

# Namespace RaisedHands.Api

## Classes

[Program](#)

# Class Program

Namespace: [RaisedHands.Api](#)

Assembly: RaisedHands.Api.dll

```
public class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## Main(string[])

```
public static void Main(string[] args)
```

## Parameters

args [string](#)[]

# Namespace RaisedHands.Api.Background Services

## Classes

[EmailSenderBackgroundService](#)

# Class EmailSenderBackgroundService

Namespace: [RaisedHands.Api.BackgroundServices](#)

Assembly: RaisedHands.Api.dll

```
public class EmailSenderBackgroundService : BackgroundService, IHostedService, IDisposable
```

## Inheritance

[object](#) ← [BackgroundService](#) ← EmailSenderBackgroundService

## Implements

[IHostedService](#), [IDisposable](#)

## Inherited Members

[BackgroundService.Dispose\(\)](#), [BackgroundService.StartAsync\(CancellationToken\)](#),  
[BackgroundService.StopAsync\(CancellationToken\)](#), [BackgroundService.ExecuteTask](#),  
[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),  
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

### EmailSenderBackgroundService(IServiceProvider)

```
public EmailSenderBackgroundService(IServiceProvider serviceProvider)
```

## Parameters

serviceProvider [IServiceProvider](#)

## Methods

### ExecuteAsync(CancellationToken)

This method is called when the [IHostedService](#) starts. The implementation should return a task that represents the lifetime of the long running operation(s) being performed.

```
protected override Task ExecuteAsync(CancellationToken stoppingToken)
```

## Parameters

stoppingToken  [CancellationToken](#)

Triggered when  [StopAsync\(CancellationToken\)](#)  is called.

## Returns

[Task](#)

A  [Task](#)  that represents the long running operations.

## Remarks

See  [Worker Services in .NET](#)  for implementation guidelines.

# Namespace RaisedHands.Api.Controllers

## Classes

[AuthController](#)

[GroupController](#)

[QuestionController](#)

[RoomController](#)

# Class AuthController

Namespace: [RaisedHands.Api.Controllers](#)

Assembly: RaisedHands.Api.dll

```
[ApiController]  
public class AuthController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← AuthController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
[ControllerBase.Content\(string, string, Encoding\)](#) ,  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) , [ControllerBase.NoContent\(\)](#) ,  
[ControllerBase.Ok\(\)](#) , [ControllerBase.Ok\(object\)](#) , [ControllerBase.Redirect\(string\)](#) ,  
[ControllerBase.RedirectPermanent\(string\)](#) , [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.LocalRedirect\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanent\(string\)](#) , [ControllerBase.LocalRedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.RedirectToAction\(\)](#) ,  
[ControllerBase.RedirectToAction\(string\)](#) , [ControllerBase.RedirectToAction\(string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
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[ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,  
[ControllerBase.RedirectToRoute\(string, object, string\)](#) ,  
[ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#) ,  
[ControllerBase.RedirectToRoutePermanent\(string\)](#) ,

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 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
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 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#) ,  [ControllerBase.Conflict\(\)](#) ,  
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 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) ,  [ControllerBase.ValidationProblem\(\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,  
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 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
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 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,

[ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

AuthController(IClock, UserManager<User>,  
SignInManager<User>, EmailSenderService)

```
public AuthController(IClock clock, UserManager<User> userManager, SignInManager<User>  
signInManager, EmailSenderService emailSenderService)
```

### Parameters

clock [IClock](#)

userManager [UserManager](#)<User>

signInManager [SignInManager](#)<User>

emailSenderService [EmailSenderService](#)

## Methods

## Login(LoginModel)

```
[HttpPost("api/v1/Auth/Login")]
public Task<ActionResult> Login(LoginModel model)
```

### Parameters

model [LoginModel](#)

### Returns

[Task](#) <[ActionResult](#)>

## Logout()

```
[Authorize]
[HttpPost("api/v1/Auth/Logout")]
public Task<ActionResult> Logout()
```

### Returns

[Task](#) <[ActionResult](#)>

## Register(RegisterModel)

```
[HttpPost("api/v1/Auth/Register")]
[ProducesResponseType(204)]
[ProducesResponseType(400)]
public Task<ActionResult> Register(RegisterModel model)
```

### Parameters

model [RegisterModel](#)

### Returns

[Task](#) <[ActionResult](#)>

## TestMeBeforeLoginAndAfter()

```
[Authorize]  
[HttpGet("api/v1/Auth/TestMeBeforeLoginAndAfter")]  
public ActionResult TestMeBeforeLoginAndAfter()
```

Returns

[ActionResult](#)

## ValidateToken(TokenModel)

unescape token before sending

```
[HttpPost("api/v1/Auth/ValidateToken")]  
public Task<ActionResult> ValidateToken(TokenModel model)
```

Parameters

model [TokenModel](#)

Returns

[Task](#) <[ActionResult](#)>

# Class GroupController

Namespace: [RaisedHands.Api.Controllers](#)

Assembly: RaisedHands.Api.dll

```
[Authorize]
[ApiController]
public class GroupController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← GroupController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
[ControllerBase.Content\(string, string, Encoding\)](#) ,  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) , [ControllerBase.NoContent\(\)](#) ,  
[ControllerBase.Ok\(\)](#) , [ControllerBase.Ok\(object\)](#) , [ControllerBase.Redirect\(string\)](#) ,  
[ControllerBase.RedirectPermanent\(string\)](#) , [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.LocalRedirect\(string\)](#) ,  
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[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.RedirectToAction\(\)](#) ,  
[ControllerBase.RedirectToAction\(string\)](#) , [ControllerBase.RedirectToAction\(string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string\)](#) ,  
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[ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToRoute\(string\)](#) , [ControllerBase.RedirectToRoute\(object\)](#) ,  
[ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,  
[ControllerBase.RedirectToRoute\(string, object, string\)](#) ,  
[ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#) ,

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 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
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 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
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 [ControllerBase.File\(Stream, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.File\(string, string, DateTimeOffset?\)](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?\)](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,

[ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.Unauthorized\(\)](#)  ,  [ControllerBase.Unauthorized\(object\)](#)  ,  [ControllerBase.NotFound\(\)](#)  ,  
 [ControllerBase.NotFound\(object\)](#)  ,  [ControllerBase.BadRequest\(\)](#)  ,  
 [ControllerBase.BadRequest\(object\)](#)  ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(\)](#)  ,  [ControllerBase.UnprocessableEntity\(object\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#)  ,  [ControllerBase.Conflict\(\)](#)  ,  
 [ControllerBase.Conflict\(object\)](#)  ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#)  ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#)  ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#)  ,  [ControllerBase.ValidationProblem\(\)](#)  ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#)  ,  
 [ControllerBase.Created\(\)](#)  ,  [ControllerBase.Created\(string, object\)](#)  ,  
 [ControllerBase.Created\(Uri, object\)](#)  ,  [ControllerBase.CreatedAtAction\(string, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#)  ,  [ControllerBase.CreatedAtRoute\(object, object\)](#)  ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#)  ,  [ControllerBase.Accepted\(\)](#)  ,  
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 [ControllerBase.Accepted\(string, object\)](#)  ,  [ControllerBase.Accepted\(Uri, object\)](#)  ,  
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 [ControllerBase.AcceptedAtAction\(string, object, object\)](#)  ,  
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 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#)  ,  
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 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#)  ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#)  ,  [ControllerBase.SignOut\(\)](#)  ,  
 [ControllerBase.SignOut\(AuthenticationProperties\)](#)  ,  [ControllerBase.SignOut\(params string\[\]\)](#)  ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#)  ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#)  ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#)  ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#)  ,

[ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
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 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
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 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
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 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### GroupController(IClock, AppDbContext)

