Projekt Win masinas
installi .net core sdk
ava command prompt ja kontrolli versiooni
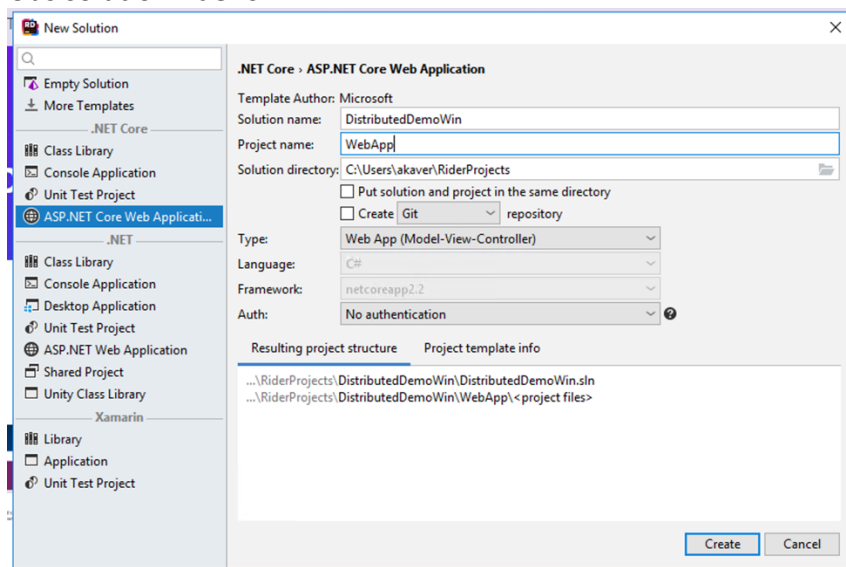
c:\>dotnet --version
2.2.103

