

NETCore3 Identity Solution #1

Base Folder L:\Samples\ASPNET-Identity\

Source Folder ~\Core3IdentitySolution1

Git-Archives ~\Git-Archives\Core3IdentitySolution1\

Database Backups ~\DBBackups\Core3IdentitySolution1

Generated 11/02/2019 10:55



NETCore3 Identity Solution #1

Documentation & URLs

https://stackoverflow.com/questions/58584446/asp-net-core-identity-usermanager-isinrole-call-works-in-2-2-but-throws-

invalido?noredirect=1#comment103484000_58584446



NETCore3 Identity Solution #1



NETCore3 Identity Solution #1 Starting GitId: NA

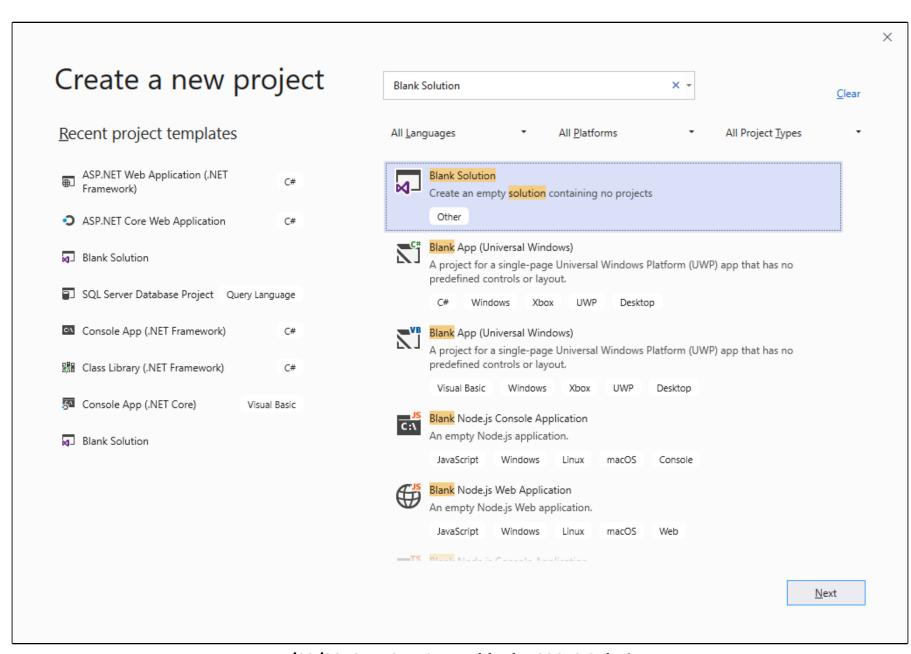
No commit Create Core3IdentitySolution1 VS2019 Solution Next

Base Folder
L:\Samples\ASPNET-Identity\

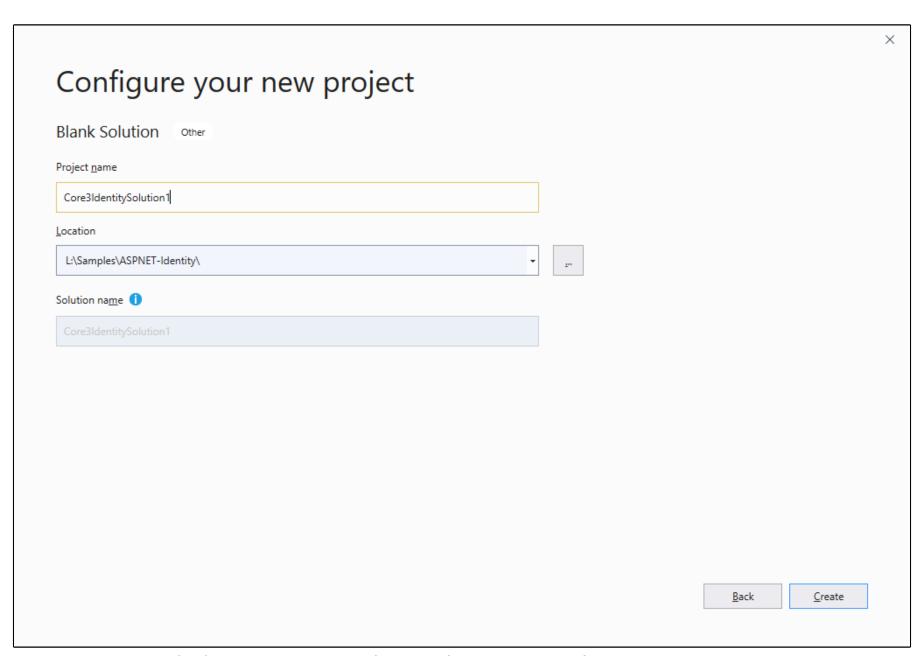
Source Folder ~\Core3IdentitySolution1

Git-Archives
~\Git-Archives\Core3IdentitySolution1\
None

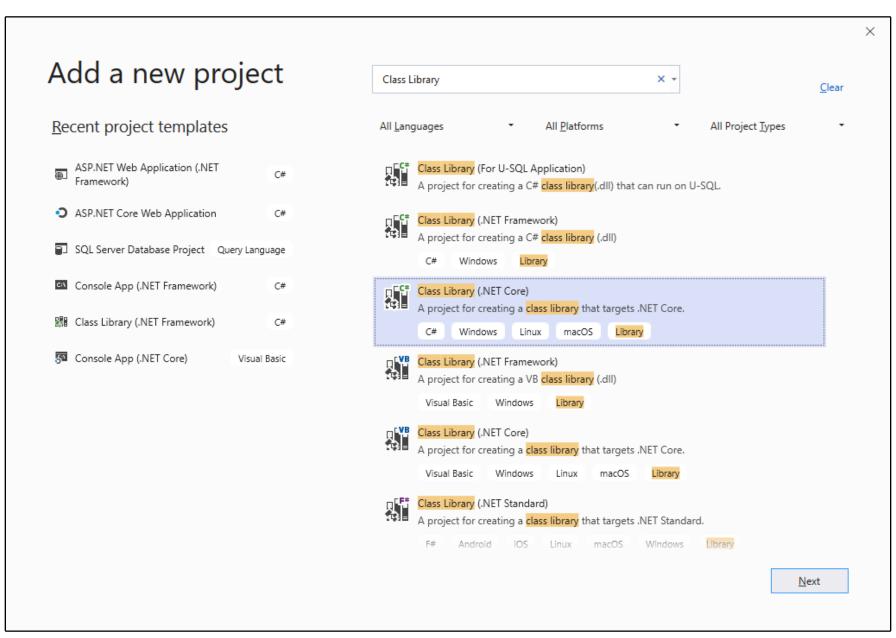
11/02/2019 10:55 Page 4



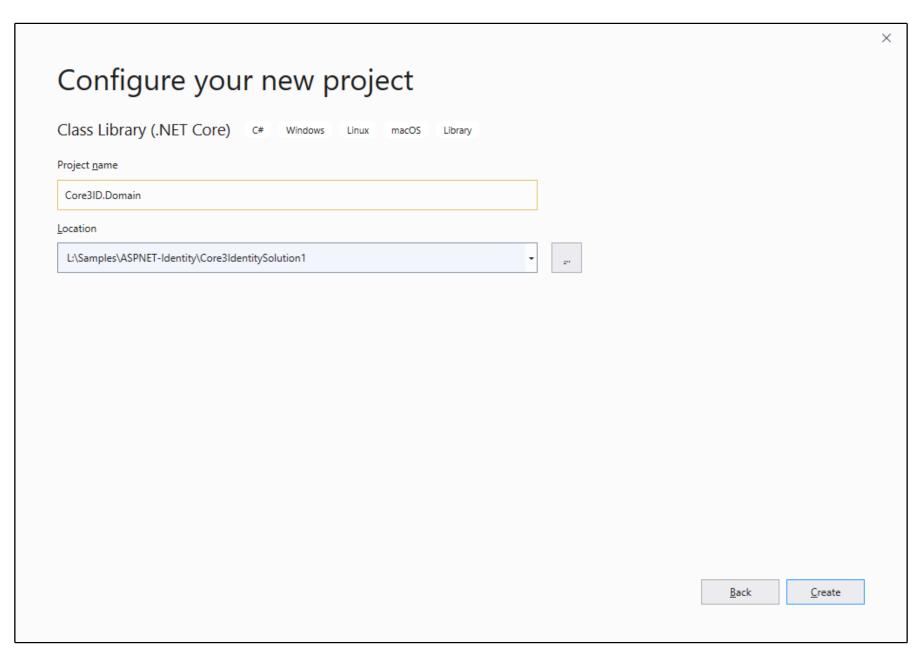
11/02/2019 11:07 - Create blank VS2019 Solution



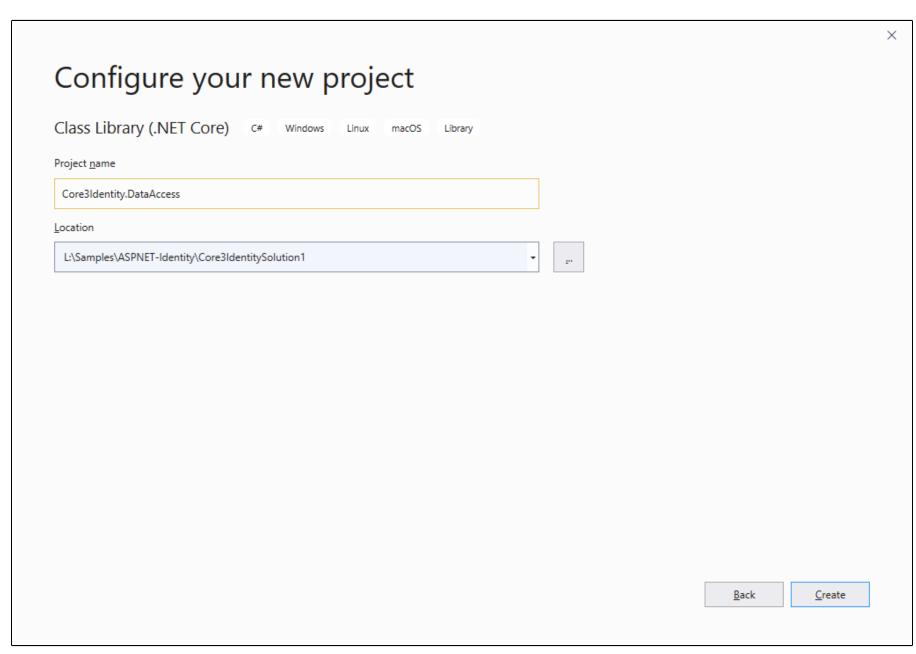
11/02/2019 11:07 - Create L:\Samples\ASPNET-Identity\Core3IdentitySolution1



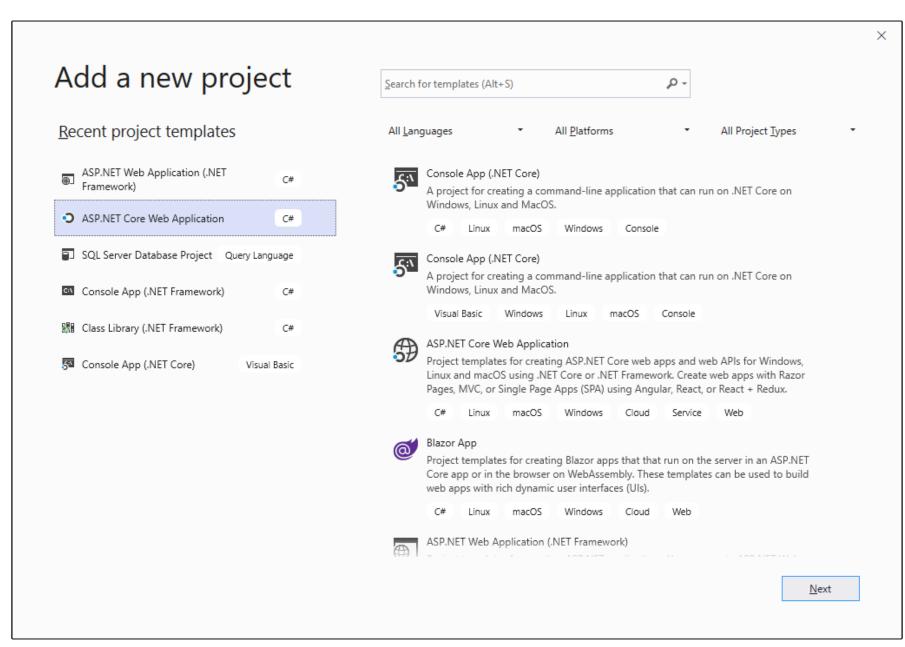
11/02/2019 11:16 - Add 2 .NET Core 3.0 Class Libraries

