DotnetIdentity

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Chapter 1

Todo List

Class DotNetIdentity.Controllers.AdminController

add translation

Class DotNetIdentity.Controllers.ErrorsController

add translation

Class DotNetIdentity.Controllers.UserController

add translation

Member DotNetIdentity.Controllers.UserController.Login (SignInViewModel viewModel)

Implement Ldap Login

Class DotNetIdentity.Services.SettingsService.SettingsService

add ldap settings class

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Chapter 4

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 5

Namespace Documentation

5.1 DotNetIdentity Namespace Reference

5.2 DotNetIdentity.Controllers Namespace Reference

Classes

- class AdminController

  Controller Class for Admin views
- class ClaimBasedController

  Controller to test ClaimBased Authorization
- class CultureController

  controller for culture settings
- class ErrorsController

  Controller for error views
- class HomeController

  Controller for Home views
- class RoleBasedController

  Controller to test RoleBased Authorization
- class UserController

  Controller Class for User views

5.3 DotNetIdentity.Data Namespace Reference

Classes

- class AppDbContext

  Application Database context class

5.4 DotNetIdentity.Helpers Namespace Reference

Classes

- class EmailHelper

  class for email methods

5.5 DotNetIdentity.Helpers.TagHelpers Namespace Reference

Classes

- class UserProfileImageTagHelper

  html taghelper class
- class UserRolesTagHelper

  html tag helper class

5.6 DotNetIdentity.IdentitySettings Namespace Reference

Classes

- class ClaimsTransformation

  class to define own claims
- class ErrorDescriber

  class to override IdentityErrorDescriber IdentotyError messages
- class TwoFactorAuthenticationService

  class providing 2fa auth services

5.7 DotNetIdentity.IdentitySettings.Requirements Namespace Reference

Classes

- class FreeTrialExpireHandler

  class to define own Identity requirements type of FreeTrialExpireRequirement
- class FreeTrialExpireRequirement

  class to define own Identity requirements type of IAuthorizationRequirement
- class MinimumAgeHandler

  class implementing AuthorizationHandler of type MinimumAgeRequirement
- class MinimumAgeRequirement

  class to define own Identity requirements type of IAuthorizationRequirement

5.8 DotNetIdentity.IdentitySettings.Validators Namespace Reference

Classes

- class PasswordValidator

  class to validate a password
- class UserValidator

  class to validate IdentityUser

5.9 DotNetIdentity.Models Namespace Reference

Enumerations

- enum Gender { Unknown , Male , **Female** }

  Gender enum
- enum Department { Software , HR , Accounting , **Management** }

  Department enum
- enum TwoFactorType { None , Email , **Authenticator** }

  TwoFactorType enum

5.9.1 Enumeration Type Documentation

5.9.1.1 Department

enum DotNetIdentity.Models.Department

Department enum

Enumerator

Software	summary>Department Softwaresummary>Department HR
HR	summary>Department Accounting
Accounting	summary>Department Management

Definition at line 16 of file Enums.cs.

```
00016                               {
00018         Software,
00020         HR,
00022         Accounting,
00024         Management }
```

5.9.1.2 Gender

enum DotNetIdentity.Models.Gender

Gender enum

Enumerator

Unknown	summary>gender unknownsummary>gender male
Male	summary>gender female

Definition at line 6 of file Enums.cs.

```
00006                       {
00008         Unknown,
00010         Male,
00012         Female }
```

5.9.1.3 TwoFactorType

```
enum DotNetIdentity.Models.TwoFactorType
```

TwoFactorType enum

Enumerator

None	summary>2fa type nonesummary>2fa type email
Email	summary>2fa type Authenticator app

Definition at line 28 of file Enums.cs.

```
00028                               {
00030         None,
00032         Email,
00034         Authenticator
00035     }
```

5.10 DotNetIdentity.Models.BusinessModels Namespace Reference

Classes

- class EmailModel

  class to define a email
- class GlobalSettings

  class to define a global settings object
- class MailSettings

  class to define a ail settings object

5.11 DotNetIdentity.Models.DataModels Namespace Reference

Classes

- class ApplicationSettings

  class define an Settings object
- class AppLogs

  class to define ann Log object
- class SessionCache

  class to define a SessionCache object

5.12 DotNetIdentity.Models.Identity Namespace Reference

Classes

- class AppRole

  class to define a role object
- class AppUser

  class to define a user object

5.13 DotNetIdentity.Models.ViewModels Namespace Reference

Classes

- class AssignRoleViewModel

  model for UserEditView
- class ChangePasswordViewModel

  model for ChangePassword view
- class EditUserViewModel

  model for EditUser view
- class ErrorViewModel

  model for displaying errors
- class ForgotPasswordViewModel

  model for ForgotPassword view
- class NewUserModel

  model for NewUser view
- class ResetPasswordViewModel

  model for ResetPassword view
- class SignInViewModel

  model for Login view
- class SignUpViewModel

  model for Register view
- class StatusCodesModel

  model for Error Statuscodes
- class TwoFactorAuthenticatorViewModel

  model for TwoFactorAuthenticator view
- class TwoFactorLoginVieWModel

  the model for TwoFactorLogin view
- class TwoFactorTypeViewModel

  model for TwoFactorType view
- class UpdateProfileViewModel

  model for UpdateProfile view
- class UpsertRoleViewModel

  model for the UpsertRole view

5.14 DotNetIdentity.Services Namespace Reference

5.15 DotNetIdentity.Services.SettingsService Namespace Reference

Classes

- class AppSettingsBase

  base class for Settings classes
- interface ISettingsService

  Interface class for SettingsService
- class SettingsService

  class for settings service

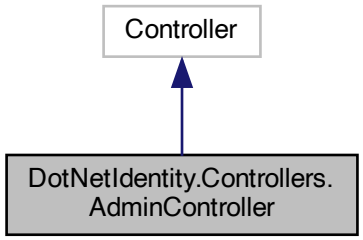
Chapter 6

Class Documentation

6.1 DotNetIdentity.Controllers.AdminController Class Reference

Controller Class for Admin views

Inheritance diagram for DotNetIdentity.Controllers.AdminController:



Public Member Functions

- AdminController (AppDbContext db, ILogger< AdminController > log, IConfiguration conf, UserManager< AppUser > userManager, RoleManager< AppRole > roleManager, SignInManager< AppUser > signIn↩ Manager)

  Controller Class constructor
- IActionResult Index ()

  Controller Action for Index
- IActionResult SystemLogs ()

  Controller Action for SystemLogs
- IActionResult AuditLogs ()

  Controller Action for AutditLogs
- IActionResult ErrorLogs ()

  Controller Action for ErrorLogs

- async Task< IActionResult > Users ()

  Controller Action for Users
- async Task< IActionResult > Roles ()

  Controller Action for Roles
- IActionResult GetErrorLogs (DataRequest request)

  Controller Post Method to fetch ErrorLogs
- IActionResult GetAppLogs (DataRequest request)

  Controller Post Method to fetch Applicationlogs
- IActionResult GetAuditLogs (DataRequest request)

  Controller Post Method to fetch AuditLogs
- JsonResult GetUsers (DataRequest request)

  Controller Post Method to fetch Users
- async Task< IActionResult > NewUser ()

  Controller Action for NewUser view
- async Task< ActionResult > NewUser (NewUserModel viewModel)

  controler Post Method to save a new User
- async Task< IActionResult > UpsertRole (string? id)

  Controller Action for view UpsertRole
- async Task< ActionResult > DisableUser (string UserId)

  Controller GET Method to disable a user account
- async Task< ActionResult > EnableUser (string UserId)

  Controller GET Method to enable a user account
- async Task< ActionResult > EnableLdapLogin (string UserId)

  Controller GET Method to enable ldap login for a user account
- async Task< ActionResult > DisableLdapLogin (string UserId)

  Controller GET Method to disable ldap login for a user account
- async Task< ActionResult > EnableMfaForce (string UserId)

  Controller GET Method to enable mfa enforcement for a user account
- async Task< ActionResult > DisableMfaForce (string UserId)

  Controller GET Method to disable mfa enforcement for a user account
- async Task< IActionResult > UpsertRole (UpsertRoleViewModel viewModel)

  Controller POST Method to enable a user account
- async Task< IActionResult > DeleteUser (string id)

  Controller POST Method to delete a user account
- async Task< IActionResult > DeleteRole (string id)

  Controller POST Method to enable a role
- async Task< IActionResult > EditUser (string id)

  Controller action to serve the EditUserView
- async Task< IActionResult > EditUser (EditUserViewModel viewModel)

  Controller POST Method to save user changes

6.1.1 Detailed Description

Controller Class for Admin views

Todo add translation

Definition at line 24 of file AdminController.cs.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 AdminController()

```
DotNetIdentity.Controllers.AdminController.AdminController (
            AppDbContext db,
            ILogger< AdminController > log,
            IConfiguration conf,
            UserManager< AppUser > userManager,
            RoleManager< AppRole > roleManager,
            SignInManager< AppUser > signInManager )  [inline]
```

Controller Class constructor

Parameters

db	type DotNetIdentity.Data.AppDbContext
log	type Microsoft.Extensions.Logging.ILogger
conf	type Microsoft.Extensions.Configuration.IConfiguration
userManager	type Microsoft.AspNetCore.Identity.UserManager
roleManager	type Microsoft.AspNetCore.Identity.RoleManager
signInManager	type Microsoft.AspNetCore.Identity.SignInManager

Definition at line 60 of file AdminController.cs.

```
00061         {
00062             _userManager = userManager;
00063             _roleManager = roleManager;
00064             _signInManager = signInManager;
00065             _configuration = conf;
00066             _logger = log;
00067             _context = db;
00068         }
```

6.1.3 Member Function Documentation

6.1.3.1 AuditLogs()

```
IActionResult DotNetIdentity.Controllers.AdminController.AuditLogs ( )
```

Controller Action for AutditLogs

Returns

View of type DotnetIdentity.Views.Admin.AuditLogs

6.1.3.2 DeleteRole()

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.DeleteRole (
            string id )  [inline]
```

Controller POST Method to enable a role

Parameters

id	id of the role

Returns

redirect to controller action Roles

Definition at line 391 of file AdminController.cs.

```
00392         {
00393             var role = await _roleManager.FindByIdAsync(id);
00394             if (role != null)
00395             {
00396                 var result = await _roleManager.DeleteAsync(role);
00397                 if (!result.Succeeded)
00398                 {
00399                     result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00400                 }
00401             }
00402             else
00403             {
00404                 ModelState.AddModelError(string.Empty, "Role not found.");
00405             }
00406             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " deleted role " + id);
00407             return RedirectToAction("Roles");
00408         }
```

6.1.3.3 DeleteUser()

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.DeleteUser (
            string id )  [inline]
```

Controller POST Method to delete a user account

Parameters

id	the id of the user

Returns

redirect to controller action Users

Definition at line 371 of file AdminController.cs.

```
00371                                                       {
00372             var user = await _userManager.FindByIdAsync(id);
00373             if(user!=null) {
00374                 var result = await _userManager.DeleteAsync(user);
00375                 if(!result.Succeeded) {
00376                     result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00377                 }
00378             } else {
00379                 ModelState.AddModelError(string.Empty, "User not found.");
00380             }
00381             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " deleted user " + id);
00382             return RedirectToAction("Users");
00383         }
```

6.1.3.4 DisableLdapLogin()

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.DisableLdapLogin (
            string UserId )  [inline]
```

Controller GET Method to disable ldap login for a user account

Parameters

UserId	the id of the user

Returns

json object (true / false)

Definition at line 282 of file AdminController.cs.

```
00282                                                                       {
00283             var user = await _userManager.FindByIdAsync(UserId);
00284             if(user==null) {
00285                 return Json(new { success = false });
00286             }
00287             user.IsLdapLogin = false;
00288             await _userManager.UpdateAsync(user);
00289             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " disabled ldap login for user "
      + user.UserName);
00290             return Json(new {success = true});
00291         }
```

6.1.3.5 DisableMfaForce()

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.DisableMfaForce (
            string UserId )  [inline]
```

Controller GET Method to disable mfa enforcement for a user account

Parameters

UserId	the id of the user

Returns

json object (true / false)

Definition at line 316 of file AdminController.cs.

```
00316                                                                       {
00317             var user = await _userManager.FindByIdAsync(UserId);
00318             if(user==null) {
00319                 return Json(new { success = false });
00320             }
00321             user.IsMfaForce = false;
00322             await _userManager.UpdateAsync(user);
00323             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " disabled mfa enforce for user "
      + user.UserName);
00324             return Json(new {success = true});
00325         }
```

6.1.3.6 DisableUser()

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.DisableUser (
            string UserId )  [inline]
```

Controller GET Method to disable a user account

Parameters

UserId	the id of the user

Returns

json object (true / false)

Definition at line 231 of file AdminController.cs.

```
00231                                                                   {
00232             var user = await _userManager.FindByIdAsync(UserId);
00233             if(user==null) {
00234                 return Json(new { success = false });
00235             }
00236             user.IsEnabled = false;
00237             await _userManager.UpdateAsync(user);
00238             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " disabled user " +
      user.UserName);
00239             return Json(new {success = true});
00240         }
```

6.1.3.7 EditUser() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.EditUser (
            EditUserViewModel viewModel )  [inline]
```

Controller POST Method to save user changes

Parameters

viewModel	a model of type Dotnetidentity.Models.ViewModels.EditUserViewModel

Returns

view of type Dotnetidentity.Views.Admin.EditUser

Definition at line 448 of file AdminController.cs.

```
00449         {
00450             if (ModelState.IsValid)
00451             {
00452                 var user = await _userManager.FindByIdAsync(viewModel.Id);
00453                 if (user != null)
00454                 {
00455                     if (user.PhoneNumber != viewModel.PhoneNumber && _userManager.Users.Any(a =>
      a.PhoneNumber == viewModel.PhoneNumber))
00456                     {
00457                         ModelState.AddModelError(string.Empty, "Phone number already in use.");
00458                     }
00459                     else
```

```
00460                     {
00461                         user.FirstName = viewModel.FirstName;
00462                         user.LastName = viewModel.LastName;
00463                         user.UserName = viewModel.UserName;
00464                         user.Email = viewModel.Email;
00465                         user.PhoneNumber = viewModel.PhoneNumber;
00466                         user.Gender = viewModel.Gender;
00467                         user.Department = viewModel.Department.ToString();
00468 
00469                         var result = await _userManager.UpdateAsync(user);
00470                         if (result.Succeeded)
00471                         {
00472                             // Roles
00473                             foreach (var item in viewModel.Roles)
00474                             {
00475                                 if (item.IsAssigned)
00476                                 {
00477                                     await _userManager.AddToRoleAsync(user, item.RoleName);
00478                                 }
00479                                 else
00480                                 {
00481                                     await _userManager.RemoveFromRoleAsync(user, item.RoleName);
00482                                 }
00483                             }
00484 
00485                             // Claims
00486                             var userClaims = await _userManager.GetClaimsAsync(user);
00487                             var departmentClaim = userClaims.FirstOrDefault(a => a.Type ==
      "Department");
00488                             var claimsToAdd = new Claim("Department",
      Enum.GetName(viewModel.Department)!);
00489                             if (departmentClaim != null)
00490                             {
00491                                 await _userManager.ReplaceClaimAsync(user, departmentClaim,
      claimsToAdd);
00492                             }
00493                             else
00494                             {
00495                                 await _userManager.AddClaimAsync(user, claimsToAdd);
00496                             }
00497                             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " modified user "
      + user.UserName);
00498                             return RedirectToAction("Users");
00499                         }
00500                         result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00501                     }
00502                 }
00503                 else
00504                 {
00505                     ModelState.AddModelError(string.Empty, "User not found.");
00506                 }
00507             }
00508 
00509             return View(viewModel);
00510         }
```

References DotNetIdentity.Models.ViewModels.EditUserViewModel.Department, DotNetIdentity.Models.ViewModels.EditUserViewMo
DotNetIdentity.Models.ViewModels.EditUserViewModel.FirstName, DotNetIdentity.Models.ViewModels.EditUserViewModel.Gender,
DotNetIdentity.Models.ViewModels.EditUserViewModel.Id, DotNetIdentity.Models.ViewModels.EditUserViewModel.LastName,
DotNetIdentity.Models.ViewModels.EditUserViewModel.PhoneNumber, DotNetIdentity.Models.ViewModels.EditUserViewModel.Roles
and DotNetIdentity.Models.ViewModels.EditUserViewModel.UserName.

6.1.3.8 EditUser() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.EditUser (
            string id )  [inline]
```

Controller action to serve the EditUserView

Parameters

id	the id of the user

Returns

view of type DotNetIdentity.Models.ViewModels.EditUserViewModel

Definition at line 415 of file AdminController.cs.

```
00416         {
00417             var user = await _userManager.FindByIdAsync(id);
00418             if (user == null)
00419             {
00420                 return RedirectToAction("Users");
00421             }
00422             var viewModel = user.Adapt<EditUserViewModel>();
00423 
00424             var userRoles = await _userManager.GetRolesAsync(user);
00425             viewModel.Roles = await _roleManager.Roles.Select(s => new AssignRoleViewModel
00426             {
00427                 RoleId = s.Id,
00428                 RoleName = s.Name,
00429                 IsAssigned = userRoles.Any(a => a == s.Name)
00430             }).ToListAsync();
00431 
00432             var userClaims = await _userManager.GetClaimsAsync(user);
00433             var departmentClaim = userClaims.FirstOrDefault(f => f.Type == "Department");
00434             if (departmentClaim != null)
00435             {
00436                 viewModel.Department = Enum.Parse<Department>(departmentClaim.Value);
00437             }
00438 
00439             return View(viewModel);
00440         }
```

References DotNetIdentity.Models.ViewModels.EditUserViewModel.Roles.

6.1.3.9 EnableLdapLogin()

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.EnableLdapLogin (
              string UserId )  [inline]
```

Controller GET Method to enable ldap login for a user account

Parameters

UserId	the id of the user

Returns

json object (true / false)

Definition at line 265 of file AdminController.cs.

```
00265                                                                   {
00266             var user = await _userManager.FindByIdAsync(UserId);
00267             if(user==null) {
00268                 return Json(new { success = false });
00269             }
00270             user.IsLdapLogin = true;
00271             await _userManager.UpdateAsync(user);
00272             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " enabled LDAP login for user " +
      user.UserName);
00273             return Json(new {success = true});
00274         }
```

6.1.3.10 EnableMfaForce()

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.EnableMfaForce (
            string UserId )  [inline]
```

Controller GET Method to enable mfa enforcement for a user account

Parameters

User↩ Id	the id of the user

Returns

json object (true / false)

Definition at line 299 of file AdminController.cs.