installi JetBrains Rider
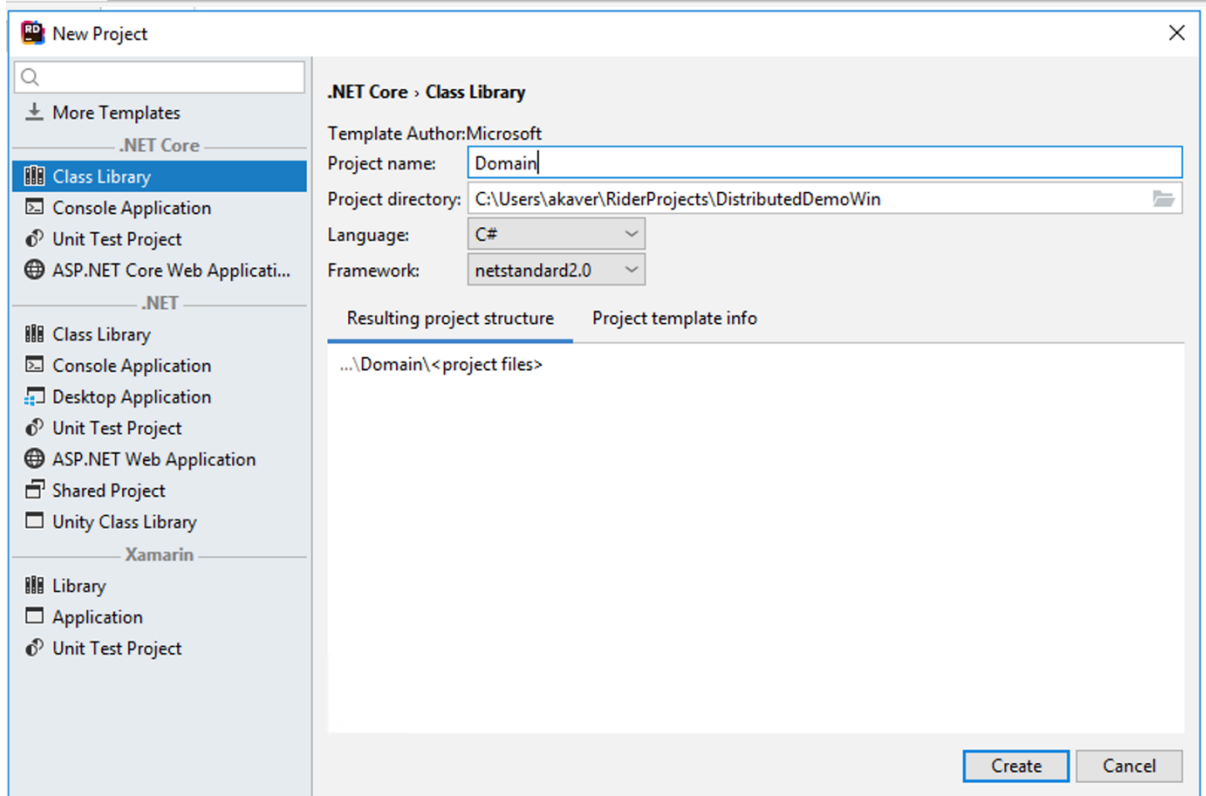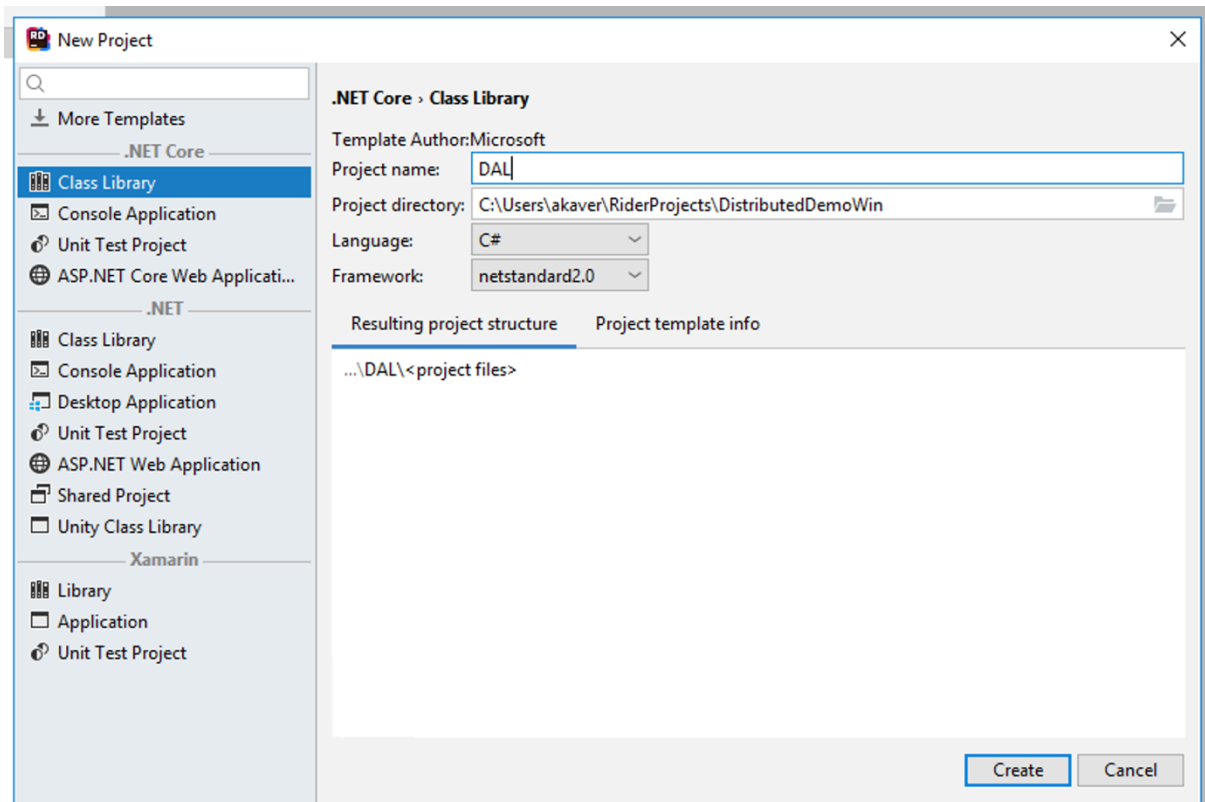(kui vahepeal uuendasit