

C# Web – MVC

PRO/PRW - C# Web 1

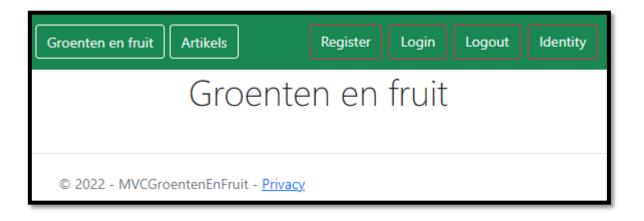
DE HOGESCHOOL MET HET NETWERK

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



Doel

- ASP.Net Core toepassing
 - Identity Framework
 - Identity User
 - Identity Role





IdentityUser - Register

Teams – 2 MVCGroentenEnFruit

- Nuget Package Manager Console
 - Update-Database

SeedData

- Artikels
- IdentityRole AspNetRoles
- IdentityUser AspNetUsers
- AspNetUserRoles

Artikels

- Ijsbergsla
- Roma tomaat

Views/Shared/_Layout

Roles

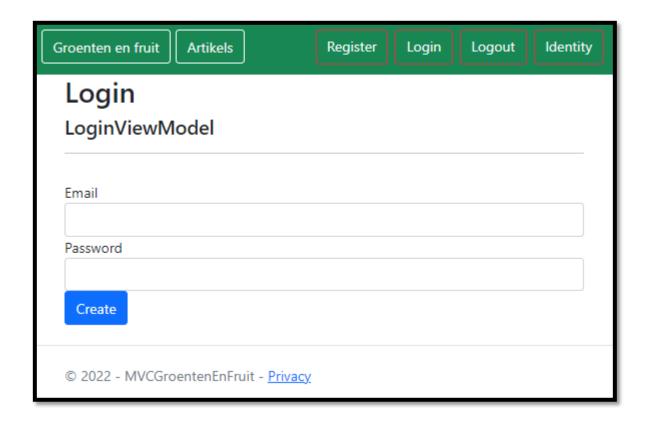
- Aankoper
- Verkoper

Register users

- aankoper@pxl.be
 - Aankoper00!
 - Role: Aankoper
- verkoper@pxl.be
 - Verkoper00!
 - Role: Verkoper



IdentityUser - Login





IdentityUser – Login Dependency Injection

IdentityUser – Login AccountController - Login

```
[HttpPost]
public async Task<IActionResult> LoginAsync(LoginViewModel login)
{
    var signInResult = await _signInManager.PasswordSignInAsync(
        login.Email, login.Password, false, false);

    if (signInResult.Succeeded)
    {
        return RedirectToAction("Index", "Home");
    }
    ModelState.AddModelError("", "Probleem met inloggen");
    return View();
}
```



IdentityUser – ArtikelsController

Beveilig de controller namespace MVCGroentenEnFruit.Controllers { [Authorize] public class ArtikelsController : Controller { Men wordt automatisch door verwezen naar login pagina

Test de Login met de gegevens uit de SeedData class



IdentityUser – Login AccountController - Login



IdentityUser – Login AccountController - Login

```
[HttpPost]
public async Task<IActionResult> LoginAsync(LoginViewModel login)
   var identityUser = await _userManager.FindByEmailAsync(login.Email);
    if (identityUser != null)
       var signInResult =
          await _signInManager.PasswordSignInAsync(
               identityUser.UserName, login.Password, false, false);
        if (signInResult.Succeeded)
            return RedirectToAction("Index", "Home");
    ModelState.AddModelError("", "Probleem met inloggen");
    return View();
```



IdentityUser – Login AccountController - Logout



IdentityUser – Login AccountController - Logout

```
#region logout
public async Task<IActionResult> LogoutAsync()
{
    await _signInManager.SignOutAsync();
    return View("Login");
}
#endregion
```