```
00299                                                                       {
00300             var user = await _userManager.FindByIdAsync(UserId);
00301             if(user==null) {
00302                 return Json(new { success = false });
00303             }
00304             user.IsMfaForce = true;
00305             await _userManager.UpdateAsync(user);
00306             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " enabled mfa enforce for user "
      + user.UserName);
00307             return Json(new {success = true});
00308         }
```

6.1.3.11 EnableUser()

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.EnableUser (
            string UserId )  [inline]
```

Controller GET Method to enable a user account

Parameters

User↩ Id	the id of the user

Returns

json object (true / false)

Definition at line 248 of file AdminController.cs.

```
00248                                                                       {
00249             var user = await _userManager.FindByIdAsync(UserId);
00250             if(user==null) {
00251                 return Json(new { success = false });
00252             }
00253             user.IsEnabled = true;
00254             await _userManager.UpdateAsync(user);
00255             _logger.LogInformation("AUDIT: " + User.Identity!.Name + " enabled user " +
      user.UserName);
00256             return Json(new {success = true});
00257         }
```

6.1.3.12 ErrorLogs()

```
IActionResult DotNetIdentity.Controllers.AdminController.ErrorLogs ( )
```

Controller Action for ErrorLogs

Returns

View of type DotnetIdentity.Views.Admin.Errorogs

6.1.3.13 GetAppLogs()

```
IActionResult DotNetIdentity.Controllers.AdminController.GetAppLogs (
            DataRequest request )  [inline]
```

Controller Post Method to fetch Applicationlogs

Parameters

request	type DatatablesJs.Data.DataRequest

Returns

Jason-Array of DatatablesJs.Data.DataResult

Definition at line 119 of file AdminController.cs.

```
00120         {
00121             DataResult<AppLogs> result =
      _context.AppLogs!.Where(l=>l.Message.ToLower().StartsWith("audit")==false && Convert.ToInt32(l.Level)
      < 4).ToDataResult(request);
00122             return Json(result);
00123         }
```

6.1.3.14 GetAuditLogs()

```
IActionResult DotNetIdentity.Controllers.AdminController.GetAuditLogs (
            DataRequest request )  [inline]
```

Controller Post Method to fetch AuditLogs

Parameters

request	type DatatablesJs.Data.DataRequest

Returns

Jason-Array of DatatablesJs.Data.DataResult

Definition at line 131 of file AdminController.cs.

```
00132         {
00133             DataResult<AppLogs> result =
      _context.AppLogs!.Where(l=>l.Message.ToLower().StartsWith("audit")==true).ToDataResult(request);
00134             return Json(result);
00135         }
```

6.1.3.15 GetErrorLogs()

```
IActionResult DotNetIdentity.Controllers.AdminController.GetErrorLogs (
            DataRequest request )  [inline]
```

Controller Post Method to fetch ErrorLogs

Parameters

request	type DatatablesJs.Data.DataRequest

Returns

Jason-Array of DatatablesJs.Data.DataResult

Definition at line 107 of file AdminController.cs.

```
00108         {
00109             DataResult<AppLogs> result =
      _context.AppLogs!.Where(l=>l.Message.ToLower().StartsWith("audit")==false && Convert.ToInt32(l.Level)
      == 4).ToDataResult(request);
00110             return Json(result);
00111         }
```

6.1.3.16 GetUsers()

```
JsonResult DotNetIdentity.Controllers.AdminController.GetUsers (
            DataRequest request )  [inline]
```

Controller Post Method to fetch Users

Parameters

request	type DatatablesJs.Data.DataRequest

Returns

Jason-Array of DatatablesJs.Data.DataResult

Definition at line 143 of file AdminController.cs.

```
00143                                                   {
00144             DataResult<AppUser> result = _userManager.Users.ToDataResult(request);
00145             return Json(result);
00146         }
```

6.1.3.17 Index()

```
IActionResult DotNetIdentity.Controllers.AdminController.Index ( )
```

Controller Action for Index

Returns

View of type DotnetIdentity.Views.Admin.Index

6.1.3.18 NewUser() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.NewUser ( )  [inline]
```

Controller Action for NewUser view

Returns

view of type DotnetIdentity.Views.Admin.NewUser

Definition at line 152 of file AdminController.cs.

```
00152                                                   {
00153             var mod = new NewUserModel();
00154             mod.Roles = await _roleManager.Roles.Select(s => new AssignRoleViewModel
00155             {
00156                 RoleId = s.Id,
00157                 RoleName = s.Name,
00158                 IsAssigned = false
00159             }).ToListAsync();
00160 
00161             return View(mod);
00162         }
```

6.1.3.19 NewUser() [2/2]

```
async Task< ActionResult > DotNetIdentity.Controllers.AdminController.NewUser (
            NewUserModel viewModel )  [inline]
```

controler Post Method to save a new User

Parameters

viewModel	type DotnetIdentity.Models.ViewModels.NewUserModel

Returns

view of type DotnetIdentity.Views.Admin.NewUser

Definition at line 170 of file AdminController.cs.

```
00171         {
```

```
00172             if (ModelState.IsValid)
00173             {
00174                 var user = new AppUser();
00175                 user.IsEnabled = true;
00176                 user.IsMfaForce = viewModel.IsMfaForce;
00177                 user.IsLdapLogin = viewModel.IsLdapLogin;
00178                 user.FirstName = viewModel.FirstName;
00179                 user.LastName = viewModel.LastName;
00180                 user.Email = viewModel.Email;
00181                 user.EmailConfirmed = true;
00182                 user.Gender = viewModel.Gender;
00183                 user.Department = viewModel.Department.ToString();
00184                 user.UserName = viewModel.UserName;
00185 
00186                 var result = await _userManager.CreateAsync(user, viewModel.Password);
00187                 if (result.Succeeded)
00188                 {
00189                     // roles
00190                     foreach (var item in viewModel.Roles)
00191                     {
00192                         if (item.IsAssigned)
00193                         {
00194                             await _userManager.AddToRoleAsync(user, item.RoleName);
00195                         }
00196                         else
00197                         {
00198                             await _userManager.RemoveFromRoleAsync(user, item.RoleName);
00199                         }
00200                     }
00201                 }
00202 
00203                 ViewData["message"] = "User created success fully.";
00204                 _logger.LogInformation("AUDIT: " + User.Identity!.Name + " created new user " +
    user.UserName);
00205             }
00206             return View(new NewUserModel());
00207         }
```

References DotNetIdentity.Models.ViewModels.NewUserModel.Department, DotNetIdentity.Models.ViewModels.NewUserModel.Ema
DotNetIdentity.Models.ViewModels.NewUserModel.FirstName, DotNetIdentity.Models.ViewModels.NewUserModel.Gender,
DotNetIdentity.Models.ViewModels.NewUserModel.IsLdapLogin, DotNetIdentity.Models.ViewModels.NewUserModel.IsMfaForce,
DotNetIdentity.Models.ViewModels.NewUserModel.LastName, DotNetIdentity.Models.ViewModels.NewUserModel.Password,
DotNetIdentity.Models.ViewModels.NewUserModel.Roles, and DotNetIdentity.Models.ViewModels.NewUserModel.UserName.

6.1.3.20 Roles()

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.Roles ( )
```

Controller Action for Roles

Returns

View of type DotnetIdentity.Views.Admin.Users

6.1.3.21 SystemLogs()

```
IActionResult DotNetIdentity.Controllers.AdminController.SystemLogs ( )
```

Controller Action for SystemLogs

Returns

View of type DotnetIdentity.Views.Admin.SystemLogs

6.1.3.22 UpsertRole() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.UpsertRole (
            string?  id )  [inline]
```

Controller Action for view UpsertRole

Parameters

id	

Returns

view of type Dotnetidentity.Views.Admin.UpsertRole

Definition at line 214 of file AdminController.cs.

```
00215         {
00216             if (id != null)
00217             {
00218                 var role = await _roleManager.FindByIdAsync(id);
00219                 return View(role.Adapt<UpsertRoleViewModel>());
00220             }
00221 
00222             return View(new UpsertRoleViewModel());
00223         }
```

6.1.3.23 UpsertRole() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.UpsertRole (
            UpsertRoleViewModel viewModel )  [inline]
```

Controller POST Method to enable a user account

Parameters

viewModel	tmodel of type Dotnetidentity.Models.ViewModels.UpsertRoleViewModel

Returns

redirect to controller action Roles

Definition at line 333 of file AdminController.cs.

```
00334         {
00335             if (ModelState.IsValid)
00336             {
00337                 var isUpdate = viewModel.Id != null;
00338 
00339                 var role = isUpdate ? await _roleManager.FindByIdAsync(viewModel.Id) : new AppRole() {
      Name = viewModel.Name, CreatedOn = DateTime.Now };
00340 
00341                 if (isUpdate)
00342                 {
00343                     role.Name = viewModel.Name;
00344                 }
00345 
00346                 var result = isUpdate ? await _roleManager.UpdateAsync(role) : await
      _roleManager.CreateAsync(role);
00347                 if (result.Succeeded)
```

```
00348                 {
00349                     if(isUpdate) {
00350                         _logger.LogInformation("AUDIT: " + User.Identity!.Name + " changed name of " +
      viewModel.Id + " to " + viewModel.Name);
00351                     } else {
00352                         _logger.LogInformation("AUDIT: " + User.Identity!.Name + " created role " +
      viewModel.Name);
00353                     }
00354                     return RedirectToAction("Roles");
00355                 }
00356                 result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00357                 result.Errors.ToList().ForEach(f => TempData["Error"] += f.Description);
00358             }
00359 
00360             //return View(viewModel);
00361             //return View("Roles", await _roleManager.Roles.ToListAsync());
00362             return RedirectToAction("Roles");
00363         }
```

References DotNetIdentity.Models.ViewModels.UpsertRoleViewModel.Id, and DotNetIdentity.Models.ViewModels.UpsertRoleViewMo

6.1.3.24 Users()

```
async Task< IActionResult > DotNetIdentity.Controllers.AdminController.Users ( )
```

Controller Action for Users

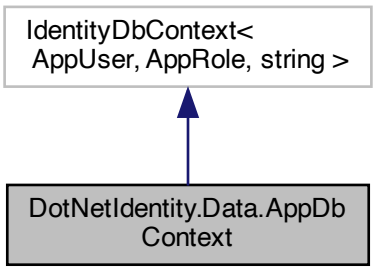
Returns

View of type DotnetIdentity.Views.Admin.Users

6.2 DotNetIdentity.Data.AppDbContext Class Reference

Application Database context class

Inheritance diagram for DotNetIdentity.Data.AppDbContext:



Public Member Functions

- AppDbContext (DbContextOptions< AppDbContext > options)

  class constructor

Protected Member Functions

- override void OnModelCreating (ModelBuilder builder)

  Overriding OnModelCreation to seed intitial data

Properties

- DbSet< AppLogs >? AppLogs `[get, set]`

  Property AppLogs
- DbSet< ApplicationSettings >? AppSettings `[get, set]`

  property AppSettings
- DbSet< SessionCache >? AppSessionCache `[get, set]`

  property AppSessionCache

6.2.1 Detailed Description

Application Database context class

Definition at line 12 of file AppDbContext.cs.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 AppDbContext()

```
DotNetIdentity.Data.AppDbContext.AppDbContext (
            DbContextOptions< AppDbContext > options )  [inline]
```

class constructor

Parameters

options	type DbContextOptions

Returns

Definition at line 19 of file AppDbContext.cs.

```
00019                                                       : base(options) {
00020         }
```

6.2.3 Member Function Documentation

6.2.3.1 OnModelCreating()

```
override void DotNetIdentity.Data.AppDbContext.OnModelCreating (
            ModelBuilder builder )  [inline], [protected]
```

Overriding OnModelCreation to seed intitial data

Parameters

builder	type ModelBuilder

Definition at line 41 of file AppDbContext.cs.

```
00042         {
00043             base.OnModelCreating(builder);
00044 
00045             builder.Entity<ApplicationSettings>()
00046                     .HasKey(x => new { x.Name, x.Type });
00047 
00048             builder.Entity<ApplicationSettings>()
00049                         .Property(x => x.Value);
00050 
00051             // seeding default settings
00052             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "ApplicationName", Type = "GlobalSettings", Value = "SecPass"});
00053             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "SessionTimeoutWarnAfter", Type = "GlobalSettings", Value = "50000"});
00054             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "SessionTimeoutRedirAfter", Type = "GlobalSettings", Value = "70000"});
00055             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "SessionCookieExpiration", Type = "GlobalSettings", Value = "7"});
00056             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name = "Username",
      Type = "MailSettings", Value = "YOUR_Smtp_Username"});
00057             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name = "Password",
      Type = "MailSettings", Value = "YOUR_SmtpPassword"});
00058             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "SmtpServer", Type = "MailSettings", Value = "YOUR_SmtpServer"});
00059             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name = "SmtpPort",
      Type = "MailSettings", Value = "587"});
00060             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "SmtpUseTls", Type = "MailSettings", Value = "true"});
00061             builder.Entity<ApplicationSettings>().HasData(new ApplicationSettings {Name =
      "SmtpFromAddress", Type = "MailSettings", Value = "YOUR_From_Address"});
00062 
00063             //Seeding roles to AspNetRoles table
00064             builder.Entity<AppRole>().HasData(new AppRole { Id =
      "dffc6dd5-b145-41e9-a861-c87ff673e9ca", Name = "Admin", NormalizedName = "ADMIN".ToUpper() });
00065             builder.Entity<AppRole>().HasData(new AppRole { Id =
      "f8a527ac-d7f6-4d9d-aca6-46b2261b042b", Name = "User", NormalizedName = "USER".ToUpper() });
00066             builder.Entity<AppRole>().HasData(new AppRole { Id =
      "g7a527ac-d7t6-4d7z-aca6-45t2261b042b", Name = "Editor", NormalizedName = "EDITOR".ToUpper() });
00067             builder.Entity<AppRole>().HasData(new AppRole { Id =
      "p9a527ac-d77w-4d3r-aca6-35b2261b042b", Name = "Moderator", NormalizedName = "MODERATOR".ToUpper()
      });
00068 
00069 
00070 
00071             //a hasher to hash the password before seeding the user to the db
00072             var hasher = new PasswordHasher<AppUser>();
00073 
00074             //Seeding the Admin User to AspNetUsers table
00075             builder.Entity<AppUser>().HasData(
00076                 new AppUser
00077                 {
00078                     Id = "6fbfb682-568c-4f5b-a298-85937ca4f7f3", // primary key
00079                     UserName = "super.admin",
00080                     NormalizedUserName = "SUPER.ADMIN",
00081                     PasswordHash = hasher.HashPassword(null!, "Test1000!"),
00082                     Email = "super.admin@local.app",
00083                     NormalizedEmail = "SUPER.ADMIN@LOCAL.APP",
00084                     EmailConfirmed = true,
00085                     FirstName = "Super",
00086                     LastName = "Admin",
00087                     IsMfaForce = false,
00088                     IsLdapLogin = false,
00089                     IsEnabled = true
00090                 }
00091             );
00092 
00093             //Seeding the relation between our user and role to AspNetUserRoles table
```

```
00094             builder.Entity<IdentityUserRole<string>>().HasData(
00095                 new IdentityUserRole<string>
00096                 {
00097                     RoleId = "dffc6dd5-b145-41e9-a861-c87ff673e9ca",
00098                     UserId = "6fbfb682-568c-4f5b-a298-85937ca4f7f3"
00099                 }
00100             );
00101         }
```

6.2.4 Property Documentation

6.2.4.1 AppLogs

```
DbSet<AppLogs>?  DotNetIdentity.Data.AppDbContext.AppLogs  [get], [set]
```

Property AppLogs

Definition at line 25 of file AppDbContext.cs.

```
00025 {get;set;}
```

6.2.4.2 AppSessionCache

```
DbSet<SessionCache>?  DotNetIdentity.Data.AppDbContext.AppSessionCache  [get], [set]
```

property AppSessionCache

Definition at line 35 of file AppDbContext.cs.

```
00035 {get;set;}
```

6.2.4.3 AppSettings

```
DbSet<ApplicationSettings>?  DotNetIdentity.Data.AppDbContext.AppSettings  [get], [set]
```

property AppSettings

Definition at line 30 of file AppDbContext.cs.

```
00030 {get;set;}
```

Referenced by DotNetIdentity.Services.SettingsService.AppSettingsBase.Load(), and DotNetIdentity.Services.SettingsService.AppSe

6.3 DotNetIdentity.Models.DataModels.ApplicationSettings Class Reference

class define an Settings object

Properties

- string? Name [get, set]
  property name
- string? Type [get, set]
  property Type
- string? Value [get, set]
  property value

6.3.1 Detailed Description

class define an Settings object

Definition at line 7 of file ApplicationSettings.cs.

6.3.2 Property Documentation

6.3.2.1 Name

```
string?  DotNetIdentity.Models.DataModels.ApplicationSettings.Name  [get], [set]
```

property name

string

Definition at line 12 of file ApplicationSettings.cs.
```
00012 {get;set;}
```

Referenced by DotNetIdentity.Services.SettingsService.AppSettingsBase.Save().

6.3.2.2 Type

```
string?  DotNetIdentity.Models.DataModels.ApplicationSettings.Type  [get], [set]
```

property Type

string

Definition at line 17 of file ApplicationSettings.cs.
```
00017 {get;set;}
```

6.3.2.3 Value

```
string?  DotNetIdentity.Models.DataModels.ApplicationSettings.Value  [get], [set]
```

property value

string

Definition at line 22 of file ApplicationSettings.cs.

```
00022 {get;set;}
```

6.4 DotNetIdentity.Models.DataModels.AppLogs Class Reference

class to define ann Log object

Properties

- int id `[get, set]`
  property id
- string? Exception `[get, set]`
  property Exception
- string Level = string.Empty `[get, set]`
  property Level
- string Message = string.Empty `[get, set]`
  property Message
- string MessageTemplate = string.Empty `[get, set]`
  property MessageTemplate
- string Properties = string.Empty `[get, set]`
  property Properties
- string Timestamp = string.Empty `[get, set]`
  property Timestamp

6.4.1 Detailed Description

class to define ann Log object

Definition at line 5 of file AppLogs.cs.

6.4.2 Property Documentation

6.4.2.1 Exception

```
string?  DotNetIdentity.Models.DataModels.AppLogs.Exception  [get], [set]
```

property Exception

string

Definition at line 15 of file AppLogs.cs.

```
00015 {get;set;}
```

6.4.2.2 id

```
int DotNetIdentity.Models.DataModels.AppLogs.id  [get], [set]
```

property id

int

Definition at line 10 of file AppLogs.cs.

```
00010 {get;set;}
```

6.4.2.3 Level

```
string DotNetIdentity.Models.DataModels.AppLogs.Level = string.Empty  [get], [set]
```

property Level

string

Definition at line 20 of file AppLogs.cs.

```
00020 {get;set;} = string.Empty;
```

6.4.2.4 Message

```
string DotNetIdentity.Models.DataModels.AppLogs.Message = string.Empty  [get], [set]
```

property Message

string

Definition at line 25 of file AppLogs.cs.

```
00025 {get;set;} = string.Empty;
```

6.4.2.5 MessageTemplate

```
string DotNetIdentity.Models.DataModels.AppLogs.MessageTemplate = string.Empty  [get], [set]
```

property MessageTemplate

string

Definition at line 30 of file AppLogs.cs.

```
00030 {get;set;} = string.Empty;
```

6.4.2.6 Properties

```
string DotNetIdentity.Models.DataModels.AppLogs.Properties = string.Empty  [get], [set]
```

property Properties

string

Definition at line 35 of file AppLogs.cs.

```
00035 {get;set;} = string.Empty;
```

6.4.2.7 Timestamp

```
string DotNetIdentity.Models.DataModels.AppLogs.Timestamp = string.Empty  [get], [set]
```

property Timestamp

string

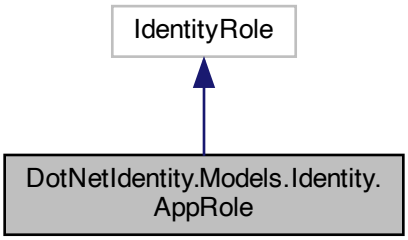
Definition at line 40 of file AppLogs.cs.

```
00040 {get;set;} = string.Empty;
```

6.5 DotNetIdentity.Models.Identity.AppRole Class Reference

class to define a role object

Inheritance diagram for DotNetIdentity.Models.Identity.AppRole:



Properties

- DateTime CreatedOn [get, set]

  property created on

6.5.1 Detailed Description

class to define a role object

Definition at line 8 of file AppRole.cs.

