

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
 - Models
 - Views
 - Controllers
 - Entity framework
 - Oefening 08
 - Oefening 09

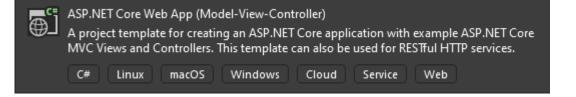


ASP.NET CORE

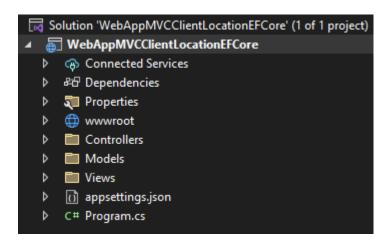
MVC Web Application

Oefening 08

Oefening 08 – 01. Nieuw Project

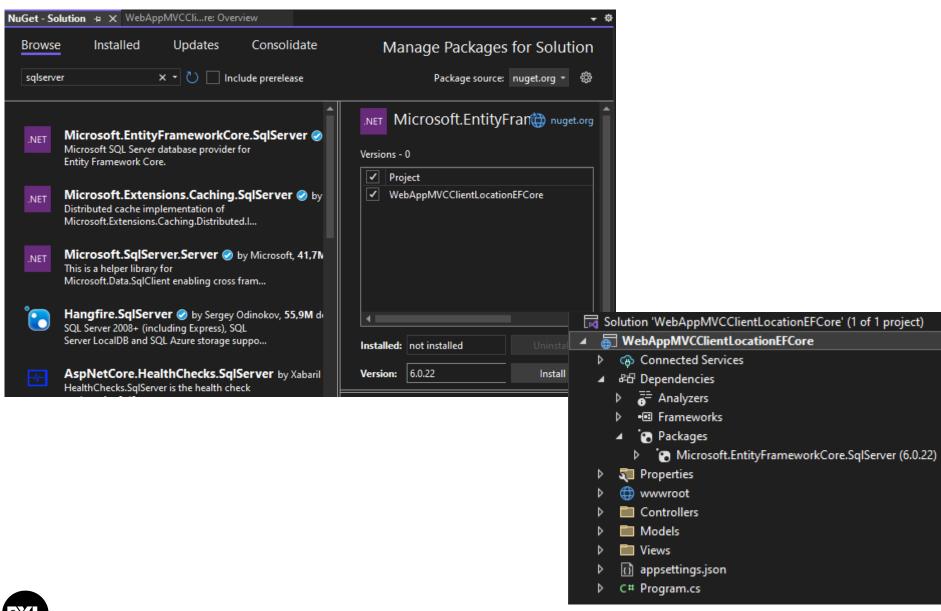


WebAppMVCClientLocationEFCore





Oefening 08 – 02. Nuget – SQL Server



Oefening 08 – 03. Maak een database class aan

- Create Folder
 - Data
 - Add class
 - ClientLocationContext.cs
 - Inherit baseClass DbContext

```
using Microsoft.EntityFrameworkCore;

namespace WebAppMVCClientLocationEFCore.Data
{
    public class ClientLocationContext : DbContext
    {
      }
}
```

Oefening 08 – 03. Maak een database class aan

```
using Microsoft.EntityFrameworkCore;
namespace WebAppMVCClientLocationEFCore.Data
{
    public class ClientLocationContext : DbContext
        public ClientLocationContext(
              DbContextOptions<ClientLocationContext> options) :
                     base(options)
        { }
```

Oefening 08 – 04. Voeg een connection string toe

Data folder – Add class – Connectionstrings – Add constant LocalDb

```
Solution 'WebAppMVCClientLocationEFCore' (1 of 1 project)

WebAppMVCClientLocationEFCore

Connected Services

Properties

Controllers

Controllers

Controllers

Controllers

Controllers

CondectionStrings.cs

Controllers

Controllers
```

<u>Oefening 08 – 05. Voeg de database service toe in je program.cs class</u>

```
using Microsoft.EntityFrameworkCore;
using WebAppMVCClientLocationEFCore.Data;
var builder = WebApplication.CreateBuilder(args);
var connectionString = ConnectionStrings.LocalDb;
builder.Services.AddDbContext<ClientLocationContext>(
    options => options.UseSqlServer(connectionString));
builder.Services.AddControllersWithViews();
var app = builder.Build();
```

```
Oefening 08 – 06b. Voeg het model Location toe 07b. Model validatie
```

```
namespace WebAppMVCClientLocationEFCore.Models
{
     public class Location
          public int LocationId { get; set; }
          [StringLength(15)]
          [Required]
          public string PostCode { get; set; }
          [StringLength(100)]
          [Required]
          public string City { get; set; }
                          Solution 'WebAppMVCClientLocationEFCore' (1 of 1 project)
                           WebAppMVCClientLocationEFCore
                             Connected Services
                             ₽☐ Dependencies
                             Properties
```

www.root
Controllers
Data
Models

■ Views

C# ErrorViewModel.csC# Location.cs

appsettings.json

C# Program.cs



Oefening 08 - 11. Voeg LocationController toe & controller actions

```
namespace WebAppMVCClientLocationEFCore.Controllers
    public class LocationController : Controller
        public IActionResult Index()
            return View();
        [HttpGet]
        public IActionResult Create()
            return View();
        [HttpPost]
        public IActionResult Create(Location location)
            return View();
```

