



C# Web – MVC

PRO - C# Web 1

DE HOGESCHOOL MET HET NETWERK

Hogeschool PXL – Elfde-Liniestraat 24 – B-3500 Hasselt
www.pxl.be - www.pxl.be/facebook



Doel

- ASP.Net Core toepassing
 - MVC Web Application
 - Identity Framework

ASP.NET CORE

MVC Web Application
MVCVoertuig

MVCVoertuig - NPM

- Nuget Package Manager
 - EntityFrameworkCore.SqlServer
 - EntityFrameworkCore.Tools

- Nuget Package Manager
 - Identity.EntityFrameworkCore



Microsoft.AspNetCore.Identity.EntityFrameworkCore ✓ by Microsoft, 66M downloads
ASP.NET Core Identity provider that uses Entity Framework Core.

MVCVoertuig – Data service

Startup.cs

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddControllersWithViews();
    services.AddDbContext<VoertuigDbContext>(opts => {
        opts.UseSqlServer(
            Configuration["ConnectionStrings:VoertuigConnection"]);
    });
}
```

MVCVoertuig – Data service Identity framework

Startup.cs

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDbContext<VoertuigDbContext>(opts => {
        opts.UseSqlServer(
            Configuration["ConnectionStrings:VoertuigConnection"]);
    });
    services.AddIdentityCore<IdentityUser>(
        options => options.SignIn.RequireConfirmedAccount = false)
        .AddEntityFrameworkStores<VoertuigDbContext>();
    services.AddControllersWithViews();
}
```

Identity Framework - IdentityUser

- IdentityUser
- IdentityDbContext (Identity.EntityFramework)
 - SQL Server
 - AspNetUsers
 - Primary table to store user information
 - Automatisch aangemaakt bij een migratie

Identity Framework - Authentication

- Startup.cs

```
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    ...
    app.UseAuthentication();
    app.UseAuthorization();
    app.UseEndpoints(endpoints =>
    {
        endpoints.MapControllerRoute(
            name: "default",
            pattern: "{controller=Home}/{action=Index}/{id?}");
    });
    SeedData.EnsurePopulated(app);
}
```


Identity Framework - Authentication

- Controllers - VoertuigenController

```
namespace MVCVoertuig.Controllers
{
    [Authorize]
    public class VoertuigenController : Controller
```

MVCVoertuig – SeedData

Create static class SeedData in Data folder

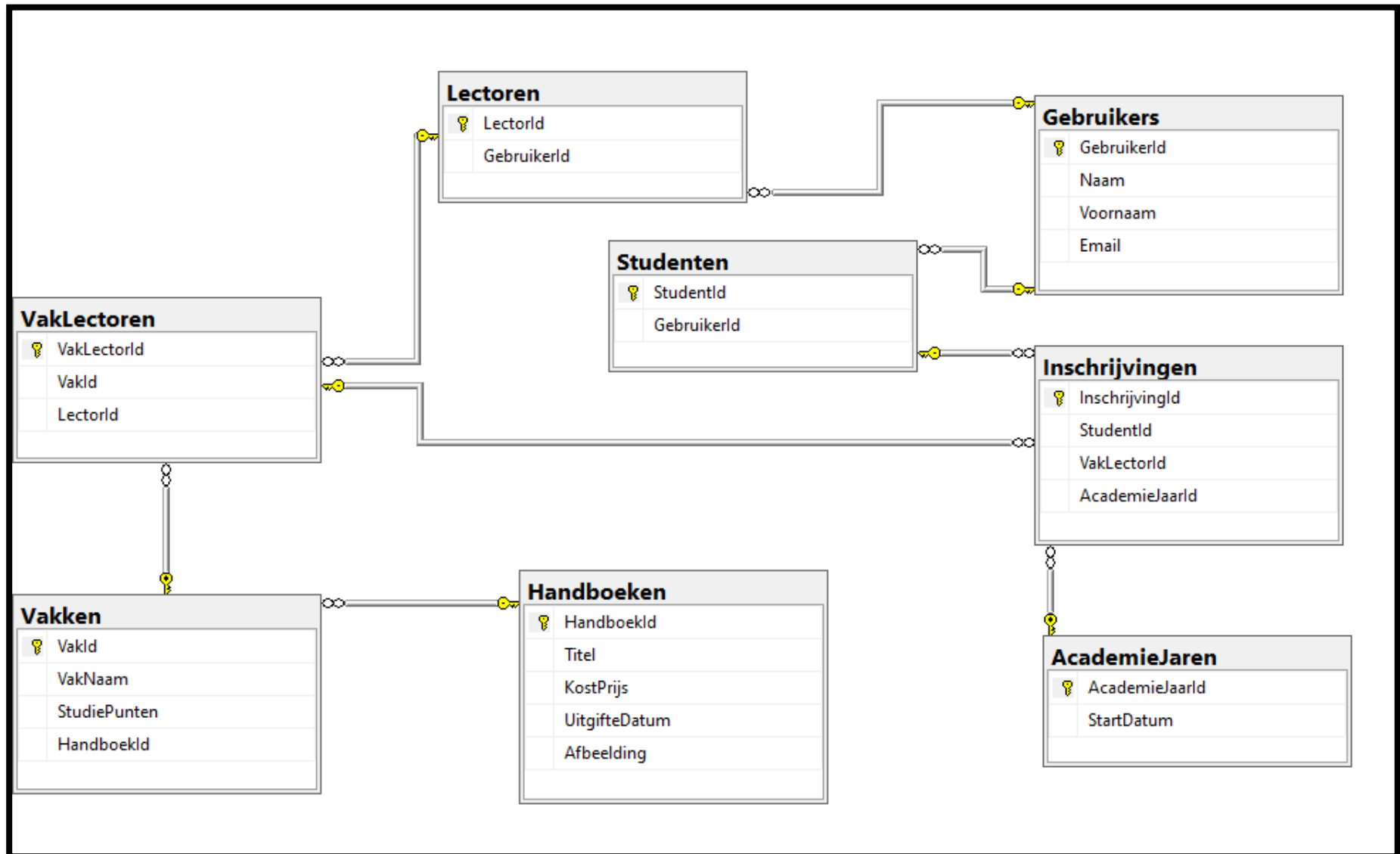
Startup.cs

```
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    ...
    app.UseEndpoints(endpoints =>
    {
        endpoints.MapControllerRoute(
            name: "default",
            pattern: "{controller=Home}/{action=Index}/{id?}");
    });
    SeedData.EnsurePopulated(app);
}
```

ASP.NET CORE

Project
Datamodel

Project – Data model



ASP.NET CORE

MVC Web Application
Samenvatting voor Identity Framework
Oefening12