```
public GroupController(IClock clock, AppDbContext dbContext)
```

#### Parameters

clock  [IClock](#)

dbContext  [AppDbContext](#)

## Methods

### AddCurrentUserToGroupByCode(string)

Adds the current user to a group using the group's unique code. If the user does not have the "Student" role, it is assigned.

```
[HttpPost("api/v1/Group/{code}/AddUser")]
public Task<ActionResult> AddCurrentUserToGroupByCode(string code)
```

## Parameters

code [string](#)

The unique code of the group to join.

## Returns

[Task](#)<[ActionResult](#)>

A confirmation message on successful addition.

## Create(GroupCreateModel)

Creates a new group with a unique code and links the current user as the owner with the "Teacher" role.

```
[HttpPost("api/v1/Group")]
public Task<ActionResult> Create(GroupCreateModel model)
```

## Parameters

model [GroupCreateModel](#)

The model containing details for the new group.

## Returns

[Task](#)<[ActionResult](#)>

The details of the created group.

## Delete(Guid)

Soft-deletes a group by marking it as deleted in the database.

```
[HttpDelete("api/v1/Group/{id}")]
public Task<ActionResult> Delete(Guid id)
```

## Parameters

**id** [Guid](#)

The unique identifier of the group to delete.

## Returns

[Task](#) <[ActionResult](#)>

No content if successful.

## Get(Guid)

Retrieves the details of a specific group by its ID.

```
[HttpGet("api/v1/Group/{id}")]
public Task<ActionResult<GroupDetailModel>> Get(Guid id)
```

## Parameters

**id** [Guid](#)

The unique identifier of the group.

## Returns

[Task](#) <[ActionResult](#)> <[GroupDetailModel](#)>

The details of the specified group.

## GetList()

Retrieves a list of all groups, including their associated rooms and owners.

```
[HttpGet("api/v1/Group")]
public Task<ActionResult<IEnumerable<GroupDetailModel>>> GetList()
```

Returns

[Task](#) <[ActionResult](#) <[IEnumerable](#) <[GroupDetailModel](#)>>>

A list of GroupDetailModel representing all groups.

## GetRoomsByGroupId(Guid)

Retrieves a list of room details for a specified group by its unique ID.

```
[HttpGet("api/v1/Group/{groupId}/Rooms")]
public Task<ActionResult<IEnumerable<RoomDetailModel>>> GetRoomsByGroupId(Guid groupId)
```

Parameters

groupId [Guid](#)

The unique identifier of the group.

Returns

[Task](#) <[ActionResult](#) <[IEnumerable](#) <[RoomDetailModel](#)>>>

A list of RoomDetailModel objects representing the group's rooms, or a 404 response if the group is not found.

## GetUserGroups()

Retrieves all groups where the current user has a role.

```
[HttpGet("api/v1/Group/my-groups")]
public Task<ActionResult<IEnumerable<GroupDetailModel>>> GetUserGroups()
```

Returns

## [Task](#) <[ActionResult](#)<[IEnumerable](#)<[GroupDetailModel](#)>>>

A list of GroupDetailModel objects representing the user's groups, or a 404 response if no groups are found, or a 401 response for unauthorized access.

## Update(Guid, JsonPatchDocument<GroupCreateModel>)

Updates specific properties of a group using a JSON Patch document.

```
[HttpPatch("api/v1/Group/{id}")]
public Task<ActionResult<GroupDetailModel>> Update(Guid id,
JsonPatchDocument<GroupCreateModel> patch)
```

### Parameters

#### [id](#) [Guid](#)

The unique identifier of the group to update.

#### [patch](#) [JsonPatchDocument](#)<[GroupCreateModel](#)>

The JSON Patch document containing the updates.

### Returns

#### [Task](#) <[ActionResult](#)<[GroupDetailModel](#)>>

The updated details of the group.

# Class QuestionController

Namespace: [RaisedHands.Api.Controllers](#)

Assembly: RaisedHands.Api.dll

```
[Authorize]
[ApiController]
public class QuestionController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← QuestionController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
[ControllerBase.Content\(string, string, Encoding\)](#) ,  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) , [ControllerBase.NoContent\(\)](#) ,  
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[ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
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 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
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 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

QuestionController(IHubContext<QuestionHub>, IClock, AppDbContext)

```
public QuestionController(IHubContext<QuestionHub> hubContext, IClock clock,  
AppDbContext dbContext)
```

### Parameters

hubContext [IHubContext<QuestionHub>](#)

clock [IClock](#)

dbContext [AppDbContext](#)

## Methods

## Create(QuestionCreateModel)

```
[HttpPost("api/v1/Question")]
public Task<ActionResult> Create(QuestionCreateModel model)
```

### Parameters

model [QuestionCreateModel](#)

### Returns

[Task](#) <[ActionResult](#)>

## GetQuestionsByRoomId(Guid)

```
[HttpGet("api/v1/Question/{roomId}")]
public Task<ActionResult<QuestionDetailModel>> GetQuestionsByRoomId(Guid roomId)
```

### Parameters

roomId [Guid](#)

### Returns

[Task](#) <[ActionResult](#) <[QuestionDetailModel](#)>>

# Class RoomController

Namespace: [RaisedHands.Api.Controllers](#)

Assembly: RaisedHands.Api.dll

```
[Authorize]
[ApiController]
public class RoomController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← RoomController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
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 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

RoomController(ILogger<RoomController>, IClock, AppDbContext)

```
public RoomController(ILogger<RoomController> logger, IClock clock, AppDbContext dbContext)
```

### Parameters

logger  [ILogger<RoomController>](#)

clock  [IClock](#)

dbContext  [AppDbContext](#)

## Methods

Create(RoomCreateModel)

Creates a new room and associates it with a specified group.