coret, siis restardi Rider)
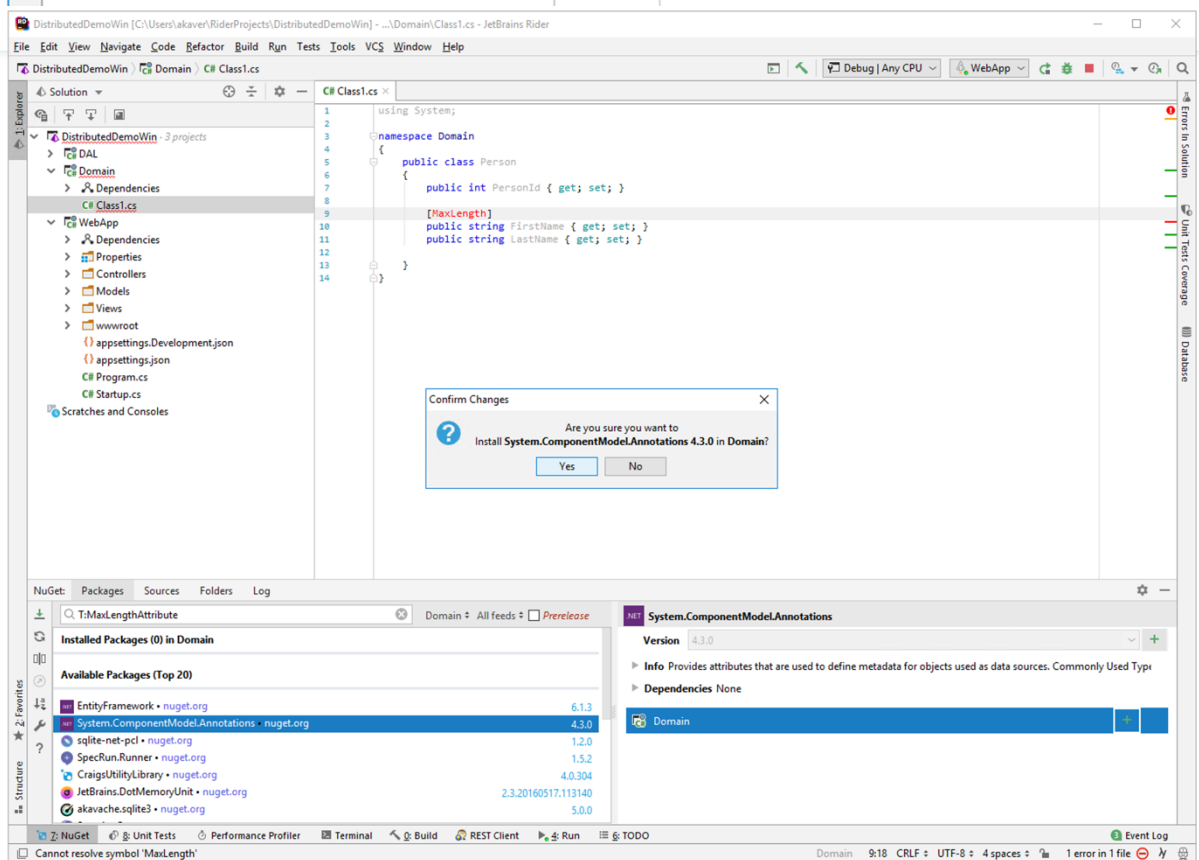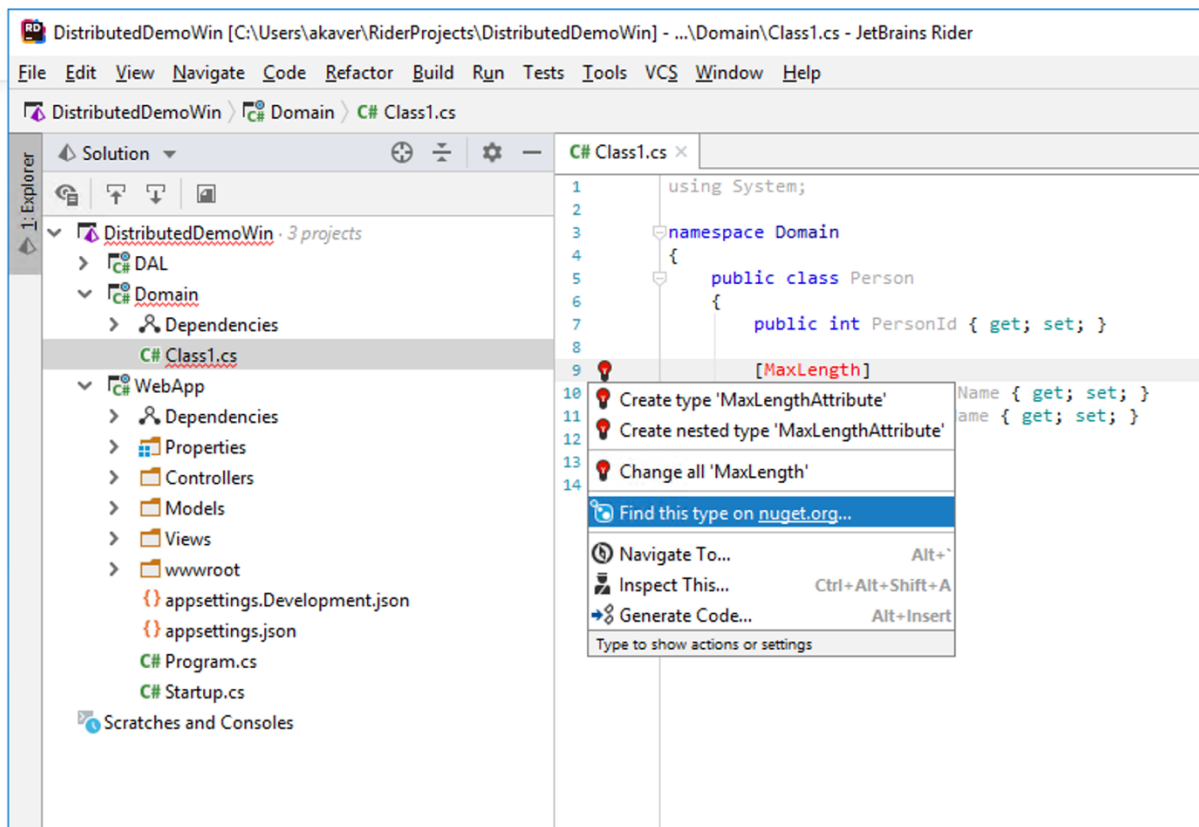
Sain Rideri 2018.3.1