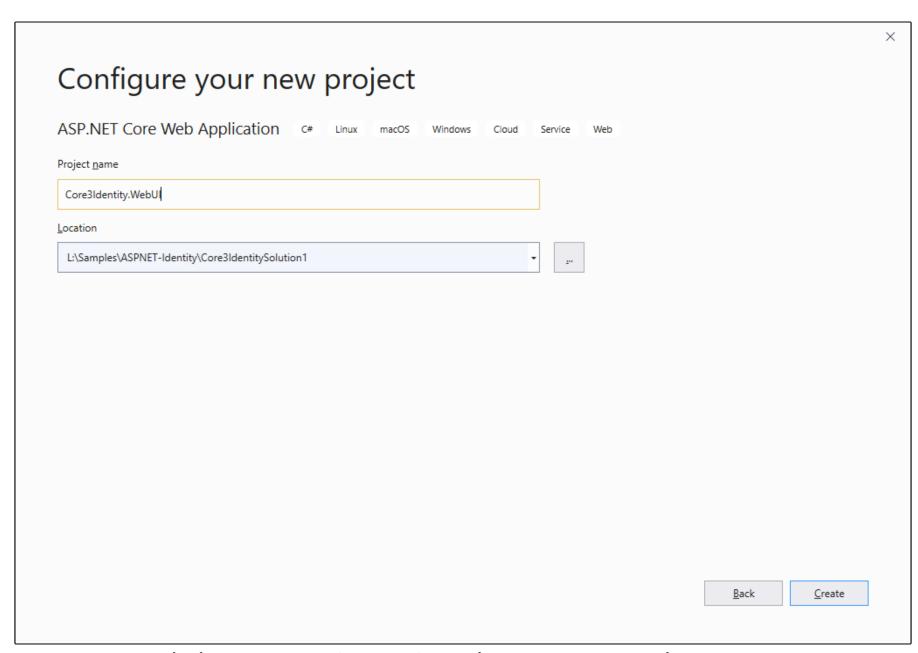


11/02/2019 11:19 - Configure ~\Core3IdentitySolution1\Core3.Domain

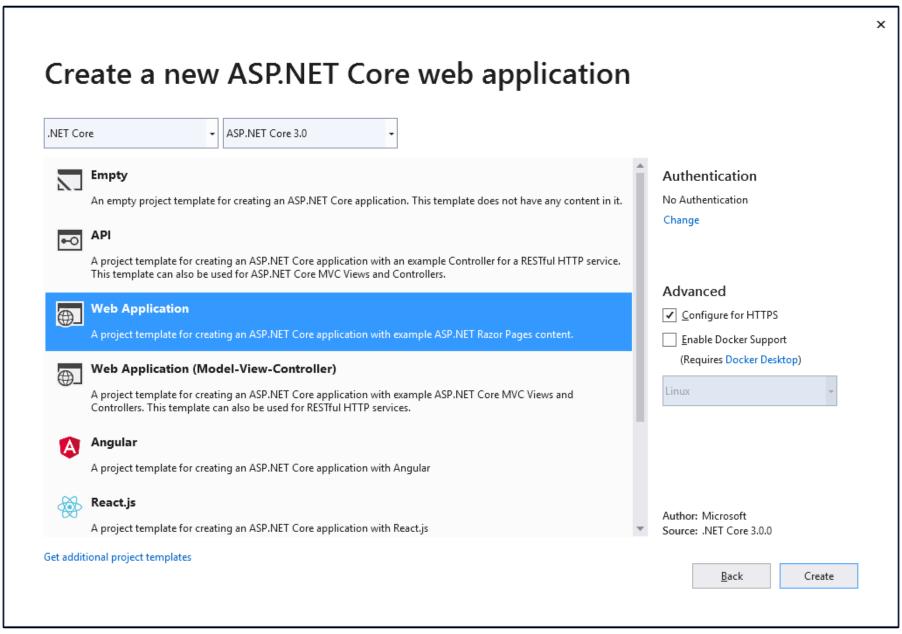


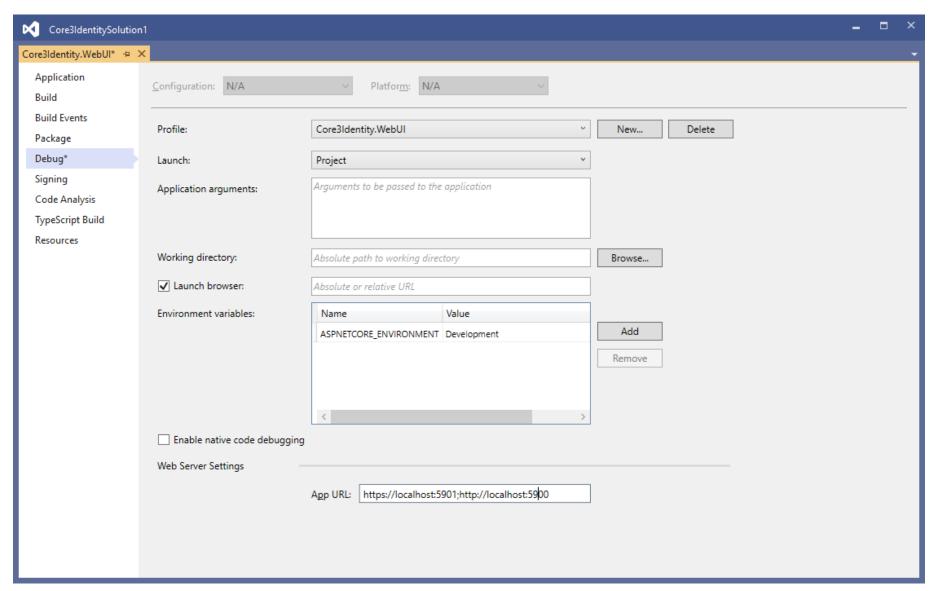
11/02/2019 11:29 - Configure ~\Core3IdentitySolution1\Core3.DataAccess



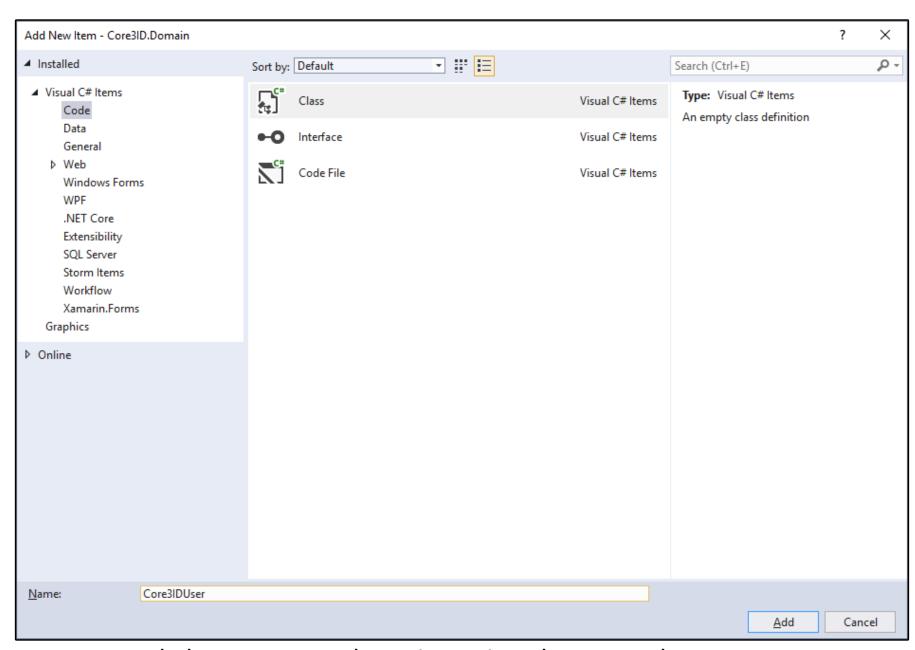


11/02/2019 12:24 - Configure Configure ~\Core3IdentitySolution1\Core3.WebUI





11/02/2019 12:31 – Set Core3IdentitySolution1\Core3.WebUI Debug Properties Run on localhost ports, 5900 & 5901 in Kestrel



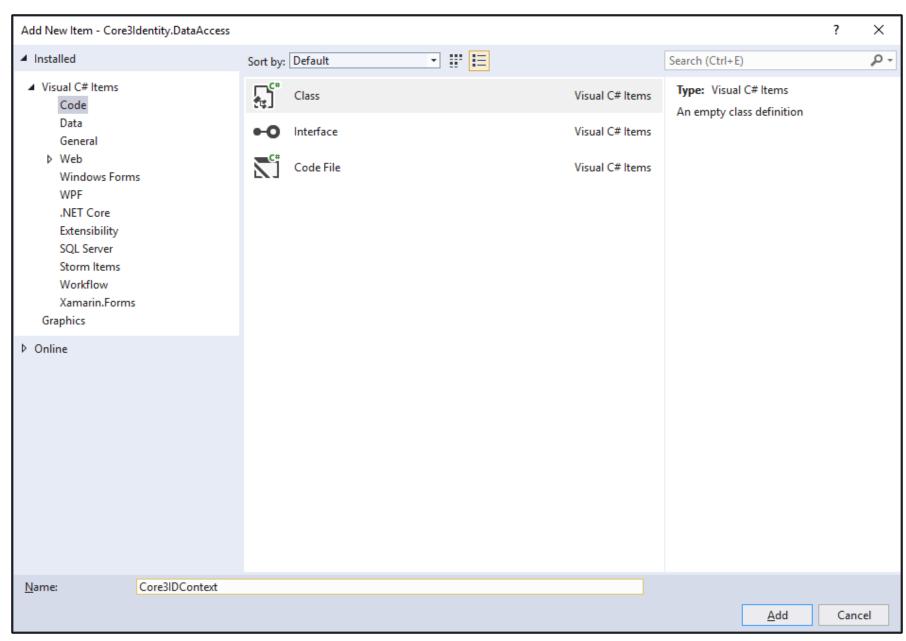
11/02/2019 15:34 - Create ~\Core3IdentitySolution1\Core3.Domain\Core3IDUser.cs

```
using System.ComponentModel.DataAnnotations;
using Microsoft.AspNetCore.Identity;
namespace Core3ID.Domain
   /// <summary>
   /// Core 3.0 Identity User
   /// </summary>
   /// <remarks>
   /// This class inherits from IdentityUser and include customized data for all authenticated users.
   /// An instance of this class is created upon registration.
   /// </remarks>
   public class Core3IDUser : IdentityUser
       /// <summary>
       /// User's Last Name
       /// </summary>
       [PersonalData]
       public string LastName { get; set; }
       /// <summary>
        /// User's First Name
       /// </summary>
       [PersonalData]
       public string FirstName { get; set; }
   . . Continued on next page
```

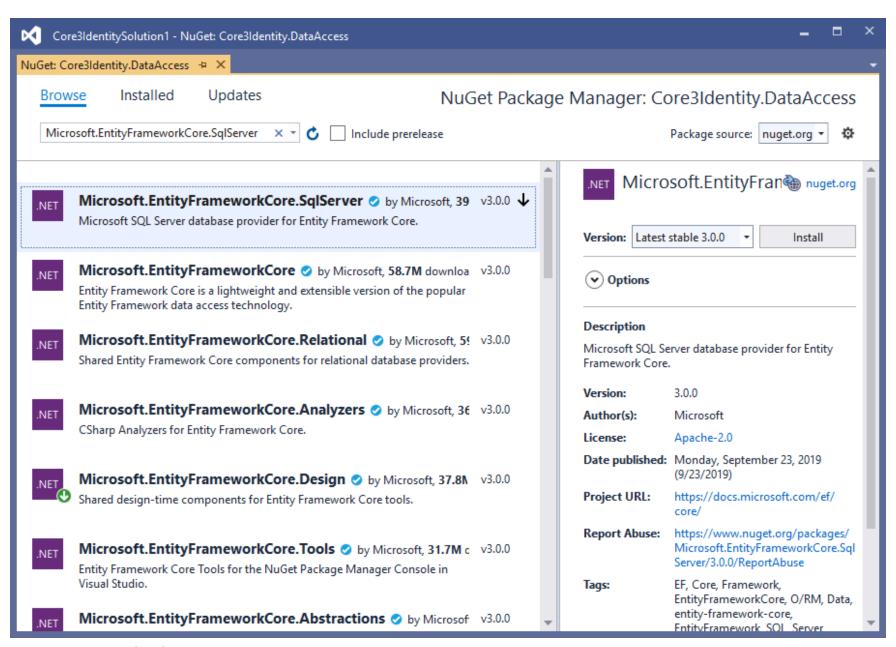
11/02/2019 15:41 - Initial ~\Core3IdentitySolution1\Core3.Domain\Core3IDUser.cs, p. 1

. . . Continued from last page /// <summary> // Phone Number /// </summary> /// tremarks> // This is override of IdentityUser.PhoneNumber. Ideally, it should be /// used in any Two-Factor-Authentication, if used. /// </remarks> [PersonalData] [DataType(DataType.PhoneNumber)] public new string PhoneNumber { get; set; } } // end public class Core3IDUser : IdentityUser } // end namespace Core3ID.Domain

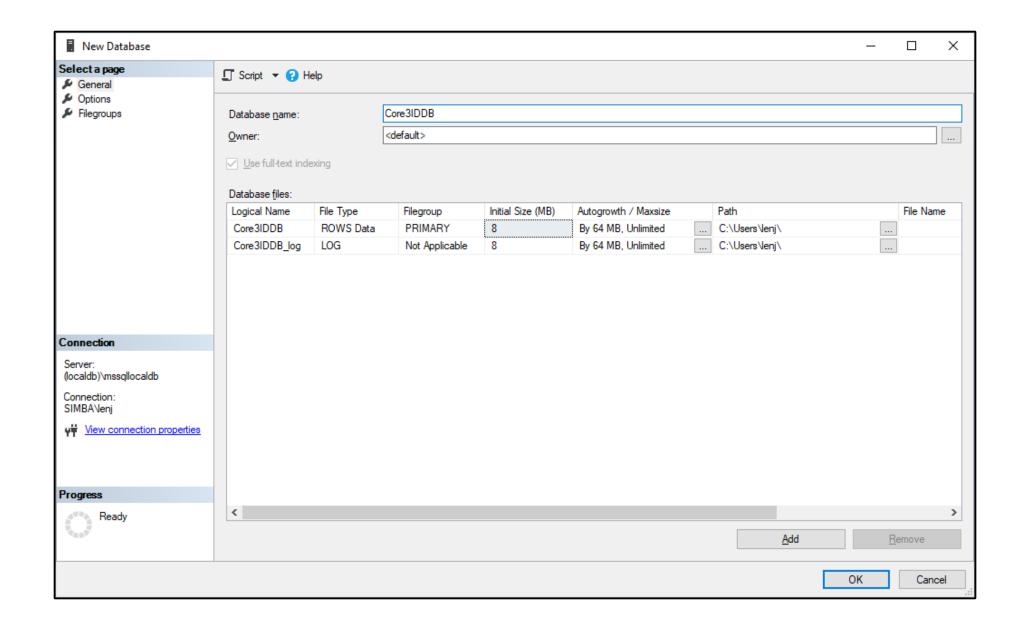
11/02/2019 15:41 - Initial ~\Core3IdentitySolution1\Core3.Domain\Core3IDUser.cs, p. 2

