory"
19         class="btn-group pull-right">
20     </div>
```

Sportovní obchod



Sportovní obchod

- Tvorba navigačního menu

Sportovní obchod

Components / NavigationMenuViewComponent.cs

```
NavigationMenuViewComponent.cs -> X
SportsStore
1 using Microsoft.AspNetCore.Mvc;
2 using System;
3 using System.Collections.Generic;
4 using System.Linq;
5 using System.Threading.Tasks;
6
7 namespace SportsStore.Components
8 {
9     Počet odkazů: 0
10    public class NavigationMenuViewComponent : ViewComponent
11    {
12        Počet odkazů: 0 | 0 výjimky
13        public string Invoke()
14        {
15            return "Return from Nav Menu Component";
16        }
17    }
18 }
```

Sportovní obchod

Upravit

Views / Shared / _Layout.cshtml

```
_Layout.cshtml
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8" />
5   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6   <link rel="stylesheet" asp-href-include="lib/bootstrap/dist/css/*.min.css" />
7   <title>Sports Store</title>
8 </head>
9 <body>
10  <div class="navbar navbar-inverse" role="navigation">
11    <a class="navbar-brand" href="#">SPORTS STORE</a>
12  </div>
13  <div class="row panel">
14    <div id="categories" class="col-xs-3">
15      @await Component.InvokeAsync("NavigationMenu")
16    </div>
17    <div class="col-xs-8">
18      @RenderBody()
19    </div>
20  </div>
21 </body>
22 </html>
23
```

Spustit

Sportovní obchod

SPORTS STORE

Return from Nav Menu Component

Kayak A boat for one person	275,00 Kč
Lifejacket Protective and fashionable	48,95 Kč
Soccer Ball FIFA-approved size and weight	19,50 Kč
Corner Flags Give your playing field a professional touch	34,95 Kč

1 2 3

Sportovní obchod

Upravit

Components / NavigationMenuViewComponent.cs

```
NavigationMenuViewComponent.cs [X]
SportsStore [SportsStore.Component]
1 using Microsoft.AspNetCore.Mvc;
2 using SportsStore.Models;
3 using System;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Threading.Tasks;
7
8 namespace SportsStore.Components
9 {
10     public class NavigationMenuViewComponent : ViewComponent
11     {
12         private IProductRepository repository;
13         public NavigationMenuViewComponent(IProductRepository repo)
14         {
15             repository = repo;
16         }
17         public IViewComponentResult Invoke()
18         {
19             return View(repository.Products
20                 .Select(x => x.Category)
21                 .Distinct()
22                 .OrderBy(x => x));
23         }
24     }
25 }
26
```

Sportovní obchod

Views / Shared / Components / NavigationMenu / Default.cshtml

```
Default.cshtml  + X
1  @model IEnumerable<string>
2  <a class="btn btn-block btn-default"
3     asp-action="List"
4     asp-controller="Product"
5     asp-route-category="">
6     Home
7  </a>
8
9  @foreach (string category in Model)
10 {
11     <a class="btn btn-block btn-default"
12        asp-action="List"
13        asp-controller="Product"
14        asp-route-category="@category"
15        asp-route-page="1">
16        @category
17     </a>
18 }
```

Spustit

Sportovní obchod

SPORTS STORE

- Home
- Chess
- Soccer
- Watersports

Kayak 275,00 Kč
A boat for one person

Lifejacket 48,95 Kč
Protective and fashionable

Soccer Ball 19,50 Kč
FIFA-approved size and weight

Corner Flags 34,95 Kč
Give your playing field a professional touch

1 2 3

Sportovní obchod

- Zvýrazníme vybranou kategorií

Sportovní obchod

Upravit

Components / NavigationMenuViewComponent.cs

```
NavigationMenuViewComponent.cs
SportsStore
SportsStore.Components

1 using Microsoft.AspNetCore.Mvc;
2 using SportsStore.Models;
3 using System;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Threading.Tasks;
7
8 namespace SportsStore.Components
9 {
10     Počet odkazů: 1
11     public class NavigationMenuViewComponent : ViewComponent
12     {
13         Počet odkazů: 0 | 0 výjimky
14         private IProductRepository repository;
15         public NavigationMenuViewComponent(IProductRepository repo)
16         {
17             repository = repo;
18         }
19         Počet odkazů: 0 | 0 výjimky
20         public IActionResult Invoke()
21         {
22             ViewBag.SelectedCategory = RouteData?.Values["category"];
23             return View(repository.Products
24                 .Select(x => x.Category)
25                 .Distinct()
26                 .OrderBy(x => x));
27         }
28     }
29 }
```

Sportovní obchod

Upravit

Views / Shared / Components / NavigationMenu / Default.cshtml

```
Default.cshtml  -  X
1  @model IEnumerable<string>
2  <a class="btn btn-block btn-default"
3     asp-action="List"
4     asp-controller="Product"
5     asp-route-category="">
6     Home
7  </a>
8
9  @foreach (string category in Model)
10 {
11     <a class="btn btn-block
12        @(category == ViewBag.SelectedCategory ? "btn-primary": "btn-default")"
13        asp-action="List"
14        asp-controller="Product"
15        asp-route-category="@category"
16        asp-route-page="1">
17        @category
18    </a>
19 }
```

Spustit

Sportovní obchod

SPORTS STORE

- Home
- Chess**
- Soccer
- Watersports

Thinking Cap 16,00 Kč
Improve brain efficiency by 75%

Unsteady Chair 29,95 Kč
Secretly give your opponent a disadvantage

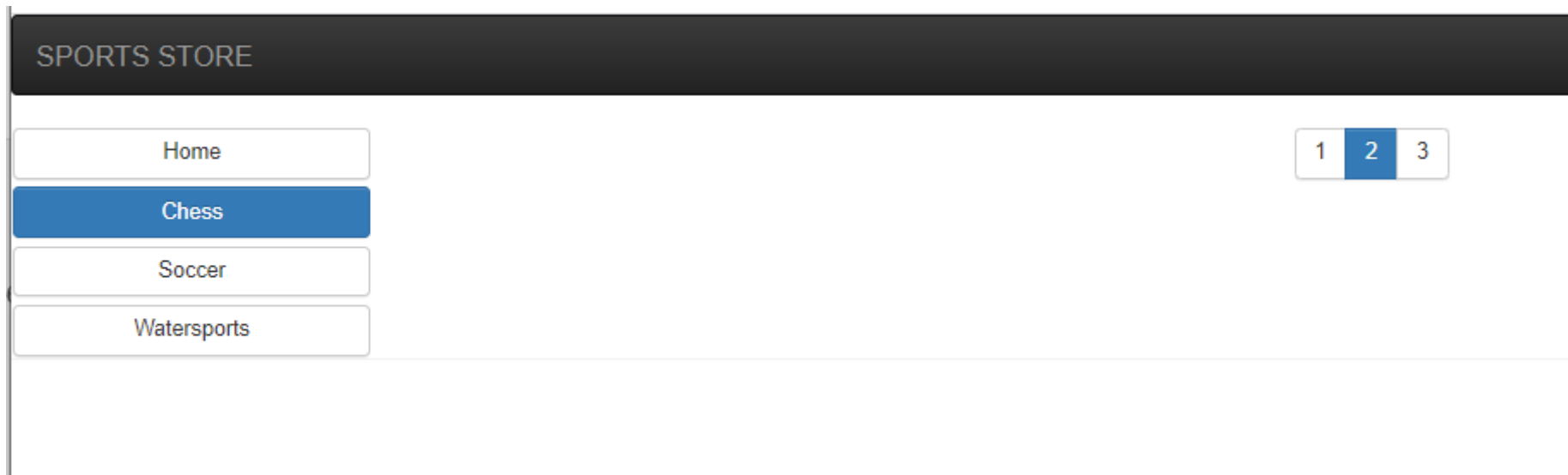
Human Chess Board 75,00 Kč
A fun game for the family

Bling-Bling King 1 200,00 Kč
Gold-plated, diamond-studded King

1 2 3

Sportovní obchod

Opravíme nyní stránkování kategorií



Sportovní obchod

Upravit
Controllers / ProductController.cs

Počet odkazů: 0 | 0 žádostí | 0 výjimky

