



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

ASP.NET CORE

MVC Web Application

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Configure your new project

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

Project name

Location

...

Solution name ⓘ

☐ 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.

Startup.cs

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddControllersWithViews();
}
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    app.UseHttpsRedirection();
    app.UseStaticFiles();
    app.UseRouting();
    app.UseAuthorization();
    app.UseEndpoints(endpoints =>
    {
        endpoints.MapControllerRoute(
            name: "default",
            pattern: "{controller=Home}/{action=Index}/{id?}");
    });
}
```

MVC Project – Folders & Files

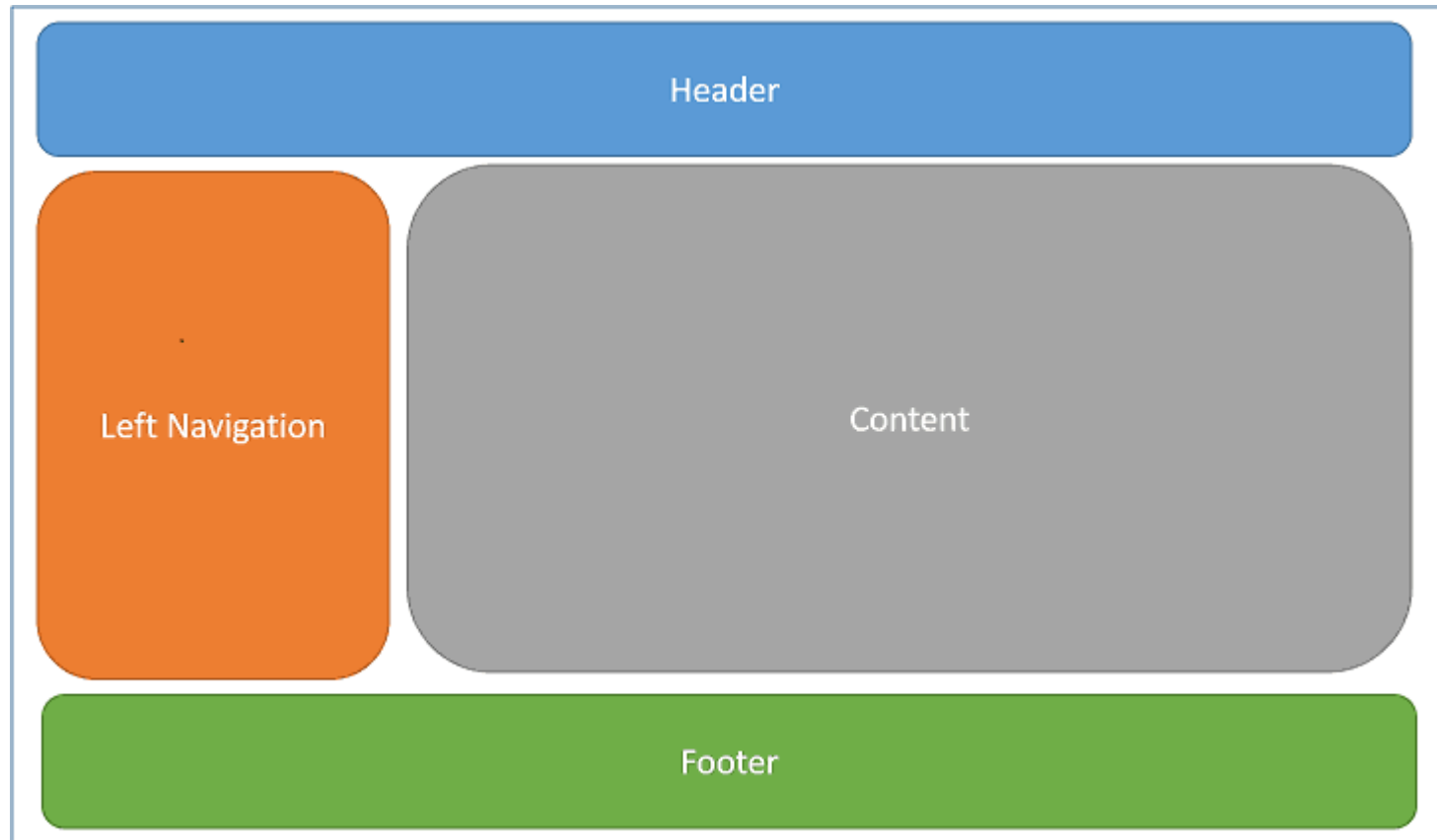
- Models
- Views
 - Home
 - Index.cshtml
 - Shared
- Controllers
 - HomeController
 - Index() Action (HttpGet)
- Wwwroot
- Startup.cs
- Appsettings.json

Views/Home

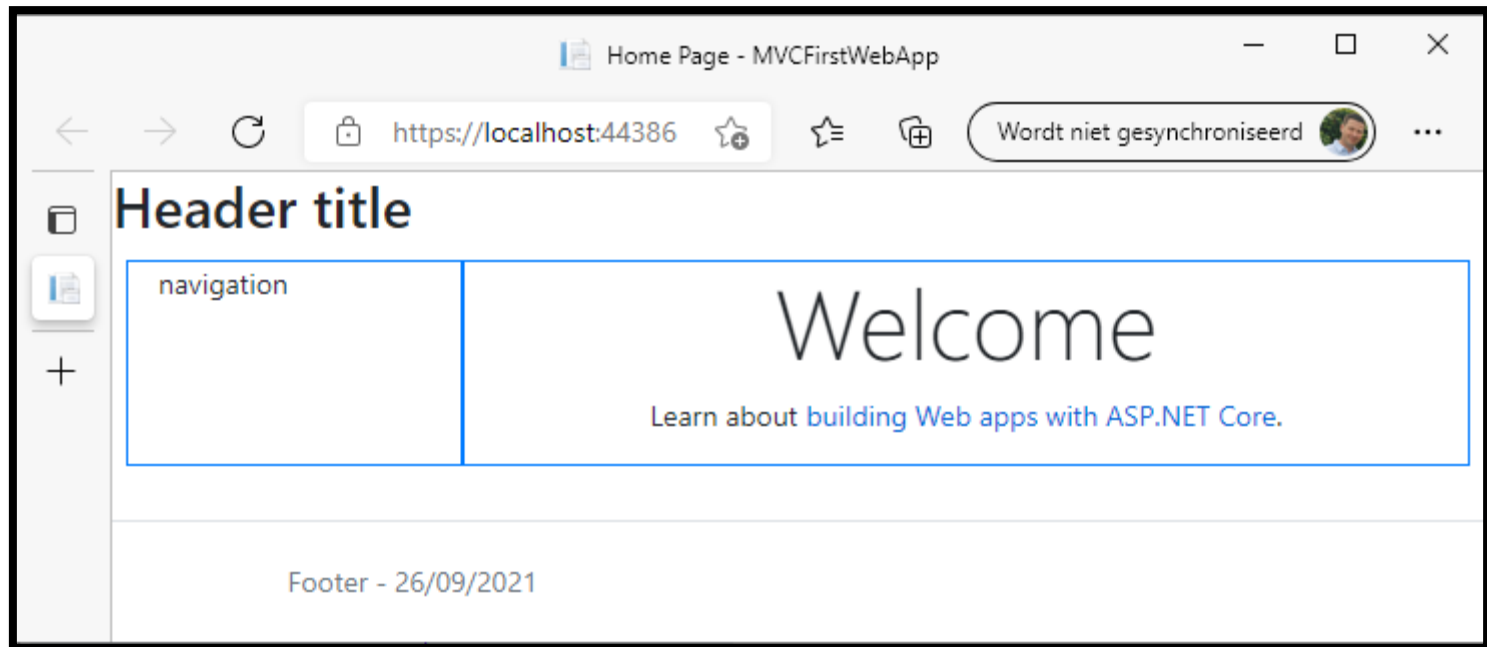
- Home/Index.cshtml

Views/Shared

- _Layout.cshtml



Styling the content

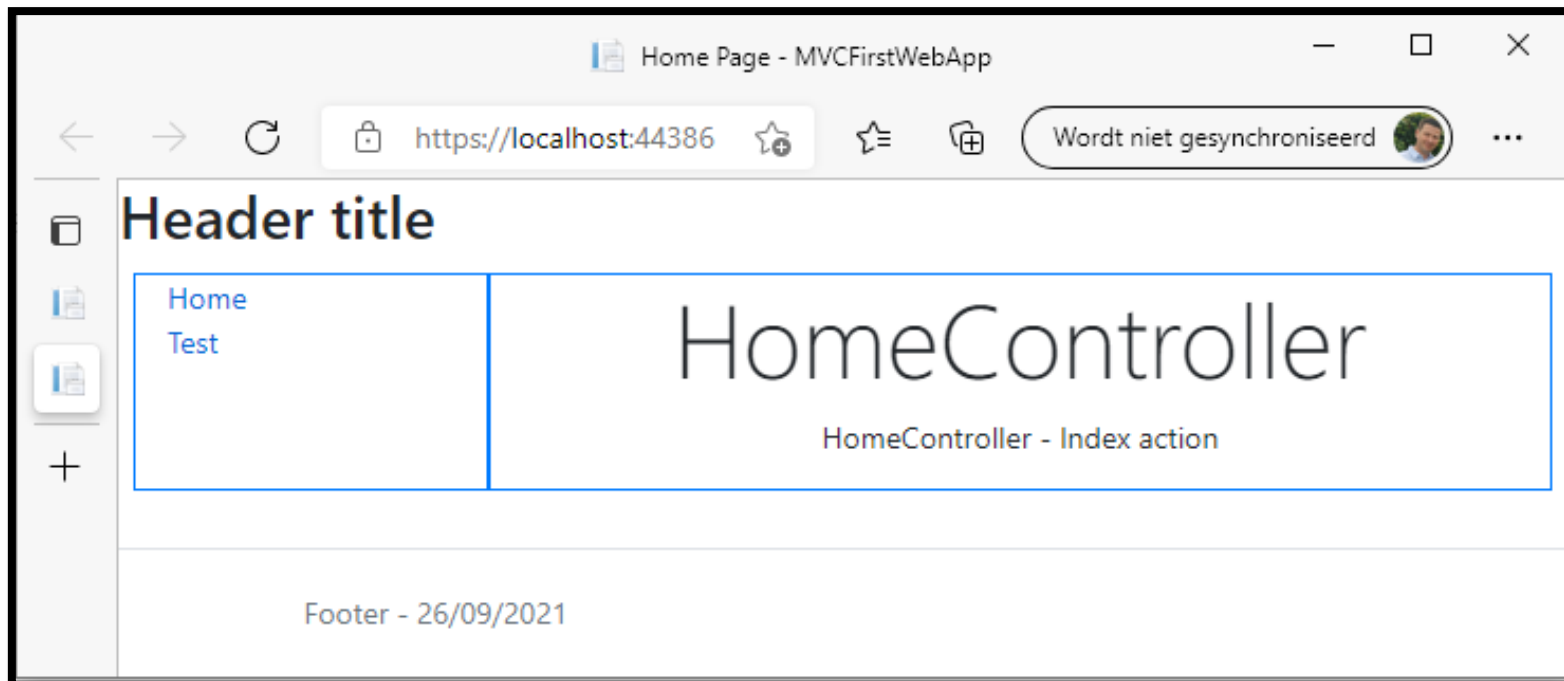



