



# C# Web

## PRO/PRW - C# Web 1

### DE HOGESCHOOL MET HET NETWERK

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# Doel

- ASP.Net Core toepassing
  - Razor Web Application

# ASP.NET CORE

Razor Web Application



### ASP.NET Core Web App

A project template for creating an ASP.NET Core application with example ASP.NET Razor Pages content.

C#

Linux

macOS

Windows

Cloud

Service

Web

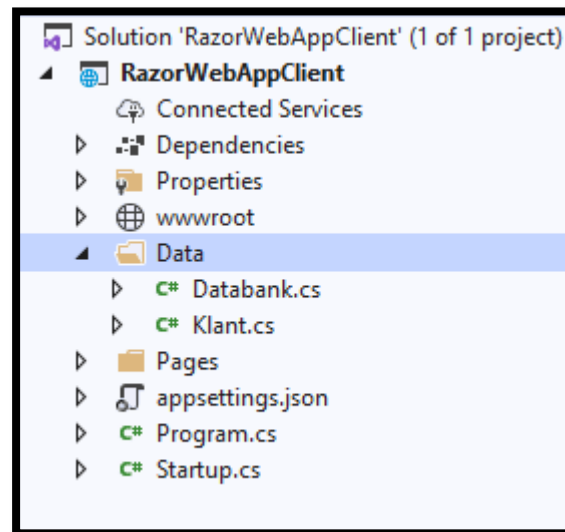
Visual Studio -> New project

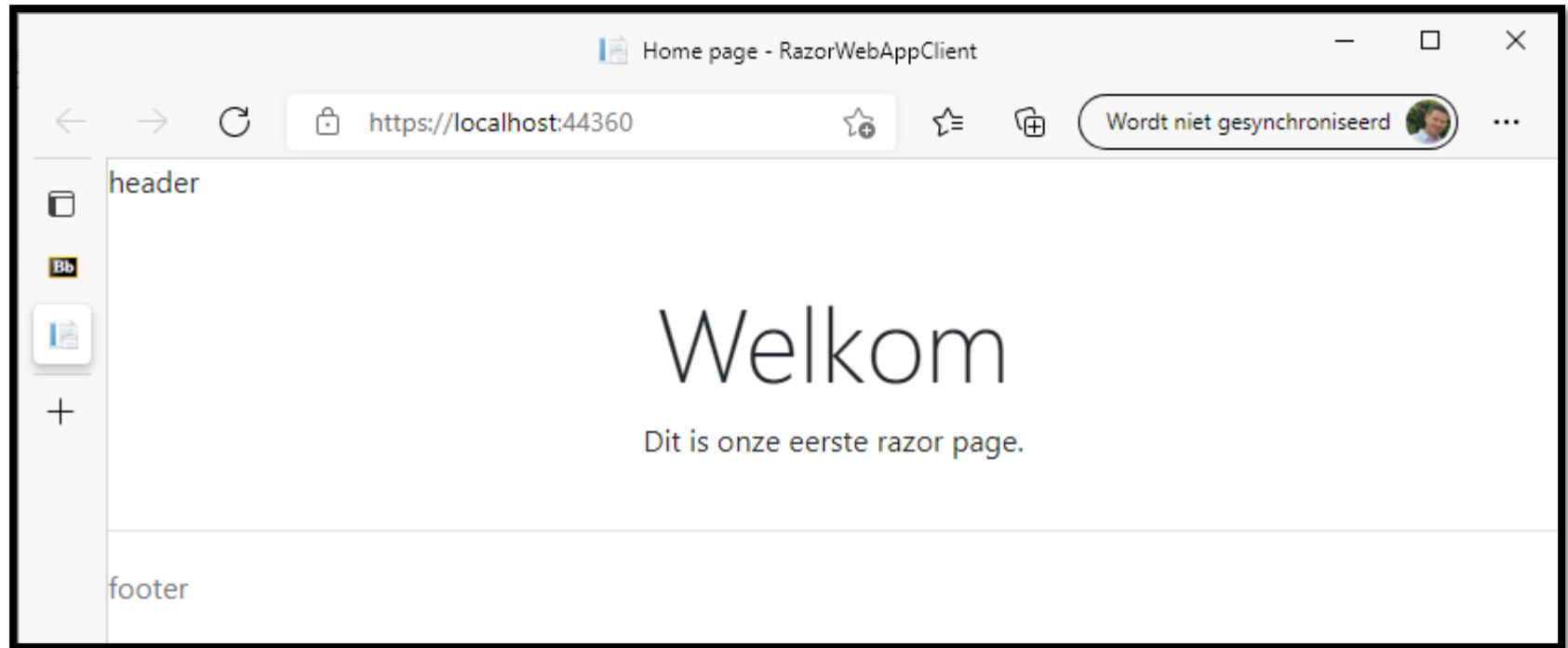
RazorWebAppClient

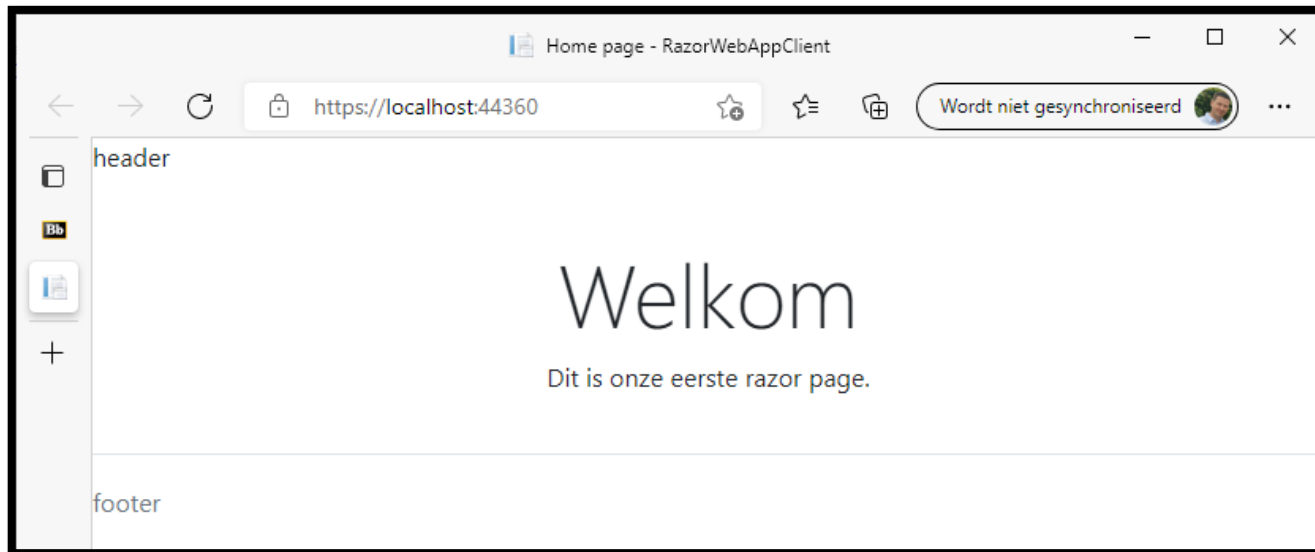
- Middleware is al geactiveerd voor Razor content
  - Program.cs

```
var builder = WebApplication.CreateBuilder(args);  
// Add services to the container.  
builder.Services.AddRazorPages();  
var app = builder.Build();  
// Configure the HTTP request pipeline.  
if (!app.Environment.IsDevelopment())  
{  
    app.UseExceptionHandler("/Error");  
    app.UseHsts();  
}  
app.UseHttpsRedirection();  
  
app.UseStaticFiles(); //Project/wwwroot  
  
app.UseRouting();  
app.UseAuthorization();  
  
app.MapRazorPages(); //Project/Pages  
  
app.Run();
```

- Project instellingen
  - Add Folder Data
    - Add class
      - Klant.cs
      - Databank.cs