```
public IActionResult List(string category, int page = 1)
=> View(new ProductsListViewModel
{
    Products = repository.Products
        .Where(p => category == null || p.Category == category)
        .OrderBy(p => p.ProductID)
        .Skip((page - 1) * PageSize)
        .Take(PageSize),
    PagingInfo = new PagingInfo
    {
        CurrentPage = page,
        ItemsPerPage = PageSize,
        TotalItems = category == null ?
            repository.Products.Count() :
            repository.Products.Where(e => e.Category == category).Count()
    },
    CurrentCategory = category
});
```

Spustit

Sportovní obchod

SPORTS STORE

- Home
- Chess**
- Soccer
- Watersports

Thinking Cap 16,00 Kč
Improve brain efficiency by 75%

Unsteady Chair 29,95 Kč
Secretly give your opponent a disadvantage

Human Chess Board 75,00 Kč
A fun game for the family

Bling-Bling King 1 200,00 Kč
Gold-plated, diamond-studded King

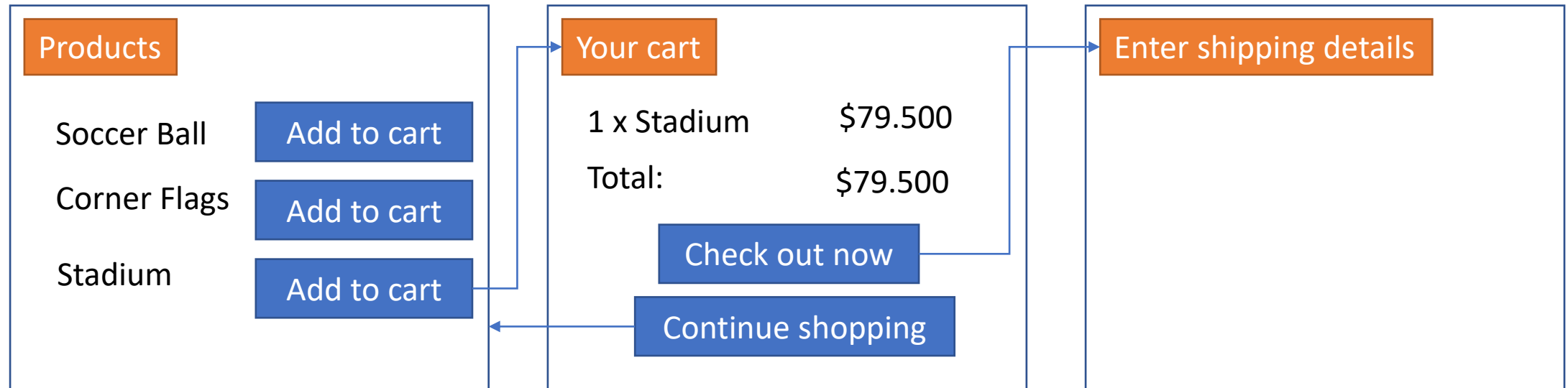
1

Sportovní obchod

- Vytvoříme nákupní košík

Sportovní obchod

- Vytvoříme nákupní košík



Sportovní obchod

```
Cart.cs  X
SportsStore  SportsStore.Models.Cart

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace SportsStore.Models
7  {
8      Počet odkazů: 0
9      public class Cart
10     {
11         private List<CartLine> lineCollection = new List<CartLine>();
12         Počet odkazů: 0 | 0 výjimky
13         public virtual void AddItem(Product product, int quantity)
14         {
15             CartLine line = lineCollection
16                 .Where(p => p.Product.ProductID == product.ProductID)
17                 .FirstOrDefault();
18
19             if (line == null)
20             {
21                 lineCollection.Add(new CartLine
22                 {
23                     Product = product,
24                     Quantity = quantity
25                 });
26             }
27             else
28             {
29                 line.Quantity += quantity;
30             }
31         }
32         Počet odkazů: 0 | 0 výjimky
33         public virtual void RemoveLine(Product product) =>
34             lineCollection.RemoveAll(l => l.Product.ProductID == product.ProductID);
35         Počet odkazů: 0 | 0 výjimky
36         public virtual decimal ComputeTotalValue() =>
37             lineCollection.Sum(e => e.Product.Price * e.Quantity);
38         Počet odkazů: 0 | 0 výjimky
39         public virtual void Clear() => lineCollection.Clear();
40         Počet odkazů: 0 | 0 výjimky
41         public virtual IEnumerable<CartLine> Lines => lineCollection;
42     }
43 }
```

Models / Cart.cs

```
Počet odkazů: 5
37 public class CartLine
38 {
39     Počet odkazů: 0 | 0 výjimky
40     public int CartLineID { get; set; }
41     Počet odkazů: 4 | 0 výjimky
42     public Product Product { get; set; }
43     Počet odkazů: 3 | 0 výjimky
44     public int Quantity { get; set; }
45 }
```

Sportovní obchod

Infrastructure / UrlExtensions.cs