IdentityUser - Register

Register users

- <u>aankoper@pxl.be</u>
 - Aankoper00!
 - Role: Aankoper
- verkoper@pxl.be
 - Verkoper00!
 - Role: Verkoper



AccountController – Identity Dependency Injection

```
public class AccountController : Controller
    AppDbContext _context;
    UserManager<IdentityUser> _userManager;
    SignInManager<IdentityUser> _signInManager;
    RoleManager<IdentityRole> _roleManager;
    public AccountController(
       AppDbContext context,
       UserManager<IdentityUser> userManager,
       SignInManager<IdentityUser> signInManager,
       RoleManager<IdentityRole> roleManager)
        _context = context;
        _userManager = userManager;
        _signInManager = signInManager;
        _roleManager = roleManager;
```



IdentityUser – Login AccountController - Register

```
public async Task<IActionResult> RegisterAsync(RegisterViewModel registerViewModel)
{
        if (identityResult.Succeeded)
        {
            var identityRole =
                 await _roleManager.FindByIdAsync(registerViewModel.RoleId);
            var roleResult =
                  await _userManager.AddToRoleAsync(identityUser, identityRole.Name);
        if (roleResult.Succeeded)
            return View("Login");
```



IdentityUser – IdentityRole

```
Models/ViewModels

    Add class - IdentityViewModel

namespace MVCGroentenEnFruit.Models.ViewModels
{
    public class IdentityViewModel
        public IEnumerable<IdentityUser>? Users { get; set; }
        public IEnumerable<IdentityRole>? Roles { get; set; }
```



IdentityUser – IdentityRole Views/_ViewImports

```
@using MVCGroentenEnFruit.Models
@using MVCGroentenEnFruit.Models.ViewModels
@using MVCGroentenEnFruit.Models.ViewModels
@addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
```



IdentityUser – IdentityRole Views/Account/Identity

Add empty Razor View – Account/Identity

```
@model IdentityViewModel
@if(Model.Roles != null)
  <thead>
     RoleName
     </thead>
     @foreach(var role in @Model.Roles)
        @role.Name
        }
```

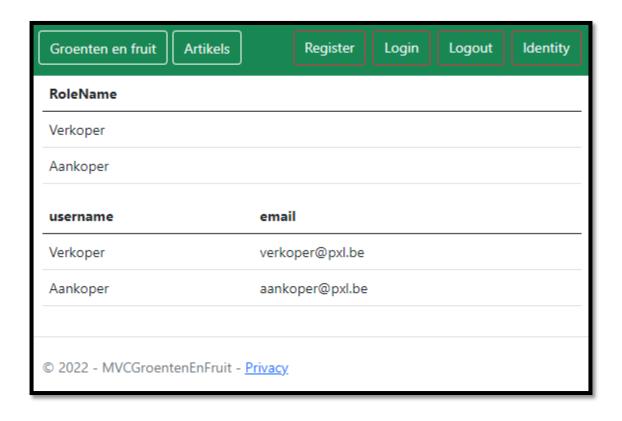


AccountController – Identity

```
#region Identity
[HttpGet]
public IActionResult Identity()
{
   var identityViewModel = new IdentityViewModel();
   identityViewModel.Roles = _roleManager.Roles;
   return View(identityViewModel);
}
#endregion
```