Uus solution rideris

Kontrollkäivitus:Ctrl+F5 (Run WebApp)
Kompileerus, pilt browseris ees

Lisa klassiprojektid: DAL ja Domain (right click solution nimel ja add ja new project)
Defineeri üks olem (Person) Domain'is ja AppDbContext DAL'is.
Lisa AppDbContext WebAppis service konteinerisse.

New Project

Q
⬇ More Templates
        .NET Core
▦ Class Library
▤ Console Application
◔ Unit Test Project
🌐 ASP.NET Core Web Applicati...
        .NET
▦ Class Library
▤ Console Application
▦ Desktop Application
◔ Unit Test Project
🌐 ASP.NET Web Application
▣ Shared Project
▢ Unity Class Library
        Xamarin
▦ Library
▢ Application
◔ Unit Test Project

.NET Core › Class Library

Template Author:Microsoft

Project name: DAL

Project directory: C:\Users\akaver\RiderProjects\DistributedDemoWin

Language: C#

Framework: netstandard2.0

Resulting project structure   Project template info

...\DAL\<project files>

Create   Cancel

New Project

Q
⬇ More Templates
        .NET Core
▦ Class Library
▤ Console Application
◔ Unit Test Project
🌐 ASP.NET Core Web Applicati...
        .NET
▦ Class Library
▤ Console Application
▦ Desktop Application
◔ Unit Test Project
🌐 ASP.NET Web Application
▣ Shared Project
▢ Unity Class Library
        Xamarin
▦ Library
▢ Application
◔ Unit Test Project

.NET Core › Class Library

Template Author:Microsoft

Project name: Domain

Project directory: C:\Users\akaver\RiderProjects\DistributedDemoWin

Language: C#

Framework: netstandard2.0

Resulting project structure   Project template info

...\Domain\<project files>

Create   Cancel

Domain projektifail:

```xml
<Project Sdk="Microsoft.NET.Sdk">

  <PropertyGroup>
    <TargetFramework>netstandard2.0</TargetFramework>
  </PropertyGroup>

  <ItemGroup>
    <PackageReference Include="System.ComponentModel.Annotations" Version="4.3.0" />
  </ItemGroup>

</Project>
```