```
UrlExtensions.cs [X]
SportsStore - SportsStore.Infrastructure.UrlExtensions
1 using Microsoft.AspNetCore.Http;
2 using System;
3 using System.Collections.Generic;
4 using System.Linq;
5 using System.Threading.Tasks;
6
7 namespace SportsStore.Infrastructure
8 {
9     Počet odkazů: 0
10    public static class UrlExtensions
11    {
12        Počet odkazů: 0 | 0 výjimky
13        public static string PathAndQuery(this HttpRequest request) =>
14            request.QueryString.HasValue ? $"{request.Path}{request.QueryString}" : request.Path.ToString();
15    }
16 }
```

Sportovní obchod

Upravit
Views / _ViewImports.cshtml

```
_ViewImports.cshtml  ▢ X
1  @using SportsStore
2  @using SportsStore.Models
3  @using SportsStore.Models.ViewModels
4  @using SportsStore.Infrastructure
5  @addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
6  @addTagHelper SportsStore.Infrastructure.*, SportsStore
7
```


Sportovní obchod

Views / Product / ProductSummary.cshtml

```
ProductSummary.cshtml  X
1  @model Product
2  <div class="well">
3  <h3>
4      <strong>@Model.Name</strong>
5      <span class="pull-right label label-primary">
6          @Model.Price.ToString("c")
7      </span>
8  </h3>
9  <form id="@Model.ProductID" asp-action="AddToCart"
10     asp-controller="Cart" method="post">
11     <input type="hidden" asp-for="ProductID" />
12     <input type="hidden" name="returnUrl"
13         value="@ViewContext.HttpContext.Request.PathAndQuery()" />
14     <span class="lead">
15         @Model.Description
16         <button type="submit" class="btn btn-success btn-sm pull-right">
17             Add To Cart
18         </button>
19     </span>
20 </form>
21 </div>
```

Sportovní obchod

Upravit
Views / Product / List.cshtml

```
List.cshtml  ▸ ×
1  @model ProductsListViewModel
2
3  @foreach (var p in Model.Products)
4  {
5      @Html.Partial("ProductSummary", p)
6  }
7
8  <div page-model="@Model.PagingInfo" page-action="List" page-classes-enabled="true"
9      page-class="btn" page-class-normal="btn-default"
10     page-class-selected="btn-primary" page-url-category="@Model.CurrentCategory"
11     class="btn-group pull-right">
12 </div>
```

Sportovní obchod

Upravit
Startup.cs

- Povolíme Session

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDbContext<ApplicationDbContext>(options => options.UseSqlServer(Configuration["Data:SportStoreProducts:ConnectionString"]));

    services.AddTransient<IProductRepository, EFProductRepository>();

    services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_1);

    services.AddMemoryCache();
    services.AddSession();
}
```

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Home/Error");
        app.UseHsts();
    }

    app.UseHttpsRedirection();
    app.UseStaticFiles();
    app.UseCookiePolicy();
    app.UseSession();

    app.UseMvc(routes =>
    {

```

Sportovní obchod

Infrastructure / SessionExtensions.cs

```
SessionExtensions.cs ▶ ×
SportsStore ▶ SportsStore.Infrastructure.SessionExtensions
1 using Microsoft.AspNetCore.Http;
2 using Newtonsoft.Json;
3 using System;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Threading.Tasks;
7
8 namespace SportsStore.Infrastructure
9 {
10     Počet odkazů: 0
11     public static class SessionExtensions
12     {
13         Počet odkazů: 1 | 0 výjimky
14         public static void SetJson(this ISession session, string key, object value)
15         {
16             session.SetString(key, JsonConvert.SerializeObject(value));
17         }
18         Počet odkazů: 1 | 0 výjimky
19         public static T GetJson<T>(this ISession session, string key)
20         {
21             var sessionData = session.GetString(key);
22             return sessionData == null ? default(T) : JsonConvert.DeserializeObject<T>(sessionData);
23         }
24     }
25 }
```

Sportovní obchod

```
CartController.cs  X
SportsStore  SportsStore.Controllers.CartCo

1  using Microsoft.AspNetCore.Mvc;
2  using Microsoft.AspNetCore.Http;
3  using SportsStore.Models;
4  using SportsStore.Infrastructure;
5  using System;
6  using System.Collections.Generic;
7  using System.Linq;
8  using System.Threading.Tasks;
9
10 namespace SportsStore.Controllers
11 {
12     Počet odkazů: 1
13     public class CartController : Controller
14     {
15         Počet odkazů: 0 | 0 výjimky
16         private IProductRepository repository;
17         public CartController(IProductRepository repo)
18         {
19             repository = repo;
20         }
21         Počet odkazů: 0 | 0 žádostí | 0 výjimky
22         public RedirectToActionResult AddToCart(int productId, string returnUrl)
23         {
24             Product product = repository.Products
25             .FirstOrDefault(p => p.ProductID == productId);
26             if (product != null)
27             {
28                 Cart cart = GetCart();
29                 cart.AddItem(product, 1);
30                 SaveCart(cart);
31             }
32             return RedirectToAction("Index", new { returnUrl });
33         }
34     }
35     Počet odkazů: 0 | 0 žádostí | 0 výjimky
```

Controllers / CartController.cs

```
31
32
33     Počet odkazů: 0 | 0 žádostí | 0 výjimky
34     public RedirectToActionResult RemoveFromCart(int productId,
35     string returnUrl)
36     {
37         Product product = repository.Products
38         .FirstOrDefault(p => p.ProductID == productId);
39         if (product != null)
40         {
41             Cart cart = GetCart();
42             cart.RemoveLine(product);
43             SaveCart(cart);
44         }
45         return RedirectToAction("Index", new { returnUrl });
46     }
47     Počet odkazů: 2 | 0 výjimky
48     private Cart GetCart()
49     {
50         Cart cart = HttpContext.Session.GetJson<Cart>("Cart") ?? new Cart();
51         return cart;
52     }
53     Počet odkazů: 2 | 0 výjimky
54     private void SaveCart(Cart cart)
55     {
56         HttpContext.Session.SetJson("Cart", cart);
57     }
58 }
```

Sportovní obchod

Models / ViewModels / CartIndexViewModel.cs

- Zobrazení komponent

```
CartIndexViewModel.cs  X
SportsStore
1  using SportsStore.Models;
2
3  namespace SportsStore.Models.ViewModels
4  {
5      public class CartIndexViewModel
6      {
7          public Cart Cart { get; set; }
8          public string returnUrl { get; set; }
9      }
10 }
11
```

Sportovní obchod

Upravit
Controllers / CartController.cs