Oefening 08 – 11c. Dependency Injection – DbContext class

```
namespace WebAppMVCClientLocationEFCore.Controllers
{
    public class LocationController : Controller
    {
        ClientLocationContext _context;
        public LocationController(ClientLocationContext context)
        {
            _context = context;
        }
        ...
```

```
Solution 'WebAppMVCClientLocationEFCore' (1 of 1 project)

WebAppMVCClientLocationEFCore

Connected Services

Dependencies

WebAppMVCClientLocationEFCore

Controllers

WebAppMVCClientLocationEFCore

Controllers

Controllers

Controllers

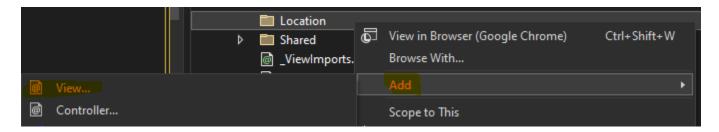
Controllers

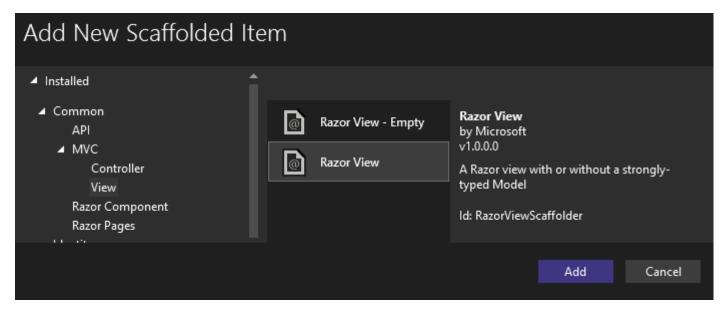
Controller.cs

Controller.cs
```

Oefening 08 – 12a. Views – Voeg de views toe

- Create Folder (in Folder Views)
 - Location (Views/Location)
 - Add Razor View (List template)
 - Index.cshtml

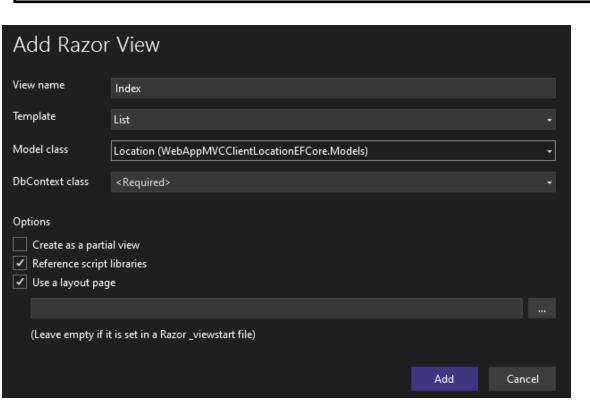


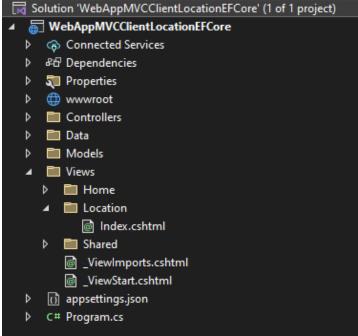




Oefening 08 – 12a. Views – Voeg de views toe

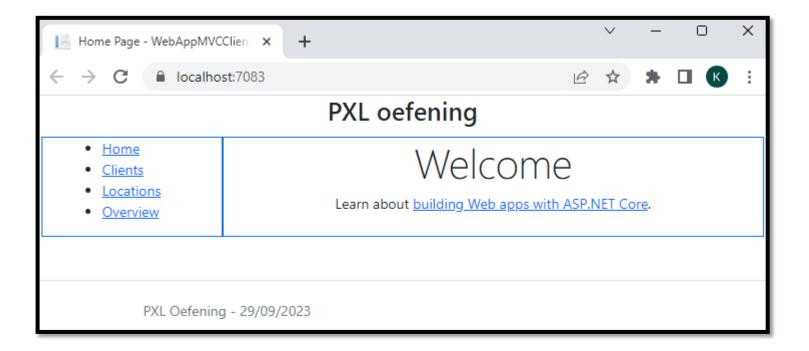
- Create Folder (in Folder Views)
 - Location
 - Add Razor View (List template)
 - Index.cshtml







Oefening 08 – 16. Layout – Styling the content





Oefening 08 – 16. Layout – Styling the content

```
<header>
 <div class="text-center">
   <h2>PXL oefening</h2>
 </div>
</header>
<div class="row m-1 p-1">
 <div id="menu" class="col-3 border border-primary">
  <div class="container">
    ul>
      <a asp-controller="Home" asp-action="Index">Home</a>
      <a asp-controller="" asp-action="">Clients</a>
      <a asp-controller="Location" asp-action="Index">Locations</a>
      <a asp-controller="" asp-action="">Overview</a>
    </div>
 </div>
 <div id="main" class="col-9 border border-primary">
       @RenderBody()
 </div>
</div>
<footer class="border-top footer text-muted">
    <div class="container">
        PXL Oefening - @DateTime.Now.ToString("dd/MM/yyyy")
   </div>
</footer>
```

ASP.NET CORE

MVC Web Application

Oefening 09