```
[HttpPost("api/v1/Room")]
public Task<ActionResult> Create(RoomCreateModel model)
```

## Parameters

**model** [RoomCreateModel](#)

The model containing details for the new room.

## Returns

[Task](#) <[ActionResult](#)>

A success response upon creation.

## Delete(Guid)

Soft-deletes a room by marking it as deleted in the database.

```
[HttpDelete("api/v1/Room/{id}")]
public Task<ActionResult> Delete(Guid id)
```

## Parameters

**id** [Guid](#)

The unique identifier of the room to delete.

## Returns

[Task](#) <[ActionResult](#)>

No content if successful.

## Get(Guid)

Retrieves the details of a specific room by its ID.

```
[HttpGet("api/v1/Room/{id}")]
public Task<ActionResult<RoomDetailModel>> Get(Guid id)
```

## Parameters

### id [Guid](#)

The unique identifier of the room.

## Returns

### [Task](#) <[ActionResult](#) <[RoomDetailModel](#)>>

The details of the specified room.

## GetList()

Retrieves a list of all rooms.

```
[HttpGet("api/v1/Room")]
public Task<ActionResult<IEnumerable<RoomDetailModel>>> GetList()
```

## Returns

### [Task](#) <[ActionResult](#) <[IEnumerable](#) <[RoomDetailModel](#)>>>

A list of RoomDetailModel representing all rooms.

## Update(Guid, JsonPatchDocument<RoomCreateModel>)

Updates specific properties of a room using a JSON Patch document.

```
[HttpPatch("api/v1/Room/{id}")]
public Task<ActionResult> Update(Guid id, JsonPatchDocument<RoomCreateModel> patch)
```

## Parameters

### id [Guid](#)

The unique identifier of the room to update.

**patch** [JsonPatchDocument](#) <[RoomCreateModel](#)>

The JSON Patch document containing the updates.

Returns

[Task](#) <[ActionResult](#)>

The updated details of the room.

# Namespace RaisedHands.Api.Hubs

## Classes

[QuestionHub](#)

# Class QuestionHub

Namespace: [RaisedHands.Api.Hubs](#)

Assembly: RaisedHands.Api.dll

```
public class QuestionHub : Hub, IDisposable
```

Inheritance

[object](#) ← [Hub](#) ← QuestionHub

Implements

[IDisposable](#)

Inherited Members

[Hub.OnConnectedAsync\(\)](#) , [Hub.OnDisconnectedAsync\(Exception\)](#) , [Hub.Dispose\(bool\)](#) ,  
[Hub.Dispose\(\)](#) , [Hub.Clients](#) , [Hub.Context](#) , [Hub.Groups](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Methods

### SendMessage(string)

```
public Task SendMessage(string message)
```

Parameters

message [string](#)

Returns

[Task](#)

# Namespace RaisedHands.Api.Models

## Classes

[IdNameModel](#)

# Class IdNameModel

Namespace: [RaisedHands.Api.Models](#)

Assembly: RaisedHands.Api.dll

```
public class IdNameModel
```

## Inheritance

[object](#) ← IdNameModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Id

```
public Guid Id { get; set; }
```

### Property Value

[Guid](#)

## Name

```
public string Name { get; set; }
```

### Property Value

[string](#)

# Namespace RaisedHands.Api.Models.Auth

## Classes

[LoginModel](#)

[RegisterModel](#)

[TokenModel](#)

# Class LoginModel

Namespace: [RaisedHands.Api.Models.Auth](#)

Assembly: RaisedHands.Api.dll

```
public class LoginModel
```

## Inheritance

[object](#) ← LoginModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Email

```
[Required]  
[EmailAddress]  
public string Email { get; set; }
```

## Property Value

[string](#)

## Password

```
[Required]  
public string Password { get; set; }
```

## Property Value

[string](#)

# Class RegisterModel

Namespace: [RaisedHands.Api.Models.Auth](#)

Assembly: RaisedHands.Api.dll

```
public class RegisterModel
```

## Inheritance

[object](#) ← RegisterModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Email

```
[Required]  
[EmailAddress]  
public string Email { get; set; }
```

## Property Value

[string](#)

## FirstName

```
[Required]  
public string FirstName { get; set; }
```

## Property Value

[string](#)

## LastName

```
[Required]  
public string LastName { get; set; }
```

### Property Value

[string](#) ↗

## Password

```
[Required]  
public string Password { get; set; }
```

### Property Value

[string](#) ↗

# Class TokenModel

Namespace: [RaisedHands.Api.Models.Auth](#)

Assembly: RaisedHands.Api.dll

```
public class TokenModel
```

## Inheritance

[object](#) ← TokenModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Email

```
[Required]  
[EmailAddress]  
public string Email { get; set; }
```

## Property Value

[string](#)

## Token

```
[Required]  
public string Token { get; set; }
```

## Property Value

[string](#)

# Namespace RaisedHands.Api.Models.Groups

## Classes

[GroupCreateModel](#)

[GroupCreateModelExtensions](#)

[GroupDetailModel](#)

[GroupDetailModelExtensions](#)

# Class GroupCreateModel

Namespace: [RaisedHands.Api.Models.Groups](#)

Assembly: RaisedHands.Api.dll

```
public class GroupCreateModel
```

## Inheritance

[object](#) ← GroupCreateModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Name

```
[Required(ErrorMessage = "{0} is required.", AllowEmptyStrings = false)]  
public string Name { get; set; }
```

## Property Value

[string](#)

# Class GroupCreateModelExtensions

Namespace: [RaisedHands.Api.Models.Groups](#)

Assembly: RaisedHands.Api.dll

```
public static class GroupCreateModelExtensions
```

## Inheritance

[object](#) ← GroupCreateModelExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## ToUpdate(Group)

```
public static GroupCreateModel ToUpdate(this Group source)
```

### Parameters

source [Group](#)

### Returns

[GroupCreateModel](#)

# Class GroupDetailModel

Namespace: [RaisedHands.Api.Models.Groups](#)

Assembly: RaisedHands.Api.dll

```
public class GroupDetailModel
```

## Inheritance

[object](#) ← GroupDetailModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Fields

## Rooms

```
public List<RoomDetailModel>? Rooms
```

## Field Value

[List](#)<[RoomDetailModel](#)>

# Properties

## Code

```
public string Code { get; set; }
```

## Property Value

[string](#)

## Id

```
public Guid Id { get; set; }
```

### Property Value

[Guid](#) ↗

## Name

```
public string Name { get; set; }
```

### Property Value

[string](#) ↗

## Owner

