

## C# Web – MVC

## PRO/PRW - C# Web 1

#### DE HOGESCHOOL MET HET NETWERK

Hogeschool PXL – Elfde-Liniestraat 24 – B-3500 Hasselt www.pxl.be - www.pxl.be/facebook



# Doel

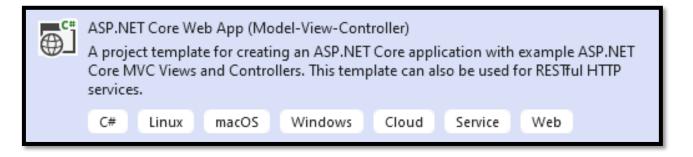
- ASP.Net Core toepassing
  - MVC Web Application
    - Models
    - Views
    - Controllers
  - Model validation

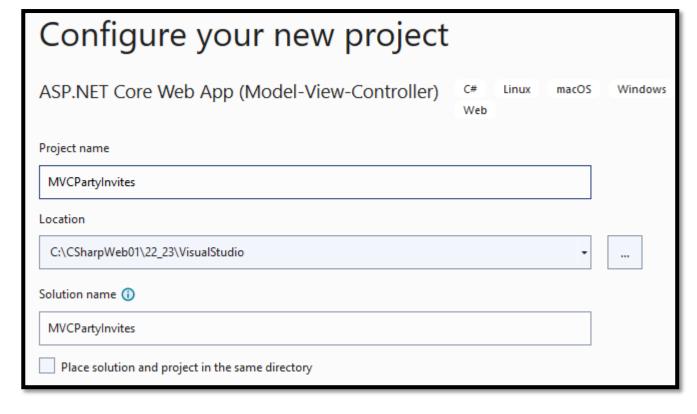


### **ASP.NET CORE**

**MVC Web Application** 

#### **MVCPartyInvites**







```
MVCPartyInvites
Models
namespace MVCPartyInvites.Models
{
    public class Gast
        public string Naam { get; set; }
        public string Email { get; set; }
        public string Telefoon { get; set; }
        public bool? Aanwezig { get; set; }
Controller

    GastController

       (Controllers - Add - MVC Controller Empty)
Views/Gast
Views folder - Create folder Gast

    Add Empty Razor View

              Index
```

```
\underline{\textbf{HomeController}}
public class HomeController : Controller
         public IActionResult Index()
             return View();
<u>GastController</u>
namespace MVCPartyInvites.Controllers
    public class GastController : Controller
         public IActionResult Index()
             return View();
```

```
Views/Shared/_Layout.cshtml
<header >
    <div class="text-center">
        <h2>PXL Party - header</h2>
    </div>
</header>
<div class="container">
    <main role="main" class="pb-3">
        @RenderBody()
    </main>
</div>
<footer class="border-top footer text-muted">
        <div class="text-center">
        <h2>PXL Party - footer</h2>
    </div>
</footer>
```



#### PXL Party - header

Welkom op de registratie pagina van PXL.

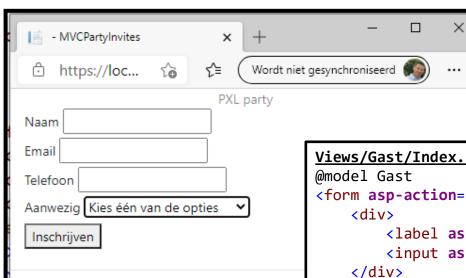
Schrijf je hier in!

