



# 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
  - Model Validation
  - *(Custom Model Validation)*

ASP.Net Core MVC

# MODEL VALIDATION

## **Model validation**

**built-in validation attributes** (System.ComponentModel.DataAnnotations namespace)

- [ValidateNever]: The ValidateNeverAttribute indicates that a property or parameter should be excluded from validation.
- [CreditCard]: Validates that the property has a credit card format. Requires jQuery Validation Additional Methods.
- [Compare]: Validates that two properties in a model match.
- [EmailAddress]: Validates that the property has an email format.
- [Phone]: Validates that the property has a telephone number format.
- [Range]: Validates that the property value falls within a specified range.
- [RegularExpression]: Validates that the property value matches a specified regular expression.
- [Required]: Validates that the field is not null. See [Required] attribute for details about this attribute's behavior.
- [StringLength]: Validates that a string property value doesn't exceed a specified length limit.
- [Url]: Validates that the property has a URL format.

## MVCPartyInvites

```
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; }
}
```

## GastController

```
[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">

## Views/Gast/Index.cshtml

@model Gast

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

    <div asp-validation-summary="All" class="text-danger"></div>

### PXL Party - header

- The Naam field is required.
- The value '0' is not valid for Aanwezig.

Naam

Email

Telefoon

Aanwezig

## Views/Gast/Index.cshtml

@model Gast

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

<div asp-validation-summary="All" class="text-danger"></div>

<div>

<label asp-for="Email"></label>

<input asp-for="Email" />

<span asp-validation-for="Email" class="text-danger"></span>

</div>

[EmailAddress]

[Required]

public string? Email { get; set; }

### PXL Party - header

- The Naam field is required.
- The Email field is required.
- The value '0' is not valid for Aanwezig.

Naam

Email

The Email field is required.

Telefoon

Aanwezig

Naam

Email



Geef een '@' op in het e-mailadres. In 'aa' ontbreekt een '@'.



Validatie in de controller

Als de naam kleiner is dan 2 karakters

```
[HttpPost]
public IActionResult Reservatie(Gast g)
{
    if (ModelState.IsValid)
    {
        if (g.Naam == null || g.Naam.Length < 2)
        {
            ModelState.AddModelError("", "Naam is te kort");
            return View("Index", g);
        }
        LocalData.GastList.Add(g);
        return RedirectToAction("Index", "Home");
    }
    return View("Index", g);
}
```

## Samenvatting Model validation

- **Model**

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

- **View**

`<div asp-validation-summary="All" class="text-danger"></div>`

- **Controller**

- If(ModelState.IsValid)

# ASP.NET CORE

**MVC Web Application – Model Validation**  
**Oefening 06**