6.5.2 Property Documentation

6.5.2.1 CreatedOn

```
DateTime DotNetIdentity.Models.Identity.AppRole.CreatedOn [get], [set]
```

property created on

DateTime

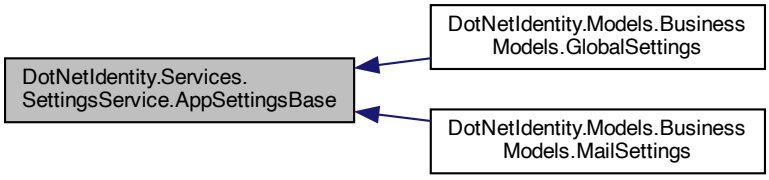
Definition at line 14 of file AppRole.cs.

```
00014 { get; set; }
```

6.6 DotNetIdentity.Services.SettingsService.AppSettingsBase Class Reference

base class for Settings classes

Inheritance diagram for DotNetIdentity.Services.SettingsService.AppSettingsBase:



Public Member Functions

- AppSettingsBase ()
  class constructor
- virtual void Load (AppDbContext unitOfWork)
  load method
- virtual void Save (AppDbContext unitOfWork)
  save method

6.6.1 Detailed Description

base class for Settings classes

Definition at line 9 of file AppSettingsBase.cs.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 AppSettingsBase()

```
DotNetIdentity.Services.SettingsService.AppSettingsBase.AppSettingsBase ( )  [inline]
```

class constructor

Definition at line 23 of file AppSettingsBase.cs.

```
00024         {
00025             var type = this.GetType();
00026             _name = type.Name;
00027             // 2
00028             _properties = type.GetProperties();
00029         }
```

6.6.3 Member Function Documentation

6.6.3.1 Load()

```
virtual void DotNetIdentity.Services.SettingsService.AppSettingsBase.Load (
            AppDbContext unitOfWork )  [inline], [virtual]
```

load method

Parameters

unitOfWork	type DbContext

Definition at line 35 of file AppSettingsBase.cs.

```
00036         {
00037             // ARGUMENT CHECKING SKIPPED FOR BREVITY
00038             // 3 get settings for this type name
00039             var settings = unitOfWork.AppSettings!.Where(w => w.Type == _name).ToList();
00040 
00041             foreach (var propertyInfo in _properties)
00042             {
00043                 // get the setting from the settings list
00044                 var setting = settings.SingleOrDefault(s => s.Name == propertyInfo.Name);
00045                 if (setting != null)
00046                 {
00047                     // 4 assign the setting values to the properties in the type inheriting this class
00048                     propertyInfo.SetValue(this, Convert.ChangeType(setting.Value,
      propertyInfo.PropertyType));
00049                 }
00050             }
00051         }
```

References DotNetIdentity.Data.AppDbContext.AppSettings.

6.6.3.2 Save()

```
virtual void DotNetIdentity.Services.SettingsService.AppSettingsBase.Save (
            AppDbContext unitOfWork )  [inline], [virtual]
```

save method

Parameters

unitOfWork	type DbContext

Definition at line 57 of file AppSettingsBase.cs.

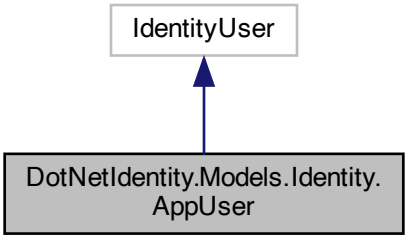
```
00058         {
00059             // 5 load existing settings for this type
00060             var settings = unitOfWork.AppSettings!.Where(w => w.Type == _name).ToList();
00061 
00062             foreach (var propertyInfo in _properties)
00063             {
00064                 object propertyValue = propertyInfo.GetValue(this, null)!;
00065                 string value = (propertyValue == null) ? null! : propertyValue.ToString()!;
00066 
00067                 var setting = settings.SingleOrDefault(s => s.Name == propertyInfo.Name);
00068                 if (setting != null)
00069                 {
00070                     // 6 update existing value
00071                     setting.Value = value;
00072                 }
00073                 else
00074                 {
00075                     // 7 create new setting
00076                     var newSetting = new ApplicationSettings()
00077                     {
00078                         Name = propertyInfo.Name,
00079                         Type = _name,
00080                         Value = value,
00081                     };
00082                     unitOfWork.AppSettings!.Add(newSetting);
00083                 }
00084             }
00085         }
```

References DotNetIdentity.Data.AppDbContext.AppSettings, and DotNetIdentity.Models.DataModels.ApplicationSettings.Name.

6.7 DotNetIdentity.Models.Identity.AppUser Class Reference

class to define a user object

Inheritance diagram for DotNetIdentity.Models.Identity.AppUser:



Properties

- TwoFactorType TwoFactorType `[get, set]`
  2fa type property
- DateTime BirthDay `[get, set]`
  birthday property
- Gender Gender `[get, set]`
  gender property
- DateTime CreatedOn `[get, set]`
  birthday CreatedOn
- String? FirstName = string.Empty `[get, set]`
  firstname property
- String? LastName = string.Empty `[get, set]`
  lastname property
- bool IsMfaForce `[get, set]`
  2fa force property
- bool IsLdapLogin `[get, set]`
  ldap login property
- string? Department = string.Empty `[get, set]`
  department property
- string? ProfilePicture `[get, set]`
  profile picture proerty
- bool IsEnabled `[get, set]`
  account enbaled property

6.7.1 Detailed Description

class to define a user object

Definition at line 8 of file AppUser.cs.

6.7.2 Property Documentation

6.7.2.1 BirthDay

```
DateTime DotNetIdentity.Models.Identity.AppUser.BirthDay  [get], [set]
```

birthday property

DateTime

Definition at line 19 of file AppUser.cs.

```
00019 { get; set; }
```

6.7.2.2 CreatedOn

```
DateTime DotNetIdentity.Models.Identity.AppUser.CreatedOn  [get], [set]
```

birthday CreatedOn

DateTime

Definition at line 29 of file AppUser.cs.

```
00029 { get; set; }
```

6.7.2.3 Department

```
string?  DotNetIdentity.Models.Identity.AppUser.Department = string.Empty  [get], [set]
```

department property

Department

Definition at line 54 of file AppUser.cs.

```
00054 { get; set; } = string.Empty;
```

6.7.2.4 FirstName

```
String?  DotNetIdentity.Models.Identity.AppUser.FirstName = string.Empty  [get], [set]
```

firstname property

string

Definition at line 34 of file AppUser.cs.

```
00034 {get; set;} = string.Empty;
```

6.7.2.5 Gender

```
Gender DotNetIdentity.Models.Identity.AppUser.Gender  [get], [set]
```

gender property

Gender

Definition at line 24 of file AppUser.cs.

```
00024 { get; set; }
```

6.7.2.6 IsEnabled

```
bool DotNetIdentity.Models.Identity.AppUser.IsEnabled  [get], [set]
```

account enbaled property

bool

Definition at line 64 of file AppUser.cs.

```
00064 {get; set;}
```

6.7.2.7 IsLdapLogin

```
bool DotNetIdentity.Models.Identity.AppUser.IsLdapLogin  [get], [set]
```

ldap login property

bool

Definition at line 49 of file AppUser.cs.

```
00049 {get; set;}
```

6.7.2.8 IsMfaForce

```
bool DotNetIdentity.Models.Identity.AppUser.IsMfaForce  [get], [set]
```

2fa force property

bool

Definition at line 44 of file AppUser.cs.

```
00044 {get; set;}
```

6.7.2.9 LastName

```
String?  DotNetIdentity.Models.Identity.AppUser.LastName = string.Empty  [get], [set]
```

lastname property

string

Definition at line 39 of file AppUser.cs.

```
00039 {get; set;} = string.Empty;
```

6.7.2.10 ProfilePicture

```
string?  DotNetIdentity.Models.Identity.AppUser.ProfilePicture  [get], [set]
```

profile picture proerty

string

Definition at line 59 of file AppUser.cs.

```
00059 { get; set; }
```

6.7.2.11 TwoFactorType

```
TwoFactorType DotNetIdentity.Models.Identity.AppUser.TwoFactorType  [get], [set]
```

2fa type property

TwoFactorType

Definition at line 14 of file AppUser.cs.

```
00014 { get; set; }
```

6.8 DotNetIdentity.Models.ViewModels.AssignRoleViewModel Class Reference

model for UserEditView

Properties

- string RoleId = default! `[get, set]`
  the role id
- string RoleName = default! `[get, set]`
  the role neame
- bool IsAssigned `[get, set]`
  if role is assigned

6.8.1 Detailed Description

model for UserEditView

Definition at line 6 of file AssignRoleViewModel.cs.

6.8.2 Property Documentation

6.8.2.1 IsAssigned

```
bool DotNetIdentity.Models.ViewModels.AssignRoleViewModel.IsAssigned  [get], [set]
```

if role is assigned

bool

Definition at line 22 of file AssignRoleViewModel.cs.

```
00022 { get; set; }
```

6.8.2.2 RoleId

```
string DotNetIdentity.Models.ViewModels.AssignRoleViewModel.RoleId = default!  [get], [set]
```

the role id

string

Definition at line 12 of file AssignRoleViewModel.cs.

```
00012 { get; set; } = default!;
```

6.8.2.3 RoleName

```
string DotNetIdentity.Models.ViewModels.AssignRoleViewModel.RoleName = default!  [get], [set]
```

the role neame

string

Definition at line 17 of file AssignRoleViewModel.cs.

```
00017 { get; set; } = default!;
```

6.9 DotNetIdentity.Models.ViewModels.ChangePasswordViewModel Class Reference

model for ChangePassword view

Properties

- string Password = default! `[get, set]`
  the password
- string NewPassword = default! `[get, set]`
  the new password
- string NewPasswordConfirm = default! `[get, set]`
  the new password confirmed

6.9.1 Detailed Description

model for ChangePassword view

Definition at line 8 of file ChangePasswordViewModel.cs.

6.9.2 Property Documentation

6.9.2.1 NewPassword

```
string DotNetIdentity.Models.ViewModels.ChangePasswordViewModel.NewPassword = default!  [get],
[set]
```

the new password

string

Definition at line 19 of file ChangePasswordViewModel.cs.

```
00019 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.ChangePassword().

6.9.2.2 NewPasswordConfirm

```
string DotNetIdentity.Models.ViewModels.ChangePasswordViewModel.NewPasswordConfirm = default!
[get], [set]
```

the new password confirmed

string

Definition at line 25 of file ChangePasswordViewModel.cs.

```
00025 { get; set; } = default!;
```

6.9.2.3 Password

```
string DotNetIdentity.Models.ViewModels.ChangePasswordViewModel.Password = default!  [get],
[set]
```

the password

string

Definition at line 14 of file ChangePasswordViewModel.cs.

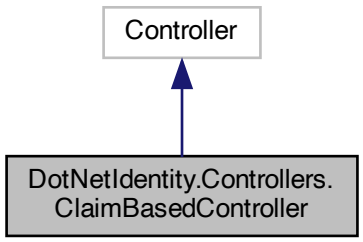
```
00014 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.ChangePassword().

6.10 DotNetIdentity.Controllers.ClaimBasedController Class Reference

Controller to test ClaimBased Authorization

Inheritance diagram for DotNetIdentity.Controllers.ClaimBasedController:



Public Member Functions

- IActionResult HR ()

  Controller action for HR view
- IActionResult Software ()

  Controller action for Software view
- IActionResult Employee ()

  Controller action for Employee view
- IActionResult FreeTrial ()

  Controller action for FreeTrial view
- IActionResult Violence ()

  Controller action for AtLeast18Policy view

6.10.1 Detailed Description

Controller to test ClaimBased Authorization

Definition at line 9 of file ClaimBasedController.cs.

6.10.2 Member Function Documentation

6.10.2.1 Employee()

```
IActionResult DotNetIdentity.Controllers.ClaimBasedController.Employee ( )
```

Controller action for Employee view

Returns

view Employee

6.10.2.2 FreeTrial()

```
IActionResult DotNetIdentity.Controllers.ClaimBasedController.FreeTrial ( )
```

Controller action for FreeTrial view

Returns

view FreeTrial

6.10.2.3 HR()

```
IActionResult DotNetIdentity.Controllers.ClaimBasedController.HR ( )
```

Controller action for HR view

Returns

view HR

6.10.2.4 Software()

```
IActionResult DotNetIdentity.Controllers.ClaimBasedController.Software ( )
```

Controller action for Software view

Returns

view Software

6.10.2.5 Violence()

```
IActionResult DotNetIdentity.Controllers.ClaimBasedController.Violence ( )
```

Controller action for AtLeast18Policy view

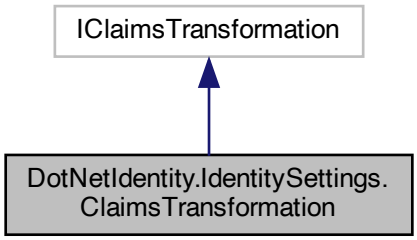
Returns

view AtLeast18Policy

6.11 DotNetIdentity.IdentitySettings.ClaimsTransformation Class Reference

class to define own claims

Inheritance diagram for DotNetIdentity.IdentitySettings.ClaimsTransformation:



Public Member Functions

- ClaimsTransformation (UserManager< AppUser > userManager, RoleManager< AppRole > roleManager)
  class constructor
- async Task< ClaimsPrincipal > TransformAsync (ClaimsPrincipal principal)
  Task to add claims to identoty

6.11.1 Detailed Description

class to define own claims

Definition at line 11 of file ClaimsTransformation.cs.

6.11.2 Constructor & Destructor Documentation

6.11.2.1 ClaimsTransformation()

```
DotNetIdentity.IdentitySettings.ClaimsTransformation.ClaimsTransformation (
            UserManager< AppUser > userManager,
            RoleManager< AppRole > roleManager )  [inline]
```

class constructor

Parameters

userManager	UserManager
roleManager	RoleManager

Definition at line 27 of file ClaimsTransformation.cs.

```
00028         {
00029             _userManager = userManager;
00030             _roleManager = roleManager;
00031         }
```

6.11.3 Member Function Documentation

6.11.3.1 TransformAsync()

```
async Task< ClaimsPrincipal > DotNetIdentity.IdentitySettings.ClaimsTransformation.Transform↩
Async (
            ClaimsPrincipal principal )  [inline]
```

Task to add claims to identoty

Parameters

principal	ClaimsPrincipal

Returns

ClaimsPrincipal

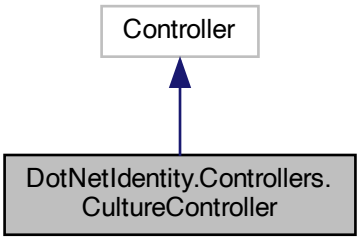
Definition at line 38 of file ClaimsTransformation.cs.

```
00039         {
00040             var identity = principal.Identity as ClaimsIdentity;
00041             var user = await _userManager.FindByNameAsync(identity?.Name);
00042             if (user != null)
00043             {
00044                 if (!principal.HasClaim(c => c.Type == ClaimTypes.Gender))
00045                 {
00046                     var genderClaim = new Claim(ClaimTypes.Gender, Enum.GetName(user.Gender)!);
00047                     identity?.AddClaim(genderClaim);
00048                 }
00049 
00050                 if (!principal.HasClaim(c => c.Type == ClaimTypes.DateOfBirth))
00051                 {
00052                     var birthDayClaim = new Claim(ClaimTypes.DateOfBirth,
      user.BirthDay.ToShortDateString());
00053                     identity?.AddClaim(birthDayClaim);
00054                 }
00055 
00056                 if (!principal.HasClaim(c => c.Type == "FreeTrial"))
00057                 {
00058                     var freeTrialClaim = new Claim("FreeTrial", user.CreatedOn.ToShortDateString());
00059                     identity?.AddClaim(freeTrialClaim);
00060                 }
00061 
00062                 if (!principal.HasClaim(c => c.Type == "Department") &&
      !String.IsNullOrEmpty(user.Department))
00063                 {
00064                     var departmentClaim = new Claim("Department", user.Department!);
00065                     identity?.AddClaim(departmentClaim);
00066                 }
00067 
00068                 if (!principal.HasClaim(c => c.Type == ClaimTypes.GivenName))
00069                 {
00070                     var givennameClaim = new Claim(ClaimTypes.GivenName, user.FirstName!);
00071                     identity?.AddClaim(givennameClaim);
00072                 }
00073 
00074                 if (!principal.HasClaim(c => c.Type == ClaimTypes.Surname))
00075                 {
00076                     var surnameClaim = new Claim(ClaimTypes.Surname, user.LastName!);
00077                     identity?.AddClaim(surnameClaim);
00078                 }
00079 
00080                 if(!principal.HasClaim(c=>c.Type=="SelectedCulture")) {
00081                     var culture =
      System.Globalization.CultureInfo.CurrentCulture.ToString().ToLower();
00082                     var cultureClaim = new Claim("SelectedCulture", culture);
00083                     identity?.AddClaim(cultureClaim);
00084                 }
00085 
00086                 if (!principal.HasClaim(c => c.Type == "RolesCombined"))
00087                 {
00088                     var rls = await _userManager.GetRolesAsync(user);
00089                     if (rls != null)
00090                     {
00091                         var rlsComb = "";
00092                         if(rls.Count()>0 && rls.Count()<=1) {
00093                             rlsComb = rls[0].ToString();
00094                         } else {
00095                             for(int i=0;i<rls.Count;i++)
00096                             {
00097                                 if(i+1!=rls.Count){ rlsComb += rls[i] + ","; }
00098                                 else { rlsComb += rls[i]; }
00099                             }
00100                         }
00101                         if(rlsComb.Length>0)
00102                         {
00103                             var rolesCombinedClaim = new Claim("RolesCombined", rlsComb!);
00104                             identity?.AddClaim(rolesCombinedClaim);
00105                         }
00106                     }
00107                 }
00108             }
00109 
00110             return principal;
00111         }
```

6.12 DotNetIdentity.Controllers.CultureController Class Reference

controller for culture settings

Inheritance diagram for DotNetIdentity.Controllers.CultureController:



Public Member Functions

- IActionResult SetCulture (string culture, string returnUrl)
  controller POST method to set current culture

6.12.1 Detailed Description

controller for culture settings

Definition at line 17 of file CultureController.cs.