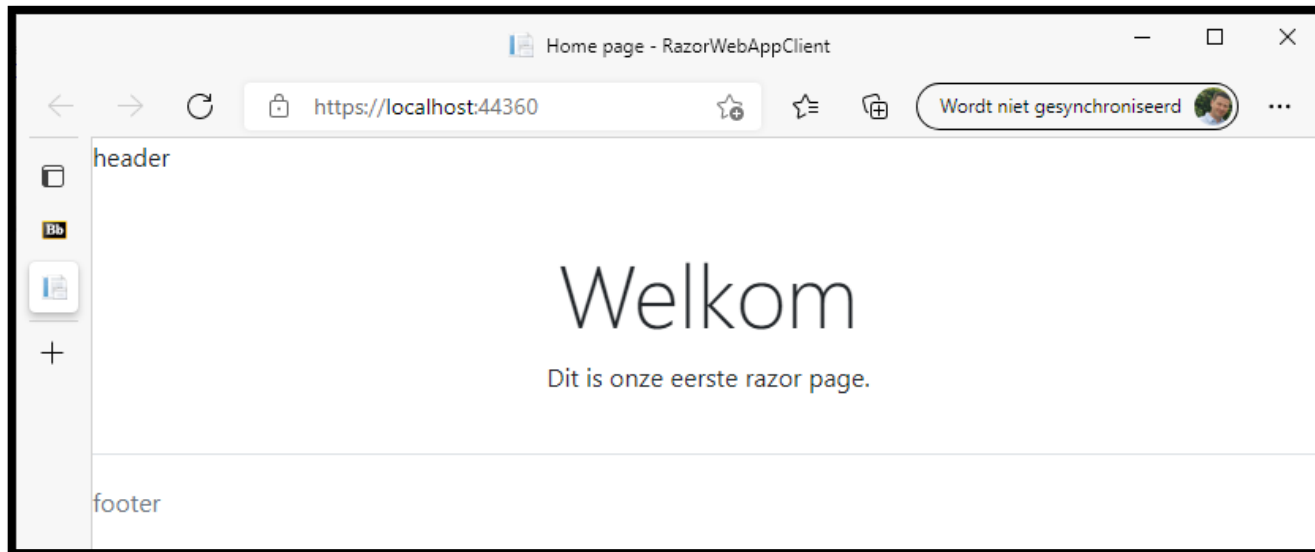


## Pages/Index.cshtml

```
@page
@model IndexModel
@{
    ViewData["Title"] = "Home page";
}

<div class="text-center">
    <h1 class="display-4">Welkom</h1>
    <p>Dit is onze eerste razor page.</p>
</div>
```