```
public UserDetailModel Owner { get; set; }
```

### Property Value

[UserDetailModel](#)

# Class GroupDetailModelExtensions

Namespace: [RaisedHands.Api.Models.Groups](#)

Assembly: RaisedHands.Api.dll

```
public static class GroupDetailModelExtensions
```

## Inheritance

[object](#) ← GroupDetailModelExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## ToDetail(Group)

```
public static GroupDetailModel ToDetail(this Group source)
```

### Parameters

source [Group](#)

### Returns

[GroupDetailModel](#)

# Namespace RaisedHands.Api.Models.Hands

## Classes

[HandDetailModel](#)

# Class HandDetailModel

Namespace: [RaisedHands.Api.Models.Hands](#)

Assembly: RaisedHands.Api.dll

```
public class HandDetailModel
```

## Inheritance

[object](#) ← HandDetailModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Answered

```
public bool Answered { get; set; }
```

## Property Value

[bool](#)

## DateTime

```
public DateTime DateTime { get; set; }
```

## Property Value

[DateTime](#)

## UserRoleGroup

```
public UserRoleGroup UserRoleGroup { get; set; }
```

## Property Value

[UserRoleGroup](#)

# Namespace RaisedHands.Api.Models.Questions

## Classes

[QuestionCreateModel](#)

[QuestionDetailModel](#)

# Class QuestionCreateModel

Namespace: [RaisedHands.Api.Models.Questions](#)

Assembly: RaisedHands.Api.dll

```
public class QuestionCreateModel
```

## Inheritance

[object](#) ← QuestionCreateModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## IsAnonymous

```
public bool IsAnonymous { get; set; }
```

### Property Value

[bool](#)

## RoomId

```
[Required(ErrorMessage = "{0} is required.", AllowEmptyStrings = false)]  
public Guid RoomId { get; set; }
```

### Property Value

[Guid](#)

## Text

```
[Required(ErrorMessage = "{0} is required.", AllowEmptyStrings = false)]  
public string Text { get; set; }
```

Property Value

[string](#) ↗

## UserRoleId

```
public Guid? UserRoleGroupId { get; set; }
```

Property Value

[Guid](#) ↗?

# Class QuestionDetailModel

Namespace: [RaisedHands.Api.Models.Questions](#)

Assembly: RaisedHands.Api.dll

```
public class QuestionDetailModel
```

## Inheritance

[object](#) ← QuestionDetailModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Answered

```
public bool Answered { get; set; }
```

### Property Value

[bool](#)

## DateTime

```
public DateTime DateTime { get; set; }
```

### Property Value

[DateTime](#)

## Room

```
public Room Room { get; set; }
```

Property Value

[Room](#)

Text

```
public string Text { get; set; }
```

Property Value

[string](#)

UserRoleGroup

```
public UserRoleGroup UserRoleGroup { get; set; }
```

Property Value

[UserRoleGroup](#)

# Namespace RaisedHands.Api.Models.Rooms

## Classes

[RoomCreateModel](#)

[RoomCreateModelExtensions](#)

[RoomDetailModel](#)

[RoomDetailModelExtensions](#)

# Class RoomCreateModel

Namespace: [RaisedHands.Api.Models.Rooms](#)

Assembly: RaisedHands.Api.dll

```
public class RoomCreateModel
```

## Inheritance

[object](#) ← RoomCreateModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## GroupId

```
[Required(ErrorMessage = "{0} is required.", AllowEmptyStrings = false)]  
public Guid GroupId { get; set; }
```

### Property Value

[Guid](#)

## Name

```
[Required(ErrorMessage = "{0} is required.", AllowEmptyStrings = false)]  
public string Name { get; set; }
```

### Property Value

[string](#)

# Class RoomCreateModelExtensions

Namespace: [RaisedHands.Api.Models.Rooms](#)

Assembly: RaisedHands.Api.dll

```
public static class RoomCreateModelExtensions
```

## Inheritance

[object](#) ← RoomCreateModelExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Methods

### ToUpdate(Room)

```
public static RoomCreateModel ToUpdate(this Room source)
```

#### Parameters

source [Room](#)

#### Returns

[RoomCreateModel](#)

# Class RoomDetailModel

Namespace: [RaisedHands.Api.Models.Rooms](#)

Assembly: RaisedHands.Api.dll

```
public class RoomDetailModel
```

## Inheritance

[object](#) ← RoomDetailModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## DateTime

```
public DateTime DateTime { get; set; }
```

### Property Value

[DateTime](#)

## EndDate

```
public DateTime? EndDate { get; set; }
```

### Property Value

[DateTime](#)?

## GroupId

```
public Group GroupId { get; set; }
```

Property Value

[Group](#)

Id

```
public Guid Id { get; set; }
```

Property Value

[Guid](#)

Name

```
public string Name { get; set; }
```

Property Value

[string](#)

# Class RoomDetailModelExtensions

Namespace: [RaisedHands.Api.Models.Rooms](#)

Assembly: RaisedHands.Api.dll

```
public static class RoomDetailModelExtensions
```

## Inheritance

[object](#) ← RoomDetailModelExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Methods

### ToDetail(Room)

```
public static RoomDetailModel ToDetail(this Room source)
```

#### Parameters

source [Room](#)

#### Returns

[RoomDetailModel](#)

# Namespace RaisedHands.Api.Models.Users

## Classes

[UserDetailModel](#)

[UserDetailModelExtensions](#)

# Class UserDetailModel

Namespace: [RaisedHands.Api.Models.Users](#)

Assembly: RaisedHands.Api.dll

```
public class UserDetailModel
```

## Inheritance

[object](#) ← UserDetailModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## FirstName

```
public string FirstName { get; set; }
```

## Property Value

[string](#)

## Id

```
public Guid Id { get; set; }
```

## Property Value

[Guid](#)

## LastName

```
public string LastName { get; set; }
```

Property Value

[string](#) ↗

# Class UserDetailModelExtensions

Namespace: [RaisedHands.Api.Models.Users](#)

Assembly: RaisedHands.Api.dll

```
public static class UserDetailModelExtensions
```

## Inheritance

[object](#) ← UserDetailModelExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Methods

### ToDetail(User)

```
public static UserDetailModel ToDetail(this User source)
```

#### Parameters

source [User](#)

#### Returns

[UserDetailModel](#)

# Namespace RaisedHands.Api.Services

## Classes

[EmailSenderService](#)

# Class EmailSenderService

Namespace: [RaisedHands.Api.Services](#)

Assembly: RaisedHands.Api.dll