AccountController – Identity Oefening - IdentityUser



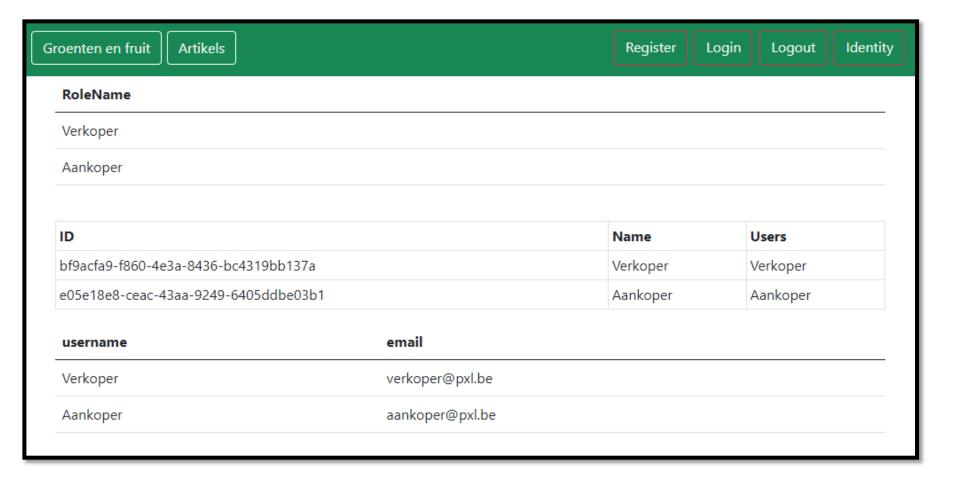


AccountController – Identity Oefening - IdentityUser

```
#region Identity
    [HttpGet]
    public IActionResult Identity()
    {
        var identityViewModel = new IdentityViewModel();
        identityViewModel.Roles = _roleManager.Roles;
        identityViewModel.Users = _userManager.Users;
        return View(identityViewModel);
    }
    #endregion
```



AccountController – Identity TagHelper – IdentityUser - IdentiyRole





AccountController – Identity TagHelper – IdentityUser – IdentiyRole Dependency Injection

```
public class RoleUsersTagHelper : TagHelper
    private UserManager<IdentityUser>? _userManager;
    private RoleManager<IdentityRole>? _roleManager;
    public RoleUsersTagHelper(
       UserManager<IdentityUser> userManager,
       RoleManager<IdentityRole> roleManager)
        _userManager = userManager;
        _roleManager = roleManager;
   public override async Task ProcessAsync(
                TagHelperContext context, TagHelperOutput output)
```

AccountController – Identity TagHelper – IdentityUser – IdentiyRole Attributes



AccountController – Identity TagHelper – IdentityUser – IdentiyRole Process

```
public override async Task ProcessAsync(TagHelperContext context,
        TagHelperOutput output)
{
   List<string> names = new List<string>();
    IdentityRole role = await _roleManager.FindByIdAsync(Role);
    if (role != null)
       foreach (var user in _userManager.Users)
            if (user != null && await _userManager.IsInRoleAsync(user, role.Name))
                names.Add(user.UserName);
    output.Content.SetContent(names.Count == 0 ? "No Users" :
        string.Join(", ", names));
```



AccountController – Identity TagHelper – IdentityUser – IdentityRole Views/Account/Identity

```
@if(Model.Roles != null)
 <br />
 IDNameUsers
  @foreach(var role in Model.Roles)
    @role.Id
     @role.Name
```

AccountController – Identity TagHelper – IdentityUser – IdentityRole Views/_ViewImports

```
@using MVCGroentenEnFruit.Models
@using MVCGroentenEnFruit.Models.ViewModels
@using MVCGroentenEnFruit.Models.ViewModels
@addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
@addTagHelper *, MVCGroentenEnFruit
```



IdentityUser - Models/Data/AankoopOrder

```
We gaan de persoon die is ingelogd opslaan in de tabel
AankoopOrder als men een record wil aanmaken.
Dus we moeten controle inbouwen dat gebruiker is
ingelogd en we voegen ook nog een 2de controle toe dat
enkel een persoon met een Aankoper rol deze acties mag
uitvoeren.
public class AankoopOrder
        public int AankoopOrderId { get; set; }
        public int ArtikelId { get; set; }
        public int Hoeveelheid { get; set; }
        public string? IdentityUserId { get; set; }
        public Artikel? Artikel { get; set; }
        public IdentityUser? IdentityUser { get; set; }
```



Nuget Package Manager Console

Add-migration aankoop Update-database