6.12.2 Member Function Documentation

6.12.2.1 SetCulture()

```
IActionResult DotNetIdentity.Controllers.CultureController.SetCulture (
            string culture,
            string returnUrl )  [inline]
```

controller POST method to set current culture

Parameters

culture	the culture as string
returnUrl	the return url as string

Returns

a local redirect to variable returnUrl

Definition at line 26 of file CultureController.cs.

```
00027         {
00028             Response.Cookies.Append(
00029                 CookieRequestCultureProvider.DefaultCookieName,
00030                 CookieRequestCultureProvider.MakeCookieValue(new RequestCulture(culture)),
00031                 new CookieOptions { Expires = DateTimeOffset.UtcNow.AddYears(1) }
00032             );
00033             return LocalRedirect(returnUrl);
00034         }
```

6.13 DotNetIdentity.Models.ViewModels.EditUserViewModel Class Reference

model for EditUser view

Properties

- string Id = default! `[get, set]`
  the user id
- string UserName = default! `[get, set]`
  the username
- string Email = default! `[get, set]`
  the email
- string PhoneNumber = default! `[get, set]`
  the phone number
- Gender Gender = Gender.Unknown `[get, set]`
  the gener
- Department Department = Department.Software `[get, set]`
  the department
- List< AssignRoleViewModel > Roles = new() `[get, set]`
  the roles assigned
- string FirstName = string.Empty `[get, set]`
  the firstname
- string LastName = string.Empty `[get, set]`
  the lastname

6.13.1 Detailed Description

model for EditUser view

Definition at line 6 of file EditUserViewModel.cs.

6.13.2 Property Documentation

6.13.2.1 Department

```
Department DotNetIdentity.Models.ViewModels.EditUserViewModel.Department = Department.Software
[get], [set]
```

the department

Department

Definition at line 37 of file EditUserViewModel.cs.

```
00037 { get; set; } = Department.Software;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.2 Email

```
string DotNetIdentity.Models.ViewModels.EditUserViewModel.Email = default!  [get], [set]
```

the email

string

Definition at line 22 of file EditUserViewModel.cs.

```
00022 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.3 FirstName

```
string DotNetIdentity.Models.ViewModels.EditUserViewModel.FirstName = string.Empty  [get],
[set]
```

the firstname

string

Definition at line 47 of file EditUserViewModel.cs.

```
00047 {get;set;} = string.Empty;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.4 Gender

```
Gender DotNetIdentity.Models.ViewModels.EditUserViewModel.Gender = Gender.Unknown  [get], [set]
```

the gener

Gender

Definition at line 32 of file EditUserViewModel.cs.

```
00032 { get; set; } = Gender.Unknown;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.5 Id

```
string DotNetIdentity.Models.ViewModels.EditUserViewModel.Id = default!  [get], [set]
```

the user id

string

Definition at line 12 of file EditUserViewModel.cs.

```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.6 LastName

```
string DotNetIdentity.Models.ViewModels.EditUserViewModel.LastName = string.Empty  [get], [set]
```

the lastname

string

Definition at line 52 of file EditUserViewModel.cs.

```
00052 {get; set;} = string.Empty;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.7 PhoneNumber

```
string DotNetIdentity.Models.ViewModels.EditUserViewModel.PhoneNumber = default!  [get], [set]
```

the phone number

string

Definition at line 27 of file EditUserViewModel.cs.

```
00027 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.8 Roles

```
List<AssignRoleViewModel> DotNetIdentity.Models.ViewModels.EditUserViewModel.Roles = new()
[get], [set]
```

the roles assigned

Returns

List of type AppRole

Definition at line 42 of file EditUserViewModel.cs.

```
00042 { get; set; } = new();
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.13.2.9 UserName

```
string DotNetIdentity.Models.ViewModels.EditUserViewModel.UserName = default!  [get], [set]
```

the username

string

Definition at line 17 of file EditUserViewModel.cs.

```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.EditUser().

6.14 DotNetIdentity.Helpers.EmailHelper Class Reference

class for email methods

Public Member Functions

- EmailHelper (ISettingsService sett)
  class constructor
- async Task SendAsync (EmailModel model)
  method to send a mail

6.14.1 Detailed Description

class for email methods

Definition at line 12 of file EmailHelper.cs.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 EmailHelper()

```
DotNetIdentity.Helpers.EmailHelper.EmailHelper (
            ISettingsService sett )  [inline]
```

class constructor

Parameters

sett	type ISettingsService

Definition at line 23 of file EmailHelper.cs.

```
00024         {
00025             _sett = sett;
00026         }
```

6.14.3 Member Function Documentation

6.14.3.1 SendAsync()

```
async Task DotNetIdentity.Helpers.EmailHelper.SendAsync (
            EmailModel model )  [inline]
```

method to send a mail

Parameters

model	type EmailModel

Returns

Definition at line 33 of file EmailHelper.cs.

```
00034         {
00035             var mail = new MailMessage
00036             {
00037                 Subject = model.Subject,
00038                 Body = model.Body,
00039                 From = new MailAddress(_sett.Mail.SmtpFromAddress!),
00040                 IsBodyHtml = true
00041             };
00042 
00043             var smtp = new SmtpClient
00044             {
00045                 Host = _sett.Mail.SmtpServer!,
00046                 Port = Convert.ToInt32(_sett.Mail.SmtpPort),
00047                 EnableSsl = Convert.ToBoolean(_sett.Mail.SmtpUseTls),
00048                 DeliveryMethod = SmtpDeliveryMethod.Network,
00049                 UseDefaultCredentials = false,
00050                 Credentials = new NetworkCredential(_sett.Mail.Username, _sett.Mail.Password)
00051             };
00052 
00053             mail.To.Add(model.To);
00054 
00055             await smtp.SendMailAsync(mail);
00056         }
```

References DotNetIdentity.Models.BusinessModels.EmailModel.Body, DotNetIdentity.Models.BusinessModels.EmailModel.Subject, and DotNetIdentity.Models.BusinessModels.EmailModel.To.

6.15 DotNetIdentity.Models.BusinessModels.EmailModel Class Reference

class to define a email

Properties

- string Subject = default! `[get, set]`
  property subject
- string Body = default! `[get, set]`
  property body
- string To = default! `[get, set]`
  property to

6.15.1 Detailed Description

class to define a email

Definition at line 6 of file EmailModel.cs.

6.15.2 Property Documentation

6.15.2.1 Body

```
string DotNetIdentity.Models.BusinessModels.EmailModel.Body = default!  [get], [set]
```

property body

string

Definition at line 17 of file EmailModel.cs.

```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Helpers.EmailHelper.SendAsync().

6.15.2.2 Subject

```
string DotNetIdentity.Models.BusinessModels.EmailModel.Subject = default!  [get], [set]
```

property subject

string

Definition at line 12 of file EmailModel.cs.

```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Helpers.EmailHelper.SendAsync().

6.15.2.3 To

```
string DotNetIdentity.Models.BusinessModels.EmailModel.To = default!  [get], [set]
```

property to

string

Definition at line 22 of file EmailModel.cs.

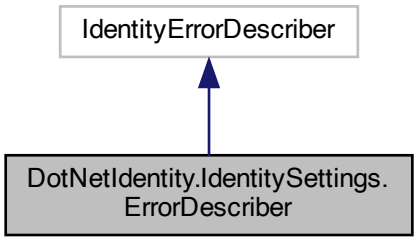
```
00022 { get; set; } = default!;
```

Referenced by DotNetIdentity.Helpers.EmailHelper.SendAsync().

6.16 DotNetIdentity.IdentitySettings.ErrorDescriber Class Reference

class to override IdentityErrorDescriber IdentotyError messages

Inheritance diagram for DotNetIdentity.IdentitySettings.ErrorDescriber:



Static Public Member Functions

- static IdentityError PasswordContainsUsername ()

  custom IdentityError if password contains username
- static IdentityError UserNameLength ()

  custom IdentityError if username length is too short
- static IdentityError UserNameContainsEmail ()

  custom IdentityError if username contains user email

6.16.1 Detailed Description

class to override IdentityErrorDescriber IdentotyError messages

Definition at line 8 of file ErrorDescriber.cs.

6.16.2 Member Function Documentation

6.16.2.1 PasswordContainsUsername()

```
static IdentityError DotNetIdentity.IdentitySettings.ErrorDescriber.PasswordContainsUsername (
) [static]
```

custom IdentityError if password contains username

Returns

IdentityError

Referenced by DotNetIdentity.IdentitySettings.Validators.PasswordValidator.ValidateAsync().

6.16.2.2 UserNameContainsEmail()

```
static IdentityError DotNetIdentity.IdentitySettings.ErrorDescriber.UserNameContainsEmail ( )
[static]
```

custom IdentityError if username contains user email

Returns

IdentityError

Referenced by DotNetIdentity.IdentitySettings.Validators.UserValidator.ValidateAsync().

6.16.2.3 UserNameLength()

```
static IdentityError DotNetIdentity.IdentitySettings.ErrorDescriber.UserNameLength ( ) [static]
```

custom IdentityError if username length is too short

Returns

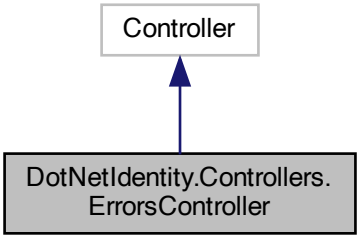
IdentityError

Referenced by DotNetIdentity.IdentitySettings.Validators.UserValidator.ValidateAsync().

6.17 DotNetIdentity.Controllers.ErrorsController Class Reference

Controller for error views

Inheritance diagram for DotNetIdentity.Controllers.ErrorsController:



Public Member Functions

- IActionResult ErrorEx ()
  controller action for ErrorEx view
- IActionResult ErrorCd (int statusCode)
  Controller action for ErrorCd view

6.17.1 Detailed Description

Controller for error views

Todo add translation

Definition at line 17 of file ErrorsController.cs.

6.17.2 Member Function Documentation

6.17.2.1 ErrorCd()

```
IActionResult DotNetIdentity.Controllers.ErrorsController.ErrorCd (
            int statusCode )  [inline]
```

Controller action for ErrorCd view

Parameters

statusCode	

Returns

view ErrorCd

Definition at line 45 of file ErrorsController.cs.

```
00046         {
00047             var statusCodeData = HttpContext.Features.Get<IStatusCodeReExecuteFeature>();
00048             StatusCodesModel md = new StatusCodesModel();
00049             md.StatusCode = statusCode;
00050             md.RouteOfException = statusCodeData!.OriginalPath;
00051 
00052             switch (statusCode)
00053             {
00054                 // request timeout
00055                 case 408:
00056                     md.ErrorMessage = "Timeout. The request timed out..";
00057                     break;
00058                 // badrequest
00059                 case 400:
00060                     md.ErrorMessage = "Badrequest. The request meets not the controllers expetation.";
00061                     break;
00062                 // forbidden
00063                 case 403:
00064                     md.ErrorMessage = "Acess denied!";
00065                     break;
00066                 // unauthorized
00067                 case 401:
00068                     md.ErrorMessage = "You're not authorized to access this resource!";
00069                     break;
00070                 //page not found
00071                 case 404:
00072                     md.ErrorMessage = "Sorry the page you requested could not be found";

00073                     break;
00074                 // server error
00075                 case 500:
00076                     md.ErrorMessage = "Sorry something went wrong on the server";
00077                     break;
00078                 // service unavailable
00079                 case 503:
00080                     md.ErrorMessage = "Sorry, the service is currently unavailable.";
00081                     break;
00082                 default:
00083                     md.ErrorMessage = "Sorry, there was an error.";
00084                     break;
00085             }
00086 
00087             return View("ErrorCd", md);
00088         }
```

6.17.2.2 ErrorEx()

```
IActionResult DotNetIdentity.Controllers.ErrorsController.ErrorEx ( )  [inline]
```

controller action for ErrorEx view

Returns

view ErrorEx

Definition at line 23 of file ErrorsController.cs.

```
00024         {
00025             var exceptionFeature = HttpContext.Features.Get<IExceptionHandlerPathFeature>();
00026 
00027             if (exceptionFeature != null)
00028             {
00029                 if(exceptionFeature.Error.StackTrace!=null) {
00030                     ViewBag.StackTrace = exceptionFeature.Error.StackTrace;
00031                 }
00032                 ViewBag.ErrorMessage = exceptionFeature.Error.Message;
00033                 ViewBag.RouteOfException = exceptionFeature.Path;
00034             }
00035 
00036             return View();
00037         }
```

6.18 DotNetIdentity.Models.ViewModels.ErrorViewModel Class Reference

model for displaying errors

Properties

- string? RequestId `[get, set]`
  the rquest id
- bool ShowRequestId `[get]`
  show the requst id

6.18.1 Detailed Description

model for displaying errors

Definition at line 5 of file ErrorViewModel.cs.

6.18.2 Property Documentation

6.18.2.1 RequestId

`string? DotNetIdentity.Models.ViewModels.ErrorViewModel.RequestId [get], [set]`

the rquest id

string

Definition at line 11 of file ErrorViewModel.cs.

```
00011 { get; set; }
```

6.18.2.2 ShowRequestId

```
bool DotNetIdentity.Models.ViewModels.ErrorViewModel.ShowRequestId  [get]
```

show the requst id

Returns

bool

Definition at line 16 of file ErrorViewModel.cs.

6.19 DotNetIdentity.Models.ViewModels.ForgotPasswordViewModel Class Reference

model for ForgotPassword view

Properties

- string Email = default! `[get, set]`
  the user email

6.19.1 Detailed Description

model for ForgotPassword view

Definition at line 6 of file ForgotPasswordViewModel.cs.

6.19.2 Property Documentation

6.19.2.1 Email

```
string DotNetIdentity.Models.ViewModels.ForgotPasswordViewModel.Email = default!  [get], [set]
```

the user email

string

Definition at line 12 of file ForgotPasswordViewModel.cs.

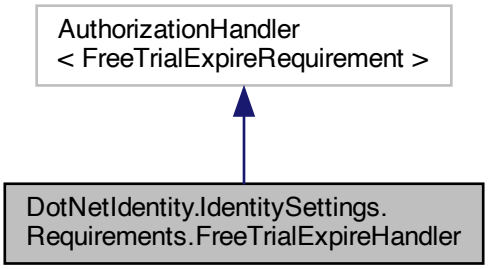
```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.ForgotPassword().

6.20 DotNetIdentity.IdentitySettings.Requirements.FreeTrialExpire↩ Handler Class Reference

class to define own Identity requirements type of FreeTrialExpireRequirement

Inheritance diagram for DotNetIdentity.IdentitySettings.Requirements.FreeTrialExpireHandler:



Protected Member Functions

- override Task HandleRequirementAsync (AuthorizationHandlerContext context, FreeTrialExpireRequirement requirement)

  overriding HandleRequirementAsync

6.20.1 Detailed Description

class to define own Identity requirements type of FreeTrialExpireRequirement

Definition at line 13 of file FreeTrialExpireRequirement.cs.

6.20.2 Member Function Documentation

6.20.2.1 HandleRequirementAsync()

```
override Task DotNetIdentity.IdentitySettings.Requirements.FreeTrialExpireHandler.Handle↩
RequirementAsync (
            AuthorizationHandlerContext context,
            FreeTrialExpireRequirement requirement )  [inline], [protected]
```

overriding HandleRequirementAsync

Parameters

context	AuthorizationHandlerContext
requirement	FreeTrialExpireRequirement

Returns

Task

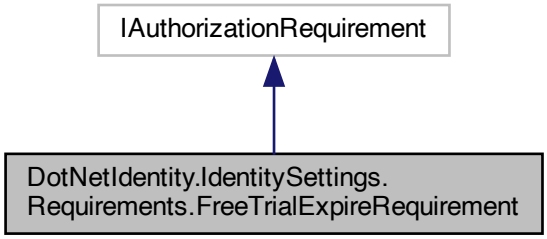
Definition at line 21 of file FreeTrialExpireRequirement.cs.

```
00022         {
00023             var freeTrialClaim = context.User.FindFirst(f => f.Type == "FreeTrial");
00024             if (freeTrialClaim != null)
00025             {
00026                 var freeTrialExpires = Convert.ToDateTime(freeTrialClaim.Value).AddDays(30);
00027                 if (DateTime.Now < freeTrialExpires)
00028                 {
00029                     context.Succeed(requirement);
00030                 }
00031                 else
00032                 {
00033                     context.Fail();
00034                 }
00035             }
00036 
00037             return Task.CompletedTask;
00038         }
```

6.21 DotNetIdentity.IdentitySettings.Requirements.FreeTrialExpireRequirement Class Reference

class to define own Identity requirements type of IAuthorizationRequirement

Inheritance diagram for DotNetIdentity.IdentitySettings.Requirements.FreeTrialExpireRequirement:



6.21.1 Detailed Description

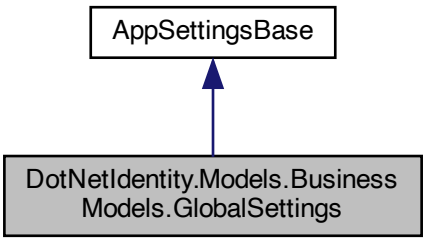
class to define own Identity requirements type of IAuthorizationRequirement

Definition at line 8 of file FreeTrialExpireRequirement.cs.

6.22 DotNetIdentity.Models.BusinessModels.GlobalSettings Class Reference

class to define a global settings object

Inheritance diagram for DotNetIdentity.Models.BusinessModels.GlobalSettings:



Properties

- string? ApplicationName `[get, set]`
  property ApplicationName
- string? SessionTimeoutWarnAfter `[get, set]`
  property SessionTimeoutWarnAfter
- string? SessionTimeoutRedirAfter `[get, set]`
  property SessionTimeoutRedirAfter
- string? SessionCookieExpiration `[get, set]`
  property SessionCookieExpiration

Additional Inherited Members

6.22.1 Detailed Description

class to define a global settings object

Definition at line 7 of file GlobalSettings.cs.

6.22.2 Property Documentation

6.22.2.1 ApplicationName

```
string?  DotNetIdentity.Models.BusinessModels.GlobalSettings.ApplicationName  [get], [set]
```

property ApplicationName

string

Definition at line 12 of file GlobalSettings.cs.

```
00012 {get; set;}
```

6.22.2.2 SessionCookieExpiration

```
string?  DotNetIdentity.Models.BusinessModels.GlobalSettings.SessionCookieExpiration  [get],
[set]
```

property SessionCookieExpiration

string

Definition at line 27 of file GlobalSettings.cs.

```
00027 {get; set;}
```

6.22.2.3 SessionTimeoutRedirAfter

```
string?  DotNetIdentity.Models.BusinessModels.GlobalSettings.SessionTimeoutRedirAfter  [get],
[set]
```

property SessionTimeoutRedirAfter

string

Definition at line 22 of file GlobalSettings.cs.

```
00022 {get; set;}
```

6.22.2.4 SessionTimeoutWarnAfter

```
string?  DotNetIdentity.Models.BusinessModels.GlobalSettings.SessionTimeoutWarnAfter  [get],
[set]
```

property SessionTimeoutWarnAfter

string

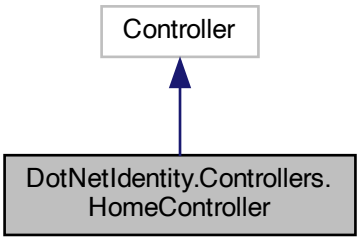
Definition at line 17 of file GlobalSettings.cs.

```
00017 {get; set;}
```

6.23 DotNetIdentity.Controllers.HomeController Class Reference

Controller for Home views

Inheritance diagram for DotNetIdentity.Controllers.HomeController:



Public Member Functions

- HomeController (UserManager< AppUser > userManager)
  Controller constructor
- IActionResult Index ()
  Controller action for view Index
- IActionResult AccessDenied ()
  controller action for view AccessDenied

6.23.1 Detailed Description

Controller for Home views

Definition at line 11 of file HomeController.cs.

