

Namespace Quickie.Apis.Crud

Classes

[CrudController<TViewModel, TRequestHandler, TIdType>](#)

Base class providing CRUD apis.

[CrudForCollectionController<TViewModel, TRequestHandler, TIdType>](#)

Base class providing CRUD apis in collection.

Class CrudController<TViewModel, TRequestHandler, TIdType>

Namespace: [Quickie.Apis.Crud](#)

Assembly: Quickie.dll

Base class providing CRUD apis.

```
public class CrudController<TViewModel, TRequestHandler, TIdType> : QuickieBaseApi where
    TViewModel : CrudDto where TRequestHandler : ICrudRequestHandler<TViewModel, TIdType> where
    TIdType : IComparable
```

Type Parameters

TViewModel

Dto.

TRequestHandler

Request handler (Service layer).

TIdType

Type of your primary key.

Inheritance

```
object ↵ ← ControllerBase ↵ ← QuickieBaseApi ←
CrudController<TViewModel, TRequestHandler, TIdType>
```

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\(string, string, object\)](#) ,
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 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\)](#) ,
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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

CrudController(TRequestHandler)

Base class providing CRUD apis.

```
public CrudController(TRequestHandler requestHandler)
```

Parameters

requestHandler TRequestHandler

Request handler (Service layer)

Methods

CreateAsync(string?, TVViewModel, CancellationToken)

Create data.

```
[HttpPost]
public Task<ActionResult<ResponseObj<TVViewModel>>> CreateAsync(string? idempotencyKey,
TVViewModel request, CancellationToken cancellationToken = default)
```

Parameters

idempotencyKey [string](#)

Idempotency key

request TVViewModel

Requested data to create

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

HTTP 201 Created, or 400 BadRequest.

DeleteAsync(TIdType, CancellationToken)

Delete data

```
[HttpDelete("{id}")]
public Task<ActionResult<ResponseObj>> DeleteAsync(TIdType id, CancellationToken
cancellationToken = default)
```

Parameters

id TIdType

Identifier of data

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

HTTP 204 NoContent or 400 BadRequest.

GetByIdAsync(TIdType, CancellationToken)

Get data by id.

```
[HttpGet("{id}")]
public Task<ActionResult<ResponseObj<TViewModel>>> GetByIdAsync(TIdType id,
cancellationToken cancellationToken = default)
```

Parameters

id TIdType

Identifier

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

HTTP 200 Ok, 404 NotFound, or 400 BadRequest.

UpdateAsync(TIdType, TViewModel, CancellationToken)

Update data.

```
[HttpPut("{id}")]
public Task<ActionResult<ResponseObj<TViewModel>>> UpdateAsync(TIdType id, TViewModel
request, CancellationToken cancellationToken = default)
```

Parameters

id TIdType

Identifier of data

request TViewModel

Requested data to update

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

HTTP 200 Ok, or 400 BadRequest.

Class

CrudForCollectionController<TViewModel, TRequestHandler, TIdType>

Namespace: [Quickie.Apis.Crud](#)

Assembly: Quickie.dll

Base class providing CRUD apis in collection.

```
public class CrudForCollectionController<TViewModel, TRequestHandler, TIdType> :  
    QuickieBaseApi where TViewModel : CrudDto where TRequestHandler :  
        ICrudForCollectionRequestHandler<TViewModel, TIdType> where TIdType : IComparable
```

Type Parameters

TViewModel

Dto

TRequestHandler

Request handler (Service layer)

TIdType

Type of your primary key.

Inheritance

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

CrudForCollectionController<TViewModel, TRequestHandler, TIdType>

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

Constructors

CrudForCollectionController(TRequestHandler)

Base class providing CRUD apis in collection.

```
public CrudForCollectionController(TRequestHandler requestHandler)
```

Parameters

`requestHandler` TRequestHandler

Methods

CountAsync(CancellationToken)

Total count of data.

```
[HttpGet("items/count")]
public Task<ActionResult<ResponseObj<int>>> CountAsync(CancellationToken cancellationToken
= default)
```

Parameters

`cancellationToken` [CancellationToken](#)

Cancellation token

Returns

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

HTTP 200 Ok or 400 BadRequest.

