C# Web – MVC

PRO - C# Web 1

**DE HOGESCHOOL
MET HET NETWERK**

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Doel

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

ASP.NET CORE

MVC Web Application

Configure your new project

ASP.NET Core Web Application   C#   Linux   macOS   Windows   Cloud   Service   Web

Project name

Location

C:\CSharpWeb01\21_22\

Solution name ⓘ

MVCFirstWebApp

☐ Place solution and project in the same directory

Back   Create

Web Application (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.

MVCPartyInvites

```csharp
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; }
    }
}
```
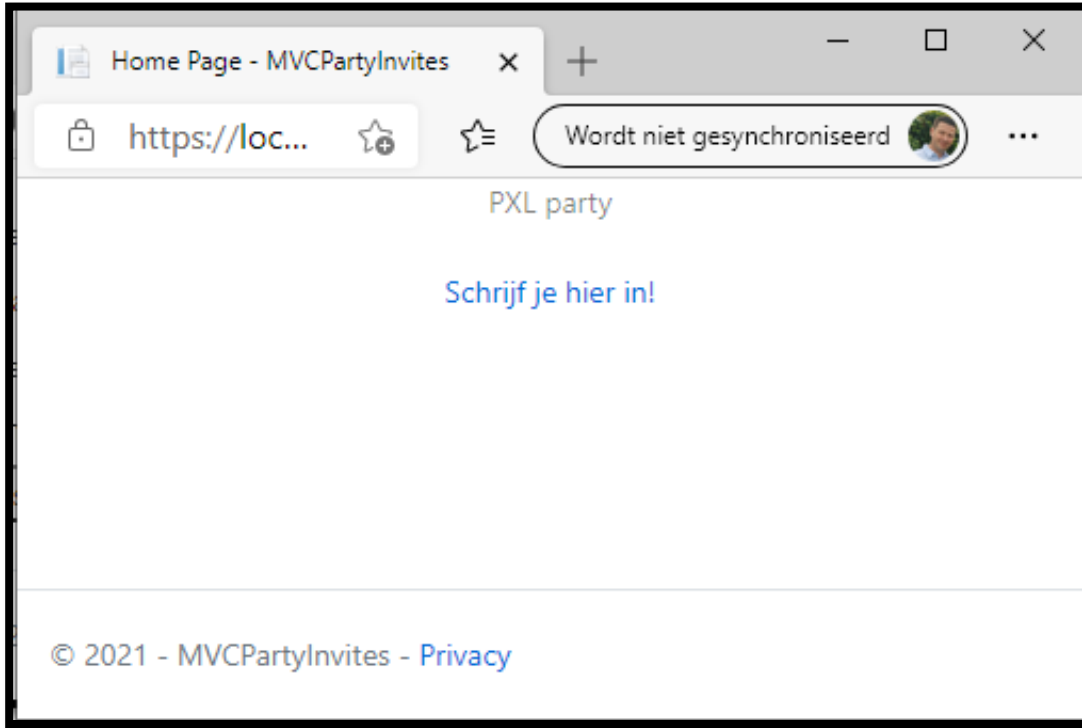
Controller
• GastController

Views/Gast
• Index

HomeController

```csharp
public class HomeController : Controller
{
        public IActionResult Index()
        {
            Gast g = new Gast();
            return View(g);
        }
}
```

GastController

```csharp
namespace MVCPartyInvites.Controllers
{
    public class GastController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }
    }
}
```

```
Views/Home/Index.cshtml

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

<div class="text-center">
    <br />
    <a asp-controller="Gast" asp-action="Index">Schrijf je hier in!</a>
</div>
```

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="">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>();
    }
}
```

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

```
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>
```

```
var lst= LocalData.GastList
.Where
        (x => x.Aanwezig == true)
.Select
        (y => $"({y.Naam} - {y.Email} - {y.Telefoon})").ToList();
```

ASP.Net Core MVC

MODEL VALIDATION

```csharp
public class Gast
    {
        [Required]
        public string Naam { get; set; }
        [Required(ErrorMessage = "Vul je email in!")]
        [EmailAddress]
        public string Email { get; set; }
        [Required(ErrorMessage = "Vul je telefoonnummer in!")]
        public string Telefoon { get; set; }
        [Required(ErrorMessage = "Laat weten of je aanwezig zal zijn!")]
        public bool? Aanwezig { get; set; }
    }
```

```csharp
[HttpPost]
public IActionResult Reservatie(Gast g)
{
    if (ModelState.IsValid)
    {
        LocalData.GastList.Add(g);
        return RedirectToAction("Index", "Home");
    }
    else
    {
        return View("Index", g);
    }

}
```

```
Views/Gast/Index.cshtml

@model Gast
<div>
    @Html.ValidationSummary()
</div>
<br />
<form asp-action="Reservatie" method="post">
```

Samenvatting Model validation

- Model
    - [Required]
    - [Required(ErrorMessage = "Vul je email in!")]
    - [EmailAddress]

- View
    - @Html.ValidationSummary()

- Controller
    - If(ModelState.IsValid())

ASP.NET CORE

MVC Web Application – Oefening05
MVC Web Application – Oefening06