```

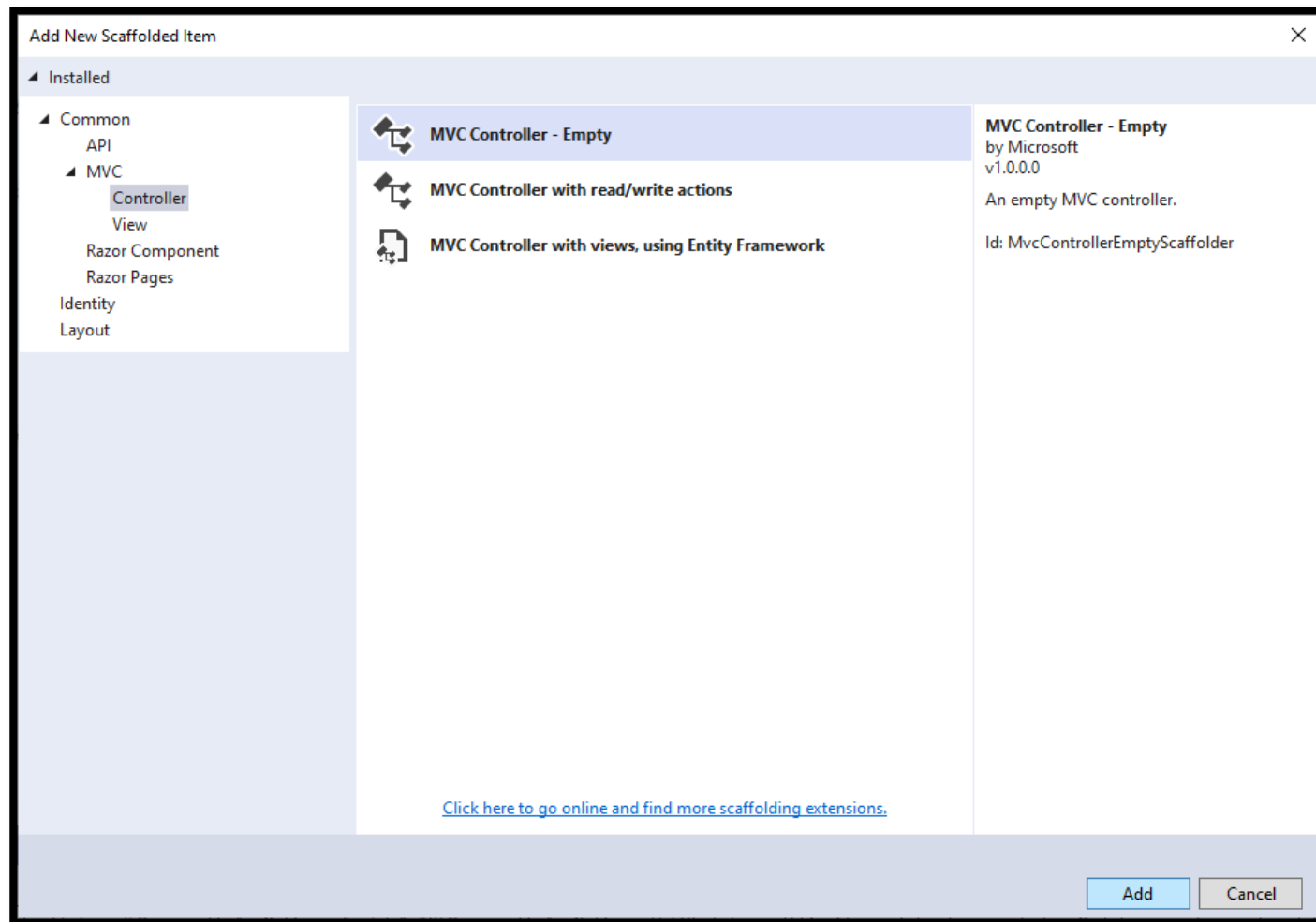
<body>
  <header >
    <div>
      <h2>Header title</h2>
    </div>
  </header>
  <div class="row m-1 p-1">
    <div id="menu" class="col-3 border border-primary">
      navigation
    </div>
    <div id="main" class="col-9 border border-primary">
      @RenderBody()
    </div>
  </div>
  <footer class="border-top footer text-muted">
    <div class="container">
      Footer - @DateTime.Now.ToString("dd/MM/yyyy")
    </div>
  </footer>
  <script src="~/lib/jquery/dist/jquery.min.js"></script>
  <script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
  <script src="~/js/site.js" asp-append-version="true"></script>
  @RenderSection("Scripts", required: false)
</body>

```