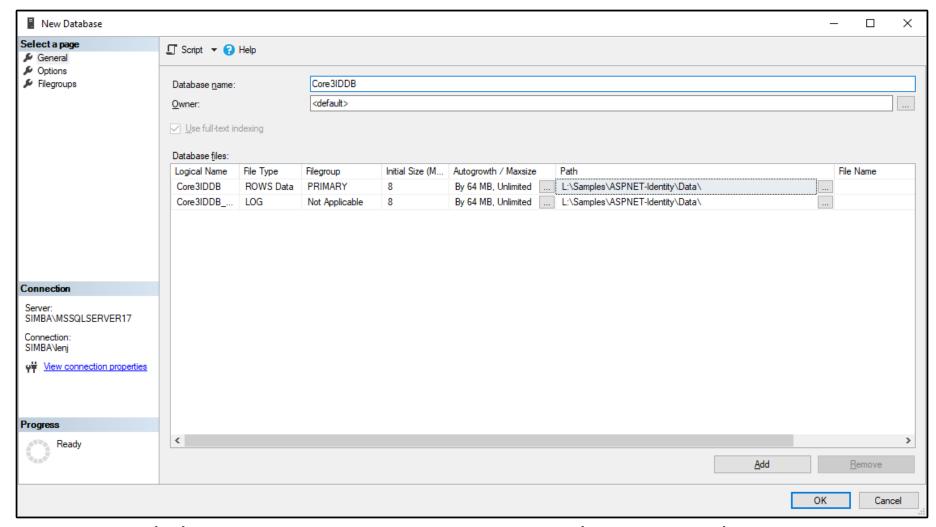


 ${\bf 11/02/2019~15:46-Create~\Core3IdentitySolution1\Core3.DataAccess\Core3IDContext.cs}$

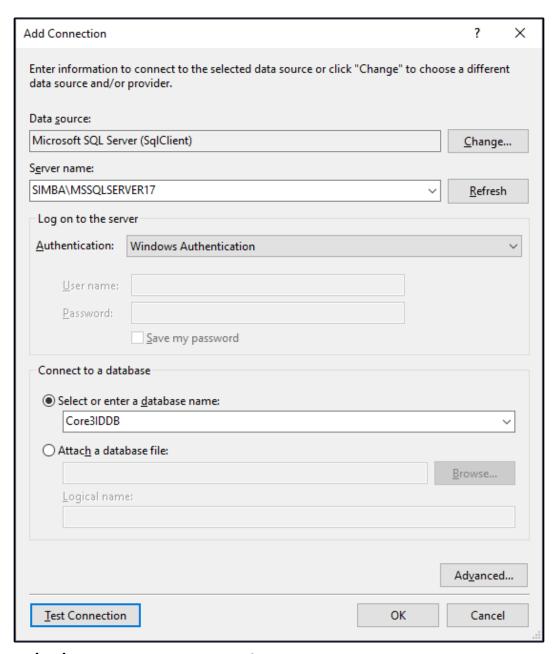


11/02/2019 15:55 – Add NuGet pkg, Microsoft.EntityFrameworkCore.SqlServer 3.0.0 to Core3Identity.DataAccess

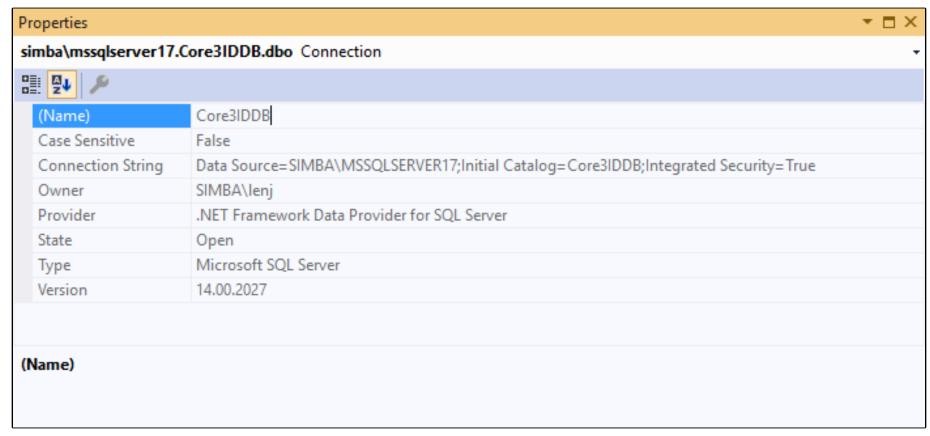




11/02/2019 16:22 – SSMS: Create empty database, SIMBA\MSSQLSERVER17\Core3IDDB



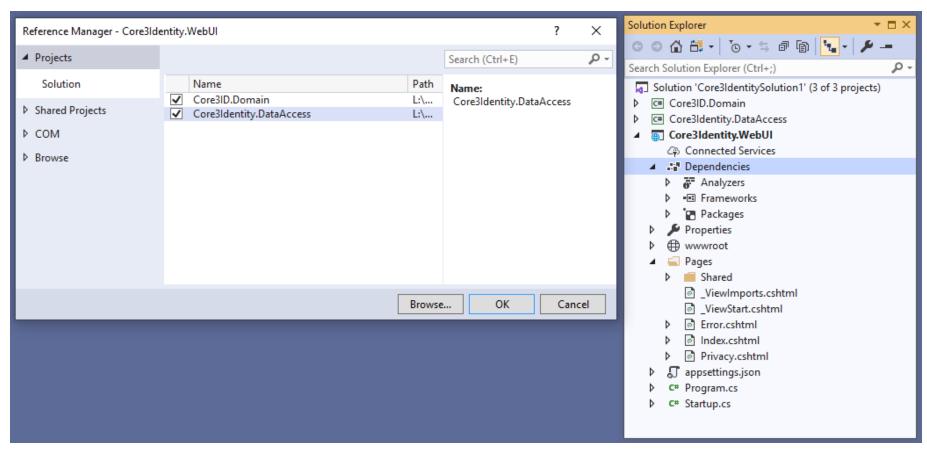
11/02/2019 16:22 - Server Explorer: Create connection to Core3IDDB



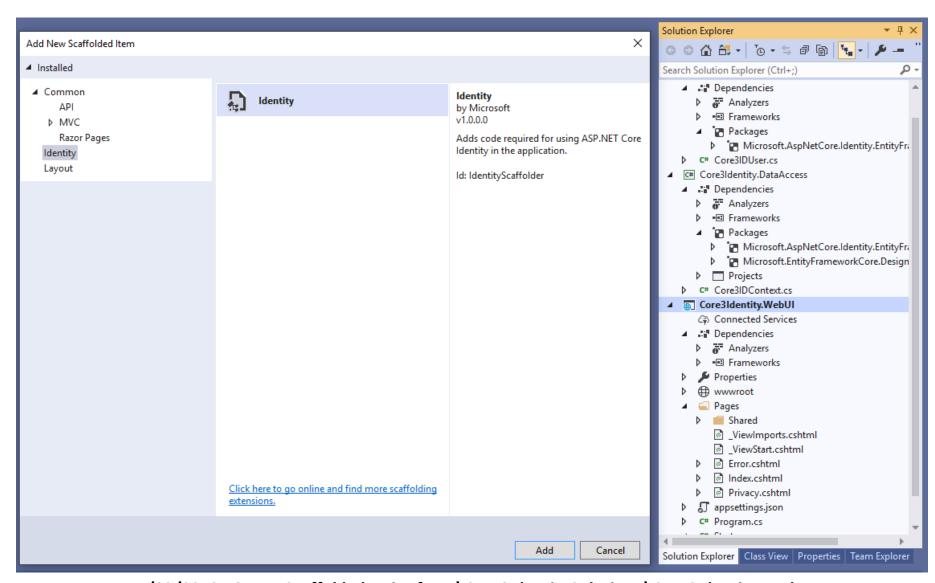
11/02/2019 16:22 - Server Explorer Connection Properties for Core3IDDB

```
{
    "Logging": {
        "LogLevel": {
             "Default": "Information",
             "Microsoft": "Warning",
             "Microsoft.Hosting.Lifetime": "Information"
        }
    },
    "AllowedHosts": "*",
    "ConnectionStrings": {
        "DefaultConnection": "Data Source=SIMBA\\MSSQLSERVER17;Initial Catalog=Core3IDDB;Integrated Security=True"
    }
}
```

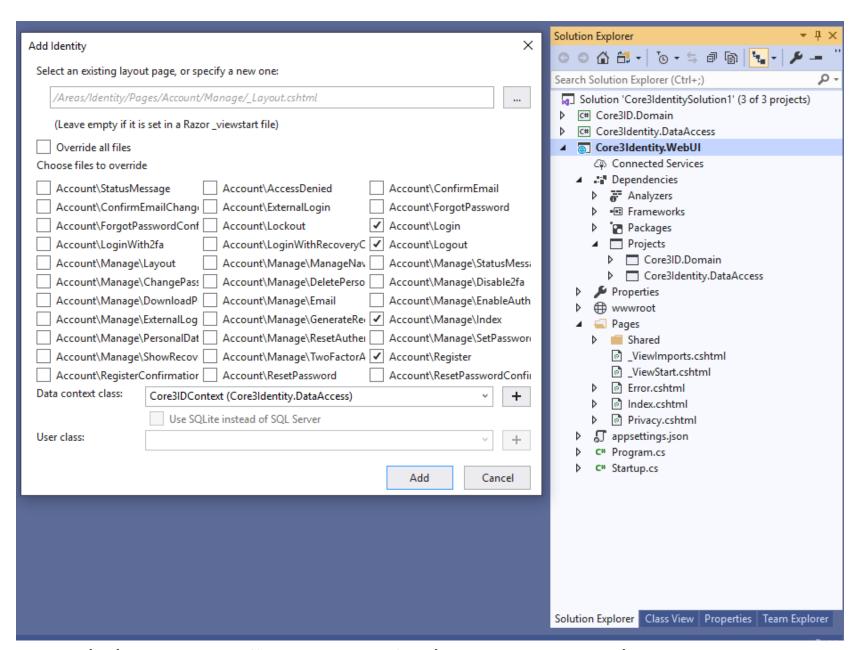
11/02/2019 16:32 - Modified ~\Core3IdentitySolution1\Core3.WebUI\appsettings.json



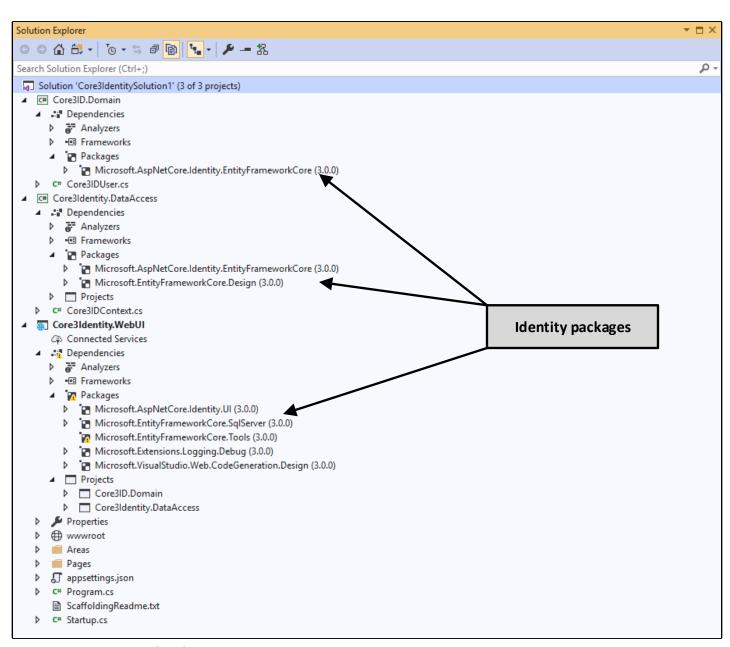
11/02/2019 16:45 - Set Core3Identity. WebUI references to Core3ID. Domain & Core3Identity. DataAccess



11/02/2019 16:47 - Scaffold Identity for ~\Core3IdentitySolution1\Core3Identity.WebUI



11/02/2019 16:54 - Scaffold Identity Area for ~\Core3IdentitySolution1\Core3Identity.WebUI