```
CartController.cs [X]
SportsStore
1 using Microsoft.AspNetCore.Mvc;
2 using Microsoft.AspNetCore.Http;
3 using SportsStore.Models;
4 using SportsStore.Infrastructure;
5 using System;
6 using System.Collections.Generic;
7 using System.Linq;
8 using System.Threading.Tasks;
9 using SportsStore.Models.ViewModels;
10
11 namespace SportsStore.Controllers
12 {
13     Počet odkazů: 1
14     public class CartController : Controller
15     {
16         Počet odkazů: 0 | 0 výjimky
17         private IProductRepository repository;
18         public CartController(IProductRepository repo)
19         {
20             repository = repo;
21         }
22         Počet odkazů: 0 | 0 žádosti | 0 výjimky
23         public IActionResult Index(string returnUrl)
24         {
25             return View(new CartIndexViewModel
26             {
27                 Cart = GetCart(),
28                 ReturnUrl = returnUrl
29             });
30         }
31     }
32 }
```

Sportovní obchod

```
Index.cshtml  X
1  @model CartIndexViewModel
2  <h2>Your cart</h2>
3  <table class="table-bordered table-striped">
4      <thead>
5          <tr>
6              <th>Quantity</th>
7              <th>Item</th>
8              <th class="text-right">Price</th>
9              <th class="text-right">Subtotal</th>
10         </tr>
11     </thead>
12     <tbody>
13         @foreach (var line in Model.Cart.Lines)
14         {
15             <tr>
16                 <td class="text-center">@line.Quantity</td>
17                 <td class="text-left">@line.Product.Name</td>
18                 <td class="text-right">@line.Product.Price.ToString("c")</td>
19                 <td class="text-right">
20                     @((line.Quantity * line.Product.Price).ToString("c"))
21                 </td>
22             </tr>
23         }
24     </tbody>
25     <tfoot>
26         <tr>
27             <td colspan="3" class="text-right">Total:</td>
28             <td class="text-right">
29                 @Model.Cart.ComputeTotalValue().ToString("c")
30             </td>
31         </tr>
32     </tfoot>
33 </table>
34 <div class="text-center">
35     <a class="btn btn-primary" href="@Model.ReturnUrl">Continue shopping</a>
36 </div>
```

Views / Cart / Index.cshtml

Spustit

Sportovní obchod

SPORTS STORE

- Home
- Chess
- Soccer
- Watersports

Kayak 275,00 Kč
A boat for one person
[Add To Cart](#)

Lifejacket 48,95 Kč
Protective and fashionable
[Add To Cart](#)

Soccer Ball 19,50 Kč
FIFA-approved size and weight
[Add To Cart](#)

Corner Flags 34,95 Kč
Give your playing field a professional touch
[Add To Cart](#)

1 2 3

SPORTS STORE

- Home
- Chess
- Soccer
- Watersports

Your cart

Quantity	Item	Price	Subtotal
1	Kayak	275,00 Kč	275,00 Kč
1	Lifejacket	48,95 Kč	48,95 Kč
		Total:	323,95 Kč

[Continue shopping](#)

Sportovní obchod

- Dokončení košíku

Sportovní obchod

```
SessionCart.cs - SportsStore - SportsStore.Models.SessionCart
1 using Microsoft.AspNetCore.Http;
2 using Microsoft.Extensions.DependencyInjection;
3 using Newtonsoft.Json;
4 using SportsStore.Infrastructure;
5 using System;
6 using System.Collections.Generic;
7 using System.Linq;
8 using System.Threading.Tasks;
9
10 namespace SportsStore.Models
11 {
12     Počet odkazů: 3
13     public class SessionCart : Cart
14     {
15         Počet odkazů: 0 | 0 výjimky
16         public static Cart GetCart(IServiceProvider services)
17         {
18             ISession session = services.GetRequiredService<ISessionAccessor>()?
19             .HttpContext.Session;
20             SessionCart cart = session?.GetJson<SessionCart>("Cart")
21             ?? new SessionCart();
22             cart.Session = session;
23             return cart;
24         }
25         [JsonIgnore]
26         Počet odkazů: 4 | 0 výjimky
27         public ISession Session { get; set; }
28         Počet odkazů: 3 | 0 výjimky
29         public override void AddItem(Product product, int quantity)
30         {
31             base.AddItem(product, quantity);
32             Session.SetJson("Cart", this);
33         }
34         Počet odkazů: 3 | 0 výjimky
35         public override void RemoveLine(Product product)
36         {
37             base.RemoveLine(product);
38             Session.SetJson("Cart", this);
39         }
40         Počet odkazů: 2 | 0 výjimky
41         public override void Clear()
42         {
43             base.Clear();
44             Session.Remove("Cart");
45         }
46     }
47 }
```

Models / SessionCart.cs

Sportovní obchod

Upravit
Startup.cs

Počet odkazů: 0 | 0 výjimky

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDbContext<ApplicationDbContext>(options => options.UseSqlServer(Configuration["Data:SportStoreProducts:ConnectionString"]));

    services.AddTransient<IProductRepository, EFProductRepository>();

    services.AddScoped<Cart>(sp => SessionCart.GetCart(sp));

    services.AddSingleton<IHttpContextAccessor, HttpContextAccessor>();

    services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_1);

    services.AddMemoryCache();

    services.AddSession();
}
```

Sportovní obchod

```
CartController.cs [X]
SportsStore - SportsStore.Controller

1 using Microsoft.AspNetCore.Mvc;
2 using Microsoft.AspNetCore.Http;
3 using SportsStore.Models;
4 using SportsStore.Infrastructure;
5 using System;
6 using System.Collections.Generic;
7 using System.Linq;
8 using System.Threading.Tasks;
9 using SportsStore.Models.ViewModels;
10
11 namespace SportsStore.Controllers
12 {
13     Počet odkazů: 1
14     public class CartController : Controller
15     {
16         private IProductRepository repository;
17         private Cart cart;
18         Počet odkazů: 0 | 0 výjimky
19         public CartController(IProductRepository repo, Cart cartService)
20         {
21             repository = repo;
22             cart = cartService;
23         }
24         Počet odkazů: 0 | 0 žádosti | 0 výjimky
25         public IActionResult Index(string returnUrl)
26         {
27             return View(new CartIndexViewModel
28             {
29                 Cart = cart,
30                 ReturnUrl = returnUrl
31             });
32         }
33     }
34 }
```