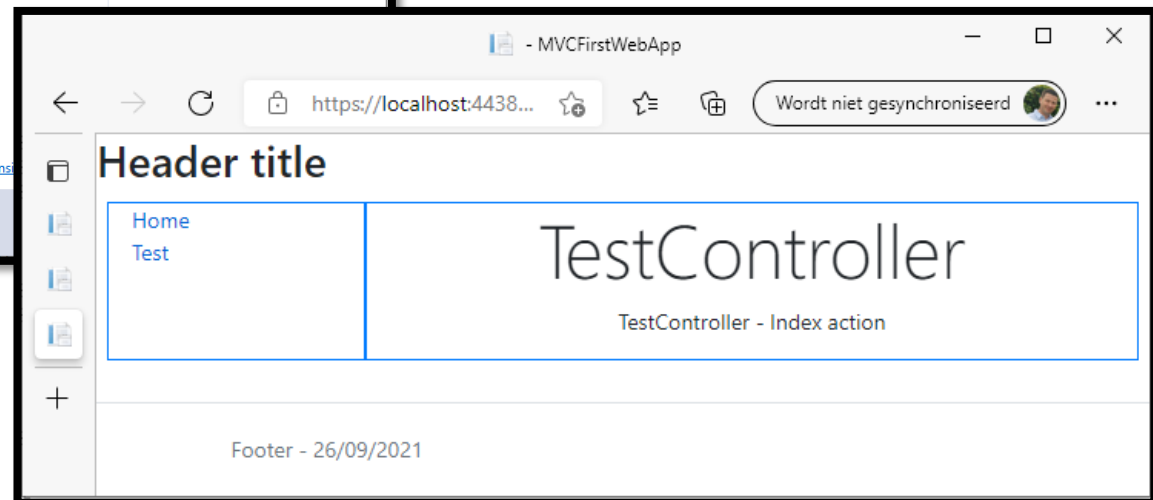
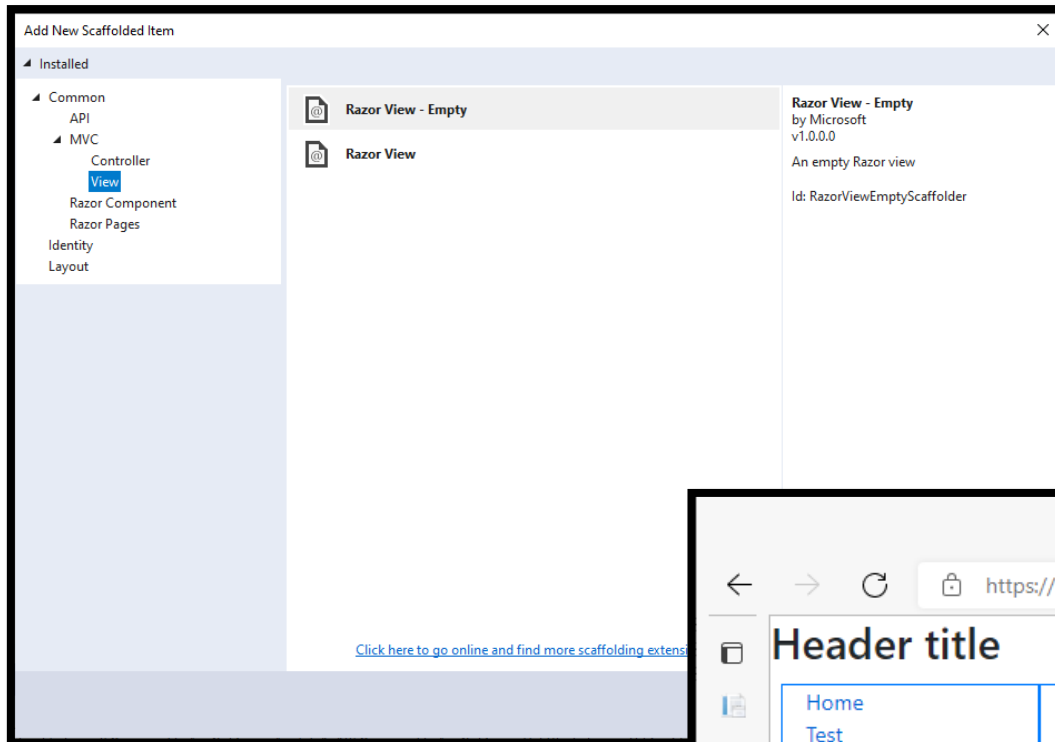
- Voeg een controller toe!
 - Controllers\TestController
- Voeg de bijhorende View Folder toe!
 - Views\Test
 - Voeg de Index View toe
 - Views\Test\Index.cshtml
- Voeg een hyperlink toe naar de nieuwe TestController – Index view!
 - Pas de inhoud aan naar TestController – Index action.
- Voeg een hyperlink toe naar de bestaande HomeController – Index view!
 - Pas de inhoud aan naar HomeController – Index action.



- Voeg een controller toe!
 - Controllers\TestController



- Voeg de bijhorende View Folder toe!
 - Views\Test
 - Voeg de Index View toe
 - Views\Test\Index.cshtml



TagHelper MVC hyperlink

- Views/Shared
 - _Layout.cshtml