PXL Party - footer

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



```
\underline{\textbf{HomeController}}
public class HomeController : Controller
         public IActionResult Index()
             return View();
<u>GastController</u>
namespace MVCPartyInvites.Controllers
    public class GastController : Controller
         public IActionResult Index()
             Gast g = new Gast();
             return View(g);
```



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```
Views/Gast/Index.cshtml
<form asp-action="Reservatie" method="post">
        <label asp-for="Naam"></label>
        <input asp-for="Naam" />
    <div>
        <label asp-for="Email"></label>
        <input asp-for="Email" />
    </div>
    <div>
        <label asp-for="Telefoon"></label>
        <input asp-for="Telefoon" />
    </div>
    <div>
        <label asp-for="Aanwezig"></label>
        <select asp-for="Aanwezig">
            <option value="0">Kies één van de opties</option>
            <option value="true">Ja, ik zal aanwezig zijn.</option>
            <option value="false">Neen, ik kan niet komen.</option>
        </select>
    </div>
    <button type="submit">Inschrijven</button>
</form>
```

```
Add Data folder
• Create LocalData.cs

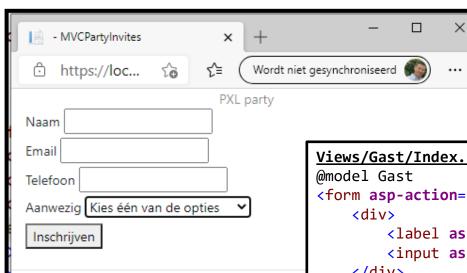
namespace MVCPartyInvites.Data
{
    public static class LocalData
    {
        public static List<Gast> GastList = new List<Gast>();
    }
}
```



```
public class GastController : Controller
    public IActionResult Index()
        Gast g=new Gast();
        return View(g);
    [HttpPost]
    public IActionResult Reservatie(Gast g)
        LocalData.GastList.Add(g);
        return RedirectToAction("Index", "Home");
```

#### Views/Home/Index.cshtml @model IEnumerable<Gast> @{ ViewData["Title"] = "Home Page"; } <div class="text-center"> <br /> <a asp-controller="Gast" asp-action="Index">Schrijf je hier in!</a> <br /> @if(Model.Count() > 0) Aanwezig <br /> Afwezig </div>

```
public class HomeController : Controller
{
    public IActionResult Index()
    {
        return View(LocalData.GastList);
    }
}
```



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```
Views/Gast/Index.cshtml
<form asp-action="Reservatie" method="post">
        <label asp-for="Naam"></label>
        <input asp-for="Naam" />
    </div>
    <div>
        <label asp-for="Email"></label>
        <input asp-for="Email" />
    </div>
    <div>
        <label asp-for="Telefoon"></label>
        <input asp-for="Telefoon" />
    </div>
    <div>
        <label asp-for="Aanwezig"></label>
        <select asp-for="Aanwezig">
            <option value="0">Kies één van de opties</option>
            <option value="true">Ja, ik zal aanwezig zijn.</option>
            <option value="false">Neen, ik kan niet komen.</option>
        </select>
    </div>
    <button type="submit">Inschrijven</button>
</form>
```

```
Views/Home/Index.cshtml
Binnen de code tag
var lst= LocalData.GastList
.Where
       (x => x.Aanwezig == true)
.Select
       (y \Rightarrow $"({y.Naam} - {y.Email} - {y.Telefoon})").ToList();
//workaround
//Gast
→ Public override string ToString()
   → $"({y.Naam} - {y.Email} - {y.Telefoon})"
       → y=>y.ToString()
```

```
@model IEnumerable<Gast>
@{
   ViewData["Title"] = "Home Page";
   var lst = MvcPartyInvites.Data.LocalData.GastList
      .Where(x => x.Aanwezig == true)
      .Select(y => $"({y.Naam} - {y.Email} - {y.Telefoon})").ToList();
 Aanwezig
@foreach (var s in lst)
   @s
```

```
Views/Gast/Index.cshtml
TagHelper asp-items
Omodel Gast
@{
    var lst = new List<SelectListItem>();
    lst.Add(new SelectListItem { Text = "Ja", Value = "true" });
    lst.Add(new SelectListItem { Text = "Nee", Value = "false" });
<form asp-action="Reservatie" method="post">
    <div>
        <label asp-for="Aanwezig"></label>
        <select asp-for="Aanwezig" asp-items="@lst"></select>
    </div>
    <button type="submit">Inschrijven</button>
</form>
```



### **ASP.NET CORE**

**MVC Web Application – Oefening05**