DAL projektifail

```xml
<Project Sdk="Microsoft.NET.Sdk">

  <PropertyGroup>
    <TargetFramework>netstandard2.0</TargetFramework>
  </PropertyGroup>

  <ItemGroup>
    <PackageReference Include="Microsoft.EntityFrameworkCore" Version="2.2.1" />
  </ItemGroup>

  <ItemGroup>
    <ProjectReference Include="..\Domain\Domain.csproj" />
  </ItemGroup>

</Project>
```

WebApp projektifail

```xml
<Project Sdk="Microsoft.NET.Sdk.Web">

  <PropertyGroup>
    <TargetFramework>netcoreapp2.2</TargetFramework>
    <AspNetCoreHostingModel>InProcess</AspNetCoreHostingModel>
  </PropertyGroup>


  <ItemGroup>
    <PackageReference Include="Microsoft.AspNetCore.App" />
    <PackageReference Include="Microsoft.AspNetCore.Razor.Design" Version="2.2.0"
PrivateAssets="All" />
  </ItemGroup>


  <ItemGroup>
   <ProjectReference Include="..\DAL\DAL.csproj" />
  </ItemGroup>

</Project>
```

Tee kontrollbuild (peata ennem project).

Lisa nugeti kaudu webappi jägmine pakett
`Microsoft.VisualStudio.Web.CodeGeneration.Design`

Ava terminal TAB rideri altservast ja käivita

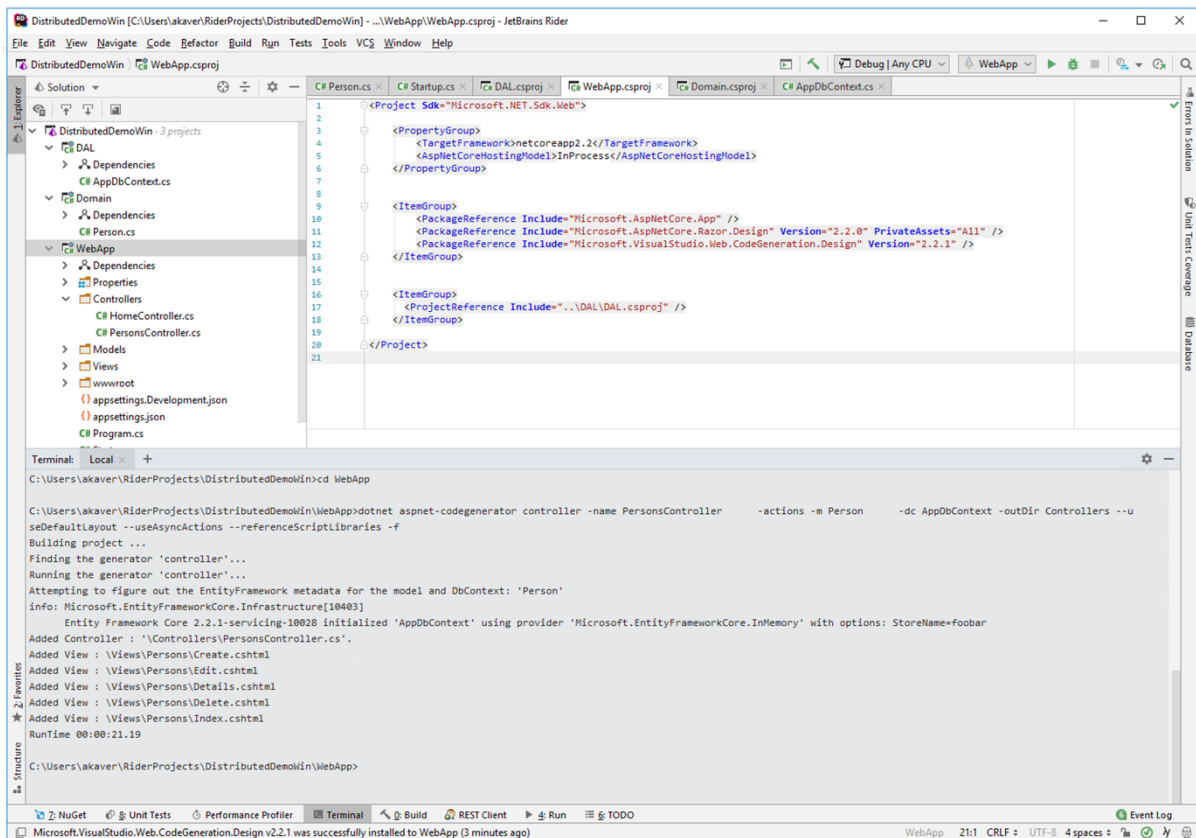…\>`dotnet tool install --global dotnet-aspnet-codegenerator`