Upravit Controllers / CartController.cs

```
31
32
33 Počet odkazů: 0 | 0 žádosti | 0 výjimky
34 public RedirectToActionResult AddToCart(int productId, string returnUrl)
35 {
36     Product product = repository.Products
37     .FirstOrDefault(p => p.ProductID == productId);
38     if (product != null)
39     {
40         cart.AddItem(product, 1);
41     }
42     return RedirectToAction("Index", new { returnUrl });
43 }
44 Počet odkazů: 0 | 0 žádosti | 0 výjimky
45 public RedirectToActionResult RemoveFromCart(int productId, string returnUrl)
46 {
47     Product product = repository.Products
48     .FirstOrDefault(p => p.ProductID == productId);
49     if (product != null)
50     {
51         cart.RemoveLine(product);
52     }
53     return RedirectToAction("Index", new { returnUrl });
54 }
55 Počet odkazů: 0 | 0 výjimky
56 private Cart GetCart()
57 {
58     Cart cart = HttpContext.Session.GetJson<Cart>("Cart") ?? new Cart();
59     return cart;
60 }
61 Počet odkazů: 0 | 0 výjimky
62 private void SaveCart(Cart cart)
63 {
64     HttpContext.Session.SetJson("Cart", cart);
65 }
66 }
```

Sportovní obchod

- Přidání vymazávání položek z košíku

Sportovní obchod

```
Index.cshtml  + X
1  @model CartIndexViewModel
2  <h2>Your cart</h2>
3  <table class="table table-bordered table-striped">
4  <thead>
5  <tr>
6  <th>Quantity</th>
7  <th>Item</th>
8  <th class="text-right">Price</th>
9  <th class="text-right">Subtotal</th>
10 </tr>
11 </thead>
12 <tbody>
13   @foreach (var line in Model.Cart.Lines)
14   {
15     <tr>
16       <td class="text-center">@line.Quantity</td>
17       <td class="text-left">@line.Product.Name</td>
18       <td class="text-right">@line.Product.Price.ToString("c")</td>
19       <td class="text-right">
20         @((line.Quantity * line.Product.Price).ToString("c"))
21       </td>
22       <td>
23         <form asp-action="RemoveFromCart" method="post">
24           <input type="hidden" name="ProductID"
25             value="@line.Product.ProductID" />
26           <input type="hidden" name="returnUrl"
27             value="@Model.ReturnUrl" />
28           <button type="submit" class="btn btn-sm btn-danger ">
29             Remove
30           </button>
31         </form>
32       </td>
33     </tr>
34   }
35 </tbody>
```

Upravit
Views / Cart / Index.cshtml

Spustit

Sportovní obchod

SPORTS STORE

Home

Chess

Soccer

Watersports

Your cart

Quantity	Item	Price	Subtotal	
1	Kayak	275,00 Kč	275,00 Kč	Remove
1	Lifejacket	48,95 Kč	48,95 Kč	Remove
1	Soccer Ball	19,50 Kč	19,50 Kč	Remove
Total:			343,45 Kč	

[Continue shopping](#)

SPORTS STORE

Home

Chess

Soccer

Watersports

Your cart

Quantity	Item	Price	Subtotal	
1	Kayak	275,00 Kč	275,00 Kč	Remove
1	Soccer Ball	19,50 Kč	19,50 Kč	Remove
Total:			294,50 Kč	

[Continue shopping](#)

Sportovní obchod

Components / CartSummaryViewComponent.cs

```
CartSummaryViewComponent.cs -> X
SportsStore
1 using Microsoft.AspNetCore.Mvc;
2 using SportsStore.Models;
3 using System;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Threading.Tasks;
7
8 namespace SportsStore.Components
9 {
10     Počet odkazů: 1
11     public class CartSummaryViewComponent : ViewComponent
12     {
13         Počet odkazů: 0 | 0 výjimky
14         private Cart cart;
15         public CartSummaryViewComponent(Cart cartService)
16         {
17             cart = cartService;
18         }
19         Počet odkazů: 0 | 0 výjimky
20         public IViewComponentResult Invoke()
21         {
22             return View(cart);
23         }
24     }
25 }
```

Sportovní obchod

Views / Shared / Components / CartSummary / Default.cshtml

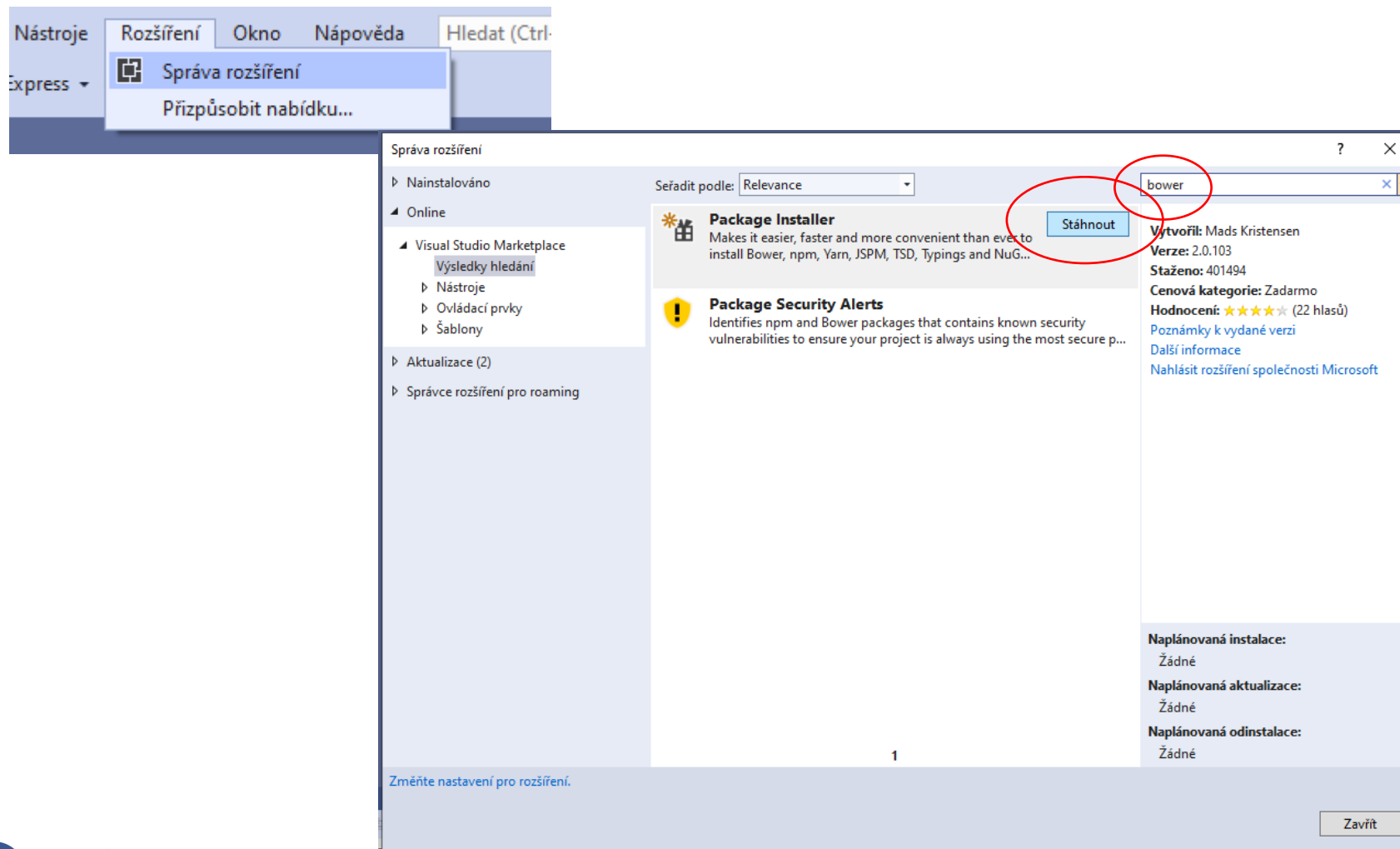
```
Default.cshtml  -  X
1  @model Cart
2  <div class="">
3  @if (Model.Lines.Count() > 0)
4  {
5      <small class="navbar-text">
6          <b>Your cart:</b>
7          @Model.Lines.Sum(x => x.Quantity) item(s)
8          @Model.ComputeTotalValue().ToString("c")
9      </small>
10 }
11 <a class="btn btn-sm btn-default navbar-btn"
12     asp-controller="Cart" asp-action="Index"
13     asp-route-returnurl="@ViewContext.HttpContext.Request.PathAndQuery()">
14     <i class="fa fa-shopping-cart"></i>
15 </a>
16 </div>
```