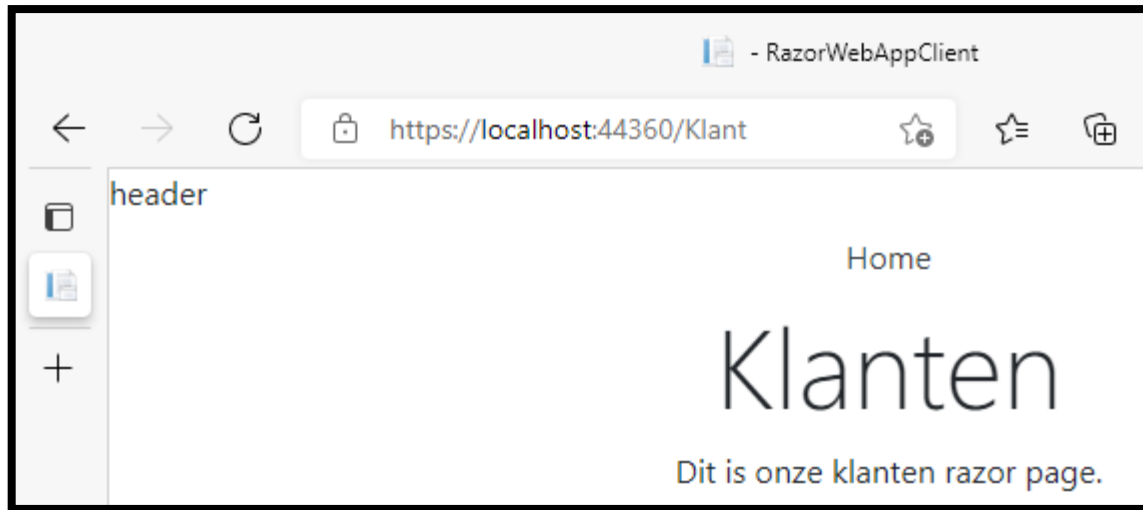


Pages/Shared/\_Layout.cshtml

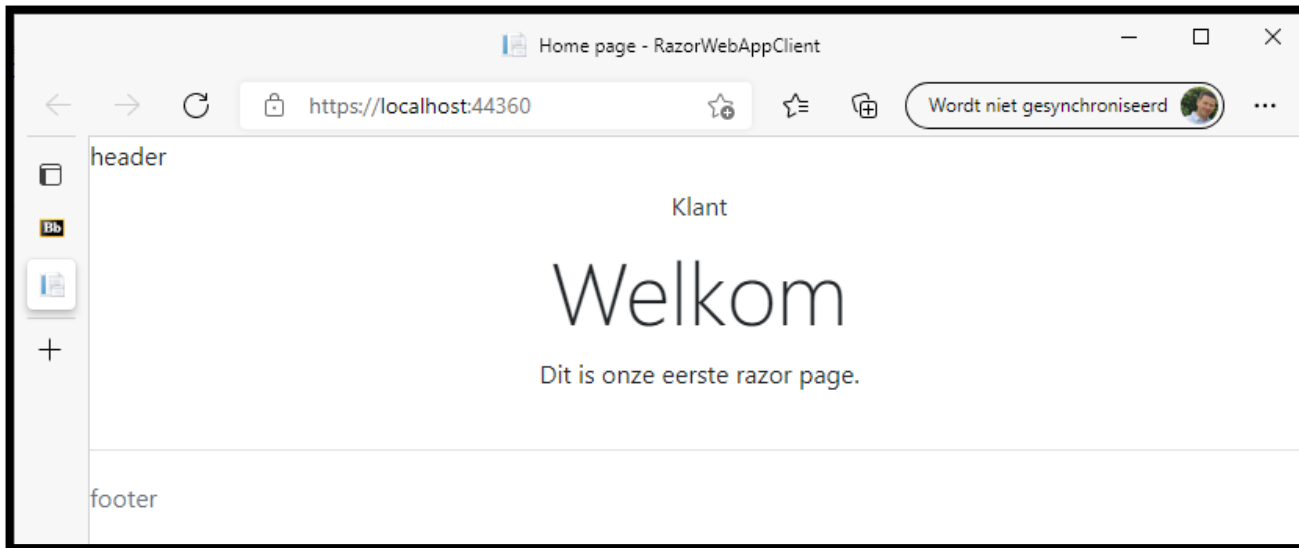
```
<body>
  <header>
    header
  </header>
  <div class="container">
    <main role="main" class="pb-3">
      @RenderBody()
    </main>
  </div>
  <footer class="border-top footer text-muted">
    footer
  </footer>
```

## Project instellingen

- Pages – Add Page
  - Klant.cshtml



```
@page
@model RazorWebAppClient.Pages.KlantModel
@{
}
<div class="text-center">
    <a class="nav-link text-dark" asp-area="" asp-page="/Index">Home</a>
    <h1 class="display-4">Klanten</h1>
    <p>Dit is onze klanten razor page.</p>
```



```
@page
@model IndexModel
@{
    ViewData["Title"] = "Home page";
}

<div class="text-center">
    <a class="nav-link text-dark" asp-area="" asp-page="/Klant">Klant</a>
    <h1 class="display-4">Welkom</h1>
    <p>Dit is onze eerste razor page.</p>
</div>
```



header



Home

# Klanten

Dit is onze klanten razor page.