Vahet terminalis kataloog WebApp projekti
…\>cd WebApp

Käivita käsurealt:
…\>`dotnet aspnet-codegenerator controller -name PersonsController`
`-actions -m Person      -dc AppDbContext -outDir Controllers --`
`useDefaultLayout --useAsyncActions --referenceScriptLibraries -f`

File Edit View Navigate Code Refactor Build Run Tests Tools VCS Window Help

DistributedDemoWin WebApp.csproj | Debug | Any CPU   WebApp

Solution | C# Person.cs   C# Startup.cs   DAL.csproj   WebApp.csproj   Domain.csproj   C# AppDbContext.cs

```xml
 1  <Project Sdk="Microsoft.NET.Sdk.Web">
 2
 3      <PropertyGroup>
 4          <TargetFramework>netcoreapp2.2</TargetFramework>
 5          <AspNetCoreHostingModel>InProcess</AspNetCoreHostingModel>
 6      </PropertyGroup>
 7
 8
 9      <ItemGroup>
10          <PackageReference Include="Microsoft.AspNetCore.App" />
11          <PackageReference Include="Microsoft.AspNetCore.Razor.Design" Version="2.2.0" PrivateAssets="All" />
12          <PackageReference Include="Microsoft.VisualStudio.Web.CodeGeneration.Design" Version="2.2.1" />
13      </ItemGroup>
14
15
16      <ItemGroup>
17          <ProjectReference Include="..\DAL\DAL.csproj" />
18      </ItemGroup>
19
20  </Project>
21
```

Solution explorer:
- DistributedDemoWin · 3 projects
  - DAL
    - Dependencies
    - AppDbContext.cs
  - Domain
    - Dependencies
    - Person.cs
  - WebApp
    - Dependencies
    - Properties
    - Controllers
      - HomeController.cs
      - PersonsController.cs
    - Models
    - Views
    - wwwroot
    - appsettings.Development.json
    - appsettings.json
    - Program.cs

Terminal: Local +

```
C:\Users\akaver\RiderProjects\DistributedDemoWin>cd WebApp

C:\Users\akaver\RiderProjects\DistributedDemoWin\WebApp>dotnet aspnet-codegenerator controller -name PersonsController     -actions -m Person     -dc AppDbContext -outDir Controllers --u
seDefaultLayout --useAsyncActions --referenceScriptLibraries -f
Building project ...
Finding the generator 'controller'...
Running the generator 'controller'...
Attempting to figure out the EntityFramework metadata for the model and DbContext: 'Person'
info: Microsoft.EntityFrameworkCore.Infrastructure[10403]
      Entity Framework Core 2.2.1-servicing-10028 initialized 'AppDbContext' using provider 'Microsoft.EntityFrameworkCore.InMemory' with options: StoreName=foobar
Added Controller : '\Controllers\PersonsController.cs'.
Added View : \Views\Persons\Create.cshtml
Added View : \Views\Persons\Edit.cshtml
Added View : \Views\Persons\Details.cshtml
Added View : \Views\Persons\Delete.cshtml
Added View : \Views\Persons\Index.cshtml
RunTime 00:00:21.19

C:\Users\akaver\RiderProjects\DistributedDemoWin\WebApp>
```

7: NuGet   8: Unit Tests   Performance Profiler   Terminal   0: Build   REST Client   4: Run   6: TODO   Event Log

Microsoft.VisualStudio.Web.CodeGeneration.Design v2.2.1 was successfully installed to WebApp (3 minutes ago)   WebApp   21:1 CRLF   UTF-8 4 spaces

