



C# Web – MVC

PRO/PRW - C# Web 1

DE HOGESCHOOL MET HET NETWERK

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Doel

- ASP.Net Core toepassing
 - MVC Web Application
 - TagHelper
 - SportStore
 - ViewComponent
 - SportStore
 - New Models
 - Migration
 - » Table Reference keys
 - Overview

ASP.NET CORE

MVC Web Application

MVCSportStore

- **TagHelper**
- **ViewComponent**
- **Models**
 - **Table Reference keys**

Models - Reseller

```
namespace MVCSportStore.Models
{
    public class Reseller
    {
        public int ResellerId { get; set; }
        public string ResellerName { get; set; }
        public string ContentManagementGuid { get; set; }
    }
}
```

Data – StoreDbContext Resellers

```
public class StoreDbContext : DbContext
{
    public StoreDbContext(DbContextOptions<StoreDbContext> options) :
        base(options)
    {
    }

    //DbSet - -> koppelingen naar onze tabellen
    public DbSet<Product> Products { get; set; }
    //DbSet - -> koppelingen naar onze tabellen
    public DbSet<Reseller> Resellers { get; set; }
}
```

Controllers - ResellerController

Scaffold Controller

- ResellerController

```
using Microsoft.AspNetCore.Mvc;

namespace MVCSportStore.Controllers
{
    public class ResellerController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }
    }
}
```

Controllers - ResellerController

- Dependency Injection – StoreDbContext
 - `_context.Resellers`

```
public class ResellerController : Controller
{
    StoreDbContext _context;
    public ResellerController(StoreDbContext context)
    {
        _context = context;
    }
    public IActionResult Index()
    {
        return View(_context.Resellers);
    }
}
```

Views/Shared - _layout

```
<span class="navbar-brand ml-2">  
  <a class="btn border border-secondary m-1 text-white"  
    asp-controller="Home" asp-action="Index">  
    SportStore - Start page</a>  
  <a class="btn border border-secondary m-1 text-white"  
    asp-controller="Settings" asp-action="PagingSettingsView">  
    SportStore - Page settings</a>  
  
  <a class="btn border border-secondary m-1 text-white"  
    asp-controller="Reseller" asp-action="Index">  
    SportStore - Resellers</a>  
</span>
```

SportStore - Start page

SportStore - Page settings

SportStore - Resellers

Nuget Package Manager - Console

- Migration
 - Reseller (add-migration reseller)
 - Update-database

Chess

Soccer

Watersports

Resellers

ResellerName

ContentManagementGuid

SportStore - Start page

SportStore - Page settings

SportStore - Resellers

Resellers

SPORT STORE

Chess

Soccer

Watersports

Resellers

ResellerName	ContentManagementGuid
Bol.com	ff3ddf87-a2da-4c3f-92ff-fa7816d62364

SportStore - Start page

SportStore - Page settings

SportStore - Resellers

Oefening

- Voeg een model ResellerStock toe!
 - Properties
 - ResellerStockId
 - ResellerId
 - ProductId (!long)
 - Amount
- Voeg de table reference keys toe!
- Maak een migratie aan!
- Update de database!

Models - ResellerStock

```
public class ResellerStock
{
    public int ResellerStockId { get; set; }
    public int ResellerId { get; set; }
    public long ProductId { get; set; }
    public int Amount { get; set; }

    public Reseller? Reseller { get; set; }
    public Product? Product { get; set; }
}
```

Models - Reseller

```
public class Reseller
{
    public int ResellerId { get; set; }
    public string ResellerName { get; set; }
    public string ContentManagementGuid { get; set; }

    public ICollection<ResellerStock>? ResellerStocks { get; set; }
}
```

Models - Product

```
public class Product
{
    ...
    //get property
    public decimal ProductPrice =>
        (Price == null) ? 0 : (decimal)Price;

    public ICollection<ResellerStock>? ResellerStocks { get; set; }
}
```

Data/DefaultData - SeedData

```
public static void EnsurePopulated(WebApplication app)
{
    using (var scope = app.Services.CreateScope())
    {
        var context =
scope.ServiceProvider.GetRequiredService<StoreDbContext>();
        if (!context.Products.Any())
        {
            ...
        }
        MatchResellerData(context);
    }
}
public static void MatchResellerData(StoreDbContext context)
{ }
```


Data – StoreDbContext ResellerStocks

```
public class StoreDbContext : DbContext
{
    public StoreDbContext(... options) : base(options)
    { }
    public DbSet<Product> Products { get; set; }
    public DbSet<Reseller> Resellers { get; set; }
    public DbSet<ResellerStock> ResellerStock { get; set; }
}
```

Nuget Package Manager - Console

- Migration
 - ResellerStock

Data/DefaultData - SeedData

```
public static void EnsurePopulated(WebApplication app)
{
    using (var scope = app.Services.CreateScope())
    {
        var context =
scope.ServiceProvider.GetRequiredService<StoreDbContext>();
        if (!context.Products.Any())
        {
            ...
        }
        MatchResellerData(context);
        MatchResellerStockData(context);
    }
}

public static void MatchResellerStockData(StoreDbContext context)
{ }
```

Oefening

- Voeg een formulier toe voor zowel een reseller als een resellerStock record toe te voegen!
 - Properties (ViewModel)
 - ResellerName
 - ContentManagementGuid
 - ProductId (!long)
 - Amount
 - Maak de records in beide tabellen aan!

ASP.NET CORE

MVC Web Application
Oefening 14

- **ViewComponent**