

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.





<u>GastController</u> [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>

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




```
[EmailAddress]
[Required]
public string? Email { get; set; }
```





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)</pre>
            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



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.



- Add model
 - TestValidation
 - TestValidationId (primary key int)
 - FirstName (string)
 - DateOfBirth (DateTime)

MVCModelValidation/Models

```
public class TestValidation
{
    public int? TestValidationId { get; set; }
    public string? FirstName { get; set; }
    public DateTime? DateOfBirth { get; set; }
}
```



```
public class HomeController : Controller
        public IActionResult Index()
            return View();
        [HttpGet]
        public IActionResult TestValidation()
            TestValidation tv=new TestValidation();
            return View(tv);
```



Views/Home -> Add Empty Razor View -> TestValidation.cshtml Views/Home/TestValidation.cshtml

```
@model TestValidation
<form asp-action="TestValidation">
    <div asp-validation-summary="All" class="text-danger"></div>
    <div class="form-group">
        <label asp-for="TestValidationId" class="control-label"></label>
        <input asp-for="TestValidationId" class="form-control" />
        <span asp-validation-for="TestValidationId" class="text-</pre>
danger"></span>
    </div>
    <div class="form-group">
        <label asp-for="FirstName" class="control-label"></label>
        <input asp-for="FirstName" class="form-control" />
        <span asp-validation-for="FirstName" class="text-danger"></span>
    </div>
    <div class="form-group">
        <label asp-for="DateOfBirth" class="control-label"></label>
        <input asp-for="DateOfBirth" class="form-control" />
        <span asp-validation-for="DateOfBirth" class="text-danger"></span>
    </div>
    <div class="form-group">
        <input type="submit" value="Create" class="btn btn-primary" />
    </div>
</form>
```

```
public class HomeController : Controller
{
     [HttpGet]
     public IActionResult TestValidation()
     {
          TestValidation tv=new TestValidation();
          return View(tv);
     }

     [HttpPost]
     public IActionResult TestValidation(TestValidation tv)
     {
          if(ModelState.IsValid)
          {
                return View("Index");
          }
          return RedirectToAction("TestValidation");
          return View(tv);
}
```



- Voeg een hyperlink toe in de Views/Shared/_layout naar de nieuwe actie "Home - TestValidation"
- Maak de model properties "Required" en test de model validatie



- Add model
 - TestData
 - TestDataId (primary key)
 - Tekst (string 50)
 - Datum (DateTime)
 - CustomDate
 - » Not > DateTime.Now
 - » Not before 1/1/1900

```
public class TestData
{
    public int? TestDataId { get; set; }
    [StringLength(50)]
    public string? Tekst { get; set; }
    //[CustomDate]
    public DateTime? Datum { get; set; }
}
```



ASP.NET CORE

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