Lisa ka API controller

```
...\>dotnet aspnet-codegenerator controller -name PersonsController
-actions -m Person     -dc AppDbContext -outDir ApiControllers -api --
useAsyncActions -f
```
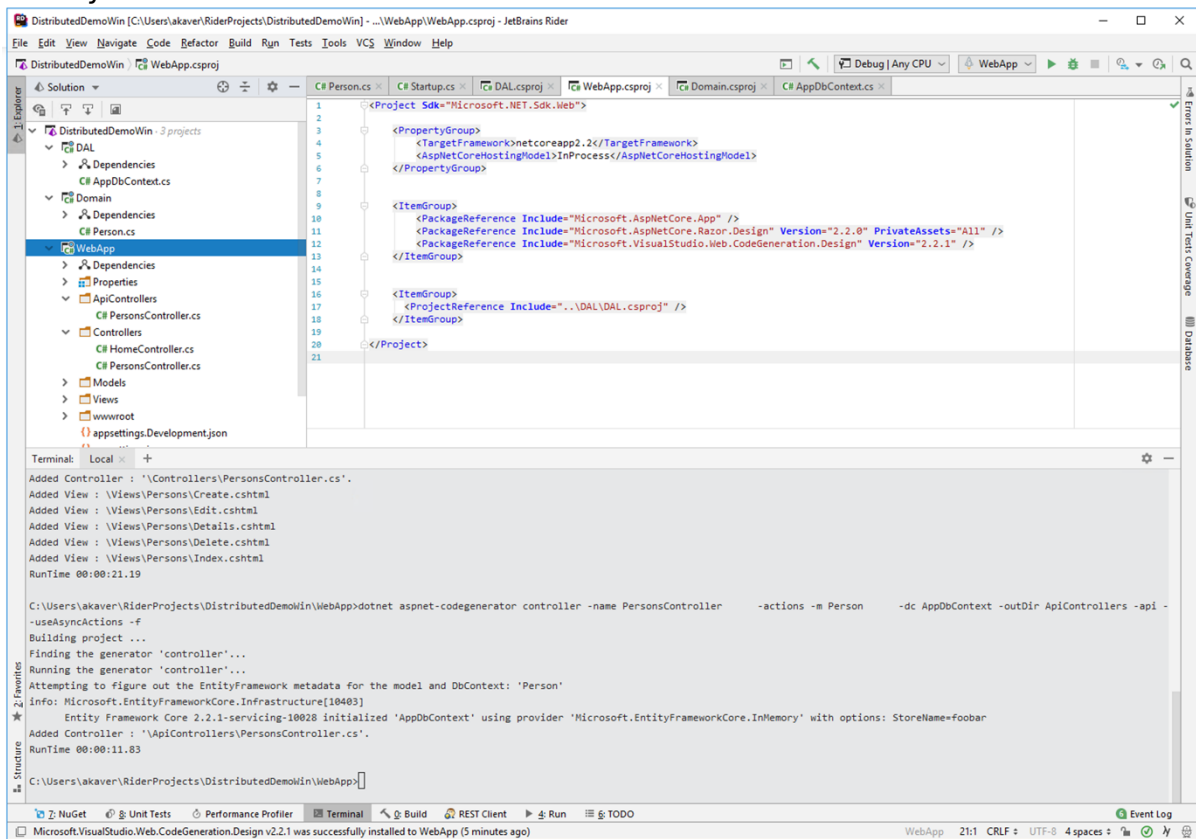
Lõplik WebAppi projektifail

```xml
<Project Sdk="Microsoft.NET.Sdk.Web">

  <PropertyGroup>
    <TargetFramework>netcoreapp2.2</TargetFramework>
    <AspNetCoreHostingModel>InProcess</AspNetCoreHostingModel>
  </PropertyGroup>


  <ItemGroup>
    <PackageReference Include="Microsoft.AspNetCore.App" />
    <PackageReference Include="Microsoft.AspNetCore.Razor.Design" Version="2.2.0"
PrivateAssets="All" />
    <PackageReference Include="Microsoft.VisualStudio.Web.CodeGeneration.Design"
Version="2.2.1" />
  </ItemGroup>


  <ItemGroup>
   <ProjectReference Include="..\DAL\DAL.csproj" />
  </ItemGroup>

</Project>
```