6.23.2 Constructor & Destructor Documentation

6.23.2.1 HomeController()

```
DotNetIdentity.Controllers.HomeController.HomeController (
            UserManager< AppUser > userManager )  [inline]
```

Controller constructor

Parameters

userManager	Property UserManager

Definition at line 22 of file HomeController.cs.

```
00023     {
00024         _userManager = userManager;
00025     }
```

6.23.3 Member Function Documentation

6.23.3.1 AccessDenied()

```
IActionResult DotNetIdentity.Controllers.HomeController.AccessDenied ( )
```

controller action for view AccessDenied

Returns

view AccessDenied

6.23.3.2 Index()

```
IActionResult DotNetIdentity.Controllers.HomeController.Index ( )
```

Controller action for view Index

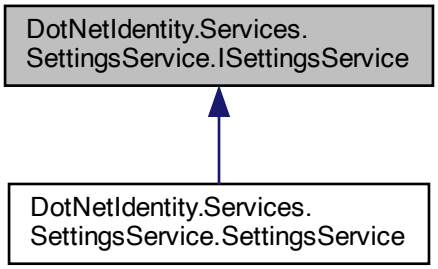
Returns

view Index

6.24 DotNetIdentity.Services.SettingsService.ISettingsService Interface Reference

Interface class for SettingsService

Inheritance diagram for DotNetIdentity.Services.SettingsService.ISettingsService:



Public Member Functions

- void Save ()
  save method

Properties

- GlobalSettings Global [get]
  property global settings
- MailSettings Mail [get]
  property mail settings

6.24.1 Detailed Description

Interface class for SettingsService

Definition at line 7 of file ISettingsService.cs.

6.24.2 Member Function Documentation

6.24.2.1 Save()

```
void DotNetIdentity.Services.SettingsService.ISettingsService.Save ( )
```

save method

Implemented in DotNetIdentity.Services.SettingsService.SettingsService.

6.24.3 Property Documentation

6.24.3.1 Global

```
GlobalSettings DotNetIdentity.Services.SettingsService.ISettingsService.Global [get]
```

property global settings

GlobalSettings

Implemented in DotNetIdentity.Services.SettingsService.SettingsService.

Definition at line 12 of file ISettingsService.cs.

```
00012 { get; }
```

6.24.3.2 Mail

```
MailSettings DotNetIdentity.Services.SettingsService.ISettingsService.Mail  [get]
```

property mail settings

MailSettings

Implemented in DotNetIdentity.Services.SettingsService.SettingsService.

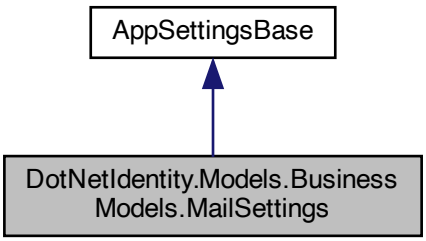
Definition at line 17 of file ISettingsService.cs.

```
00017 { get; }
```

6.25 DotNetIdentity.Models.BusinessModels.MailSettings Class Reference

class to define a ail settings object

Inheritance diagram for DotNetIdentity.Models.BusinessModels.MailSettings:



Properties

- string? Username [get, set]
  property Username
- string? Password [get, set]
  property Password
- string? SmtpServer [get, set]
  property SmtpServer
- string? SmtpPort [get, set]
  property SmtpPort
- string? SmtpFromAddress [get, set]
  property SmtpFromAddress
- bool SmtpUseTls [get, set]
  property SmtpUseTls

Additional Inherited Members

6.25.1 Detailed Description

class to define a ail settings object

Definition at line 7 of file MailSettings.cs.

6.25.2 Property Documentation

6.25.2.1 Password

```
string?  DotNetIdentity.Models.BusinessModels.MailSettings.Password  [get], [set]
```

property Password

string

Definition at line 17 of file MailSettings.cs.

```
00017 { get; set; }
```

6.25.2.2 SmtpFromAddress

```
string?  DotNetIdentity.Models.BusinessModels.MailSettings.SmtpFromAddress  [get], [set]
```

property SmtpFromAddress

string

Definition at line 32 of file MailSettings.cs.

```
00032 {get; set;}
```

6.25.2.3 SmtpPort

```
string?  DotNetIdentity.Models.BusinessModels.MailSettings.SmtpPort  [get], [set]
```

property SmtpPort

string

Definition at line 27 of file MailSettings.cs.

```
00027 { get; set; }
```

6.25.2.4 SmtpServer

```
string?  DotNetIdentity.Models.BusinessModels.MailSettings.SmtpServer  [get], [set]
```

property SmtpServer

string

Definition at line 22 of file MailSettings.cs.

```
00022 { get; set; }
```

6.25.2.5 SmtpUseTls

```
bool DotNetIdentity.Models.BusinessModels.MailSettings.SmtpUseTls  [get], [set]
```

property SmtpUseTls

bool

Definition at line 37 of file MailSettings.cs.

```
00037 { get; set; }
```

6.25.2.6 Username

```
string?  DotNetIdentity.Models.BusinessModels.MailSettings.Username  [get], [set]
```

property Username

string

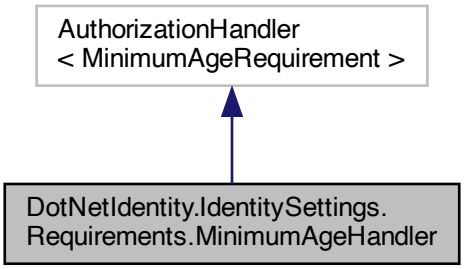
Definition at line 12 of file MailSettings.cs.

```
00012 { get; set; }
```

6.26 DotNetIdentity.IdentitySettings.Requirements.MinimumAgeHandler Class Reference

class implementing AuthorizationHandler of type MinimumAgeRequirement

Inheritance diagram for DotNetIdentity.IdentitySettings.Requirements.MinimumAgeHandler:



Protected Member Functions

- override Task HandleRequirementAsync (AuthorizationHandlerContext context, MinimumAgeRequirement requirement)

  overriding HandleRequirementAsync

6.26.1 Detailed Description

class implementing AuthorizationHandler of type MinimumAgeRequirement

Definition at line 30 of file MinimumAgeRequirement.cs.

6.26.2 Member Function Documentation

6.26.2.1 HandleRequirementAsync()

```
override Task DotNetIdentity.IdentitySettings.Requirements.MinimumAgeHandler.HandleRequirement↩
Async (
            AuthorizationHandlerContext context,
            MinimumAgeRequirement requirement )  [inline], [protected]
```

overriding HandleRequirementAsync

Parameters

context	AuthorizationHandlerContext
requirement	MinimumAgeRequirement

Returns

Task

Definition at line 38 of file MinimumAgeRequirement.cs.

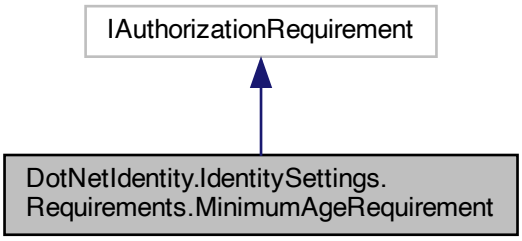
```
00039         {
00040             var birthDayClaim = context.User.FindFirst(f => f.Type == ClaimTypes.DateOfBirth);
00041             if (birthDayClaim != null)
00042             {
00043                 var birthDay = Convert.ToDateTime(birthDayClaim.Value);
00044                 var calculatedAge = DateTime.Now.Year - birthDay.Year;
00045                 if (calculatedAge >= requirement.MinimumAge)
00046                 {
00047                     context.Succeed(requirement);
00048                 }
00049                 else
00050                 {
00051                     context.Fail();
00052                 }
00053             }
00054
00055             return Task.CompletedTask;
00056         }
```

References DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement.MinimumAge.

6.27 DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement Class Reference

class to define own Identity requirements type of IAuthorizationRequirement

Inheritance diagram for DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement:



Public Member Functions

- MinimumAgeRequirement (int minimumAge)
  class constructor

Properties

- int MinimumAge `[get, set]`
  property MinimumAge

6.27.1 Detailed Description

class to define own Identity requirements type of IAuthorizationRequirement

Definition at line 9 of file MinimumAgeRequirement.cs.

6.27.2 Constructor & Destructor Documentation

6.27.2.1 MinimumAgeRequirement()

```
DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement.MinimumAgeRequirement (
            int minimumAge ) [inline]
```

class constructor

Parameters

minimumAge	

Definition at line 15 of file MinimumAgeRequirement.cs.

```
00016         {
00017             MinimumAge = minimumAge;
00018         }
```

References DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement.MinimumAge.

6.27.3 Property Documentation

6.27.3.1 MinimumAge

```
int DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement.MinimumAge  [get], [set]
```

property MinimumAge

Definition at line 24 of file MinimumAgeRequirement.cs.

```
00024 { get; set; }
```

Referenced by DotNetIdentity.IdentitySettings.Requirements.MinimumAgeHandler.HandleRequirementAsync(), and DotNetIdentity.IdentitySettings.Requirements.MinimumAgeRequirement.MinimumAgeRequirement().

6.28 DotNetIdentity.Models.ViewModels.NewUserModel Class Reference

model for NewUser view

Properties

- string UserName = default! `[get, set]`
  the username
- string Email = default! `[get, set]`
  the users email address
- Gender Gender = Gender.Unknown `[get, set]`
  the gender
- Department Department = Department.Software `[get, set]`
  the department
- List< AssignRoleViewModel > Roles = new() `[get, set]`
  the roles assigned
- string FirstName = string.Empty `[get, set]`
  the firstname
- string LastName = string.Empty `[get, set]`
  the lastname
- bool IsLdapLogin `[get, set]`
  if user is ldap login
- bool IsMfaForce `[get, set]`
  is 2fa enforced
- string Password = string.Empty `[get, set]`
  the password

6.28.1 Detailed Description

model for NewUser view

Definition at line 9 of file NewUserModel.cs.

6.28.2 Property Documentation

6.28.2.1 Department

```
Department DotNetIdentity.Models.ViewModels.NewUserModel.Department = Department.Software
[get], [set]
```

the department

Department

Definition at line 30 of file NewUserModel.cs.
```
00030 { get; set; } = Department.Software;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.2 Email

```
string DotNetIdentity.Models.ViewModels.NewUserModel.Email = default!  [get], [set]
```

the users email address

string

Definition at line 20 of file NewUserModel.cs.
```
00020 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.3 FirstName

```
string DotNetIdentity.Models.ViewModels.NewUserModel.FirstName = string.Empty  [get], [set]
```

the firstname

string

Definition at line 40 of file NewUserModel.cs.
```
00040 { get; set; } = string.Empty;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.4 Gender

```
Gender DotNetIdentity.Models.ViewModels.NewUserModel.Gender = Gender.Unknown  [get], [set]
```

the gender

Gender

Definition at line 25 of file NewUserModel.cs.

```
00025 { get; set; } = Gender.Unknown;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.5 IsLdapLogin

```
bool DotNetIdentity.Models.ViewModels.NewUserModel.IsLdapLogin  [get], [set]
```

if user is ldap login

bool

Definition at line 50 of file NewUserModel.cs.

```
00050 { get; set; }
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.6 IsMfaForce

```
bool DotNetIdentity.Models.ViewModels.NewUserModel.IsMfaForce  [get], [set]
```

is 2fa enforced

bool

Definition at line 55 of file NewUserModel.cs.

```
00055 { get; set; }
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.7 LastName

```
string DotNetIdentity.Models.ViewModels.NewUserModel.LastName = string.Empty  [get], [set]
```

the lastname

string

Definition at line 45 of file NewUserModel.cs.

```
00045 { get; set; } = string.Empty;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.8 Password

```
string DotNetIdentity.Models.ViewModels.NewUserModel.Password = string.Empty  [get], [set]
```

the password

string

Definition at line 60 of file NewUserModel.cs.

```
00060 { get; set; } = string.Empty;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.9 Roles

```
List<AssignRoleViewModel> DotNetIdentity.Models.ViewModels.NewUserModel.Roles = new()  [get],
[set]
```

the roles assigned

Returns

List of type AppRole

Definition at line 35 of file NewUserModel.cs.

```
00035 { get; set; } = new();
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.28.2.10 UserName

```
string DotNetIdentity.Models.ViewModels.NewUserModel.UserName = default!  [get], [set]
```

the username

string

Definition at line 15 of file NewUserModel.cs.

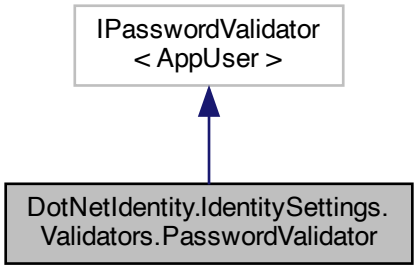
```
00015 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.NewUser().

6.29 DotNetIdentity.IdentitySettings.Validators.PasswordValidator Class Reference

class to validate a password

Inheritance diagram for DotNetIdentity.IdentitySettings.Validators.PasswordValidator:



Public Member Functions

- Task< IdentityResult > ValidateAsync (UserManager< AppUser > manager, AppUser user, string password)
  Task to validate a password

6.29.1 Detailed Description

class to validate a password

Definition at line 9 of file PasswordValidator.cs.

6.29.2 Member Function Documentation

6.29.2.1 ValidateAsync()

```
Task< IdentityResult > DotNetIdentity.IdentitySettings.Validators.PasswordValidator.Validate↩
Async (
            UserManager< AppUser > manager,
            AppUser user,
            string password )  [inline]
```

Task to validate a password

Parameters

manager	UserManager
user	AppUser
password	string

Returns

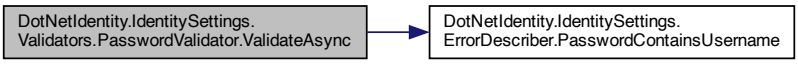
Task of type IdentityResult

Definition at line 18 of file PasswordValidator.cs.

```
00019         {
00020             var errors = new List<IdentityError>();
00021
00022             if (user.UserName == password)
00023             {
00024                 errors.Add(ErrorDescriber.PasswordContainsUsername());
00025             }
00026
00027             if (errors.Any())
00028             {
00029                 return Task.FromResult(IdentityResult.Failed(errors.ToArray()));
00030             }
00031             return Task.FromResult(IdentityResult.Success);
00032         }
```

References DotNetIdentity.IdentitySettings.ErrorDescriber.PasswordContainsUsername().

Here is the call graph for this function:



6.30 DotNetIdentity.Models.ViewModels.ResetPasswordViewModel Class Reference

model for ResetPassword view

Properties

- string UserId = default! `[get, set]`

  the user id
- string Token = default! `[get, set]`

  the reset token
- string Password = default! `[get, set]`

  the password

6.30.1 Detailed Description

model for ResetPassword view

Definition at line 6 of file ResetPasswordViewModel.cs.

6.30.2 Property Documentation

6.30.2.1 Password

```
string DotNetIdentity.Models.ViewModels.ResetPasswordViewModel.Password = default!  [get],
[set]
```

the password

string

Definition at line 22 of file ResetPasswordViewModel.cs.

```
00022 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.ResetPassword().

6.30.2.2 Token

```
string DotNetIdentity.Models.ViewModels.ResetPasswordViewModel.Token = default!  [get], [set]
```

the reset token

string

Definition at line 17 of file ResetPasswordViewModel.cs.

```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.ResetPassword().

6.30.2.3 UserId

```
string DotNetIdentity.Models.ViewModels.ResetPasswordViewModel.UserId = default!  [get], [set]
```

the user id

string

Definition at line 12 of file ResetPasswordViewModel.cs.

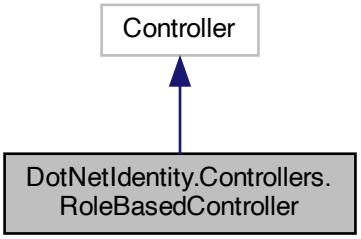
```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.ResetPassword().

6.31 DotNetIdentity.Controllers.RoleBasedController Class Reference

Controller to test RoleBased Authorization

Inheritance diagram for DotNetIdentity.Controllers.RoleBasedController:



Public Member Functions

- IActionResult Dashboard ()

  Controller Action for Dashboard view
- IActionResult Users ()

  Controller Action for Users view
- IActionResult Articles ()

  Controller Action for Articles view
- IActionResult Profile ()

  Controller Action for Profile view

6.31.1 Detailed Description

Controller to test RoleBased Authorization

Definition at line 9 of file RoleBasedController.cs.

6.31.2 Member Function Documentation

6.31.2.1 Articles()

```
IActionResult DotNetIdentity.Controllers.RoleBasedController.Articles ( )
```

Controller Action for Articles view

Returns

6.31.2.2 Dashboard()

```
IActionResult DotNetIdentity.Controllers.RoleBasedController.Dashboard ( )
```

Controller Action for Dashboard view

Returns

6.31.2.3 Profile()

```
IActionResult DotNetIdentity.Controllers.RoleBasedController.Profile ( )
```

Controller Action for Profile view

Returns

6.31.2.4 Users()

```
IActionResult DotNetIdentity.Controllers.RoleBasedController.Users ( )
```

Controller Action for Users view

Returns

6.32 DotNetIdentity.Models.DataModels.SessionCache Class Reference

class to define a SessionCache object

Properties

- string? id `[get, set]`
  proerty id
- byte?[] Value `[get, set]`
  property value
- DateTime ExpiresAtTime `[get, set]`
  property ExpiresAtTime
- int SlidingExpirationInSeconds `[get, set]`
  property SlidingExpirationInSeconds
- DateTime? AbsoluteExpiration `[get, set]`
  property AbsoluteExpiration

6.32.1 Detailed Description

class to define a SessionCache object

Definition at line 11 of file SessionCache.cs.

6.32.2 Property Documentation

6.32.2.1 AbsoluteExpiration

```
DateTime?  DotNetIdentity.Models.DataModels.SessionCache.AbsoluteExpiration  [get], [set]
```

property AbsoluteExpiration

DateTime

Definition at line 37 of file SessionCache.cs.

```
00037 {get; set;}
```

6.32.2.2 ExpiresAtTime

```
DateTime DotNetIdentity.Models.DataModels.SessionCache.ExpiresAtTime  [get], [set]
```

property ExpiresAtTime

DateTime

Definition at line 27 of file SessionCache.cs.

```
00027 {get; set;}
```

6.32.2.3 id

```
string?  DotNetIdentity.Models.DataModels.SessionCache.id  [get], [set]
```

proerty id

int

Definition at line 17 of file SessionCache.cs.

```
00017 {get;set;}
```

6.32.2.4 SlidingExpirationInSeconds

```
int DotNetIdentity.Models.DataModels.SessionCache.SlidingExpirationInSeconds  [get], [set]
```

property SlidingExpirationInSeconds

int

Definition at line 32 of file SessionCache.cs.