Sportovní obchod

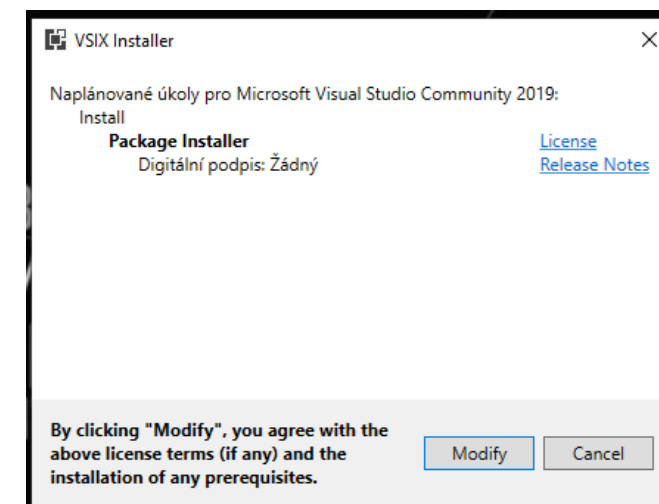
Upravit
Views / Shared / _Layout.cshtml

```
_Layout.cshtml  X
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6      <link rel="stylesheet" asp-href-include="lib/bootstrap/dist/css/*.min.css" />
7      <link rel="stylesheet" asp-href-include="/lib/fontawesome/css/*.css" />
8      <title>Sports Store</title>
9  </head>
10 <body>
11     <div class="navbar navbar-inverse" role="navigation">
12         <a class="navbar-brand" href="#">SPORTS STORE</a>
13         <div class="pull-right">
14             @await Component.InvokeAsync("CartSummary")
15         </div>
16     </div>
17     <div class="row panel">
18         <div id="categories" class="col-xs-3">
19             @await Component.InvokeAsync("NavigationMenu")
20         </div>
21         <div class="col-xs-8">
22             @RenderBody()
23         </div>
24     </div>
25 </body>
26 </html>
27
```

Sportovní obchod

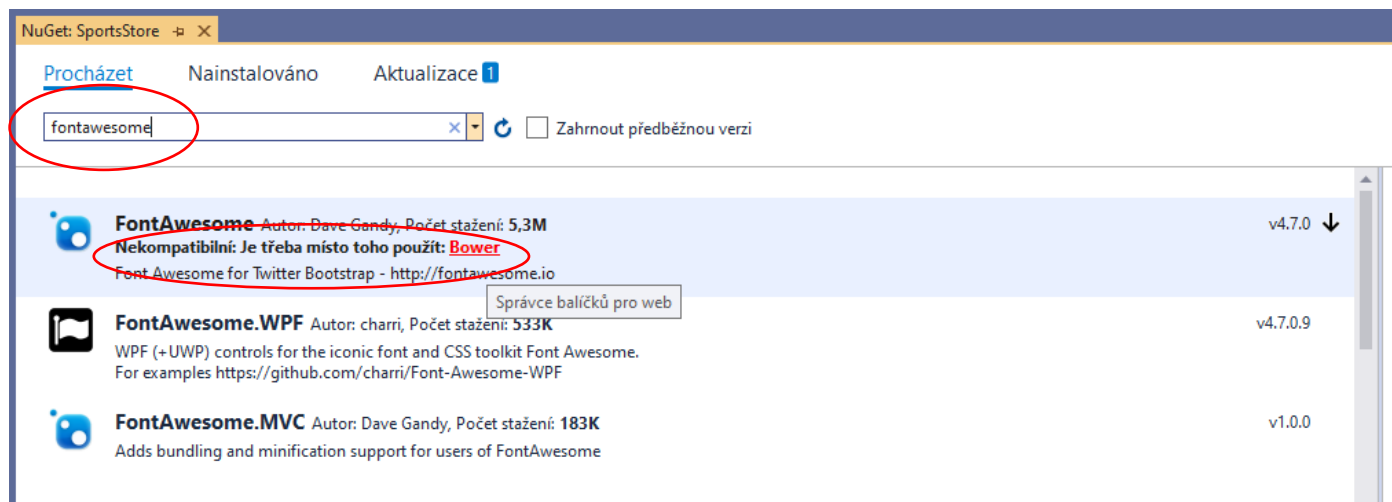
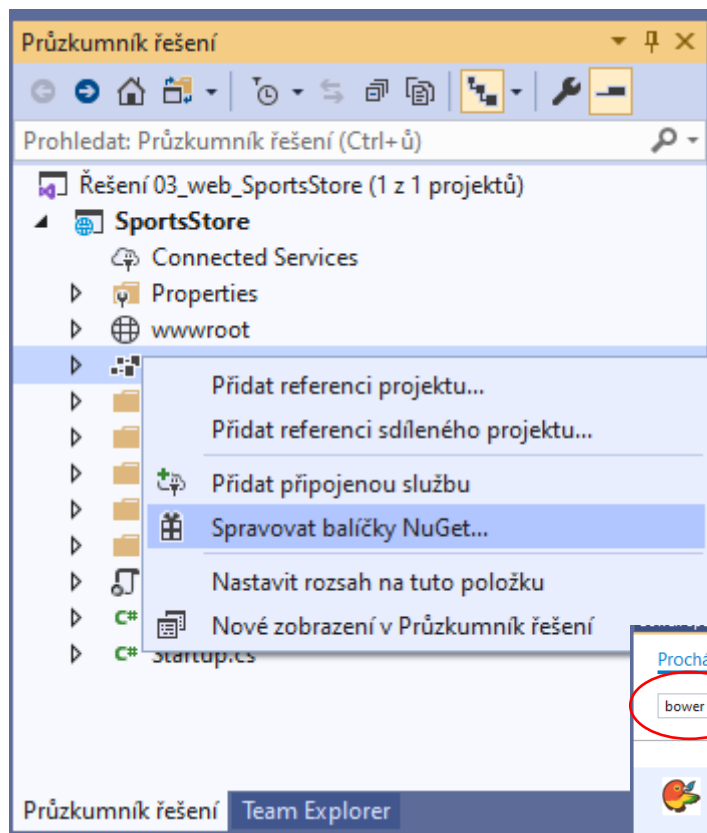