```
public class EmailSenderService
```

## Inheritance

[object](#) ← EmailSenderService

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

EmailSenderService(IClock, AppDbContext,  
IOptionsSnapshot<SmtpSettings>)

```
public EmailSenderService(IClock clock, AppDbContext dbContext,  
IOptionsSnapshot<SmtpSettings> smtpSettings)
```

## Parameters

clock [IClock](#)

dbContext [AppDbContext](#)

smtpSettings [IOptionsSnapshot](#)<SmtpSettings>

## Methods

AddEmailToSendAsync(string, string, string)

```
public Task AddEmailToSendAsync(string receiver, string subject, string body)
```

Parameters

`receiver` [string](#)

`subject` [string](#)

`body` [string](#)

Returns

[Task](#)

## SendEmailsAsync()

`public Task SendEmailsAsync()`

Returns

[Task](#)

# Namespace RaisedHands.Api.Settings

## Classes

[SmtpSettings](#)

# Class SmtpSettings

Namespace: [RaisedHands.Api.Settings](#)

Assembly: RaisedHands.Api.dll

```
public class SmtpSettings
```

## Inheritance

[object](#) ← SmtpSettings

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Host

```
public string Host { get; set; }
```

## Property Value

[string](#)

## Password

```
public string Password { get; set; }
```

## Property Value

[string](#)

## Port

```
public int Port { get; set; }
```

Property Value

[int ↗](#)

## Sender

```
public string Sender { get; set; }
```

Property Value

[string ↗](#)

## UserName

```
public string UserName { get; set; }
```

Property Value

[string ↗](#)

# Namespace RaisedHands.Api.Utilities

## Classes

[ClaimsPrincipalExtensions](#)

# Class ClaimsPrincipalExtensions

Namespace: [RaisedHands.Api.Utilities](#)

Assembly: RaisedHands.Data.dll

```
public static class ClaimsPrincipalExtensions
```

## Inheritance

[object](#) ← ClaimsPrincipalExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## GetName(ClaimsPrincipal)

```
public static string GetName(this ClaimsPrincipal user)
```

### Parameters

user [ClaimsPrincipal](#)

### Returns

[string](#)

## GetUserId(ClaimsPrincipal)

```
public static Guid GetUserId(this ClaimsPrincipal user)
```

### Parameters

user [ClaimsPrincipal](#)

## Returns

[Guid](#) ↗

# Namespace RaisedHands.Data

## Classes

[AppDbContext](#)

# Class AppDbContext

Namespace: [RaisedHands.Data](#)

Assembly: RaisedHands.Data.dll

```
public class AppDbContext : IdentityDbContext<User, Role, Guid, IdentityUserClaim<Guid>, UserRole, IdentityUserLogin<Guid>, IdentityRoleClaim<Guid>, IdentityUserToken<Guid>>, IInfrastructure<IServiceProvider>, IDbContextDependencies, IDbSetCache, IDbContextPoolable, IResettableService, IDisposable, IAsyncDisposable
```

## Inheritance

```
object ↳ DbContext ↳
IdentityUserContext<User, Guid>, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid> >> ↳
IdentityDbContext<User, Role, Guid>, IdentityUserClaim<Guid>, UserRole, IdentityUserLogin<Guid> < Guid >, IdentityRoleClaim<Guid>, IdentityUserToken<Guid> >> <
AppDbContext
```

## Implements

```
IInfrastructure<IServiceProvider>, IDbContextDependencies, IDbSetCache, IDbContextPoolable,
IResettableService, IDisposable, IAsyncDisposable
```

## Inherited Members

```
IdentityDbContext<User, Role, Guid, IdentityUserClaim<Guid>, UserRole, IdentityUserLogin<Guid>, IdentityRoleClaim<Guid>, IdentityUserToken<Guid>>.OnModelCreating(ModelBuilder) ,
IdentityDbContext<User, Role, Guid, IdentityUserClaim<Guid>, UserRole, IdentityUserLogin<Guid>, IdentityRoleClaim<Guid>, IdentityUserToken<Guid>>.UserRoles ,
IdentityDbContext<User, Role, Guid, IdentityUserClaim<Guid>, UserRole, IdentityUserLogin<Guid>, IdentityRoleClaim<Guid>, IdentityUserToken<Guid>>.Roles ,
IdentityDbContext<User, Role, Guid, IdentityUserClaim<Guid>, UserRole, IdentityUserLogin<Guid>, IdentityRoleClaim<Guid>, IdentityUserToken<Guid>>.RoleClaims ,
IdentityUserContext<User, Guid, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid>>.OnModelCreating(ModelBuilder) ,
IdentityUserContext<User, Guid, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid>>.Users ,
IdentityUserContext<User, Guid, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid>>.UserClaims ,
IdentityUserContext<User, Guid, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid>>.UserLogins ,
```

[IdentityUserContext<User, Guid, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid>>.UserTokens](#) ,  
[IdentityUserContext<User, Guid, IdentityUserClaim<Guid>, IdentityUserLogin<Guid>, IdentityUserToken<Guid>>.SchemaVersion](#) ,  
[DbContext.Set< TEntity >\(\)](#) , [DbContext.Set< TEntity >\(string\)](#) ,  
[DbContext.OnConfiguring\(DbContextOptionsBuilder\)](#) ,  
[DbContext.ConfigureConventions\(ModelConfigurationBuilder\)](#) , [DbContext.SaveChanges\(\)](#) ,  
[DbContext.SaveChanges\(bool\)](#) , [DbContext.SaveChangesAsync\(CancellationToken\)](#) ,  
[DbContext.SaveChangesAsync\(bool, CancellationToken\)](#) , [DbContext.Dispose\(\)](#) ,  
[DbContext.DisposeAsync\(\)](#) , [DbContext.Entry< TEntity >\(TEntity\)](#) , [DbContext.Entry\(object\)](#) ,  
[DbContext.Add< TEntity >\(TEntity\)](#) , [DbContext.AddAsync< TEntity >\(TEntity, CancellationToken\)](#) ,  
[DbContext.Attach< TEntity >\(TEntity\)](#) , [DbContext.Update< TEntity >\(TEntity\)](#) ,  
[DbContext.Remove< TEntity >\(TEntity\)](#) , [DbContext.Add\(object\)](#) ,  
[DbContext.AddAsync\(object, CancellationToken\)](#) , [DbContext.Attach\(object\)](#) ,  
[DbContext.Update\(object\)](#) , [DbContext.Remove\(object\)](#) , [DbContext.AddRange\(params object\[\]\)](#) ,  
[DbContext.AddRangeAsync\(params object\[\]\)](#) , [DbContext.AttachRange\(params object\[\]\)](#) ,  
[DbContext.UpdateRange\(params object\[\]\)](#) , [DbContext.RemoveRange\(params object\[\]\)](#) ,  
[DbContext.AddRange\(IEnumerable< object >\)](#) ,  
[DbContext.AddRangeAsync\(IEnumerable< object >, CancellationToken\)](#) ,  
[DbContext.AttachRange\(IEnumerable< object >\)](#) , [DbContext.UpdateRange\(IEnumerable< object >\)](#) ,  
[DbContext.RemoveRange\(IEnumerable< object >\)](#) , [DbContext.Find\(Type, params object\[\]\)](#) ,  
[DbContext.FindAsync\(Type, params object\[\]\)](#) ,  
[DbContext.FindAsync\(Type, object\[\], CancellationToken\)](#) , [DbContext.Find< TEntity >\(params object\[\]\)](#) ,  
[DbContext.FindAsync< TEntity >\(params object\[\]\)](#) ,  
[DbContext.FindAsync< TEntity >\(object\[\], CancellationToken\)](#) ,  
[DbContext.FromExpression< TResult >\(Expression< Func< IQueryables< TResult > > \)](#) ,  
[DbContext.Database](#) , [DbContext.ChangeTracker](#) , [DbContext.Model](#) , [DbContext.ContextId](#) ,  
[DbContext.SavingChanges](#) , [DbContext.SavedChanges](#) , [DbContext.SaveChangesFailed](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### AppDbContext(DbContextOptions)