```
00032 {get; set;}
```

6.32.2.5 Value

```
byte?  [] DotNetIdentity.Models.DataModels.SessionCache.Value  [get], [set]
```

property value

byte[]

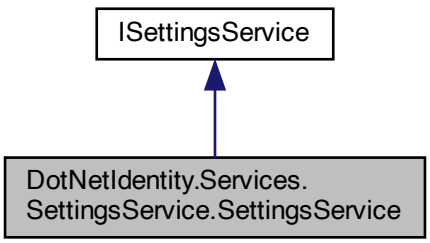
Definition at line 22 of file SessionCache.cs.

```
00022 {get;set;}
```

6.33 DotNetIdentity.Services.SettingsService.SettingsService Class Reference

class for settings service

Inheritance diagram for DotNetIdentity.Services.SettingsService.SettingsService:



Public Member Functions

- SettingsService (AppDbContext unitOfWork)

  class constructor
- void Save ()

  sve method

Properties

- GlobalSettings Global [get]

  global settings property
- MailSettings Mail [get]

  mail settzings property

6.33.1 Detailed Description

class for settings service

Todo add ldap settings class

Definition at line 9 of file SettingsService.cs.

6.33.2 Constructor & Destructor Documentation

6.33.2.1 SettingsService()

```
DotNetIdentity.Services.SettingsService.SettingsService.SettingsService (
            AppDbContext unitOfWork )  [inline]
```

class constructor

Parameters

unitOfWork	

Definition at line 37 of file SettingsService.cs.

```
00038     {
00039         // ARGUMENT CHECKING SKIPPED FOR BREVITY
00040         _unitOfWork = unitOfWork;
00041         // 3
00042         _globalSettings = new Lazy<GlobalSettings>(CreateSettings<GlobalSettings>);
00043         _mailSettings = new Lazy<MailSettings>(CreateSettings<MailSettings>);
00044     }
```

6.33.3 Member Function Documentation

6.33.3.1 Save()

```
void DotNetIdentity.Services.SettingsService.SettingsService.Save ( )  [inline]
```

sve method

Implements DotNetIdentity.Services.SettingsService.ISettingsService.

Definition at line 49 of file SettingsService.cs.

```
00050     {
00051         // only save changes to settings that have been loaded
00052         if (_globalSettings.IsValueCreated)
00053             _globalSettings.Value.Save(_unitOfWork);
00054 
00055         if (_mailSettings.IsValueCreated)
00056             _mailSettings.Value.Save(_unitOfWork);
00057 
00058         _unitOfWork.SaveChanges();
00059     }
```

6.33.4 Property Documentation

6.33.4.1 Global

```
GlobalSettings DotNetIdentity.Services.SettingsService.SettingsService.Global  [get]
```

global settings property

Implements DotNetIdentity.Services.SettingsService.ISettingsService.

Definition at line 18 of file SettingsService.cs.

```
00018 { get { return _globalSettings.Value; } }
```

6.33.4.2 Mail

```
MailSettings DotNetIdentity.Services.SettingsService.SettingsService.Mail  [get]
```

mail settzings property

Implements DotNetIdentity.Services.SettingsService.ISettingsService.

Definition at line 27 of file SettingsService.cs.

```
00027 { get { return _mailSettings.Value; } }
```

6.34 DotNetIdentity.Models.ViewModels.SignInViewModel Class Reference

model for Login view

Properties

- string UserName = string.Empty [get, set]

  the username
- string Password = default! [get, set]

  the password
- bool RememberMe = true [get, set]

  the set cookie persisten option

6.34.1 Detailed Description

model for Login view

Definition at line 6 of file SignInViewModel.cs.

6.34.2 Property Documentation

6.34.2.1 Password

```
string DotNetIdentity.Models.ViewModels.SignInViewModel.Password = default! [get], [set]
```

the password

string

Definition at line 17 of file SignInViewModel.cs.

```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Login().

6.34.2.2 RememberMe

```
bool DotNetIdentity.Models.ViewModels.SignInViewModel.RememberMe = true [get], [set]
```

the set cookie persisten option

bool

Definition at line 22 of file SignInViewModel.cs.

```
00022 { get; set; } = true;
```

Referenced by DotNetIdentity.Controllers.UserController.Login().

6.34.2.3 UserName

```
string DotNetIdentity.Models.ViewModels.SignInViewModel.UserName = string.Empty  [get], [set]
```

the username

string

Definition at line 12 of file SignInViewModel.cs.

```
00012 {get; set;} = string.Empty;
```

Referenced by DotNetIdentity.Controllers.UserController.Login().

6.35 DotNetIdentity.Models.ViewModels.SignUpViewModel Class Reference

model for Register view

Properties

- string UserName = default! `[get, set]`
  the username
- string Email = default! `[get, set]`
  the email
- Gender Gender = Gender.Unknown `[get, set]`
  the gender
- DateTime BirthDay `[get, set]`
  the birthday
- Department Department = Department.Software `[get, set]`
  the department
- string Password = default! `[get, set]`
  the password
- string FirstName = string.Empty `[get, set]`
  the firstname
- string LastName = string.Empty `[get, set]`
  the lastname

6.35.1 Detailed Description

model for Register view

Definition at line 6 of file SignUpViewModel.cs.

6.35.2 Property Documentation

6.35.2.1 BirthDay

```
DateTime DotNetIdentity.Models.ViewModels.SignUpViewModel.BirthDay  [get], [set]
```

the birthday

DateTime

Definition at line 27 of file SignUpViewModel.cs.

```
00027 { get; set; }
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.2 Department

```
Department DotNetIdentity.Models.ViewModels.SignUpViewModel.Department = Department.Software
[get], [set]
```

the department

Department

Definition at line 32 of file SignUpViewModel.cs.

```
00032 { get; set; } = Department.Software;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.3 Email

```
string DotNetIdentity.Models.ViewModels.SignUpViewModel.Email = default!  [get], [set]
```

the email

string

Definition at line 17 of file SignUpViewModel.cs.

```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.4 FirstName

```
string DotNetIdentity.Models.ViewModels.SignUpViewModel.FirstName = string.Empty  [get], [set]
```

the firstname

string

Definition at line 42 of file SignUpViewModel.cs.

```
00042 {get; set;} = string.Empty;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.5 Gender

```
Gender DotNetIdentity.Models.ViewModels.SignUpViewModel.Gender = Gender.Unknown  [get], [set]
```

the gender

Gender

Definition at line 22 of file SignUpViewModel.cs.

```
00022 { get; set; } = Gender.Unknown;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.6 LastName

```
string DotNetIdentity.Models.ViewModels.SignUpViewModel.LastName = string.Empty  [get], [set]
```

the lastname

string

Definition at line 47 of file SignUpViewModel.cs.

```
00047 {get; set;} = string.Empty;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.7 Password

```
string DotNetIdentity.Models.ViewModels.SignUpViewModel.Password = default!  [get], [set]
```

the password

string

Definition at line 37 of file SignUpViewModel.cs.

```
00037 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.35.2.8 UserName

```
string DotNetIdentity.Models.ViewModels.SignUpViewModel.UserName = default!  [get], [set]
```

the username

string

Definition at line 12 of file SignUpViewModel.cs.

```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Register().

6.36 DotNetIdentity.Models.ViewModels.StatusCodesModel Class Reference

model for Error Statuscodes

Properties

- int StatusCode `[get, set]`
  the status code
- string? ErrorMessage `[get, set]`
  the error message
- string? RouteOfException `[get, set]`
  the route that thowed the exception

6.36.1 Detailed Description

model for Error Statuscodes

Definition at line 5 of file StatusCodesModel.cs.

6.36.2 Property Documentation

6.36.2.1 ErrorMessage

```
string?  DotNetIdentity.Models.ViewModels.StatusCodesModel.ErrorMessage  [get], [set]
```

the error message

string

Definition at line 15 of file StatusCodesModel.cs.

```
00015 {get; set;}
```

6.36.2.2 RouteOfException

```
string?  DotNetIdentity.Models.ViewModels.StatusCodesModel.RouteOfException  [get], [set]
```

the route that thowed the exception

string

Definition at line 20 of file StatusCodesModel.cs.

```
00020 {get; set;}
```

6.36.2.3 StatusCode

```
int DotNetIdentity.Models.ViewModels.StatusCodesModel.StatusCode  [get], [set]
```

the status code

int

Definition at line 10 of file StatusCodesModel.cs.

```
00010 {get; set;}
```

6.37 DotNetIdentity.IdentitySettings.TwoFactorAuthenticationService Class Reference

class providing 2fa auth services

Public Member Functions

- TwoFactorAuthenticationService (IConfiguration cnf, UrlEncoder urlEncoder, ISettingsService sett)
  class constructor
- string GenerateQrCodeUri (string email, string authenticatorKey)
  method to generate a barcode for 2fa configuration

6.37.1 Detailed Description

class providing 2fa auth services

Definition at line 8 of file TwoFactorAuthenticationService.cs.

6.37.2 Constructor & Destructor Documentation

6.37.2.1 TwoFactorAuthenticationService()

```
DotNetIdentity.IdentitySettings.TwoFactorAuthenticationService.TwoFactorAuthenticationService
(
            IConfiguration cnf,
            UrlEncoder urlEncoder,
            ISettingsService sett )  [inline]
```

class constructor

Parameters

cnf	IConfiguration
urlEncoder	UrlEncoder
sett	ISettingsService

Definition at line 29 of file TwoFactorAuthenticationService.cs.

```
00030         {
00031             _urlEncoder = urlEncoder;
00032             _configuration = cnf;
00033             _sett = sett;
00034         }
```

6.37.3 Member Function Documentation

6.37.3.1 GenerateQrCodeUri()

```
string DotNetIdentity.IdentitySettings.TwoFactorAuthenticationService.GenerateQrCodeUri (
            string email,
            string authenticatorKey )  [inline]
```

method to generate a barcode for 2fa configuration

Parameters

email	string
authenticatorKey	string

Returns

string

Definition at line 42 of file TwoFactorAuthenticationService.cs.

```
00043         {
00044             var encodedUrl = _urlEncoder.Encode(_sett.Global.ApplicationName!);
00045             var encodedEmail = _urlEncoder.Encode(email);
00046 
00047             return
      $"otpauth://totp/{encodedUrl}:{encodedEmail}?secret={authenticatorKey}&issuer={encodedUrl}&digits=6";
00048         }
```

6.38 DotNetIdentity.Models.ViewModels.TwoFactorAuthenticatorView↩ Model Class Reference

model for TwoFactorAuthenticator view

Properties

- string SharedKey = default! `[get, set]`

  the shared key
- string AuthenticationUri = default! `[get, set]`

  the auth uri
- string VerificationCode = default! `[get, set]`

  the otp code

6.38.1 Detailed Description

model for TwoFactorAuthenticator view

Definition at line 6 of file TwoFactorAuthenticatorViewModel.cs.

6.38.2 Property Documentation

6.38.2.1 AuthenticationUri

```
string DotNetIdentity.Models.ViewModels.TwoFactorAuthenticatorViewModel.AuthenticationUri =
default!  [get], [set]
```

the auth uri

string

Definition at line 17 of file TwoFactorAuthenticatorViewModel.cs.

```
00017 { get; set; } = default!;
```

6.38.2.2 SharedKey

```
string DotNetIdentity.Models.ViewModels.TwoFactorAuthenticatorViewModel.SharedKey = default!
[get], [set]
```

the shared key

string

Definition at line 12 of file TwoFactorAuthenticatorViewModel.cs.

```
00012 { get; set; } = default!;
```

6.38.2.3 VerificationCode

```
string DotNetIdentity.Models.ViewModels.TwoFactorAuthenticatorViewModel.VerificationCode =
default!  [get], [set]
```

the otp code

string

Definition at line 22 of file TwoFactorAuthenticatorViewModel.cs.

```
00022 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.EnforceTwoFactorAuthenticator(), and DotNetIdentity.Controllers.UserContro

6.39 DotNetIdentity.Models.ViewModels.TwoFactorLoginVieWModel Class Reference

the model for TwoFactorLogin view

Properties

- string VerificationCode = default! `[get, set]`
  the otp code
- bool IsRecoveryCode `[get, set]`
  bool if otp code is a recovery code
- TwoFactorType TwoFactorType `[get, set]`
  the type of 2fa

6.39.1 Detailed Description

the model for TwoFactorLogin view

Definition at line 6 of file TwoFactorLoginVieWModel.cs.

6.39.2 Property Documentation

6.39.2.1 IsRecoveryCode

```
bool DotNetIdentity.Models.ViewModels.TwoFactorLoginVieWModel.IsRecoveryCode [get], [set]
```

bool if otp code is a recovery code

bool

Definition at line 17 of file TwoFactorLoginVieWModel.cs.

```
00017 { get; set; }
```

6.39.2.2 TwoFactorType

```
TwoFactorType DotNetIdentity.Models.ViewModels.TwoFactorLoginVieWModel.TwoFactorType [get],
[set]
```

the type of 2fa

TwoFactorType

Definition at line 22 of file TwoFactorLoginVieWModel.cs.

```
00022 { get; set; }
```

Referenced by DotNetIdentity.Controllers.UserController.TwoFactorLogin().

6.39.2.3 VerificationCode

```
string DotNetIdentity.Models.ViewModels.TwoFactorLoginVieWModel.VerificationCode = default!
[get], [set]
```

the otp code

string

Definition at line 12 of file TwoFactorLoginVieWModel.cs.

```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.TwoFactorLogin().

6.40 DotNetIdentity.Models.ViewModels.TwoFactorTypeViewModel Class Reference

model for TwoFactorType view

Properties

- TwoFactorType TwoFactorType `[get, set]`
  the 2fa type

6.40.1 Detailed Description

model for TwoFactorType view

Definition at line 6 of file TwoFactorTypeViewModel.cs.

6.40.2 Property Documentation

6.40.2.1 TwoFactorType

```
TwoFactorType DotNetIdentity.Models.ViewModels.TwoFactorTypeViewModel.TwoFactorType [get],
[set]
```

the 2fa type

TwoFactorType

Definition at line 12 of file TwoFactorTypeViewModel.cs.

```
00012 { get; set; }
```

Referenced by DotNetIdentity.Controllers.UserController.TwoFactorType().

6.41 DotNetIdentity.Models.ViewModels.UpdateProfileViewModel Class Reference

model for UpdateProfile view

Properties

- string UserName = default! `[get, set]`
  the username
- string Email = default! `[get, set]`
  the email
- string PhoneNumber = default! `[get, set]`
  the phone number
- Gender Gender `[get, set]`
  the gender
- DateTime BirthDay `[get, set]`
  the birthday
- IFormFile? ProfilePicture `[get, set]`
  the profile picture

6.41.1 Detailed Description

model for UpdateProfile view

Definition at line 6 of file UpdateProfileViewModel.cs.

6.41.2 Property Documentation

6.41.2.1 BirthDay

```
DateTime DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.BirthDay [get], [set]
```

the birthday

DateTime

Definition at line 32 of file UpdateProfileViewModel.cs.

```
00032 { get; set; }
```

Referenced by DotNetIdentity.Controllers.UserController.Profile().

6.41.2.2 Email

```
string DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.Email = default!  [get], [set]
```

the email

string

Definition at line 17 of file UpdateProfileViewModel.cs.

```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Profile().

6.41.2.3 Gender

```
Gender DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.Gender  [get], [set]
```

the gender

Gender

Definition at line 27 of file UpdateProfileViewModel.cs.

```
00027 { get; set; }
```

Referenced by DotNetIdentity.Controllers.UserController.Profile().

6.41.2.4 PhoneNumber

```
string DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.PhoneNumber = default!  [get],
[set]
```

the phone number

string

Definition at line 22 of file UpdateProfileViewModel.cs.

```
00022 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Profile().

6.41.2.5 ProfilePicture

```
IFormFile?  DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.ProfilePicture  [get],
[set]
```

the profile picture

IFormFile

Definition at line 37 of file UpdateProfileViewModel.cs.

```
00037 { get; set; }
```

Referenced by DotNetIdentity.Controllers.UserController.Profile().

6.41.2.6 UserName

```
string DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.UserName = default!  [get],
[set]
```

the username

string

Definition at line 12 of file UpdateProfileViewModel.cs.

```
00012 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.UserController.Profile().

6.42 DotNetIdentity.Models.ViewModels.UpsertRoleViewModel Class Reference

model for the UpsertRole view

Properties

- string? Id [get, set]
  the role id
- string Name = default! [get, set]
  the role name

6.42.1 Detailed Description

model for the UpsertRole view

Definition at line 6 of file UpsertRoleViewModel.cs.

6.42.2 Property Documentation

6.42.2.1 Id

```
string?  DotNetIdentity.Models.ViewModels.UpsertRoleViewModel.Id  [get], [set]
```

the role id

string

Definition at line 12 of file UpsertRoleViewModel.cs.

```
00012 { get; set; }
```

Referenced by DotNetIdentity.Controllers.AdminController.UpsertRole().

6.42.2.2 Name

```
string DotNetIdentity.Models.ViewModels.UpsertRoleViewModel.Name = default!  [get], [set]
```

the role name

string

Definition at line 17 of file UpsertRoleViewModel.cs.

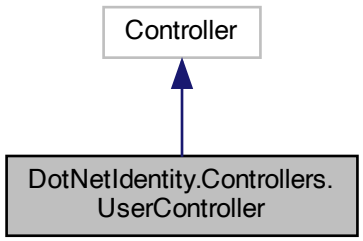
```
00017 { get; set; } = default!;
```

Referenced by DotNetIdentity.Controllers.AdminController.UpsertRole().

6.43 DotNetIdentity.Controllers.UserController Class Reference

Controller Class for User views

Inheritance diagram for DotNetIdentity.Controllers.UserController:



Public Member Functions

- UserController (IStringLocalizer< UserController > localizer, ILogger< UserController > log, IWebHost↩ Environment webhostEnviroment, UserManager< AppUser > userManager, SignInManager< AppUser > signInManager, TwoFactorAuthenticationService twoFactorAuthService, EmailHelper emailHelper)

  Controller constructor
- IActionResult Register ()

  Controller action for Register view
- IActionResult debugUserInfo ()

  Controller action for DebugUserInfo view
- IActionResult ping ()

  Controller action for Ping view
- async Task< IActionResult > Register (SignUpViewModel viewModel)

  Controller POST method for Register view
- async Task< IActionResult > Login (string? returnUrl)

  Controller action for Login view
- async Task< IActionResult > Login (SignInViewModel viewModel)

Controller POST method for Login view

- async Task< IActionResult > TwoFactorLogin (string? returnUrl)

  Controller action for view TwoFactorLogin
- async Task< IActionResult > TwoFactorLogin (TwoFactorLoginVieWModel vieWModel)

  controller POST method for TwoFactorLogin view
- async Task Logout ()

  controller action for Logout
- async Task< IActionResult > Profile ()

  controller action for Profile view
- async Task< IActionResult > Profile (UpdateProfileViewModel viewModel)

  controller POST methood for Profile view
- IActionResult ChangePassword ()

  controller action for ChangePassword view
- async Task< IActionResult > ChangePassword (ChangePasswordViewModel viewModel)

  controller POST method for ChangePassword view
- IActionResult ForgotPassword ()

  controller action for ForgotPassword view
- async Task< IActionResult > ForgotPassword (ForgotPasswordViewModel viewModel)

  controller POST method for ForgotPassword view
- IActionResult ResetPassword (string userId, string token)

  controller action for ResetPassword view
- async Task< IActionResult > ResetPassword (ResetPasswordViewModel viewModel)

  controller POST method for ResetPassword view
- async Task< IActionResult > ConfirmEmail (string userId, string token)

  controller action for ConfirmEmail view
- async Task< IActionResult > TwoFactorType ()

  controller action for view TwiFactorType
- async Task< IActionResult > TwoFactorType (TwoFactorTypeViewModel viewModel)

  controller POST method for view TwoFactorType
- async Task< IActionResult > EnforceTwoFactorAuthenticator ()

  controller action for view EnforceTwoFactorAuthenticator
- async Task< IActionResult > EnforceTwoFactorAuthenticator (TwoFactorAuthenticatorViewModel viewModel)

  controller POST method for view EnforceTwoFactorAuthenticator
- async Task< IActionResult > EnforceTwoFactorResult ()

  controller action for view EnforceTwoFactorResult
- async Task< IActionResult > TwoFactorAuthenticator ()

  controller action for view TwoFActorAuthenticator
- async Task< IActionResult > TwoFactorAuthenticator (TwoFactorAuthenticatorViewModel viewModel)

  controller POST method for view TwoFActorAuthenticator

6.43.1 Detailed Description

Controller Class for User views

Todo add translation

Definition at line 20 of file UserController.cs.

6.43.2 Constructor & Destructor Documentation

6.43.2.1 UserController()

```
DotNetIdentity.Controllers.UserController.UserController (
            IStringLocalizer< UserController > localizer,
            ILogger< UserController > log,
            IWebHostEnvironment webhostEnviroment,
            UserManager< AppUser > userManager,
            SignInManager< AppUser > signInManager,
            TwoFactorAuthenticationService twoFactorAuthService,
            EmailHelper emailHelper )  [inline]
```

Controller constructor

Parameters

localizer	type IStringLocalizer
log	type ILogger
webhostEnviroment	type IwebHostEnviroment
userManager	type UserManager
signInManager	type SIgnInManager
twoFactorAuthService	type TwoFactorAuthService
emailHelper	työe EmailHelper

Definition at line 61 of file UserController.cs.