Zavřít
Zavřít i VS

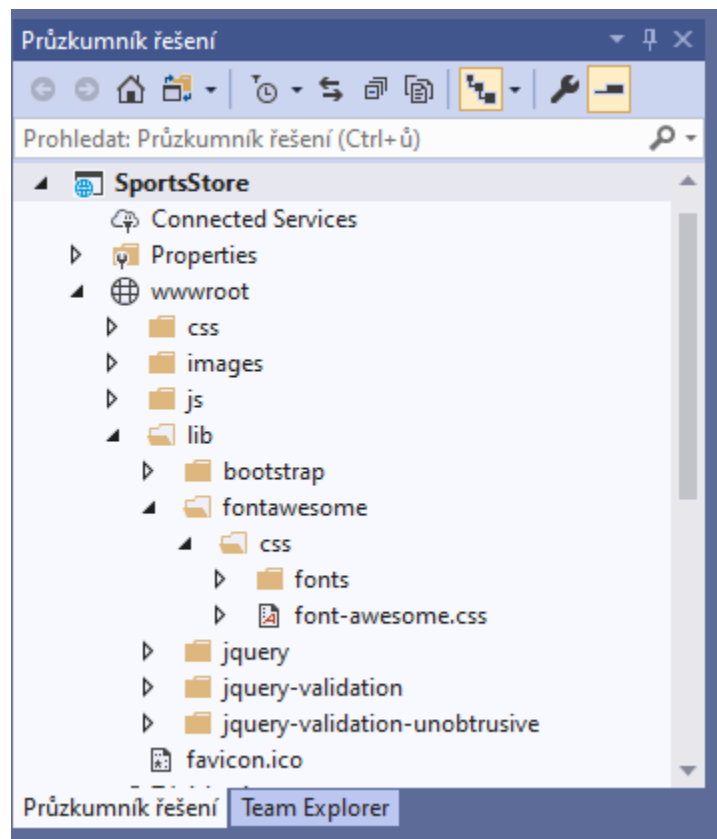


Znovu spustit

Sportovní obchod



Sportovní obchod



Spustit

Sportovní obchod

The screenshot displays a web application for a sports store. The main content area lists four products, each with a description, price, and an 'Add To Cart' button. The prices are: Kayak (275,00 Kč), Lifejacket (48,95 Kč), Soccer Ball (19,50 Kč), and Corner Flags (34,95 Kč). A navigation menu on the left includes 'Home', 'Chess', 'Soccer', and 'Watersports'. A shopping cart icon is visible in the top right corner, and a cart summary box at the bottom right shows 'Your cart: 1 item(s) 275,00 Kč'. The cart summary box is circled in red. The product 'Kayak' is also circled in red. The page number '95' is visible in the bottom right corner.

Product Name	Description	Price (Kč)	Action
Kayak	A boat for one person	275,00	Add To Cart
Lifejacket	Protective and fashionable	48,95	Add To Cart
Soccer Ball	FIFA-approved size and weight	19,50	Add To Cart
Corner Flags	Give your playing field a professional touch	34,95	Add To Cart

Shopping Cart Summary: Your cart: 1 item(s) 275,00 Kč

Sportovní obchod

- Finalizace objednávky

Sportovní obchod

```
Order.cs SportsStore.Models
1 using Microsoft.AspNetCore.Mvc.ModelBinding;
2 using System;
3 using System.Collections.Generic;
4 using System.ComponentModel.DataAnnotations;
5 using System.Linq;
6 using System.Threading.Tasks;
7
8 namespace SportsStore.Models
9 {
10     public class Order
11     {
12         [BindNever]
13         public int OrderID { get; set; }
14
15         [BindNever]
16         public ICollection<CartLine> Lines { get; set; }
17
18         [Required(ErrorMessage = "Please enter a name")]
19         public string Name { get; set; }
20
21         [Required(ErrorMessage = "Please enter the first address line")]
22         public string Line1 { get; set; }
23         public string Line2 { get; set; }
24         public string Line3 { get; set; }
25
26         [Required(ErrorMessage = "Please enter a city name")]
27         public string City { get; set; }
28
29         [Required(ErrorMessage = "Please enter a state name")]
30         public string State { get; set; }
31         public string Zip { get; set; }
32
33         [Required(ErrorMessage = "Please enter a country name")]
34         public string Country { get; set; }
35         public bool GiftWrap { get; set; }
36     }
37 }
```

Models / Order.cs


Sportovní obchod

Upravit
Views / Cart / Index.cshtml

```
..
45 <div class="text-center">
46   <a class="btn btn-primary" href="@Model.ReturnUrl">Continue shopping</a>
47   <a class="btn btn-primary" asp-action="Checkout" asp-controller="Order">Checkout</a>
48 </div>
```

Spustit

Sportovní obchod

SPORTS STORE Your cart: 2 item(s) 323,95 Kč 

Home
Chess
Soccer
Watersports

Your cart

Quantity	Item	Price	Subtotal	
1	Kayak	275,00 Kč	275,00 Kč	Remove
1	Lifejacket	48,95 Kč	48,95 Kč	Remove
Total:			323,95 Kč	

[Continue shopping](#) [Checkout](#)

Sportovní obchod

Controllers / OrderController.cs

```
OrderController.cs  X
SportsStore
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5  using Microsoft.AspNetCore.Mvc;
6  using SportsStore.Models;
7
8  namespace SportsStore.Controllers
9  {
10     public class OrderController : Controller
11     {
12         public IActionResult Checkout() => View(new Order());
13     }
14 }
15
```