```
public AppDbContext(DbContextOptions options)
```

## Parameters

options [DbContextOptions](#)

## Properties

### Emails

```
public DbSet<Email> Emails { get; set; }
```

Property Value

[DbSet](#)<[Email](#)>

### Groups

```
public DbSet<Group> Groups { get; set; }
```

Property Value

[DbSet](#)<[Group](#)>

### Hands

```
public DbSet<Hand> Hands { get; set; }
```

Property Value

[DbSet](#)<[Hand](#)>

### Questions

```
public DbSet<Question> Questions { get; set; }
```

Property Value

[DbSet](#) <Question>

## Rooms

```
public DbSet<Room> Rooms { get; set; }
```

### Property Value

[DbSet](#) <[Room](#)>

## UserGroups

```
public DbSet<UserRoleGroup> UserGroups { get; set; }
```

### Property Value

[DbSet](#) <[UserRoleGroup](#)>

## Methods

### OnModelCreating(ModelBuilder)

Configures the schema needed for the identity framework.

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
```

### Parameters

`modelBuilder` [ModelBuilder](#)

# Namespace RaisedHands.Data.Entities

## Classes

[Email](#)

[Group](#)

[GroupExtensions](#)

[Hand](#)

[Question](#)

[Role](#)

[Room](#)

[RoomExtensions](#)

[User](#)

[UserRole](#)

[UserRoleGroup](#)

# Class Email

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
[Table("Email")]
public class Email : ITrackable
```

## Inheritance

[object](#) ← Email

## Implements

[ITrackable](#)

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Extension Methods

[ITrackableExtensions.SetCreateBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetCreateBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBy<T>\(T, string, Instant\)](#).

# Properties

## Body

```
public string Body { get; set; }
```

## Property Value

[string](#)

## CreatedAt

```
public Instant CreatedAt { get; set; }
```

Property Value

[Instant](#) ↗

## CreatedBy

```
public string CreatedBy { get; set; }
```

Property Value

[string](#) ↗

## DeletedAt

```
public Instant? DeletedAt { get; set; }
```

Property Value

[Instant](#) ↗?

## DeletedBy

```
public string? DeletedBy { get; set; }
```

Property Value

[string](#) ↗

## Id

```
public Guid Id { get; set; }
```

Property Value

[Guid](#) ↗

ModifiedAt

```
public Instant ModifiedAt { get; set; }
```

Property Value

[Instant](#) ↗

ModifiedBy

```
public string ModifiedBy { get; set; }
```

Property Value

[string](#) ↗

Receiver

```
public string Receiver { get; set; }
```

Property Value

[string](#) ↗

ScheduledAt

```
public Instant ScheduledAt { get; set; }
```

Property Value

[Instant](#) ↗

## Sender

```
public string Sender { get; set; }
```

Property Value

[string](#) ↗

## SentAt

```
public Instant? SentAt { get; set; }
```

Property Value

[Instant](#) ↗?

## Subject

```
public string Subject { get; set; }
```

Property Value

[string](#) ↗

# Class Group

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class Group : ITrackable
```

## Inheritance

[object](#) ← Group

## Implements

[ITrackable](#)

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Extension Methods

[ITrackableExtensions.SetCreateBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetCreateBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBy<T>\(T, string, Instant\)](#).

# Properties

## Code

```
public string Code { get; set; }
```

## Property Value

[string](#)

## CreatedAt

```
public Instant CreatedAt { get; set; }
```

Property Value

[Instant](#) ↗

## CreatedBy

```
public string CreatedBy { get; set; }
```

Property Value

[string](#) ↗

## DeletedAt

```
public Instant? DeletedAt { get; set; }
```

Property Value

[Instant](#) ↗?

## DeletedBy

```
public string? DeletedBy { get; set; }
```

Property Value

[string](#) ↗

## Id

```
public Guid Id { get; set; }
```

Property Value

[Guid](#) ↗

ModifiedAt

```
public Instant ModifiedAt { get; set; }
```

Property Value

[Instant](#) ↗

ModifiedBy

```
public string ModifiedBy { get; set; }
```

Property Value

[string](#) ↗

Name

```
public string Name { get; set; }
```

Property Value

[string](#) ↗

Owner

```
public User Owner { get; set; }
```

Property Value

[User](#)

OwnerId

```
public Guid OwnerId { get; set; }
```

Property Value

[Guid](#)

Rooms

```
public ICollection<Room> Rooms { get; set; }
```

Property Value

[ICollection](#) <[Room](#)>

UserGroups

```
public ICollection<UserRoleGroup> UserGroups { get; set; }
```

Property Value

[ICollection](#) <[UserRoleGroup](#)>

# Class GroupExtensions

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public static class GroupExtensions
```

## Inheritance

[object](#) ← GroupExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## FilterDeleted(IQueryable<Group>)

```
public static IQueryable<Group> FilterDeleted(this IQueryable<Group> query)
```

### Parameters

query [IQueryable](#)<[Group](#)>

### Returns

[IQueryable](#)<[Group](#)>

# Class Hand

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class Hand
```

## Inheritance

[object](#) ← Hand

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Answered

```
public bool Answered { get; set; }
```