```
00062         {
00063             _userManager = userManager;
00064             _signInManager = signInManager;
00065             _emailHelper = emailHelper;
00066             _twoFactorAuthService = twoFactorAuthService;
00067             _hostEnvironment = webhostEnviroment;
00068             _logger = log;
00069             _localizer = localizer;
00070         }
```

6.43.3 Member Function Documentation

6.43.3.1 ChangePassword() [1/2]

```
IActionResult DotNetIdentity.Controllers.UserController.ChangePassword ( )
```

controller action for ChangePassword view

Returns

view ChangePassword

6.43.3.2 ChangePassword() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.ChangePassword (
            ChangePasswordViewModel viewModel )  [inline]
```

controller POST method for ChangePassword view

Parameters

viewModel	ChangePasswordViewModel

Returns

redirect to action Index

Definition at line 410 of file UserController.cs.

```
00411         {
00412             if (ModelState.IsValid)
00413             {
00414                 var me = await _userManager.FindByNameAsync(User.Identity?.Name);
00415 
00416                 var passwordValid = await _userManager.CheckPasswordAsync(me, viewModel.Password);
00417                 if (passwordValid)
00418                 {
00419                     var result = await _userManager.ChangePasswordAsync(me, viewModel.Password,
      viewModel.NewPassword);
00420                     if (result.Succeeded)
00421                     {
00422                         await _userManager.UpdateSecurityStampAsync(me);
00423 
00424                         await _signInManager.SignOutAsync();
00425                         await _signInManager.SignInAsync(me, true);
00426                         _logger.LogInformation("AUDIT: " + me.UserName + " successfully changed own
      password!");
00427 
00428                         return RedirectToAction("Index", "Admin");
00429                     }
00430                     _logger.LogWarning("AUDIT: " + me.UserName + "tried to change password. Error: " +
      result.Errors.FirstOrDefault()!.ToString());
00431                     result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00432                 }
00433                 else
00434                 {
00435                     _logger.LogWarning("AUDIT: " + me.UserName + " tried to change password. But
      provided invalid current pasword!");
00436                     ModelState.AddModelError(string.Empty, _localizer["8"]);
00437                 }
00438             }
00439 
00440             return View();
00441         }
```

References DotNetIdentity.Models.ViewModels.ChangePasswordViewModel.NewPassword, and DotNetIdentity.Models.ViewModels.C

6.43.3.3 ConfirmEmail()

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.ConfirmEmail (
            string userId,
            string token )  [inline]
```

controller action for ConfirmEmail view

Parameters

user↩ Id	the user id
token	the confirmation token

Returns

redirect to action Index

Definition at line 546 of file UserController.cs.

```
00547         {
00548             var user = await _userManager.FindByIdAsync(userId);
00549             if (user != null)
00550             {
00551                 var result = await _userManager.ConfirmEmailAsync(user, token);
00552                 if (result.Succeeded)
00553                 {
00554                     _logger.LogInformation("AUDIT: " + user.UserName + " successfully confirmed email
      addres!");
00555                     return RedirectToAction("Login");
00556                 }
00557             }
00558             return RedirectToAction("Index", "Home");
00559         }
```

6.43.3.4 debugUserInfo()

```
IActionResult DotNetIdentity.Controllers.UserController.debugUserInfo ( )
```

Controller action for DebugUserInfo view

Returns

view DebugUserInfo

6.43.3.5 EnforceTwoFactorAuthenticator() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.EnforceTwoFactorAuthenticator
( )  [inline]
```

controller action for view EnforceTwoFactorAuthenticator

Returns

view EnforceTwoFactorAuthenticator

Definition at line 603 of file UserController.cs.

```
00604         {
00605             var user = await _userManager.FindByNameAsync(User.Identity?.Name);
00606             user.TwoFactorType = Models.TwoFactorType.Authenticator;
00607             await _userManager.UpdateAsync(user);
00608 
00609             var authenticatorKey = await _userManager.GetAuthenticatorKeyAsync(user);
00610             if (authenticatorKey == null)
00611             {
00612                 await _userManager.ResetAuthenticatorKeyAsync(user);
00613                 authenticatorKey = await _userManager.GetAuthenticatorKeyAsync(user);
00614             }
00615 
00616             return View(new TwoFactorAuthenticatorViewModel
00617             {
00618                 SharedKey = authenticatorKey,
00619                 AuthenticationUri = _twoFactorAuthService.GenerateQrCodeUri(user.Email,
      authenticatorKey)
00620             });
00621         }
```

6.43.3.6 EnforceTwoFactorAuthenticator() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.EnforceTwoFactorAuthenticator
(
            TwoFactorAuthenticatorViewModel viewModel )  [inline]
```

controller POST method for view EnforceTwoFactorAuthenticator

Parameters

viewModel	type TwoFactorAuthenticatorViewModel

Returns

redirect to action EnforceTwoFactorResult

Definition at line 629 of file UserController.cs.

```
00630         {
00631             var user = await _userManager.FindByNameAsync(User.Identity?.Name);
00632 
00633             var verificationCode = viewModel.VerificationCode.Replace(" ", string.Empty).Replace("-",
      string.Empty);
00634 
00635             var isTokenValid = await _userManager.VerifyTwoFactorTokenAsync(user,
      _userManager.Options.Tokens.AuthenticatorTokenProvider, verificationCode);
00636             if (isTokenValid)
00637             {
00638                 if(user.IsMfaForce && user.TwoFactorEnabled==false) {
00639                     await _userManager.SetTwoFactorEnabledAsync(user, true);
00640                     user.IsMfaForce = false;
00641                     await _userManager.UpdateAsync(user);
00642                 }
00643 
00644                 TempData["RecoveryCodes"] = await
      _userManager.GenerateNewTwoFactorRecoveryCodesAsync(user, 5);
00645             }
00646             _logger.LogInformation("AUDIT: " + user.UserName + " successfully configured 2fa after
      enforcement. Redirecting to action: EnforceTwoFactorResult");
00647             return RedirectToAction("EnforceTwoFactorResult", "User");
00648         }
```

References DotNetIdentity.Models.ViewModels.TwoFactorAuthenticatorViewModel.VerificationCode.

6.43.3.7 EnforceTwoFactorResult()

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.EnforceTwoFactorResult (
)  [inline]
```

controller action for view EnforceTwoFactorResult

Returns

view EnforceTwoFactorResult

Definition at line 654 of file UserController.cs.

```
00654                                                                   {
00655             await _signInManager.SignOutAsync();
00656             return View();
00657         }
```

6.43.3.8 ForgotPassword() [1/2]

```
IActionResult DotNetIdentity.Controllers.UserController.ForgotPassword ( )
```

controller action for ForgotPassword view

Returns

view ForgotPassword

6.43.3.9 ForgotPassword() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.ForgotPassword (
            ForgotPasswordViewModel viewModel )  [inline]
```

controller POST method for ForgotPassword view

Parameters

viewModel	ForgotPasswordViewModel

Returns

redirect to action Index

Definition at line 455 of file UserController.cs.

```
00456         {
00457             if (ModelState.IsValid)
00458             {
00459                 var user = await _userManager.FindByEmailAsync(viewModel.Email);
00460                 if (user != null)
00461                 {
00462                     var passwordResetToken = await _userManager.GeneratePasswordResetTokenAsync(user);
00463 
00464                     var passwordLink = Url.Action("ResetPassword", "User", new
00465                     {
00466                         userId = user.Id,
00467                         token = passwordResetToken
00468                     }, HttpContext.Request.Scheme);
00469 
00470                     await _emailHelper.SendAsync(new()
00471                     {
00472                         Subject = "Reset password",
00473                         Body = $"Please <a href='{passwordLink}'>click</a> to reset your password.",
00474                         To = user.Email
00475                     });
00476                     _logger.LogWarning("AUDIT: " + user.UserName + " requested a password reset!");
00477                     return RedirectToAction("Index", "Home");
00478                 }
00479                 else
00480                 {
00481                     ModelState.AddModelError(string.Empty, _localizer["9"]);
00482                 }
00483             }
00484             return View(viewModel);
00485         }
```

References DotNetIdentity.Models.ViewModels.ForgotPasswordViewModel.Email.

6.43.3.10 Login() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.Login (
            SignInViewModel viewModel )  [inline]
```

Controller POST method for Login view

Todo Implement Ldap Login

Returns

Redirect to action

Definition at line 162 of file UserController.cs.

```
00163         {
00164             if (ModelState.IsValid)
00165             {
00166                 var user = await _userManager.FindByNameAsync(viewModel.UserName);
00167                 if (user != null)
00168                 {
00169                     await _signInManager.SignOutAsync();
00170 
00171                     var result = await _signInManager.PasswordSignInAsync(user, viewModel.Password,
    viewModel.RememberMe, true);
00172                     if(result.Succeeded && user.IsEnabled==false) {
00173                         await _signInManager.SignOutAsync();
00174                         _logger.LogWarning("AUDIT: " + user.UserName + " logged in successfully. But
    account is disabled!");
00175                         ModelState.AddModelError(string.Empty, _localizer["1"]);
00176                     }
00177                     else if(result.Succeeded && user.IsMfaForce==true) {
00178                         await _userManager.ResetAccessFailedCountAsync(user);
00179                         await _userManager.SetLockoutEndDateAsync(user, null);
00180                         _logger.LogInformation("AUDIT: " + user.UserName + " logged in successfully.
    But MFA is enforced. Redirecting to action: EnforceTwoFactorAuthenticator");
00181                         return RedirectToAction("EnforceTwoFactorAuthenticator");
00182                     }
00183                     else if (result.Succeeded && user.IsMfaForce==false)
00184                     {
00185                         await _userManager.ResetAccessFailedCountAsync(user);
00186                         await _userManager.SetLockoutEndDateAsync(user, null);
00187                         _logger.LogInformation("AUDIT: " + user.UserName + " logged in
    successfully.");
00188                         var returnUrl = TempData["ReturnUrl"];
00189                         if (returnUrl != null)
00190                         {
00191                             return Redirect(returnUrl.ToString() ?? "/");
00192                         }
00193                         return RedirectToAction("Index", "Admin");
00194                     }
00195                     else if (result.RequiresTwoFactor)
00196                     {
00197                         _logger.LogInformation("AUDIT: " + user.UserName + " logged in successfully.
    But MFA is enabled. Redirecting to action: TwoFactorLogin");
00198                         return RedirectToAction("TwoFactorLogin", new { ReturnUrl =
    TempData["ReturnUrl"] });
00199                     }
00200                     else if (result.IsLockedOut)
00201                     {
00202                         var lockoutEndUtc = await _userManager.GetLockoutEndDateAsync(user);
00203                         var timeLeft = lockoutEndUtc.Value - DateTime.UtcNow;
00204                         _logger.LogWarning("AUDIT: " + user.UserName + " logged in successfully. But
    Account is locked out for at least another " + timeLeft.Minutes + "minutes!");
00205                         ModelState.AddModelError(string.Empty, _localizer["2",
    timeLeft.Minutes.ToString()]);
00206                     }
00207                     else if (result.IsNotAllowed)
00208                     {
00209                         _logger.LogWarning("AUDIT: " + user.UserName + " logged in successfully. But
    email is not confirmed!");
00210                         ModelState.AddModelError(string.Empty, _localizer["3"]);
00211                     }
00212                     else
00213                     {
00214                         _logger.LogWarning("AUDIT: " + user.UserName + " login in failed. Invalid
    username or password!");
00215                         ModelState.AddModelError(string.Empty, _localizer["4"]);
```

```
00216                     }
00217                 }
00218                 else
00219                 {
00220                     _logger.LogWarning("AUDIT: " + "Login in failed. Invalid username or password!");
00221                     ModelState.AddModelError(string.Empty, _localizer["4"]);
00222                 }
00223             }
00224             return View(viewModel);
00225         }
```

References DotNetIdentity.Models.ViewModels.SignInViewModel.Password, DotNetIdentity.Models.ViewModels.SignInViewModel.Re
and DotNetIdentity.Models.ViewModels.SignInViewModel.UserName.

6.43.3.11 Login() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.Login (
            string?  returnUrl )  [inline]
```

Controller action for Login view

Parameters

returnUrl	

Returns

view Login

Definition at line 146 of file UserController.cs.

```
00147         {
00148             await _signInManager.SignOutAsync();
00149             if (returnUrl != null)
00150             {
00151                 TempData["ReturnUrl"] = returnUrl;
00152             }
00153             return View();
00154         }
```

6.43.3.12 Logout()

```
async Task DotNetIdentity.Controllers.UserController.Logout ( )
```

controller action for Logout

Returns

6.43.3.13 ping()

```
IActionResult DotNetIdentity.Controllers.UserController.ping ( )
```

Controller action for Ping view

Returns

view Ping

6.43.3.14 Profile() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.Profile ( )  [inline]
```

controller action for Profile view

Returns

view Profile

Definition at line 305 of file UserController.cs.

```
00306         {
00307             var me = await _userManager.FindByNameAsync(User.Identity?.Name);
00308             if (me == null)
00309             {
00310                 await _signInManager.SignOutAsync();
00311                 return RedirectToAction("Index", "Home");
00312             }
00313             var mod = new UpdateProfileViewModel();
00314             mod.Email = me.Email;
00315             mod.BirthDay = me.BirthDay;
00316             mod.UserName = me.UserName;
00317             mod.PhoneNumber = me.PhoneNumber;
00318             mod.Gender = me.Gender;
00319             //return View(me.Adapt<UpdateProfileViewModel>());
00320             return View(mod);
00321         }
```

6.43.3.15 Profile() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.Profile (
            UpdateProfileViewModel viewModel )  [inline]
```

controller POST methood for Profile view

Parameters

viewModel	type UpdateProfileViewModel

Returns

redirect to action Index

Definition at line 330 of file UserController.cs.

```
00331         {
00332             if (ModelState.IsValid)
00333             {
00334                 var me = await _userManager.FindByNameAsync(User.Identity?.Name);
00335                 if (me != null)
00336                 {
00337                     if (me.PhoneNumber != viewModel.PhoneNumber && _userManager.Users.Any(a =>
      a.PhoneNumber == viewModel.PhoneNumber))
00338                     {
00339                         ModelState.AddModelError(string.Empty, _localizer["6"]);
00340                     }
00341                     else
00342                     {
00343                         if(viewModel.ProfilePicture!=null) {
00344                             using (var memoryStream = new MemoryStream())
00345                             {
00346                                 await viewModel.ProfilePicture.CopyToAsync(memoryStream);
00347 
00348                                 // Upload the file if less than 2 MB
00349                                 if (memoryStream.Length < 2097152)
00350                                 {
00351                                     var format = "image/png";
00352                                     var Content = memoryStream.ToArray();
00353                                     var imageData =
      $"data:{format};base64,{Convert.ToBase64String(Content)}";
00354                                     me.ProfilePicture = imageData;
00355 
00356                                 }
00357                                 else
00358                                 {
00359                                     ModelState.AddModelError("File", _localizer["7"]);
00360                                 }
00361                             }
00362                         } else {
00363                             me.ProfilePicture = null;
00364                         }
00365 
00366                         me.UserName = viewModel.UserName;
00367                         me.Email = viewModel.Email;
00368                         me.PhoneNumber = viewModel.PhoneNumber;
00369                         me.Gender = viewModel.Gender;
00370                         me.BirthDay = viewModel.BirthDay;
00371                         //me.Department = viewModel.Department.ToString();
00372 
00373                         var result = await _userManager.UpdateAsync(me);
00374                         if (result.Succeeded)
00375                         {
00376                             await _userManager.UpdateSecurityStampAsync(me);
00377                             await _signInManager.SignOutAsync();
00378                             await _signInManager.SignInAsync(me, true);
00379 
00380                             _logger.LogInformation("AUDIT: " + me.UserName + "successfully updated own
      user profile");
00381 
00382                             return RedirectToAction("Index", "Home");
00383                         }
00384                         result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00385                     }
00386                 }
00387                 else
00388                 {
00389                     await _signInManager.SignOutAsync();
00390                     return RedirectToAction("Index", "Home");
00391                 }
00392             }
00393             return View(viewModel);
00394         }
```

References DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.BirthDay, DotNetIdentity.Models.ViewModels.UpdateProfileV
DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.Gender, DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.Ph
DotNetIdentity.Models.ViewModels.UpdateProfileViewModel.ProfilePicture, and DotNetIdentity.Models.ViewModels.UpdateProfileVie

6.43.3.16 Register() [1/2]

```
IActionResult DotNetIdentity.Controllers.UserController.Register ( )
```

Controller action for Register view

Returns

view Register

6.43.3.17 Register() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.Register (
            SignUpViewModel viewModel )  [inline]
```

Controller POST method for Register view

Parameters

viewModel	

Returns

Redirect to action Login

Definition at line 98 of file UserController.cs.

```
00099         {
00100             if (ModelState.IsValid)
00101             {
00102                 var user = new AppUser
00103                 {
00104                     FirstName = viewModel.FirstName,
00105                     LastName = viewModel.LastName,
00106                     UserName = viewModel.UserName,
00107                     Email = viewModel.Email,
00108                     Gender = viewModel.Gender,
00109                     BirthDay = viewModel.BirthDay,
00110                     Department = viewModel.Department.ToString(),
00111                     TwoFactorType = Models.TwoFactorType.None,
00112                     CreatedOn = DateTime.UtcNow,
00113                     IsEnabled = true
00114                 };
00115 
00116                 var result = await _userManager.CreateAsync(user, viewModel.Password);
00117                 if (result.Succeeded)
00118                 {
00119                     await _userManager.AddToRoleAsync(user, "User");
00120                     var confirmationToken = await
      _userManager.GenerateEmailConfirmationTokenAsync(user);
00121                     var confirmationLink = Url.Action("ConfirmEmail", "User", new
00122                     {
00123                         userId = user.Id,
00124                         token = confirmationToken
00125                     }, HttpContext.Request.Scheme);
00126 
00127                     await _emailHelper.SendAsync(new()
00128                     {
00129                         Subject = "Confirm e-mail",
00130                         Body = $"Please <a href='{confirmationLink}'>click</a> to confirm your e-mail
      address.",
00131                         To = user.Email
00132                     });
00133                     _logger.LogInformation("AUDIT: " + "registered successfully new user: " +
      user.UserName);
00134                     return RedirectToAction("Login");
00135                 }
00136                 result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00137             }
00138             return View(viewModel);
00139         }
```

References DotNetIdentity.Models.ViewModels.SignUpViewModel.BirthDay, DotNetIdentity.Models.ViewModels.SignUpViewModel.D
DotNetIdentity.Models.ViewModels.SignUpViewModel.Email, DotNetIdentity.Models.ViewModels.SignUpViewModel.FirstName,

DotNetIdentity.Models.ViewModels.SignUpViewModel.Gender, DotNetIdentity.Models.ViewModels.SignUpViewModel.LastName, DotNetIdentity.Models.ViewModels.SignUpViewModel.Password, and DotNetIdentity.Models.ViewModels.SignUpViewModel.UserNar

6.43.3.18 ResetPassword() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.ResetPassword (
            ResetPasswordViewModel viewModel )  [inline]
```

controller POST method for ResetPassword view

Parameters

viewModel	type ResetPasswordViewModel

Returns

redirect to action Login

Definition at line 513 of file UserController.cs.