**klantid: 1**

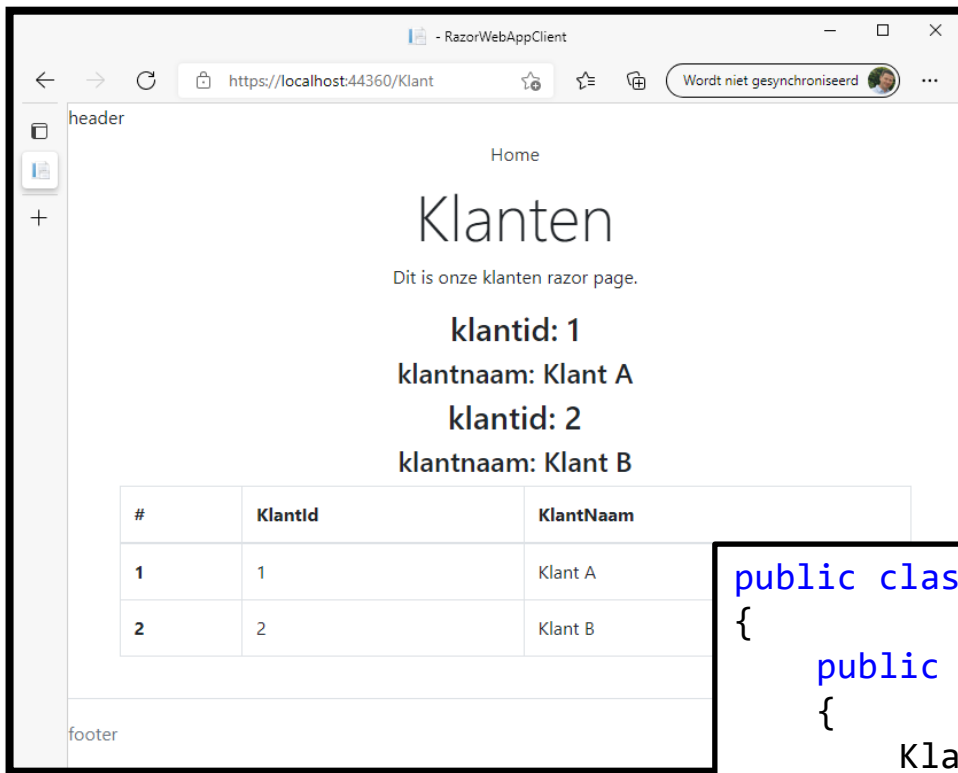
**klantnaam: Klant A**

**klantid: 2**

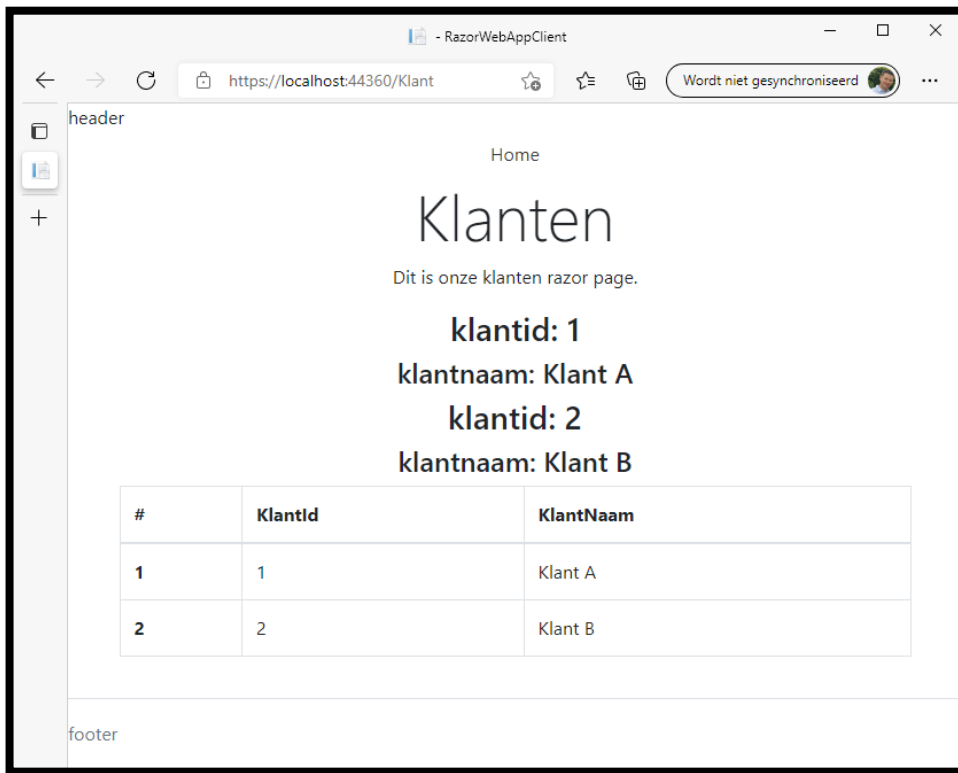
**klantnaam: Klant B**

#	KlantId	KlantNaam
1	1	Klant A
2	2	Klant B

footer



```
public class Klant
{
    public Klant()
    {
        KlantId = -1;
        KlantNaam = string.Empty;
    }
    public Klant(int id, string naam)
    {
        KlantId = id;
        KlantNaam = naam;
    }
    public int KlantId { get; set; }
    public string KlantNaam { get; set; }
    public bool GevalideerdeKlant => (KlantId > -1);
}
```



```
Public class Databank
{
    public static List<Klant> Klanten {get; set;}
    public static void StartDatabank()
    {
        Klanten = new List<Klant>();
        Klanten.Add(new Klant(1, "Klant A"));
        Klanten.Add(new Klant(2, "Klant B"));
    }
}
```

ProjectInstellingen

- Program.cs
- Starten van de statische databank.

```
using RazorWebAppClient.Data;
```

```
var builder = WebApplication.CreateBuilder(args);
```

```
// Add services to the container.
```

```
builder.Services.AddRazorPages();
```

```
var app = builder.Build();
```

```
app.UseHttpsRedirection();
```

```
app.UseStaticFiles();
```

```
app.UseRouting();
```

```
app.UseAuthorization();
```

```
app.MapRazorPages();
```

```
Databank.StartDatabank();
```

```
app.Run();
```

## Pages/Klant.cshtml

```
@page
@model RazorWebAppClient.Pages.KlantModel
@{
    var klanten = RazorWebAppClient.Data.Databank.Klanten;
    var rowId = 0;
}
<div class="text-center">
    <a class="nav-link text-dark" asp-area="" asp-page="/Index">Home</a>