11/02/2019 17:00 - Core3ldentitySolution1 project packages

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="utf-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>@ViewData["Title"] - Core3Identity.WebUI</title>
   <link rel="stylesheet" href="~/lib/bootstrap/dist/css/bootstrap.min.css" />
   <link rel="stylesheet" href="~/css/site.css" />
</head>
<body>
   <header>
       <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light bg-white border-bottom box-shadow mb-3">
            <div class="container">
                <a class="navbar-brand" asp-area="" asp-page="/Index">Core 3.0 Identity</a>
               <button class="navbar-toggler" type="button" data-toggle="collapse" data-target=".navbar-collapse"</pre>
                        aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
                    <span class="navbar-toggler-icon"></span>
                </button>
                <div class="navbar-collapse collapse d-sm-inline-flex flex-sm-row" style="display: flex;</pre>
                        justify-content: space-around">
                    <div class="navbar">
                        <a class="nav-link text-dark" asp-area="" asp-page="/Index">Home</a>
                        <a class="nav-link text-dark" asp-area="" asp-page="/RoleAdmin/Index">RoleAdmin/a>
                    </div>
                    <partial name=" LoginPartial" />
               </div>
           </div>
       </nav>
   </header>
    <div class="container">
       <main role="main" class="pb-3">
           @RenderBody()
       </main>
   </div>
     . Continued on next page
```

11/02/2019 17:26 - Modified ~\Core3Identity.WebUI\Pages\Shared\ Layout.cshtml, p. 1

@RenderSection("Scripts", required: false)

</body>

11/02/2019 17:26 - Modified ~\Core3Identity.WebUI\Pages\Shared_Layout.cshtml, p. 2

```
@using Microsoft.AspNetCore.Identity
@using Core3ID.Domain
@inject SignInManager<Core3IDUser> SignInManager
@inject UserManager<Core3IDUser> UserManager
<div class="navbar-nav" style="display: flex; justify-content: flex-end">
   @if (SignInManager.IsSignedIn(User))
        <a id="manage" class="nav-link text-dark" asp-area="Identity" asp-page="/Account/Manage/Index" title="Manage">
            Hello @UserManager.GetUserName(User)!
        </a>
        <form id="logoutForm" class="form-inline" asp-area="Identity" asp-page="/Account/Logout"</pre>
               asp-route-returnUrl="@Url.Page("/Index", new { area = "" })">
            <button id="logout" type="submit" class="nav-link btn btn-link text-dark">Logout</button>
        </form>
    else
        <a class="nav-link text-dark" id="register" asp-area="Identity" asp-page="/Account/Register">Register</a>
        <a class="nav-link text-dark" id="login" asp-area="Identity" asp-page="/Account/Login">Login</a>
</div>
```

11/02/2019 17:29 - Modified ~\Core3Identity.WebUI\Pages\Shared_LoginPartial.cshtml

```
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Ling;
using System.Text;
using System.Text.Encodings.Web;
using System. Threading. Tasks;
using Microsoft.AspNetCore.Authentication;
using Microsoft.AspNetCore.Authorization;
using Core3ID.Domain;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Identity.UI.Services;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;
using Microsoft.AspNetCore.WebUtilities;
using Microsoft. Extensions. Logging;
namespace Core3Identity.WebUI.Areas.Identity.Pages.Account
    [AllowAnonymous]
   public class RegisterModel : PageModel
        private readonly SignInManager<Core3IDUser> signInManager;
        private readonly UserManager<Core3IDUser> userManager;
        private readonly ILogger<RegisterModel> logger;
       private readonly IEmailSender emailSender;
        public RegisterModel(
           UserManager<Core3IDUser> userManager,
            SignInManager<Core3IDUser> signInManager,
            ILogger<RegisterModel> logger,
           IEmailSender emailSender)
     . Continued on next page
```

11/02/2019 18:15 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml.cs, p. 1

```
. Continued from last page
     _userManager = userManager;
     _signInManager = signInManager;
     logger = logger;
     emailSender = emailSender;
 } // end public RegisterModel(...
 [BindProperty]
 public InputModel Input { get; set; }
 public string ReturnUrl { get; set; }
 public IList<AuthenticationScheme> ExternalLogins { get; set; }
 public class InputModel
     /// <summary>
     /// User's Last Name
     /// </summary>
     [Required]
     [Display(Name = "Last Name")]
     public string LastName { get; set; }
     /// <summary>
     /// User's First Name
     /// </summary>
     [Required]
     [Display(Name = "First Name")]
     public string FirstName { get; set; }
     /// <summary>
     /// User's Phone Number
     /// </summary>
     [Required]
     [Display(Name = "Phone Number")]
     public string PhoneNumber { get; set; }
. Continued on next page
       11/02/2019 18:15 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml.cs, p. 2
```

```
. Continued from last page
     [Required]
     [EmailAddress]
     [Display(Name = "Email")]
     public string Email { get; set; }
     [Required]
     [StringLength(100, ErrorMessage = "The {0} must be at least {2} and at max {1} characters long.",
         MinimumLength = 6)
     [DataType(DataType.Password)]
     [Display(Name = "Password")]
     public string Password { get; set; }
     [DataType(DataType.Password)]
     [Display(Name = "Confirm password")]
     [Compare("Password", ErrorMessage = "The password and confirmation password do not match.")]
     public string ConfirmPassword { get; set; }
 } // end public class InputModel
 public async Task OnGetAsync(string returnUrl = null)
     ReturnUrl = returnUrl;
     ExternalLogins = (await signInManager.GetExternalAuthenticationSchemesAsync()).ToList();
 } // end public async Task OnGetAsync(string returnUrl = null)
 public async Task<IActionResult> OnPostAsync(string returnUrl = null)
     returnUrl = returnUrl ?? Url.Content("~/");
     ExternalLogins = (await signInManager.GetExternalAuthenticationSchemesAsync()).ToList();
     if (ModelState.IsValid)
         var user = new Core3IDUser { UserName = Input.Email, Email = Input.Email, LastName = Input.LastName,
             FirstName = Input.FirstName, PhoneNumber = Input.PhoneNumber };
         var result = await userManager.CreateAsync(user, Input.Password);
         if (result.Succeeded)
  Continued on next page
```

11/02/2019 18:15 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml.cs, p. 3

```
Continued from last page
             _logger.LogInformation("User created a new account with password.");
             var code = await userManager.GenerateEmailConfirmationTokenAsync(user);
             code = WebEncoders.Base64UrlEncode(Encoding.UTF8.GetBytes(code));
             var callbackUrl = Url.Page(
                 "/Account/ConfirmEmail",
                 pageHandler: null,
                 values: new { area = "Identity", userId = user.Id, code = code },
                 protocol: Request.Scheme);
             await emailSender.SendEmailAsync(Input.Email, "Confirm your email",
                 $"Please confirm your account by <a href='{HtmlEncoder.Default.Encode(callbackUrl)}'>
                     clicking here
                 </a>.");
             if ( userManager.Options.SignIn.RequireConfirmedAccount)
                 return RedirectToPage("RegisterConfirmation", new { email = Input.Email });
             else
                 await signInManager.SignInAsync(user, isPersistent: false);
                 return LocalRedirect(returnUrl);
             } // endif ( userManager.Options.SignIn.RequireConfirmedAccount)
         } // endif (result.Succeeded)
         foreach (var error in result.Errors)
             ModelState.AddModelError(string.Empty, error.Description);
         } // end foreach (var error in result.Errors)
     } // endif (ModelState.IsValid)
. Continued on next page
```

11/02/2019 18:15 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml.cs, p. 4

```
. Continued from last page
           // If we got this far, something failed, redisplay form
           return Page();
       } // end public async Task<IActionResult> OnPostAsync(string returnUrl = null)
   } // end public class RegisterModel : PageModel
} // end namespace Core3Identity.WebUI.Areas.Identity.Pages.Account
             11/02/2019 18:15 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml.cs, p. 5
```

```
@page
@model RegisterModel
    ViewData["Title"] = "Register";
<h1>@ViewData["Title"]</h1>
<div class="row">
    <div class="col-md-4">
        <form asp-route-returnUrl="@Model.ReturnUrl" method="post">
            <h4>Create a new account.</h4>
            <hr />
            <div asp-validation-summary="All" class="text-danger"></div>
            <div class="form-group">
                <label asp-for="Input.LastName"></label>
                <input asp-for="Input.LastName" class="form-control" />
                <span asp-validation-for="Input.LastName" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Input.FirstName"></label>
                <input asp-for="Input.FirstName" class="form-control" />
                <span asp-validation-for="Input.FirstName" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Input.PhoneNumber"></label>
                <input asp-for="Input.PhoneNumber" class="form-control" />
                <span asp-validation-for="Input.PhoneNumber" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Input.Email"></label>
                <input asp-for="Input.Email" class="form-control" />
               <span asp-validation-for="Input.Email" class="text-danger"></span>
            </div>
        Continued on next page
```

11/02/2019 18:25 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml, p. 1

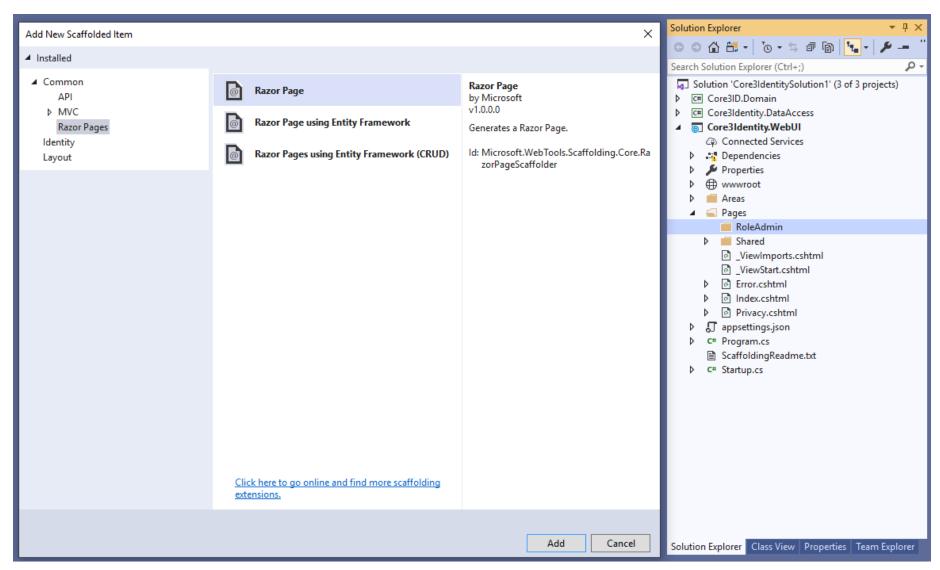
```
. Continued from last page
       <div class="form-group">
            <label asp-for="Input.Password"></label>
            <input asp-for="Input.Password" class="form-control" />
           <span asp-validation-for="Input.Password" class="text-danger"></span>
        </div>
        <div class="form-group">
            <label asp-for="Input.ConfirmPassword"></label>
            <input asp-for="Input.ConfirmPassword" class="form-control" />
           <span asp-validation-for="Input.ConfirmPassword" class="text-danger"></span>
        </div>
        <button type="submit" class="btn btn-primary">Register</button>
    </form>
</div>
<div class="col-md-6 col-md-offset-2">
    <section>
        <h4>Use another service to register.</h4>
        <hr />
       @{
           if ((Model.ExternalLogins?.Count ?? 0) == 0)
                <div>
                    >
                       There are no external authentication services configured. See
                        <a href="https://go.microsoft.com/fwlink/?LinkID=532715">this article</a>
                       for details on setting up this ASP.NET application to support logging in via external services.
                    </div>
```

. Continued on next page

11/02/2019 18:25 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml, p. 2

```
. Continued from last page
                else
                    <form id="external-account" asp-page="./ExternalLogin" asp-route-returnUrl="@Model.ReturnUrl"</pre>
                            method="post" class="form-horizontal">
                        <div>
                            <
                               @foreach (var provider in Model.ExternalLogins)
                                   <button type="submit" class="btn btn-primary" name="provider" value="@provider.Name"</pre>
                                           title="Log in using your @provider.DisplayName account">
                                       @provider.DisplayName
                                   </button>
                            </div>
                    </form>
        </section>
    </div>
</div>
@section Scripts {
    <partial name="_ValidationScriptsPartial" />
```

11/02/2019 18:25 - Modified ~\Areas\Identity\Pages\Account\Register.cshtml, p. 3



11/02/2019 18:56 - Scaffold a ~\Core3Identity.WebUI\Pages\RoleAdmin page

Add Razor Page			×
<u>R</u> azor Page name:	Index		
Options:			
✓ Generate PageMod	el class		
Create as a partial v	riew		
✓ Reference script lib	raries		
✓ <u>U</u> se a layout page:			
			•••
(Leave empty if it is	s set in a Razor _viewstart file)		
		Add Can	cel

11/02/2019 18:58 – Scaffold ~\Core3Identity.WebUI\Pages\RoleAdmin\Index page

```
using System.Collections.Generic;
using System.Ling;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Mvc.RazorPages;
using Core3ID.Domain;
namespace Core3Identity.WebUI.Pages.RoleAdmin
    public class IndexModel : PageModel
        private RoleManager<IdentityRole> roleManager;
        private UserManager<Core3IDUser> userManager;
        public IEnumerable<Core3IDUser> VerityUsers { get; set; }
        public IEnumerable<IdentityRole> IdentityRoles { get; set; }
        public IndexModel(RoleManager<IdentityRole> roleMgr, UserManager<Core3IDUser> usrMgr)
            roleManager = roleMgr;
            userManager = usrMgr;
        } // end public IndexModel(UserManager<VerityUser> usrMgr, ...
        public void OnGet()
            IdentityRoles = roleManager.Roles.OrderBy(r => r.Name);
        } // end public void OnGet()
   } // end public class IndexModel : PageModel
} // end namespace Core3Identity.WebUI.Pages.RoleAdmin
```

11/02/2019 19:17 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\Index.cshtml.cs