```
<div id="menu" class="col-3 border border-primary">  
  <a asp-controller="Home" asp-action="Index">Home</a>  
  <br />  
  <a asp-controller="Test" asp-action="Index">Test</a>  
</div>
```

Data doorgeven tussen Controller en View

Voeg een View toe in de TestController - TestViewBag

Plaats de volgende tekst op het scherm

Dit is test 1 uit de viewbag!

Dit is test 2 uit de viewbag!

TestController

```
public IActionResult TestViewbag()
{
    ViewBag.Teller = 3;
    ViewData["Teller"] = 3;
    return View();
}
```

Views/Test/TestViewBag

```
@{
    Layout = "_Layout";
    int teller = (int)ViewBag.Teller;
    teller = (int)ViewData["Teller"];
}
<div>
    <ul>
        @for (int i = 1; i < teller; i++)
        {
            <li>
                Dit is test @i uit de viewbag!
            </li>
        }
    </ul>
</div>
```

Voeg een formulier toe!

- Views/Test
 - Formulier.cshtml
- Controllers/TestController
 - Formulier action

```
public IActionResult Formulier()  
{  
    return View();  
    //Deze action verwijst naar onze  
    Views/Test/Formulier.cshtml  
}
```

```
<div>  
    <form asp-action="FormulierPost">  
        <div class="form-group">  
            Invoer:  
            <input name="TestInvoer" />  
            <input type="submit" value="submit"/>  
        </div>  
    </form>  
</div>
```

Voeg een formulier toe!

- Views/Test
 - FormulierPost.cshtml
- Controllers/TestController
 - FormulierPost action

Models

- Add Model – TestModel.cs

```
public class TestModel
{
    public string TestInvoer{get;set;}
}
```

```
@model TestModel
```

```
<div>
```

De invoer die u in het formulier hebt ingevuld is:

```
@Model.TestInvoer
```

```
</div>
```

```
public IActionResult FormulierPost()
{
    string invoer = Request.Form["TestInvoer"];
    TestModel model = new TestModel();
    model.TestInvoer = invoer;
    return View(model);
    //Deze action verwijst naar onze
    Views/Test/FormulierPost.cshtml
}
```


TagHelper MVC hyperlink

- Views/Shared
 - _Layout.cshtml

```
<div id="menu" class="col-3 border border-primary">  
  <a asp-controller="Home" asp-action="Index">Home</a>  
  <br />  
  <a asp-controller="Test" asp-action="Index">Test</a>  
  <br />  
  <a asp-controller="Test" asp-action="Formulier">  
    Test - formulier</a>  
</div>
```

ASP.NET CORE

MVC Web Application – Oefening04

- Startbestand
 - MVCWebApp.zip