```
00514         {
00515             if (ModelState.IsValid)
00516             {
00517                 var user = await _userManager.FindByIdAsync(viewModel.UserId);
00518                 if (user != null)
00519                 {
00520                     var result = await _userManager.ResetPasswordAsync(user, viewModel.Token,
      viewModel.Password);
00521                     if (result.Succeeded)
00522                     {
00523                         await _userManager.UpdateSecurityStampAsync(user);
00524                         _logger.LogInformation("AUDIT: " + user.UserName + "successfully resetted own
      password.");
00525                         return RedirectToAction("Login", "User");
00526                     }
00527                     else
00528                     {
00529                         result.Errors.ToList().ForEach(f => ModelState.AddModelError(string.Empty,
      f.Description));
00530                     }
00531                 }
00532                 else
00533                 {
00534                     ModelState.AddModelError(string.Empty, "User not found.");
00535                 }
00536             }
00537             return View(viewModel);
00538         }
```

References DotNetIdentity.Models.ViewModels.ResetPasswordViewModel.Password, DotNetIdentity.Models.ViewModels.ResetPassv and DotNetIdentity.Models.ViewModels.ResetPasswordViewModel.UserId.

6.43.3.19 ResetPassword() [2/2]

```
IActionResult DotNetIdentity.Controllers.UserController.ResetPassword (
            string userId,
            string token )  [inline]
```

controller action for ResetPassword view

Parameters

user↩ Id	the user id
token	the reset token

Returns

view ResetPassword

Definition at line 493 of file UserController.cs.

```
00494         {
00495             if (userId == null || token == null)
00496             {
00497                 return RedirectToAction("Login", "User");
00498             }
00499 
00500             return View(new ResetPasswordViewModel
00501             {
00502                 UserId = userId,
00503                 Token = token
00504             });
00505         }
```

6.43.3.20 TwoFactorAuthenticator() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.TwoFactorAuthenticator (
) [inline]
```

controller action for view TwoFActorAuthenticator

Returns

view TwoFActorAuthenticator

Definition at line 663 of file UserController.cs.

```
00664         {
00665             var user = await _userManager.FindByNameAsync(User.Identity?.Name);
00666             if (user.TwoFactorEnabled && user.TwoFactorType == Models.TwoFactorType.Authenticator)
00667             {
00668                 var authenticatorKey = await _userManager.GetAuthenticatorKeyAsync(user);
00669                 if (authenticatorKey == null)
00670                 {
00671                     await _userManager.ResetAuthenticatorKeyAsync(user);
00672                     authenticatorKey = await _userManager.GetAuthenticatorKeyAsync(user);
00673                 }
00674 
00675                 return View(new TwoFactorAuthenticatorViewModel
00676                 {
00677                     SharedKey = authenticatorKey,
00678                     AuthenticationUri = _twoFactorAuthService.GenerateQrCodeUri(user.Email,
      authenticatorKey)
00679                 });
00680             }
00681             return RedirectToAction("Index", "Home");
00682         }
```

6.43.3.21 TwoFactorAuthenticator() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.TwoFactorAuthenticator (
            TwoFactorAuthenticatorViewModel viewModel ) [inline]
```

controller POST method for view TwoFActorAuthenticator

Parameters

viewModel	type TwoFactorAuthenticatorViewModel

Returns

redirect to action TwoFactorType

Definition at line 690 of file UserController.cs.

```
00691         {
00692             var user = await _userManager.FindByNameAsync(User.Identity?.Name);
00693 
00694             var verificationCode = viewModel.VerificationCode.Replace(" ", string.Empty).Replace("-",
      string.Empty);
00695 
00696             var isTokenValid = await _userManager.VerifyTwoFactorTokenAsync(user,
      _userManager.Options.Tokens.AuthenticatorTokenProvider, verificationCode);
00697             if (isTokenValid)
00698             {
00699                 if(user.IsMfaForce && user.TwoFactorEnabled==false) {
00700                     await _userManager.SetTwoFactorEnabledAsync(user, true);
00701                     user.IsMfaForce = false;
00702                     await _userManager.UpdateAsync(user);
00703                 }
00704 
00705                 TempData["RecoveryCodes"] = await
      _userManager.GenerateNewTwoFactorRecoveryCodesAsync(user, 5);
00706             }
00707             _logger.LogInformation("AUDIT: " + user.UserName + " successfully configured 2fa!");
00708             return RedirectToAction("TwoFactorType", "User");
00709         }
```

References DotNetIdentity.Models.ViewModels.TwoFactorAuthenticatorViewModel.VerificationCode.

6.43.3.22 TwoFactorLogin() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.TwoFactorLogin (
            string?  returnUrl )  [inline]
```

Controller action for view TwoFactorLogin

Parameters

returnUrl	optional return url as string

Returns

view TwoFactorLogin

Definition at line 232 of file UserController.cs.

```
00233         {
00234             if (returnUrl != null)
00235             {
00236                 TempData["ReturnUrl"] = returnUrl;
00237             }
00238 
00239             var user = await _signInManager.GetTwoFactorAuthenticationUserAsync();
00240 
00241             if(user.TwoFactorType == DotNetIdentity.Models.TwoFactorType.Email) {
00242                 var token = await _userManager.GenerateTwoFactorTokenAsync(user, "Email");
00243                 await _emailHelper.SendAsync(new()
```

```
00244                     {
00245                         Subject = "Your 2fa code",
00246                         Body = $"Please use this " + token + " 2fa code to verify your login.",
00247                         To = user.Email
00248                     });
00249                     _logger.LogInformation("AUDIT: send otp code to " + user.Email);
00250             }
00251 
00252             return View(new TwoFactorLoginVieWModel
00253             {
00254                 TwoFactorType = user.TwoFactorType,
00255             });
00256         }
```

References DotNetIdentity.Models.ViewModels.TwoFactorLoginVieWModel.TwoFactorType.

6.43.3.23 TwoFactorLogin() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.TwoFactorLogin (
            TwoFactorLoginVieWModel vieWModel )  [inline]
```

controller POST method for TwoFactorLogin view

Parameters

vieWModel	tyle TwoFactorLoginVieWModel

Returns

rediret to return url

Definition at line 264 of file UserController.cs.

```
00265         {
00266             var user = await _signInManager.GetTwoFactorAuthenticationUserAsync();
00267 
00268             if (user.TwoFactorType == Models.TwoFactorType.Authenticator)
00269             {
00270                 var result = vieWModel.IsRecoveryCode ? await
      _signInManager.TwoFactorRecoveryCodeSignInAsync(vieWModel.VerificationCode) : await
      _signInManager.TwoFactorAuthenticatorSignInAsync(vieWModel.VerificationCode, true, false);
00271                 if (result.Succeeded)
00272                 {
00273                     _logger.LogInformation("AUDIT: " + user.UserName + "Authenticator 2fa verified
      successfully");
00274                     return Redirect(TempData["ReturnUrl"]?.ToString() ?? "/");
00275                 }
00276                 _logger.LogWarning("AUDIT: " + user.UserName + "Authenticator 2fa verification failed.
      Invalid otp code");
00277                 ModelState.AddModelError(string.Empty, _localizer["5"]);
00278             }
00279             else if (user.TwoFactorType == Models.TwoFactorType.Email)
00280             {
00281                 var result = vieWModel.IsRecoveryCode ? await
      _signInManager.TwoFactorRecoveryCodeSignInAsync(vieWModel.VerificationCode) : await
      _signInManager.TwoFactorSignInAsync("Email", vieWModel.VerificationCode, true, false);
00282                 if (result.Succeeded)
00283                 {
00284                     _logger.LogInformation("AUDIT: " + user.UserName + "Email 2fa verified
      successfully");
00285                     return Redirect(TempData["ReturnUrl"]?.ToString() ?? "/");
00286                 }
00287                 _logger.LogWarning("AUDIT: " + user.UserName + "Email 2fa verification failed. Invalid
      otp code");
00288                 ModelState.AddModelError(string.Empty, _localizer["5"]);
00289             }
00290 
00291             return View(vieWModel);
00292         }
```

References DotNetIdentity.Models.ViewModels.TwoFactorLoginVieWModel.VerificationCode.

6.43.3.24 TwoFactorType() [1/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.TwoFactorType ( )  [inline]
```

controller action for view TwiFactorType

Returns

view TwoFactorTaype

Definition at line 566 of file UserController.cs.

```
00567         {
00568             var user = await _userManager.FindByNameAsync(User.Identity?.Name);
00569 
00570             return View(new TwoFactorTypeViewModel
00571             {
00572                 TwoFactorType = user.TwoFactorType
00573             });
00574         }
```

6.43.3.25 TwoFactorType() [2/2]

```
async Task< IActionResult > DotNetIdentity.Controllers.UserController.TwoFactorType (
            TwoFactorTypeViewModel viewModel )  [inline]
```

controller POST method for view TwoFactorType

Parameters

viewModel	TwoFactorTypeViewModel

Returns

rediorect to action TwoFactorType

Definition at line 583 of file UserController.cs.

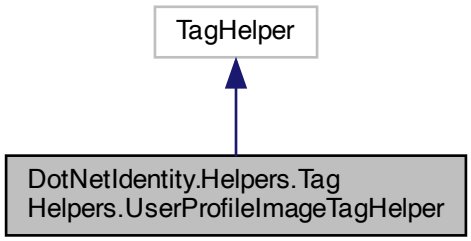
```
00584         {
00585             var user = await _userManager.FindByNameAsync(User.Identity?.Name);
00586             user.TwoFactorType = viewModel.TwoFactorType;
00587             await _userManager.UpdateAsync(user);
00588             await _userManager.SetTwoFactorEnabledAsync(user, user.TwoFactorType !=
      Models.TwoFactorType.None);
00589 
00590             if (viewModel.TwoFactorType == Models.TwoFactorType.Authenticator)
00591             {
00592                 _logger.LogInformation("AUDIT: " + user.UserName + " set authenticator as 2fa method.
      Redirecting to action: TwoFactorAuthenticator");
00593                 return RedirectToAction("TwoFactorAuthenticator", "User");
00594             }
00595             _logger.LogInformation("AUDIT: " + user.UserName + " set " + user.TwoFactorType.ToString()
      + " as 2fa method.");
00596             return RedirectToAction("TwoFactorType", "User");
00597         }
```

References DotNetIdentity.Models.ViewModels.TwoFactorTypeViewModel.TwoFactorType.

6.44 DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper Class Reference

html taghelper class

Inheritance diagram for DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper:



Public Member Functions

- UserProfileImageTagHelper (UserManager< AppUser > userManager)
  class contsructor
- override async Task ProcessAsync (TagHelperContext context, TagHelperOutput output)
  override ProcessAsync

Properties

- string UserId = default! `[get, set]`
  html attribute definition

6.44.1 Detailed Description

html taghelper class

Definition at line 12 of file UserProfileImageTagHelper.cs.

6.44.2 Constructor & Destructor Documentation

6.44.2.1 UserProfileImageTagHelper()

```
DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper.UserProfileImageTagHelper (
            UserManager< AppUser > userManager )  [inline]
```

class contsructor

Parameters

userManager	type UserManager

Definition at line 23 of file UserProfileImageTagHelper.cs.

```
00024         {
00025             _userManager = userManager;
00026         }
```

6.44.3 Member Function Documentation

6.44.3.1 ProcessAsync()

```
override async Task DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper.ProcessAsync (
            TagHelperContext context,
            TagHelperOutput output )  [inline]
```

override ProcessAsync

Parameters

context	type TagHelperContext
output	type TagHelperOutput

Returns

TagHelperOutput

Definition at line 41 of file UserProfileImageTagHelper.cs.

```
00042         {
00043             var user = await _userManager.FindByIdAsync(UserId);
00044
00045             var sb = new StringBuilder();
00046             if(user.ProfilePicture==null) {
00047                 sb.Append($"<img src='/assets/images/faces/user.png' height='32'/>");
00048             } else {
00049                 sb.Append($"<img src='" + user.ProfilePicture + "' height='32'/>");
00050             }
00051
00052             output.Content.SetHtmlContent(sb.ToString());
00053         }
```

References DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper.UserId.

6.44.4 Property Documentation

6.44.4.1 UserId

```
string DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper.UserId = default!  [get],
[set]
```

html attribute definition

Definition at line 33 of file UserProfileImageTagHelper.cs.

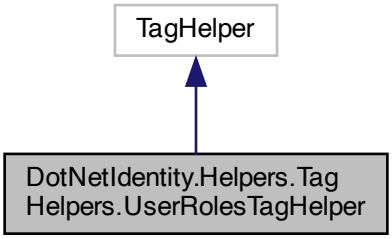
```
00033 { get; set; } = default!;
```

Referenced by DotNetIdentity.Helpers.TagHelpers.UserProfileImageTagHelper.ProcessAsync().

6.45 DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper Class Reference

html tag helper class

Inheritance diagram for DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper:



Public Member Functions

- UserRolesTagHelper (UserManager< AppUser > userManager)
  class constructor
- override async Task ProcessAsync (TagHelperContext context, TagHelperOutput output)
  method to override ProcessAsync

Properties

- string UserId = default! `[get, set]`
  attribute definition

6.45.1 Detailed Description

html tag helper class

Definition at line 12 of file UserRolesTagHelper.cs.

6.45.2 Constructor & Destructor Documentation

6.45.2.1 UserRolesTagHelper()

```
DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper.UserRolesTagHelper (
            UserManager< AppUser > userManager )  [inline]
```

class constructor

Parameters

userManager	

Definition at line 23 of file UserRolesTagHelper.cs.

```
00024         {
00025             _userManager = userManager;
00026         }
```

6.45.3 Member Function Documentation

6.45.3.1 ProcessAsync()

```
override async Task DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper.ProcessAsync (
            TagHelperContext context,
            TagHelperOutput output )  [inline]
```

method to override ProcessAsync

Parameters

context	type TagHelperContext
output	type TagHelperOutput

Returns

TagHelperOutput

Definition at line 41 of file UserRolesTagHelper.cs.

```
00042         {
00043             var user = await _userManager.FindByIdAsync(UserId);
00044             var roles = await _userManager.GetRolesAsync(user);
00045 
00046             var sb = new StringBuilder();
00047 
00048             if (roles.Count() > 0)
00049             {
00050                 foreach (var role in roles)
00051                 {
```

```
00052                     sb.Append($"<span class='badge rounded-pill bg-danger'>{role}</span>");
00053                 }
00054             }
00055             else
00056             {
00057                 sb.Append("No roles found");
00058             }
00059 
00060             output.Content.SetHtmlContent(sb.ToString());
00061         }
```

References DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper.UserId.

6.45.4 Property Documentation

6.45.4.1 UserId

```
string DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper.UserId = default!  [get], [set]
```

attribute definition

Definition at line 33 of file UserRolesTagHelper.cs.

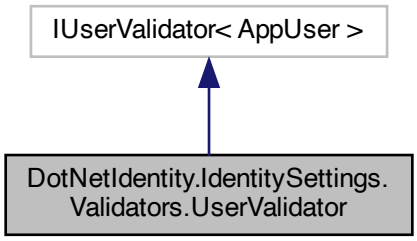
```
00033 { get; set; } = default!;
```

Referenced by DotNetIdentity.Helpers.TagHelpers.UserRolesTagHelper.ProcessAsync().

6.46 DotNetIdentity.IdentitySettings.Validators.UserValidator Class Reference

class to validate IdentityUser

Inheritance diagram for DotNetIdentity.IdentitySettings.Validators.UserValidator:



Public Member Functions

- Task< IdentityResult > ValidateAsync (UserManager< AppUser > manager, AppUser user)

  Task to validate IdentityUser

6.46.1 Detailed Description

class to validate IdentityUser

Definition at line 9 of file UserValidator.cs.

6.46.2 Member Function Documentation

6.46.2.1 ValidateAsync()

```
Task< IdentityResult > DotNetIdentity.IdentitySettings.Validators.UserValidator.ValidateAsync
(
            UserManager< AppUser > manager,
            AppUser user )  [inline]
```

Task to validate IdentityUser

Parameters

manager	UserManager
user	AppUser

Returns

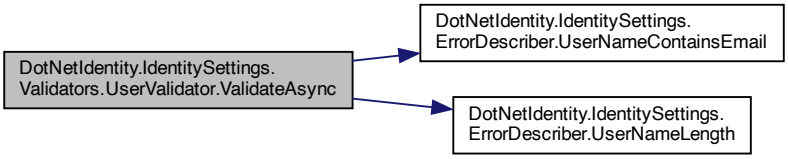
Task of type IdentiyResult

Definition at line 17 of file UserValidator.cs.

```
00018         {
00019             var errors = new List<IdentityError>();
00020
00021             if (user.UserName.Length < 6)
00022             {
00023                 errors.Add(ErrorDescriber.UserNameLength());
00024             }
00025             if (user.Email.Substring(0, user.Email.IndexOf("@")) == user.UserName)
00026             {
00027                 errors.Add(ErrorDescriber.UserNameContainsEmail());
00028             }
00029
00030             if (errors.Any())
00031             {
00032                 return Task.FromResult(IdentityResult.Failed(errors.ToArray()));
00033             }
00034             return Task.FromResult(IdentityResult.Success);
00035         }
```

References DotNetIdentity.IdentitySettings.ErrorDescriber.UserNameContainsEmail(), and DotNetIdentity.IdentitySettings.ErrorDescri

Here is the call graph for this function:



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