```
@page
@model Core3Identity.WebUI.Pages.RoleAdmin.IndexModel
  ViewData["Title"] = "Index";
<div class="bg-primary m-1 p-1"><h4>Roles</h4></div>
<br />
<a class="btn btn-primary" asp-page="./Create">Create</a>
<br />
<div class="text-danger" asp-validation-summary="ModelOnly"></div>
IDName
  @if (Model.IdentityRoles.Count() == 0)
     No Roles
   else
     foreach (var role in Model.IdentityRoles)
        @role.Id
           @role.Name
           <a class="btn btn-sm btn-primary" asp-page="./ManageUsers" asp-route-id="@role.Id">Manage Users</a>
              <a class="btn btn-sm btn-primary" asp-page="./Delete" asp-route-id="@role.Id">Delete</a>
```

11/02/2019 19:18 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\Index.cshtml

Add Razor Page		×
<u>R</u> azor Page name:	Create	
Options:		
✓ Generate PageMod	el class	
Create as a partial v	iew	
✓ Reference script lib	raries	
✓ <u>U</u> se a layout page:		

(Leave empty if it is	s set in a Razor _viewstart file)	
		Add Cancel

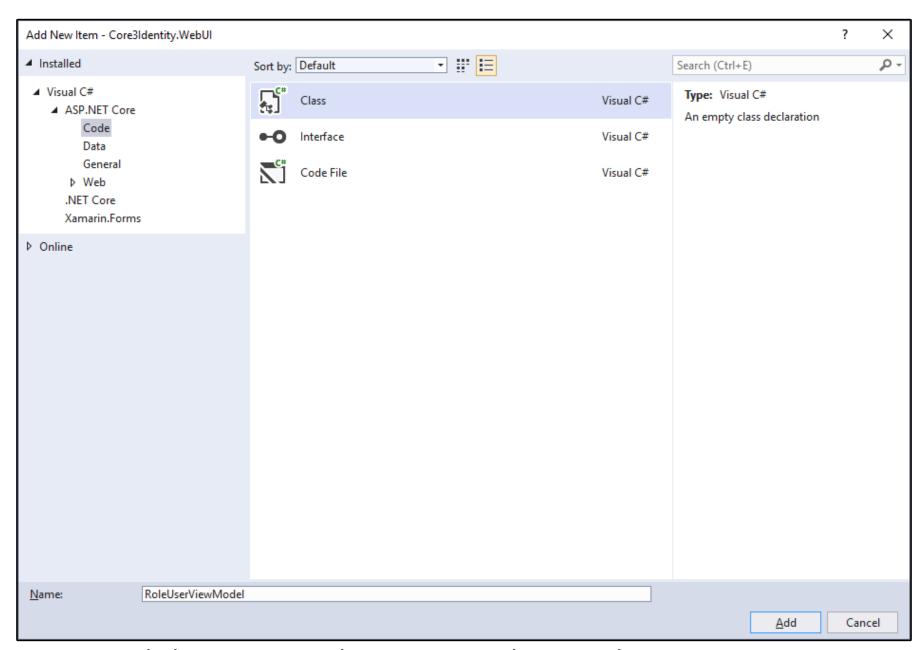
 ${\bf 11/02/2019~19:23-Scaffold~`Core3Identity.WebUI\Pages\RoleAdmin\Create~page}$

```
using System. Threading. Tasks;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;
namespace Core3Identity.WebUI.Pages.RoleAdmin
    public class CreateModel : PageModel
        private RoleManager<IdentityRole> roleManager;
        public IdentityRole IdentityRole;
        public CreateModel(RoleManager<IdentityRole> roleMgr)
            roleManager = roleMgr;
        } // end public CreateModel(RoleManager<IdentityRole> roleMgr)
        public IActionResult OnGet()
            return Page();
        } // end public IActionResult OnGet()
        public async Task<IActionResult> OnPostAsync(string name)
            if (!ModelState.IsValid)
                return Page();
            IdentityResult result = await roleManager.CreateAsync(new IdentityRole(name));
            return RedirectToPage("/RoleAdmin/Index");
        } // end public async Task<IActionResult> OnPostAsync()
   } // end public class CreateModel : PageModel
} // end namespace Core3Identity.WebUI.Pages.RoleAdmin
```

11/02/2019 19:48 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\Create.cshtml.cs

```
@page
@model Core3Identity.WebUI.Pages.RoleAdmin.CreateModel
   ViewData["Title"] = "Create";
<h1>Create Role</h1>
>
    Enter role name.
<div asp-validation-summary="All"></div>
<form method="post">
   <div class="form-group">
       <label for="name"></label>
       <input name="name" class="form-control" />
    </div>
   <button type="submit" class="btn btn-primary">Create</button>
   <a asp-action="Index" class="btn btn-secondary">Cancel</a>
</form>
```

11/02/2019 19:51 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\Create.cshtml

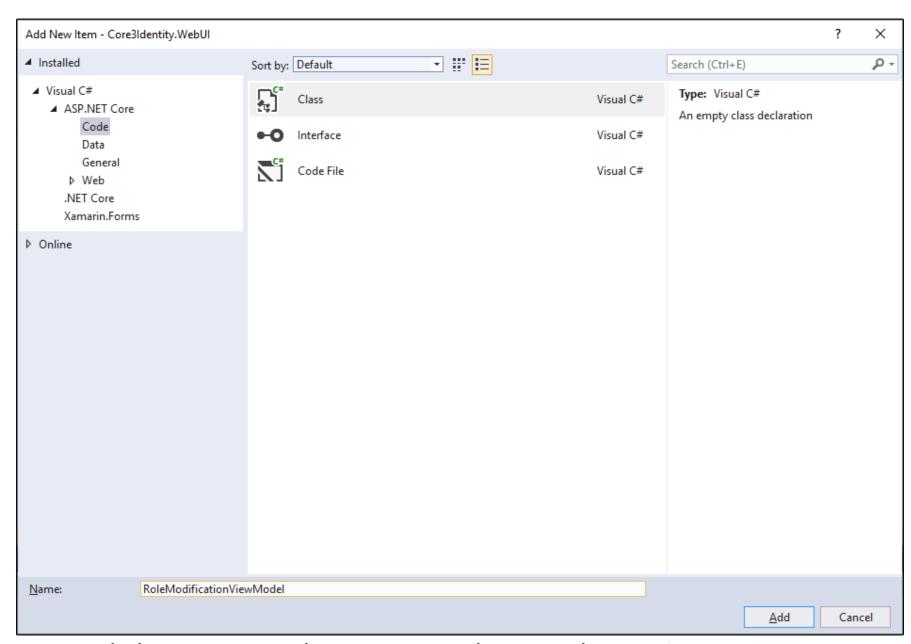


 ${\bf 11/02/2019~20:} {\bf 11-Create~\Core3Identity.WebUI\ViewModels\RoleUserViewModel.cs}$

```
using System.Collections.Generic;
using Microsoft.AspNetCore.Identity;
using Core3ID.Domain;

namespace Core3Identity.WebUI.ViewModels
{
   public class RoleUserViewModel
   {
      public IdentityRole Role { get; set; }
      public IEnumerable<Core3IDUser> Members { get; set; }
      public IEnumerable<Core3IDUser> NonMembers { get; set; }
   } // end public class RoleUserViewModel
} // end namespace Core3Identity.WebUI.ViewModels
```

11/02/2019 20:14 - Initial ~\Core3Identity.WebUI\ViewModels\RoleUserViewModel.cs



 ${\bf 11/02/2019~20:20-Create~\Core3Identity.WebUI\ViewModels\RoleModificationViewModel.cs}$

```
using System;
using System.Collections.Generic;
using System. Threading. Tasks;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;
using Core3ID.Domain;
using Core3Identity.WebUI.ViewModels;
namespace Core3Identity.WebUI.Pages.RoleAdmin
   public class ManageUsersModel : PageModel
       private RoleManager<IdentityRole> roleManager;
       private UserManager<Core3IDUser> userManager;
       public RoleModificationViewModel RoleModificationViewModel;
        [BindProperty]
       public RoleUserViewModel RoleUserViewModel { get; set; }
       public ManageUsersModel(RoleManager<IdentityRole> roleMgr, UserManager<Core3IDUser> userMrg)
           roleManager = roleMgr;
           userManager = userMrg;
        } // end public ManageUsersModel(RoleManager<IdentityRole> roleMgr, UserManager<VerityUser> userMrg)
       public async Task<IActionResult> OnGetAsync(string id)
           IdentityRole role = await roleManager.FindByIdAsync(id);
           List<Core3IDUser> members = new List<Core3IDUser>();
           List<Core3IDUser> nonMembers = new List<Core3IDUser>();
           foreach (Core3IDUser user in userManager.Users)
               var list = await userManager.IsInRoleAsync(user, role.Name) ? members : nonMembers;
               list.Add(user);
           } // end foreach (Core3IDUser user in userManager.Users)
      . Continued on next page
```

11/02/2019 20:23 - Initial ~\Core3Identity.WebUI\ViewModels\RoleModificationViewModel.cs, p. 1

```
Continued on next page
     RoleUserViewModel = new RoleUserViewModel
         Role = role,
         Members = members.
         NonMembers = nonMembers
     };
     return Page();
 } // end public async Task<IActionResult> OnGetAsync(string id)
 public async Task<IActionResult> OnPostAsync([FromForm]RoleModificationViewModel model)
     IdentityResult result;
     if (ModelState.IsValid)
         if (model.IdsToAdd != null) // Avoid null exception
             foreach (string addId in model.IdsToAdd)
                 Core3IDUser user = await userManager.FindByIdAsync(addId);
                 if (user == null)
                     return BadRequest(
                         String.Format("User with Id, {0}, was not found and cannot be added to role, {1}.",addId,
                             model.RoleName));
                 else
                     result = await userManager.AddToRoleAsync(user, model.RoleName);
                     if (!result.Succeeded)
                         AddErrorsFromResult(result);
                    } // endif (!result.Succeeded)
. Continued on next page
```

11/02/2019 20:23 - Initial ~\Core3Identity.WebUI\ViewModels\RoleModificationViewModel.cs, p. 2

```
. Continued on next page
                 } // endif (user == null)
             } // end foreach (string addId in model.IdsToAdd)
         } // endif (model.IdsToAdd != null)
         if (model.IdsToDelete != null) // Avoid null exception
             foreach (string deleteId in model.IdsToDelete)
                 Core3IDUser user = await userManager.FindByIdAsync(deleteId);
                 if (user == null)
                     return BadRequest(String.Format(
                         "User with Id, {0}, was not found and cannot be deleted from role, {1}.",
                             deleteId, model.RoleName));
                 else
                     result = await userManager.RemoveFromRoleAsync(user, model.RoleName);
                     if (!result.Succeeded)
                         AddErrorsFromResult(result);
                     } // endif (!result.Succeeded)
                 } // endif (user == null)
             } // end foreach (string deleteId in model.IdsToDelete)
         } // endif (model.IdsToDelete != null)
     } // endif (ModelState.IsValid)
     return RedirectToPage("/RoleAdmin/ManageUsers", new { id = model.RoleId });
 } // end public async Task<IActionResult> Edit(RoleModificationViewModel model)
. Continued on next page
```

11/02/2019 20:23 – Initial ~\Core3Identity.WebUI\ViewModels\RoleModificationViewModel.cs, p. 3

. Continued on next page private void AddErrorsFromResult(IdentityResult result) foreach (IdentityError error in result.Errors) ModelState.AddModelError("", error.Description); } // end foreach (IdentityError error in result.Errors) } // end private void AddErrorsFromResult(IdentityResult result) } // end public class ManageUsersModel : PageModel } // end namespace Core3Identity.WebUI.Pages.RoleAdmin 11/02/2019 20:23 - Initial ~\Core3Identity.WebUI\ViewModels\RoleModificationViewModel.cs, p. 4

Add Razor Page		×
<u>R</u> azor Page name:	ManageUsers	
Options:		
✓ Generate PageMod	lel class	
Create as a partial v	/iew	
✓ Reference script lib	raries	
✓ <u>U</u> se a layout page:		
(Leave empty if it i	s set in a Razor _viewstart file)	
		Add Cancel

11/02/2019 20:38 – Scaffold ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers page

```
using System;
using System.Collections.Generic;
using System. Threading. Tasks;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;
using Core3ID.Domain;
using Core3Identity.WebUI.ViewModels;
namespace Core3Identity.WebUI.Pages.RoleAdmin
    public class ManageUsersModel : PageModel
        private RoleManager<IdentityRole> roleManager;
        private UserManager<Core3IDUser> userManager;
        public RoleModificationViewModel RoleModificationViewModel;
        [BindProperty]
        public RoleUserViewModel RoleUserViewModel { get; set; }
        public ManageUsersModel(RoleManager<IdentityRole> roleMgr, UserManager<Core3IDUser> userMrg)
            roleManager = roleMgr;
            userManager = userMrg;
        } // end public ManageUsersModel(RoleManager<IdentityRole> roleMgr, UserManager<VerityUser> userMrg)
        public async Task<IActionResult> OnGetAsync(string id)
            IdentityRole role = await roleManager.FindByIdAsync(id);
            List<Core3IDUser> members = new List<Core3IDUser>();
            List<Core3IDUser> nonMembers = new List<Core3IDUser>();
      . Continued on next page
```

11/02/2019 20:48 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers.cshtml.cs, p. 1