## Property Value

[bool](#)

## DateTime

```
public DateTime DateTime { get; set; }
```

## Property Value

[DateTime](#)

## Id

```
public Guid Id { get; set; }
```

Property Value

[Guid](#) ↗

Room

```
public Room Room { get; set; }
```

Property Value

[Room](#)

RoomId

```
public Guid RoomId { get; set; }
```

Property Value

[Guid](#) ↗

UserRoleGroup

```
public UserRoleGroup UserRoleGroup { get; set; }
```

Property Value

[UserRoleGroup](#)

UserRoleGroupId

```
public Guid UserRoleGroupId { get; set; }
```

## Property Value

[Guid](#) ↗

# Class Question

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class Question
```

Inheritance

[object](#) ← Question

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

Answered

```
public bool Answered { get; set; }
```

Property Value

[bool](#)

DateTime

```
public DateTime DateTime { get; set; }
```

Property Value

[DateTime](#)

Id

```
public Guid Id { get; set; }
```

Property Value

[Guid](#) ↗

## IsAnonymous

```
public bool IsAnonymous { get; set; }
```

Property Value

[bool](#) ↗

## Room

```
public Room Room { get; set; }
```

Property Value

[Room](#)

## RoomId

```
public Guid RoomId { get; set; }
```

Property Value

[Guid](#) ↗

## Text

```
public string Text { get; set; }
```

Property Value

[string](#) ↗

## UserRoleGroup

```
public UserRoleGroup? UserRoleGroup { get; set; }
```

Property Value

[UserRoleGroup](#)

## UserRoleGroupId

```
public Guid? UserRoleGroupId { get; set; }
```

Property Value

[Guid](#) ↗?

# Class Role

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class Role : IdentityRole<Guid>
```

## Inheritance

[object](#) ← [IdentityRole](#)<[Guid](#)> ← Role

## Inherited Members

[IdentityRole<Guid>.ToString\(\)](#) , [IdentityRole<Guid>.Id](#) , [IdentityRole<Guid>.Name](#) ,  
[IdentityRole<Guid>.NormalizedName](#) , [IdentityRole<Guid>.ConcurrencyStamp](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

# Properties

## Users

```
public ICollection<UserRole> Users { get; set; }
```

## Property Value

[ICollection](#)<[UserRole](#)>

# Class Room

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class Room : ITrackable
```

## Inheritance

[object](#) ← Room

## Implements

[ITrackable](#)

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Extension Methods

[ITrackableExtensions.SetCreateBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetCreateBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBy<T>\(T, string, Instant\)](#).

# Properties

## CreatedAt

```
public Instant CreatedAt { get; set; }
```

## Property Value

[Instant](#)

## CreatedBy

```
public string CreatedBy { get; set; }
```

Property Value

[string](#) ↗

DateTime

```
public DateTime DateTime { get; set; }
```

Property Value

[DateTime](#) ↗

DeletedAt

```
public Instant? DeletedAt { get; set; }
```

Property Value

[Instant](#) ↗?

DeletedBy

```
public string? DeletedBy { get; set; }
```

Property Value

[string](#) ↗

EndDate

```
public DateTime? EndDate { get; set; }
```

Property Value

[DateTime](#)?

Group

```
public Group Group { get; set; }
```

Property Value

[Group](#)

GroupId

```
public Guid GroupId { get; set; }
```

Property Value

[Guid](#)

Id

```
public Guid Id { get; set; }
```

Property Value

[Guid](#)

ModifiedAt

```
public Instant ModifiedAt { get; set; }
```

Property Value

[Instant](#) ↗

ModifiedBy

```
public string ModifiedBy { get; set; }
```

Property Value

[string](#) ↗

Name

```
public string Name { get; set; }
```

Property Value

[string](#) ↗

# Class RoomExtensions

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public static class RoomExtensions
```

## Inheritance

[object](#) ← RoomExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## FilterDeleted(IQueryable<Room>)

```
public static IQueryable<Room> FilterDeleted(this IQueryable<Room> query)
```

### Parameters

query [IQueryable](#)<[Room](#)>

### Returns

[IQueryable](#)<[Room](#)>

# Class User

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
[Table("User")]
public class User : IdentityUser<Guid>, ITrackable
```

## Inheritance

[object](#) ← [IdentityUser](#)<[Guid](#)> ← User

## Implements

[ITrackable](#)

## Inherited Members

[IdentityUser<Guid>.ToString\(\)](#) , [IdentityUser<Guid>.Id](#) , [IdentityUser<Guid>.UserName](#) ,  
[IdentityUser<Guid>.NormalizedUserName](#) , [IdentityUser<Guid>.Email](#) ,  
[IdentityUser<Guid>.NormalizedEmail](#) , [IdentityUser<Guid>.EmailConfirmed](#) ,  
[IdentityUser<Guid>.PasswordHash](#) , [IdentityUser<Guid>.SecurityStamp](#) ,  
[IdentityUser<Guid>.ConcurrencyStamp](#) , [IdentityUser<Guid>.PhoneNumber](#) ,  
[IdentityUser<Guid>.PhoneNumberConfirmed](#) , [IdentityUser<Guid>.TwoFactorEnabled](#) ,  
[IdentityUser<Guid>.LockoutEnd](#) , [IdentityUser<Guid>.LockoutEnabled](#) ,  
[IdentityUser<Guid>.AccessFailedCount](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,  
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,  
[object.ReferenceEquals\(object, object\)](#)

## Extension Methods

[ITrackableExtensions.SetCreateBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetCreateBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBy<T>\(T, string, Instant\)](#).

# Properties

## CreatedAt

```
public Instant CreatedAt { get; set; }
```

Property Value

[Instant](#) ↗

CreatedBy

```
public string CreatedBy { get; set; }
```

Property Value

[string](#) ↗

DeletedAt

```
public Instant? DeletedAt { get; set; }
```

Property Value

[Instant](#) ↗?

DeletedBy

```
public string? DeletedBy { get; set; }
```

Property Value

[string](#) ↗

FirstName

```
public string FirstName { get; set; }
```

Property Value

[string](#) ↗

LastName

```
public string LastName { get; set; }
```

Property Value

[string](#) ↗

ModifiedAt

```
public Instant ModifiedAt { get; set; }
```

Property Value

[Instant](#) ↗

ModifiedBy

```
public string ModifiedBy { get; set; }
```

Property Value

[string](#) ↗

Roles

```
public ICollection<UserRole> Roles { get; set; }
```

## Property Value

[ICollection](#) <[UserRole](#)>

# Class UserRole

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class UserRole : IdentityUserRole<Guid>
```