    <h1 class="display-4">Klanten</h1>
    <p>Dit is onze klanten razor page.</p>
    @foreach (var klant in klanten)
    {
        <div>
            <h3>klantid: @klant.KlantId</h3>
            <h4>klantnaam: @klant.KlantNaam</h4>
        </div>
    }
</div>
```



## Pages/Klant.cshtml

```
...
<table class="table table-bordered">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">KlantId</th>
      <th scope="col">KlantNaam</th>
    </tr>
  </thead>
  <tbody>
    @foreach (var klant in klanten)
    {
      rowId++;
      <tr>
        <th scope="row">@rowId</th>
        <td>@klant.KlantId</td>
        <td>@klant.KlantNaam</td>
      </tr>
    }
  </tbody>
</table>
```

# ASP.NET CORE

Razor Web Application – Oefening01

- Project instellingen
  - Add class
    - Locatie.cs
      - LocatieID
      - Postcode
      - Gemeente
    - Databank.cs
      - Voeg 2 records toe
        - 1-3500-Hasselt
        - 2-3600-Genk
  - Add razor Page
    - Locaties.cshtml
      - Toon een Tabel met de gegevens van de locaties uit de databank class.
- Voeg een hyperlink toe in de Index razor page naar de nieuwe pagina

```
public class Locatie
{
    public Locatie()
    {
        LocatieId = -1;
        PostCode = string.Empty;
        Gemeente = string.Empty;
    }
    public Location(int locatieId, string postCode, string gemeente)
    {
        LocatieId = locatieId;
        PostCode = postCode;
        Gemeente = gemeente;
    }
    public int LocatieId { get; set; }
    public string PostCode { get; set; }
    public string Gemeente { get; set; }
}
```