```
Continued from last page
     foreach (Core3IDUser user in userManager.Users)
         var list = await userManager.IsInRoleAsync(user, role.Name) ? members : nonMembers;
         list.Add(user);
     } // end foreach (Core3IDUser user in userManager.Users)
     RoleUserViewModel = new RoleUserViewModel
         Role = role,
         Members = members,
         NonMembers = nonMembers
     };
     return Page();
 } // end public async Task<IActionResult> OnGetAsync(string id)
 public async Task<IActionResult> OnPostAsync([FromForm]RoleModificationViewModel model)
     IdentityResult result;
     if (ModelState.IsValid)
         if (model.IdsToAdd != null) // Avoid null exception
             foreach (string addId in model.IdsToAdd)
                 Core3IDUser user = await userManager.FindByIdAsync(addId);
                 if (user == null)
                     return BadRequest(String.Format(
                         "User with Id, {0}, was not found and cannot be added to role, {1}.",
                             addId, model.RoleName));
. Continued on next page
```

11/02/2019 20:48 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers.cshtml.cs, p. 2

```
Continued from last page
                 else
                     result = await userManager.AddToRoleAsync(user, model.RoleName);
                     if (!result.Succeeded)
                         AddErrorsFromResult(result);
                     } // endif (!result.Succeeded)
                 } // endif (user == null)
             } // end foreach (string addId in model.IdsToAdd)
         } // endif (model.IdsToAdd != null)
         if (model.IdsToDelete != null) // Avoid null exception
             foreach (string deleteId in model.IdsToDelete)
                 Core3IDUser user = await userManager.FindByIdAsync(deleteId);
                 if (user == null)
                     return BadRequest(String.Format(
                         "User with Id, {0}, was not found and cannot be deleted from role, {1}.",
                             deleteId, model.RoleName));
                 else
                     result = await userManager.RemoveFromRoleAsync(user, model.RoleName);
                     if (!result.Succeeded)
                         AddErrorsFromResult(result);
                     } // endif (!result.Succeeded)
                 } // endif (user == null)
             } // end foreach (string deleteId in model.IdsToDelete)
         } // endif (model.IdsToDelete != null)
     } // endif (ModelState.IsValid)

    Continued on next page
```

11/02/2019 20:48 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers.cshtml.cs, p. 3

```
. Continued from last page
           return RedirectToPage("/RoleAdmin/ManageUsers", new { id = model.RoleId });
       } // end public async Task<IActionResult> Edit(RoleModificationViewModel model)
       private void AddErrorsFromResult(IdentityResult result)
           foreach (IdentityError error in result.Errors)
               ModelState.AddModelError("", error.Description);
           } // end foreach (IdentityError error in result.Errors)
       } // end private void AddErrorsFromResult(IdentityResult result)
   } // end public class ManageUsersModel : PageModel
} // end namespace Core3Identity.WebUI.Pages.RoleAdmin
       11/02/2019 20:48 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers.cshtml.cs, p. 4
```

```
@page
@model Core3Identity.WebUI.Pages.RoleAdmin.ManageUsersModel
   ViewData["Title"] = "Manage User Roles";
<div class="bg-primary m-1 p-1 text-white"><h4>Edit Role</h4></div>
<div asp-validation-summary="All" class="text-danger"></div>
<form method="post">
   <input type="hidden" name="roleName" value="@Model.RoleUserViewModel.Role.Name" />
   <input type="hidden" name="roleId" value="@Model.RoleUserViewModel.Role.Id" />
   <h6 class="bg-info p-1 text-white">Add To @Model.RoleUserViewModel.Role.Name</h6>
   @if (Model.RoleUserViewModel.NonMembers.Count() == 0)
          else
          @foreach (Core3IDUser user in Model.RoleUserViewModel.NonMembers)
             >
                 @user.UserName
                 >
                    <input type="checkbox" name="IdsToAdd" value="@user.Id">
```

Continued on next page

11/02/2019 20:56 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers.cshtml, p. 1

. Continued from last page <h6 class="bg-info p-1 text-white">Remove From @Model.RoleUserViewModel.Role.Name</h6> @if (Model.RoleUserViewModel.Members.Count() == 0) No Users Are Members else @foreach (Core3IDUser user in Model.RoleUserViewModel.Members) > @user.UserName <input type="checkbox" name="IdsToDelete" value="@user.Id"> <button type="submit" class="btn btn-primary">Save</button> <a asp-page="/RoleAdmin/Index" class="btn btn-secondary">Cancel </form>

11/02/2019 20:56 - Initial ~\Core3Identity.WebUI\Pages\RoleAdmin\ManageUsers.cshtml, p. 2

```
using Microsoft.AspNetCore.Builder;
using Microsoft.AspNetCore.Hosting;
using Microsoft.AspNetCore.Identity;
using Microsoft.EntityFrameworkCore;
using Microsoft.Extensions.Configuration;
using Microsoft.Extensions.DependencyInjection;
using Microsoft. Extensions. Hosting;
using Core3ID.Domain;
using Core3Identity.DataAccess;
namespace Core3Identity.WebUI
    public class Startup
        public Startup(IConfiguration configuration)
           Configuration = configuration;
        public IConfiguration Configuration { get; }
        // This method gets called by the runtime. Use this method to add services to the container.
        public void ConfigureServices(IServiceCollection services)
            services.AddDbContextPool<Core3IDContext>(options =>
               options.UseSqlServer(Configuration.GetConnectionString("DefaultConnection"));
           });
        Continued on next page
```

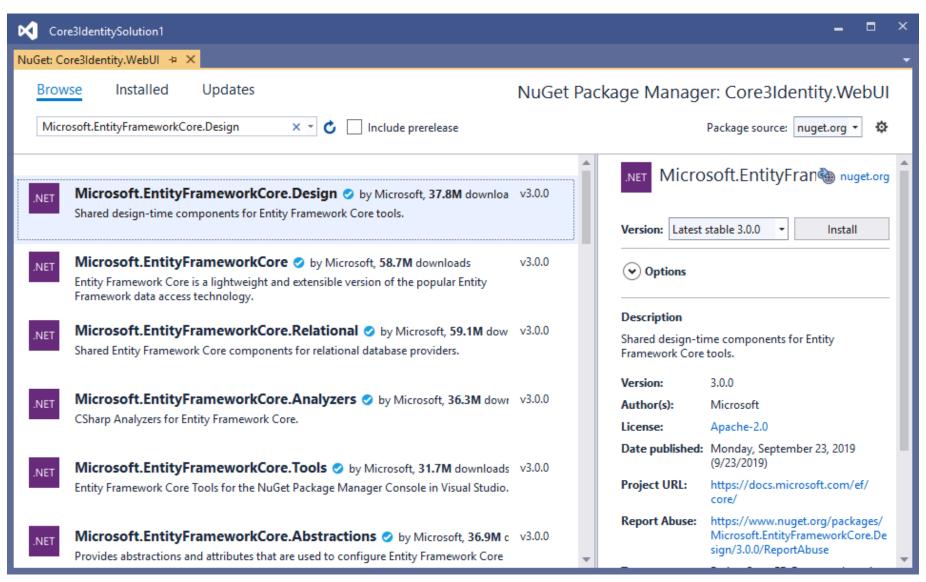
11/03/2019 16:08 - Initial ~\Core3Identity.WebUI\Startup.cshtml, p. 1

```
. Continued from last page
     services.AddIdentity<Core3IDUser, IdentityRole>(opts => {
         opts.User.RequireUniqueEmail = true;
         opts.Password.RequiredLength = 6;
         opts.Password.RequireNonAlphanumeric = true;
         opts.Password.RequireLowercase = true;
         opts.Password.RequireUppercase = true;
         opts.Password.RequireDigit = true;
     }).AddEntityFrameworkStores<Core3IDContext>()
      .AddDefaultUI()
     .AddDefaultTokenProviders();
     services.AddRazorPages();
 } // end public void ConfigureServices(IServiceCollection services)
 // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
 public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
     if (env.IsDevelopment())
         app.UseDeveloperExceptionPage();
     else
         app.UseExceptionHandler("/Error");
         // The default HSTS value is 30 days. You may want to change this for production scenarios,
                 see https://aka.ms/aspnetcore-hsts.
         app.UseHsts();
     } // endif (env.IsDevelopment())
     app.UseHttpsRedirection();
     app.UseStaticFiles();
     app.UseRouting();
```

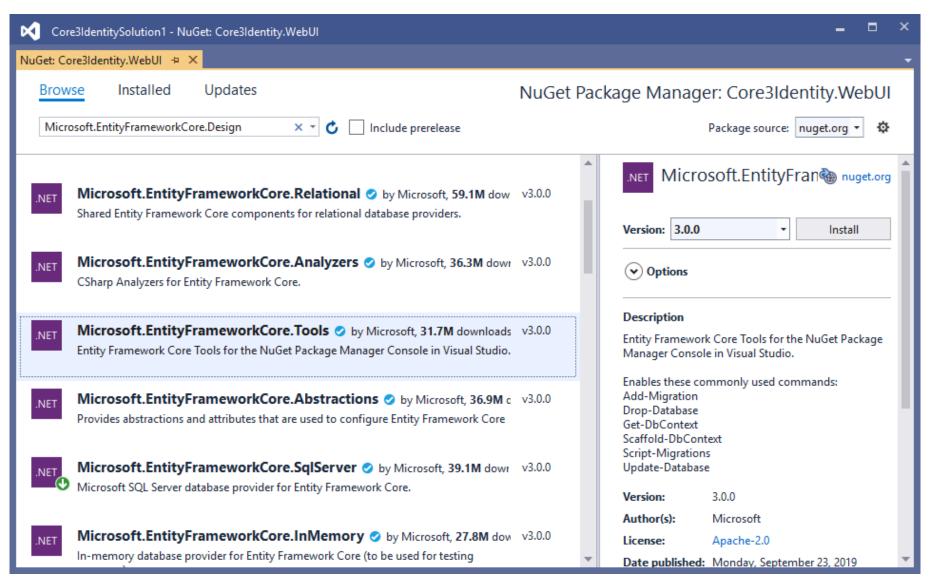
. . . Continued on next page

11/03/2019 16:08 - Initial ~\Core3Identity.WebUI\Startup.cshtml, p. 2

. Continued from last page app.UseAuthorization(); app.UseEndpoints(endpoints => endpoints.MapRazorPages(); }); } // end public class Startup } // end namespace Core3Identity.WebUI 11/03/2019 16:08 – Initial ~\Core3Identity.WebUI\Startup.cshtml, p. 3



11/03/2019 16:40 - Add NuGet pkg, Microsoft.EntityFrameworkCore.Design 3.0.0 to Core3Identity.WebUI



11/03/2019 16:43 - Add NuGet pkg, Microsoft.EntityFrameworkCore.Tools 3.0.0 to Core3Identity.WebUI

PM> Add-Migration Initial-Migration-w-Identity				
Microsoft.EntityFrameworkCore.Infrastructure[10403]				
Entity Framework Core 3.0.0 initialized 'Core3IDContext' using provider 'Microsoft.EntityFrameworkCore.SqlServer' with				
options: MaxPoolSize=128 To undo this action, use Remove-Migration.				
PM>				
11/03/2019 16:50 – PMC: Add-Migration Initial-Migration-w-Identity				

```
using System;
using Microsoft.EntityFrameworkCore.Migrations;
namespace Core3Identity.DataAccess.Migrations
    public partial class InitialMigrationwIdentity: Migration
       protected override void Up(MigrationBuilder migrationBuilder)
           migrationBuilder.CreateTable(
                name: "AspNetRoles",
                columns: table => new
                    Id = table.Column<string>(nullable: false),
                   Name = table.Column<string>(maxLength: 256, nullable: true),
                    NormalizedName = table.Column<string>(maxLength: 256, nullable: true),
                    ConcurrencyStamp = table.Column<string>(nullable: true)
               },
                constraints: table =>
                   table.PrimaryKey("PK_AspNetRoles", x => x.Id);
               });
           migrationBuilder.CreateTable(
                name: "AspNetUsers",
                columns: table => new
                    Id = table.Column<string>(nullable: false),
                    UserName = table.Column<string>(maxLength: 256, nullable: true),
                    NormalizedUserName = table.Column<string>(maxLength: 256, nullable: true),
                    Email = table.Column<string>(maxLength: 256, nullable: true),
                   NormalizedEmail = table.Column<string>(maxLength: 256, nullable: true),
                    EmailConfirmed = table.Column<bool>(nullable: false),
                    PasswordHash = table.Column<string>(nullable: true),
        Continued on next page
```

11/03/2019 16:52 – Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-Identity.cs, p. 1

```
Continued from last page
              SecurityStamp = table.Column<string>(nullable: true),
              ConcurrencyStamp = table.Column<string>(nullable: true),
              PhoneNumberConfirmed = table.Column<bool>(nullable: false),
              TwoFactorEnabled = table.Column<bool>(nullable: false),
              LockoutEnd = table.Column<DateTimeOffset>(nullable: true),
              LockoutEnabled = table.Column<bool>(nullable: false),
              AccessFailedCount = table.Column<int>(nullable: false),
              LastName = table.Column<string>(maxLength: 50, nullable: false),
              FirstName = table.Column<string>(maxLength: 50, nullable: false),
              PhoneNumber = table.Column<string>(nullable: true)
          },
          constraints: table =>
              table.PrimaryKey("PK_AspNetUsers", x => x.Id);
          });
      migrationBuilder.CreateTable(
          name: "AspNetRoleClaims",
          columns: table => new
              Id = table.Column<int>(nullable: false)
                  .Annotation("SqlServer:Identity", "1, 1"),
              RoleId = table.Column<string>(nullable: false),
              ClaimType = table.Column<string>(nullable: true),
              ClaimValue = table.Column<string>(nullable: true)
          constraints: table =>
. Continued on next page
```

11/03/2019 16:52 - Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-Identity.cs, p. 2

