



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



ASP.NET Core Web App (Model-View-Controller)

A project template for creating an ASP.NET Core application with example ASP.NET Core MVC Views and Controllers. This template can also be used for RESTful HTTP services.

C#

Linux

macOS

Windows

Cloud

Service

Web

Configure your new project

ASP.NET Core Web App (Model-View-Controller)

C#

Linux

macOS

Windows

Web

Project name

MVCPartyInvites

Location

C:\CSharpWeb01\22_23\VisualStudio

...

Solution name ⓘ

MVCPartyInvites

☐ Place solution and project in the same directory

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

HomeController

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

GastController

```
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>
```



Views/Home/Index.cshtml

```
@{
    ViewData["Title"] = "Home Page";
}

<div class="text-center">
    <p>Welkom op de registratie pagina van PXL.</p>
    <br />
    <a asp-controller="Gast" asp-action="Index">Schrijf je hier in!</a>
</div>
```


HomeController

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

GastController

```
namespace MVCPartyInvites.Controllers
{
    public class GastController : Controller
    {
        public IActionResult Index()
        {
            Gast g = new Gast();
            return View(g);
        }
    }
}
```

- MVCPartyInvites

https://loc... Wordt niet gesynchroniseerd

PXL party

Naam

Email

Telefoon

Aanwezig

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Views/Gast/Index.cshtml

@model Gast

```
<form asp-action="Reservatie" method="post">
  <div>
    <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>
```

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)  
    {  
        <table>  
            <tr>  
                <th class="font-weight-bold"> Aanwezig</th>  
            </tr>  
        </table>  
        <br />  
        <table>  
            <tr>  
                <th class="font-weight-bold"> Afwezig</th>  
            </tr>  
        </table>  
    }  
</div>
```

HomeController

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

- MVCPartyInvites

https://loc... Wordt niet gesynchroniseerd

PXL party

Naam

Email

Telefoon

Aanwezig

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Views/Gast/Index.cshtml

@model Gast

```
<form asp-action="Reservatie" method="post">
```

```
<div>
```

```
<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 => $"({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();
}
...
<tr>
    <th class="font-weight-bold"> Aanwezig</th>
</tr>
@foreach (var s in lst)
{
    <tr><td>@s</td></tr>
}

```

Views/Gast/Index.cshtml

TagHelper asp-items

```
@model 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