## Inheritance

[object](#) ← [IdentityUserRole](#)<[Guid](#)> ← UserRole

## Inherited Members

[IdentityUserRole<Guid>.UserId](#) , [IdentityUserRole<Guid>.RoleId](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Id

[Key]  
public Guid Id { get; set; }

## Property Value

[Guid](#)

## Role

```
public Role Role { get; set; }
```

## Property Value

[Role](#)

## User

```
public User User { get; set; }
```

### Property Value

[User](#)

## UserGroups

```
public ICollection<UserRoleGroup> UserGroups { get; set; }
```

### Property Value

[ICollection](#) <[UserRoleGroup](#)>

# Class UserRoleGroup

Namespace: [RaisedHands.Data.Entities](#)

Assembly: RaisedHands.Data.dll

```
public class UserRoleGroup
```

## Inheritance

[object](#) ← UserRoleGroup

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Group

```
public Group Group { get; set; }
```

### Property Value

[Group](#)

## GroupId

```
public Guid GroupId { get; set; }
```

### Property Value

[Guid](#)

## Id

```
public Guid Id { get; set; }
```

Property Value

[Guid ↗](#)

## UserRole

```
public UserRole UserRole { get; set; }
```

Property Value

[UserRole](#)

## UserRoleId

```
public Guid UserId { get; set; }
```

Property Value

[Guid ↗](#)

# Namespace RaisedHands.Data.Interfaces

## Classes

[ITrackableExtensions](#)

## Interfaces

[ITrackable](#)

# Interface ITrackable

Namespace: [RaisedHands.Data.Interfaces](#)

Assembly: RaisedHands.Data.dll

```
public interface ITrackable
```

## Extension Methods

[ITrackableExtensions.SetCreateBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetCreateBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetDeleteBy<T>\(T, string, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBySystem<T>\(T, Instant\)](#) ,  
[ITrackableExtensions.SetModifyBy<T>\(T, string, Instant\)](#).

## Properties

### CreatedAt

```
Instant CreatedAt { get; set; }
```

#### Property Value

[Instant](#) ↗

### CreatedBy

```
string CreatedBy { get; set; }
```

#### Property Value

[string](#) ↗

### DeletedAt

```
Instant? DeletedAt { get; set; }
```

Property Value

[Instant](#)?

## DeletedBy

```
string? DeletedBy { get; set; }
```

Property Value

[string](#)

## ModifiedAt

```
Instant ModifiedAt { get; set; }
```

Property Value

[Instant](#)

## ModifiedBy

```
string ModifiedBy { get; set; }
```

Property Value

[string](#)

# Class ITrackableExtensions

Namespace: [RaisedHands.Data.Interfaces](#)

Assembly: RaisedHands.Data.dll

```
public static class ITrackableExtensions
```

## Inheritance

[object](#) ← ITrackableExtensions

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Methods

### SetCreateBySystem<T>(T, Instant)

```
public static T SetCreateBySystem<T>(this T trackable, Instant now) where T :  
class, ITrackable
```

#### Parameters

trackable T

now [Instant](#)

#### Returns

T

#### Type Parameters

T

### SetCreateBy<T>(T, string, Instant)

```
public static T SetCreateBy<T>(this T trackable, string author, Instant now) where T :  
class, ITrackable
```

Parameters

trackable T

author [string](#)

now [Instant](#)

Returns

T

Type Parameters

T

## SetDeleteBySystem<T>(T, Instant)

```
public static T SetDeleteBySystem<T>(this T trackable, Instant now) where T :  
class, ITrackable
```

Parameters

trackable T

now [Instant](#)

Returns

T

Type Parameters

T

## SetDeleteBy<T>(T, string, Instant)

```
public static T SetDeleteBy<T>(this T trackable, string author, Instant now) where T :  
    class, ITrackable
```

### Parameters

trackable T

author [string](#)

now [Instant](#)

### Returns

T

### Type Parameters

T

## SetModifyBySystem<T>(T, Instant)

```
public static T SetModifyBySystem<T>(this T trackable, Instant now) where T :  
    class, ITrackable
```

### Parameters

trackable T

now [Instant](#)

### Returns

T

### Type Parameters

T

## SetModifyBy<T>(T, string, Instant)

```
public static T SetModifyBy<T>(this T trackable, string author, Instant now) where T :  
    class, ITrackable
```

### Parameters

trackable T

author [string](#)

now [Instant](#)

### Returns

T

### Type Parameters

T

# Namespace RaisedHands.Data.Migrations

## Classes

### [Init](#)

A base class inherited by each EF Core migration.

# Class Init

Namespace: [RaisedHands.Data.Migrations](#)

Assembly: RaisedHands.Data.dll

A base class inherited by each EF Core migration.

```
[DbContext(typeof(AppDbContext))]
[Migration("20241211093427_Init")]
public class Init : Migration
```

## Inheritance

[object](#) ← [Migration](#) ← Init

## Inherited Members

[Migration.InitialDatabase](#) , [Migration.TargetModel](#) , [Migration.UpOperations](#) ,  
[Migration.DownOperations](#) , [Migration.ActiveProvider](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

See [Database migrations](#) for more information and examples.

## Methods

### BuildTargetModel(ModelBuilder)

Implemented to build the [TargetModel](#).

```
protected override void BuildTargetModel(ModelBuilder modelBuilder)
```

## Parameters

`modelBuilder` [ModelBuilder](#)

The [ModelBuilder](#) to use to build the model.

## Remarks

See [Database migrations](#) for more information and examples.

## Down(MigrationBuilder)

Builds the operations that will migrate the database 'down'.

```
protected override void Down(MigrationBuilder migrationBuilder)
```

### Parameters

`migrationBuilder` [MigrationBuilder](#)

The [MigrationBuilder](#) that will build the operations.

### Remarks

That is, builds the operations that will take the database from the state left in by this migration so that it returns to the state that it was in before this migration was applied.

This method must be overridden in each class that inherits from [Migration](#) if both 'up' and 'down' migrations are to be supported. If it is not overridden, then calling it will throw and it will not be possible to migrate in the 'down' direction.

See [Database migrations](#) for more information and examples.

## Up(MigrationBuilder)

Builds the operations that will migrate the database 'up'.

```
protected override void Up(MigrationBuilder migrationBuilder)
```

### Parameters

`migrationBuilder` [MigrationBuilder](#)

The [MigrationBuilder](#) that will build the operations.

### Remarks

That is, builds the operations that will take the database from the state left in by the previous migration so that it is up-to-date with regard to this migration.

This method must be overridden in each class that inherits from [Migration](#).

See [Database migrations](#) for more information and examples.