```
Continued from last page
           table.PrimaryKey("PK_AspNetRoleClaims", x => x.Id);
           table.ForeignKey(
               name: "FK AspNetRoleClaims AspNetRoles RoleId",
               column: x => x.RoleId,
               principalTable: "AspNetRoles",
               principalColumn: "Id",
               onDelete: ReferentialAction.Cascade);
       });
   migrationBuilder.CreateTable(
       name: "AspNetUserClaims",
       columns: table => new
           Id = table.Column<int>(nullable: false)
               .Annotation("SqlServer:Identity", "1, 1"),
           UserId = table.Column<string>(nullable: false),
           ClaimType = table.Column<string>(nullable: true),
           ClaimValue = table.Column<string>(nullable: true)
       },
       constraints: table =>
           table.PrimaryKey("PK AspNetUserClaims", x => x.Id);
           table.ForeignKey(
               name: "FK AspNetUserClaims AspNetUsers UserId",
               column: x => x.UserId,
               principalTable: "AspNetUsers",
               principalColumn: "Id",
               onDelete: ReferentialAction.Cascade);
       });
Continued on next page
```

11/03/2019 16:52 — Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-Identity.cs, p. 3

```
. Continued from last page
          migrationBuilder.CreateTable(
              name: "AspNetUserLogins",
              columns: table => new
                  LoginProvider = table.Column<string>(nullable: false),
                  ProviderKey = table.Column<string>(nullable: false),
                  ProviderDisplayName = table.Column<string>(nullable: true),
                  UserId = table.Column<string>(nullable: false)
              },
              constraints: table =>
                  table.PrimaryKey("PK AspNetUserLogins", x => new { x.LoginProvider, x.ProviderKey });
                  table.ForeignKey(
                      name: "FK_AspNetUserLogins_AspNetUsers_UserId",
                      column: x => x.UserId,
                      principalTable: "AspNetUsers",
                      principalColumn: "Id",
                      onDelete: ReferentialAction.Cascade);
              });
          migrationBuilder.CreateTable(
              name: "AspNetUserRoles",
              columns: table => new
                  UserId = table.Column<string>(nullable: false),
                  RoleId = table.Column<string>(nullable: false)
              },
              constraints: table =>
                 table.PrimaryKey("PK_AspNetUserRoles", x => new { x.UserId, x.RoleId });
      Continued on next page
11/03/2019 16:52 - Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-
```

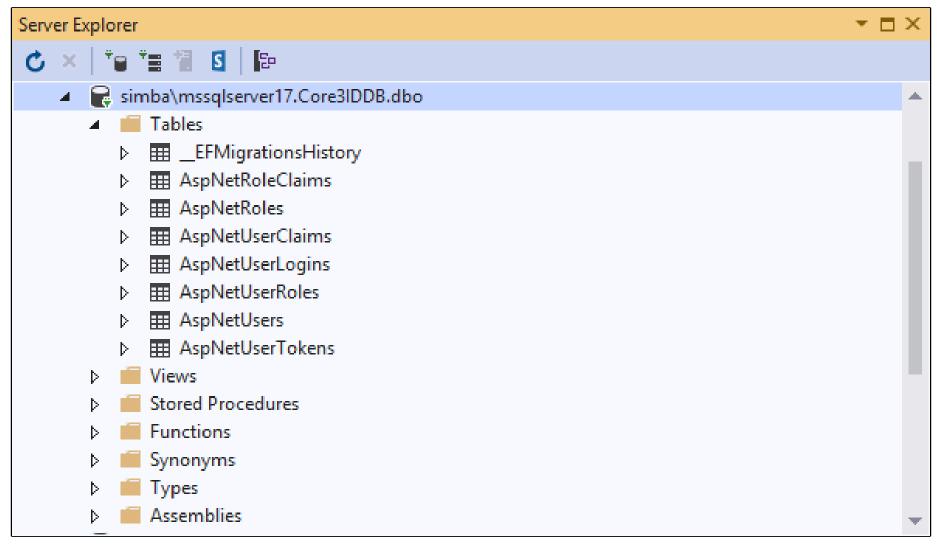
Identity.cs, p. 4

```
Continued from last page
                  table.ForeignKey(
                      name: "FK AspNetUserRoles AspNetRoles RoleId",
                      column: x => x.RoleId,
                      principalTable: "AspNetRoles",
                      principalColumn: "Id",
                      onDelete: ReferentialAction.Cascade);
                  table.ForeignKev(
                      name: "FK AspNetUserRoles AspNetUsers UserId",
                      column: x => x.UserId,
                      principalTable: "AspNetUsers",
                      principalColumn: "Id",
                      onDelete: ReferentialAction.Cascade);
             });
          migrationBuilder.CreateTable(
              name: "AspNetUserTokens",
              columns: table => new
                  UserId = table.Column<string>(nullable: false),
                  LoginProvider = table.Column<string>(nullable: false),
                  Name = table.Column<string>(nullable: false),
                  Value = table.Column<string>(nullable: true)
              },
              constraints: table =>
                  table.PrimaryKey("PK AspNetUserTokens", x => new { x.UserId, x.LoginProvider, x.Name });
                  table.ForeignKey(
                      name: "FK AspNetUserTokens AspNetUsers UserId",
                      column: x => x.UserId,
                      principalTable: "AspNetUsers",
                      principalColumn: "Id",
                      onDelete: ReferentialAction.Cascade);
             });
       Continued on next page
11/03/2019 16:52 - Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-
                                                   Identity.cs, p. 5
```

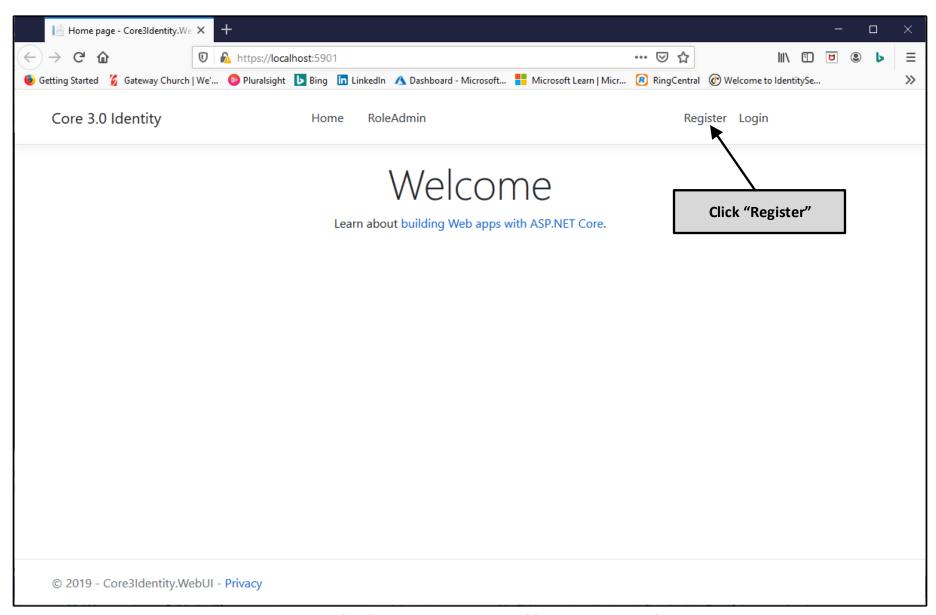
```
. Continued from last page
          migrationBuilder.CreateIndex(
              name: "IX AspNetRoleClaims RoleId",
              table: "AspNetRoleClaims",
              column: "RoleId");
          migrationBuilder.CreateIndex(
             name: "RoleNameIndex",
              table: "AspNetRoles",
              column: "NormalizedName",
              unique: true,
              filter: "[NormalizedName] IS NOT NULL");
          migrationBuilder.CreateIndex(
              name: "IX_AspNetUserClaims_UserId",
              table: "AspNetUserClaims",
              column: "UserId");
          migrationBuilder.CreateIndex(
              name: "IX_AspNetUserLogins_UserId",
              table: "AspNetUserLogins",
              column: "UserId");
          migrationBuilder.CreateIndex(
              name: "IX_AspNetUserRoles_RoleId",
              table: "AspNetUserRoles",
              column: "RoleId");
          migrationBuilder.CreateIndex(
              name: "EmailIndex",
              table: "AspNetUsers",
              column: "NormalizedEmail");
      Continued on next page
11/03/2019 16:52 - Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-
                                                   Identity.cs, p. 6
```