Sportovní obchod

Views / Order / Checkout.cshtml

Spustit

```
Checkout.cshtml  X
1  @model Order
2  <h2>Check out now</h2>
3  <p>Please enter your details, and we'll ship your goods right away!</p>
4  <form asp-action="Checkout" method="post">
5      <h3>Ship to</h3>
6      <div class="form-group">
7          <label>Name:</label><input asp-for="Name" class="form-control" />
8      </div>
9      <h3>Address</h3>
10     <div class="form-group">
11         <label>Line 1:</label><input asp-for="Line1" class="form-control" />
12     </div>
13     <div class="form-group">
14         <label>Line 2:</label><input asp-for="Line2" class="form-control" />
15     </div>
16     <div class="form-group">
17         <label>Line 3:</label><input asp-for="Line3" class="form-control" />
18     </div>
19     <div class="form-group">
20         <label>City:</label><input asp-for="City" class="form-control" />
21     </div>
22     <div class="form-group">
23         <label>State:</label><input asp-for="State" class="form-control" />
24     </div>
25     <div class="form-group">
26         <label>Zip:</label><input asp-for="Zip" class="form-control" />
27     </div>
28     <div class="form-group">
29         <label>Country:</label><input asp-for="Country" class="form-control" />
30     </div>
31     <h3>Options</h3>
32     <div class="checkbox">
33         <label>
34             <input asp-for="GiftWrap" /> Gift wrap these items
35         </label>
36     </div>
37     <div class="text-center">
38         <input class="btn btn-primary" type="submit" value="Complete Order" />
39     </div>
40 </form>
```

Sportovní obchod

SPORTS STORE Your cart: 2 item(s) 323.95 Kč 

- Home
- Chess
- Soccer
- Watersports

Check out now

Please enter your details, and we'll ship your goods right away!

Ship to

Name:

Address

Line 1:

Line 2:

Line 3:

City:

State:

Zip:

Country:

Options

Gift wrap these items

[Complete Order](#)

Sportovní obchod

- Dokončení

Sportovní obchod

Upravit

Models / ApplicationDbContext.cs

```
Počet odkazů: 7
public class ApplicationDbContext : DbContext
{
    Počet odkazů: 0 | 0 výjimky
    public ApplicationDbContext(DbContextOptions<ApplicationDbContext> options) : base(options) { }
    Počet odkazů: 1 | 0 výjimky
    public DbSet<Product> Products { get; set; }
    Počet odkazů: 2 | 0 výjimky
    public DbSet<Order> Orders { get; set; }
}
```


Sportovní obchod

Models / IOrderRepository.cs

```
IOrderRepository.cs -> X
SportsStore
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace SportsStore.Models
7  {
8      public interface IOrderRepository
9      {
10         IEnumerable<Order> Orders { get; }
11     }
12 }
13
```

Sportovní obchod

Models / EFOOrderRepository.cs

```
IOrderRepository.cs  EFOOrderRepository.cs  X
SportsStore
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using Microsoft.EntityFrameworkCore;
5  using System.Threading.Tasks;
6
7  namespace SportsStore.Models
8  {
9      Počet odkazů: 2
10     public class EFOOrderRepository : IOrderRepository
11     {
12         Počet odkazů: 0 | 0 výjimky
13         private ApplicationDbContext context;
14         public EFOOrderRepository(ApplicationDbContext ctx)
15         {
16             context = ctx;
17         }
18         Počet odkazů: 1 | 0 výjimky
19         public IEnumerable<Order> Orders => context.Orders
20             .Include(o => o.Lines)
21             .ThenInclude(l => l.Product);
22     }
23 }
```

Sportovní obchod

Upravit
Startup.cs

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDbContext<ApplicationDbContext>(options => options.UseSqlServer(Configuration["Data:SportStoreProducts:ConnectionString"]));

    services.AddTransient<IProductRepository, EFProductRepository>();

    services.AddScoped<Cart>(sp => SessionCart.GetCart(sp));

    services.AddSingleton<IHttpContextAccessor, HttpContextAccessor>();

    services.AddTransient<IOrderRepository, EFOrderRepository>();

    services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_1);

    services.AddMemoryCache();

    services.AddSession();
}
```

Sportovní obchod

Upravit

Controllers / OrderController.cs

```
Počet odkazů: 1
public class OrderController : Controller
{
    private IOrderRepository repository;
    private Cart cart;
    Počet odkazů: 0 | 0 výjimky
    public OrderController(IOrderRepository repoService, Cart cartService)
    {
        repository = repoService;
        cart = cartService;
    }
    Počet odkazů: 0 | 0 žádostí | 0 výjimky
    public ActionResult Checkout() => View(new Order());
}
```

```
}
Počet odkazů: 0 | 0 žádostí | 0 výjimky
public ActionResult Checkout() => View(new Order());

[HttpPost]
Počet odkazů: 0 | 0 žádostí | 0 výjimky
public ActionResult Checkout(Order order)
{
    if (cart.Lines.Count() == 0)
    {
        ModelState.AddModelError("", "Sorry, your cart is empty!");
    }
    if (ModelState.IsValid)
    {
        order.Lines = cart.Lines.ToArray();
        return RedirectToAction(nameof(Completed));
    }
    else
    {
        return View(order);
    }
}
Počet odkazů: 1 | 0 žádostí | 0 výjimky
public ActionResult Completed()
{
    cart.Clear();
    return View();
}
```

Sportovní obchod

Upravit

Views / Order / Checkout.cshtml

```
Checkout.cshtml  X
1  @model Order
2  <h2>Check out now</h2>
3  <p>Please enter your details, and we'll ship your goods right away!</p>
4
5  <div asp-validation-summary="All" class="text-danger"></div>
6
7  <form asp-action="Checkout" method="post">
8      <h3>Ship to</h3>
9      <div class="form-group">
10         <label>Name:</label><input asp-for="Name" class="form-control" />
11     </div>
12     <h3>Address</h3>
```

Spustit

Sportovní obchod

Check out now

Please enter your details, and we'll ship your goods right away!

- Please enter a name
- Please enter the first address line
- Please enter a city name
- Please enter a state name
- Please enter a country name

Ship to

Name:

Address

Line 1:

Line 2:

Line 3:

Sportovní obchod

Views / Order / Completed.cs

```
Completed.cshtml -# X
1 <h2>Thanks!</h2>
2 <p>Thanks for placing your order.</p>
3 <p>We'll ship your goods as soon as possible.</p>
4
```

Spustit

Sportovní obchod