```
. Continued from last page
          migrationBuilder.CreateIndex(
              name: "UserNameIndex",
              table: "AspNetUsers",
              column: "NormalizedUserName",
              unique: true,
              filter: "[NormalizedUserName] IS NOT NULL");
      protected override void Down(MigrationBuilder migrationBuilder)
          migrationBuilder.DropTable(
              name: "AspNetRoleClaims");
          migrationBuilder.DropTable(
              name: "AspNetUserClaims");
          migrationBuilder.DropTable(
              name: "AspNetUserLogins");
          migrationBuilder.DropTable(
              name: "AspNetUserRoles");
          migrationBuilder.DropTable(
              name: "AspNetUserTokens");
          migrationBuilder.DropTable(
              name: "AspNetRoles");
          migrationBuilder.DropTable(
              name: "AspNetUsers");
11/03/2019 16:52 - Generated ~\Core3Identity.DataAccess\Migrations\20191103224810_Initial-Migration-w-
                                                   Identity.cs, p. 7
```

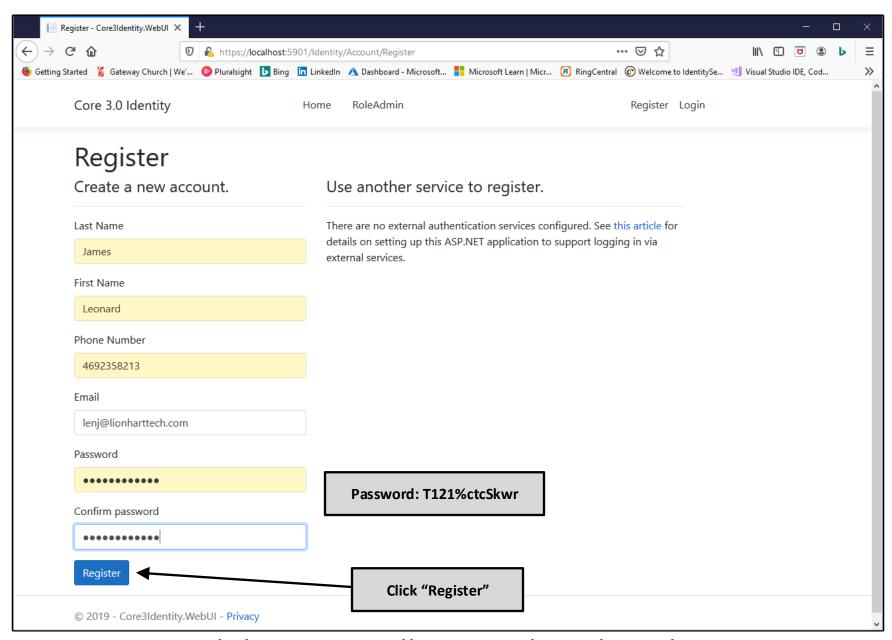
```
PM> Update-Database
Microsoft.EntityFrameworkCore.Infrastructure[10403]
     Entity Framework Core 3.0.0 initialized 'Core3IDContext' using provider 'Microsoft.EntityFrameworkCore.SqlServer' with
options: MaxPoolSize=128
. . . Lines omitted
Microsoft.EntityFrameworkCore.Database.Command[20100]
     Executing DbCommand [Parameters=[], CommandType='Text', CommandTimeout='30']
     INSERT INTO [ EFMigrationsHistory] ([MigrationId], [ProductVersion])
     VALUES (N'20191103224810 Initial-Migration-w-Identity', N'3.0.0');
Done.
                    11/03/2019 17:21 - PMC: Update-Database for Initial-Migration-w-Identity
```



11/03/2019 17:26 - Server Explorer: Identity tables added to Core3IDDB



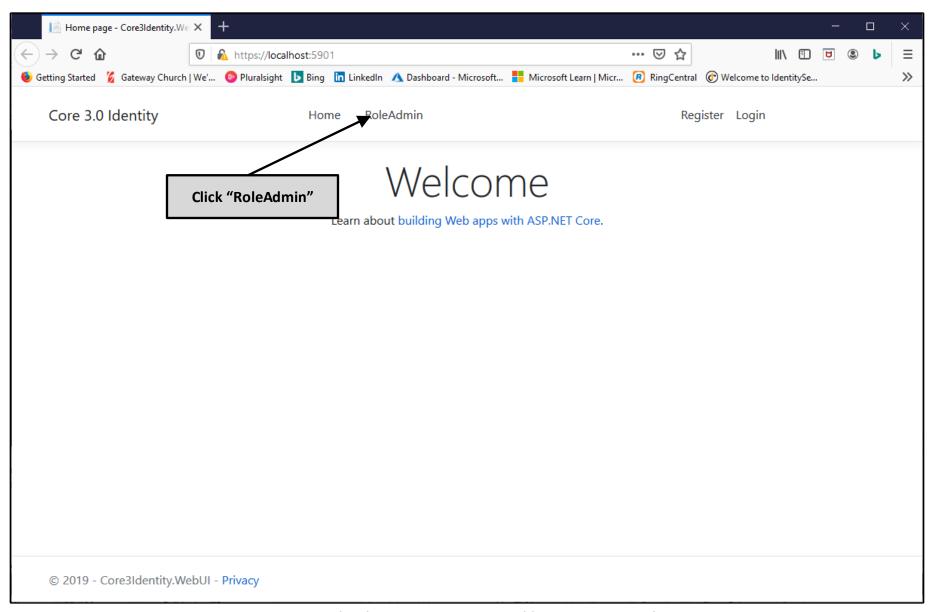
Run 11/03/2019 18:15 - https://localhost:5901/



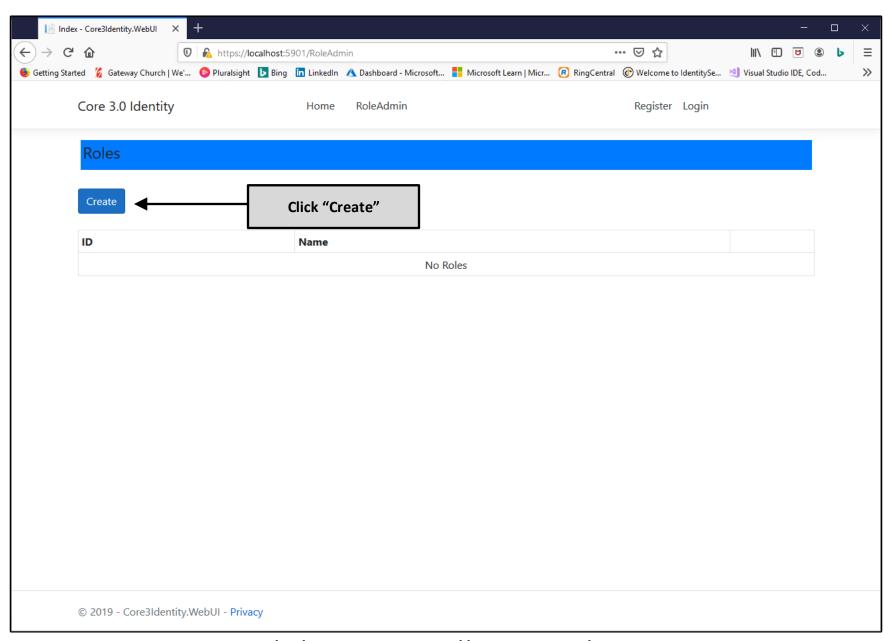
Run 11/03/2019 18:22 - https://localhost:5901/Identity/Account/Register

Core3IdentitySolution				
Email/UserId	Last Name	First Name	Phone	Password
lenj@lionharttech.com	James	Leonard	4692358213	T121%ctcSkwr
johndoe@doefamily.com	Doe	John	9725552587	T121%ctcSkwr
janedoe@doefamily.com	Doe	Jane	9725552587	T121%ctcSkwr
larrydoe@doefamily.com	Doe	Larry	9725552587	T121%ctcSkwr

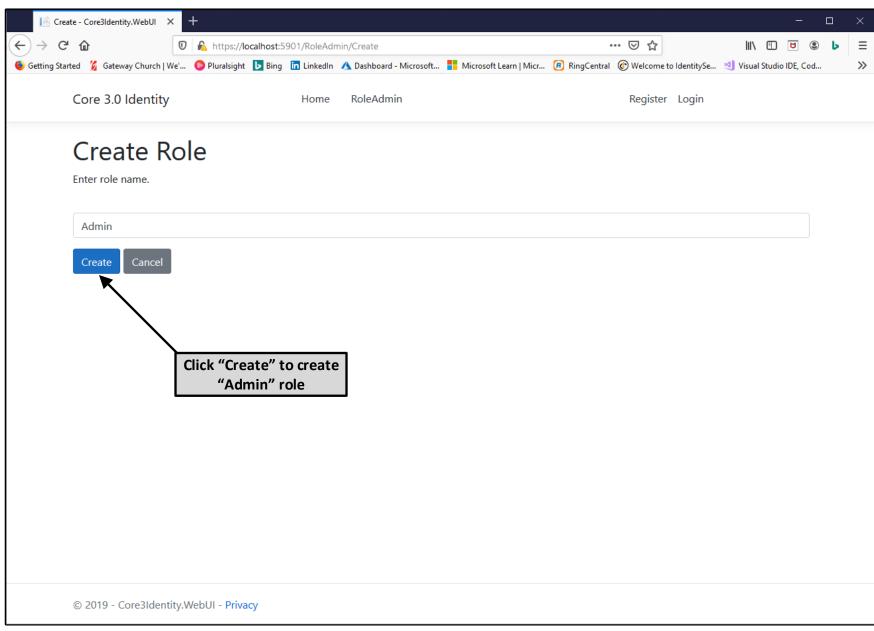
11/03/2019 18:38 - Core3IdentitySolution Test Accounts



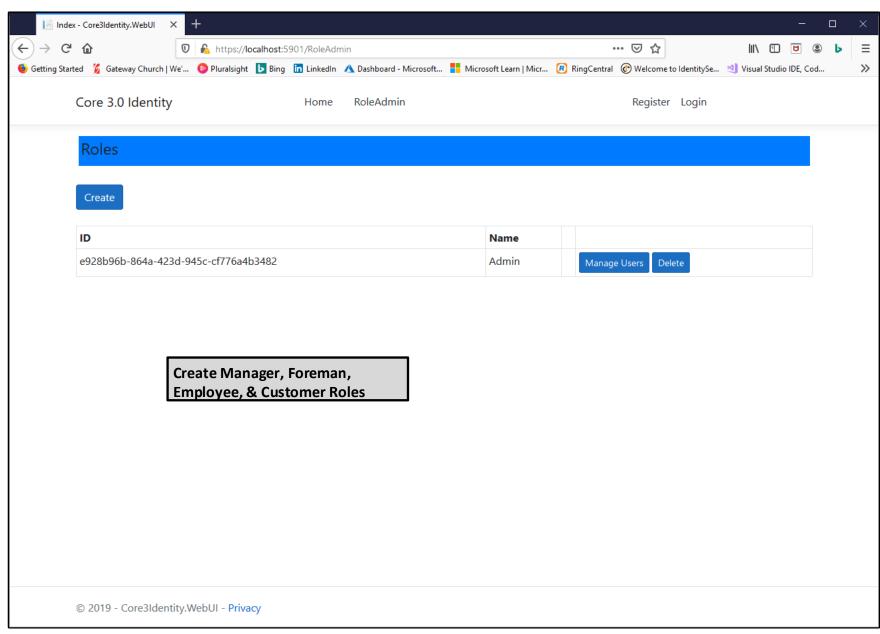
Run 11/03/2019 18:44 - https://localhost:5901/



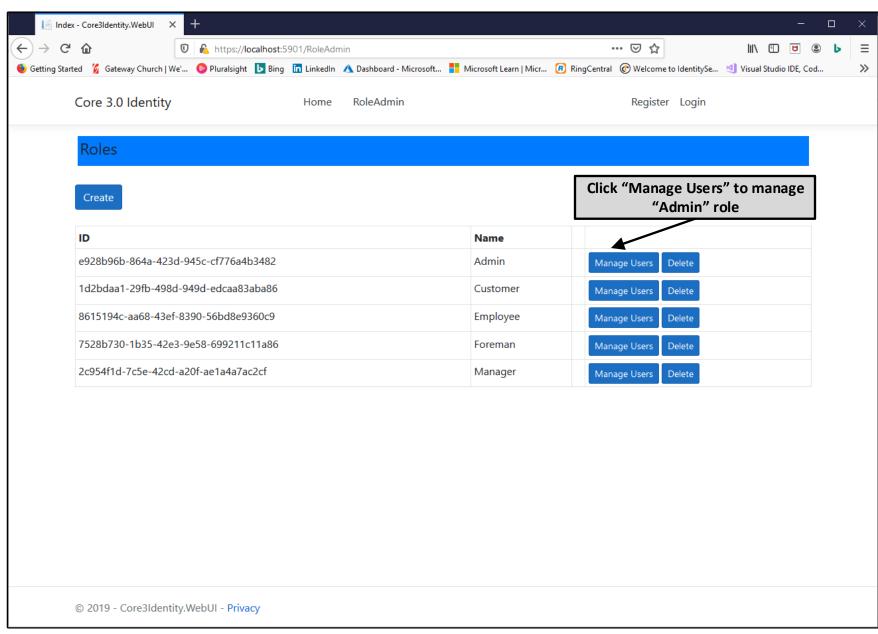
Run 11/03/2019 18:48 – https://localhost:5901/RoleAdmin



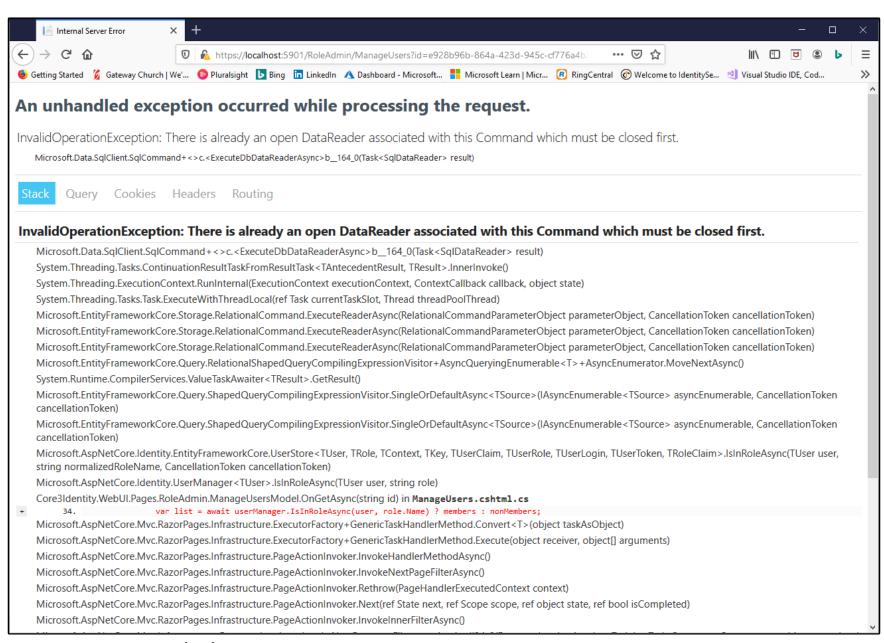
Run 11/03/2019 18:49 - https://localhost:5901/RoleAdmin/Create



Run 11/03/2019 18:52 – https://localhost:5901/RoleAdmin



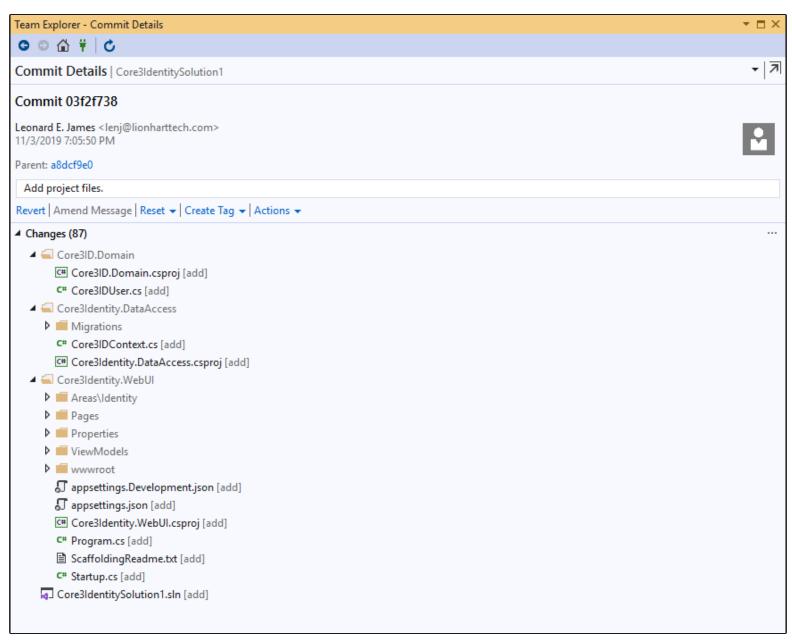
Run 11/03/2019 18:56 - https://localhost:5901/RoleAdmin



Run 11/03/2019 18:59 – Got InvalidOperationException in ManageUsers.cshtml.cs

Back Up Database - Core3l	DDB		_		×
Select a page General	□ Script ▼ ② Help				
Media OptionsBackup Options	Source				
	Da <u>t</u> abase:	Core3IDDB			~
	Recovery model:	FULL			
	Backup type:	Full			~
	Copy-only backup				
	Backup component:				
	Database				
	Files and filegroups:				
	Destination —				
	Back <u>up</u> to:	Disk			~
	LA Camples ACRNET Identità ADDRes	aluura VCarra 2IDDD VCarra 2IDDD Initialuutik I laare a Dalaa 2010 11 02 1010 kalu			
Connection	L:\Samples \ASPINE I -Identity \DBBac	ckups\Core3IDDB\Core3IDDB_Initial-with-Users-n-Roles_2019-11-03-1910.bak		A <u>d</u> d	
Server: SIMBA\MSSQLSERVER17				<u>R</u> emov	е
Connection: SIMBAVenj				<u>C</u> ontent	ts
ÿ <u>View connection properties</u>					
Progress					
Ready					
No. of 12 ag					
			OK	Can	cel

11/03/2019 19:10 — SSMS: Create DB backup, Core3IDDB_Initial-with-Users-n-Roles_2019-11-03-1910.bak



GitId: 03f2f738



NETCore3 Identity Solution #1

Starting GitId: 03f2f738

Add project files
Push to remote repository, Core3IdentitySolution1, Next

Base Folder
L:\Samples\ASPNET-Identity\

Source Folder ~\Core3IdentitySolution1

Git-Archives
~\Git-Archives\Core3IdentitySolution1\
2019-11-02-1906 03f2f738 Add project files.zip

11/03/2019 19:06 Page 85