CreateAsync(string?, ICollection<TViewModel>, CancellationToken)

Create collection of data.

```
[HttpPost("items")]
public Task<ActionResult<ResponseObj<ICollection<TViewModel>>> CreateAsync(string?
idempotencyKey, ICollection<TViewModel> request, CancellationToken cancellationToken
= default)
```

Parameters

idempotencyKey [string](#)

Idempotency key.

request [ICollection](#)<TViewModel>

Requested data to create.

cancellationToken [CancellationToken](#)

Cancellation token

Returns

[Task](#)<[ActionResult](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>>

HTTP 201 Created, or 400 BadRequest.

DeleteAsync(ICollection<TIdType>, CancellationToken)

DELETE request for collection of data.

```
[HttpDelete("items")]
public Task<ActionResult<ResponseObj>> DeleteAsync(ICollection<TIdType> ids,
CancellationToken cancellationToken = default)
```

Parameters

ids [ICollection](#)<TIdType>

Collection of id.

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

HTTP 204 NoContent or 400 BadRequest.

GetAllAsync(RequestForDataObj, CancellationToken)

Get all data. (Paginated)

```
[HttpGet("items")]
public Task<ActionResult<ResponseObj<PaginatedDataObj<TViewModel>>>>
GetAllAsync(RequestForDataObj request, CancellationToken cancellationToken = default)
```

Parameters

request [RequestForDataObj](#)

Request object.

cancellationToken [CancellationToken](#)

Cancellation token

Returns

[Task](#) <[ActionResult](#) <[ResponseObj](#)<[PaginatedDataObj](#)<[TViewModel](#)>>>>

HTTP 200 Ok, 404 NotFound, or 400 BadRequest.

UpdateAsync(ICollection<TViewModel>, CancellationToken)

Update collection of data.

```
[HttpPut("items")]
public Task<ActionResult<ResponseObj<ICollection<TViewModel>>>>
UpdateAsync(ICollection<TViewModel> request, CancellationToken cancellationToken = default)
```

Parameters

`request` [ICollection](#)<TViewModel>

Requested data to update

`cancellationToken` [CancellationToken](#)

Cancellation token

Returns

[Task](#)<[ActionResult](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>>

HTTP 200 Ok, or 400 BadRequest.

Namespace Quickie.Apis.Editonly

Classes

[EditOnlyController<TViewModel, TRequestHandler, TIdType>](#)

Base class providing Edit-Only APIs.

Class EditOnlyController<TViewModel, TRequestHandler, TIdType>

Namespace: [Quickie.Apis.Editonly](#)

Assembly: Quickie.dll

Base class providing Edit-Only APIs.

```
public class EditOnlyController<TViewModel, TRequestHandler, TIdType> : QuickieBaseApi where
    TViewModel : EditOnlyDto where TRequestHandler : IEditionRequestHandler<TViewModel,
    TIdType> where TIdType : IComparable
```

Type Parameters

TViewModel

Dto

TRequestHandler

Request handler (Service layer)

TIdType

Type of your primary key

Inheritance

```
object ↵ ← ControllerBase ↵ ← QuickieBaseApi ←
EditOnlyController<TViewModel, TRequestHandler, TIdType>
```

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\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToRoute\(string\)](#) , [ControllerBase.RedirectToRoute\(object\)](#) ,
 [ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,
 [ControllerBase.RedirectToRoute\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(object\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#) ,
 [ControllerBase.RedirectToPage\(string\)](#) , [ControllerBase.RedirectToPage\(string, object\)](#) ,
 [ControllerBase.RedirectToPage\(string, string\)](#) , [ControllerBase.RedirectToPage\(string, string, object\)](#) ,
 [ControllerBase.RedirectToPage\(string, string, string\)](#) ,
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#) ,
 [ControllerBase.File\(byte\[\], string\)](#) , [ControllerBase.File\(byte\[\], string, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, string\)](#) , [ControllerBase.File\(byte\[\], string, string, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,

[ControllerBase.File\(Stream, string\) ↗](#), [ControllerBase.File\(Stream, string, bool\) ↗](#),
 [ControllerBase.File\(Stream, string, string\) ↗](#), [ControllerBase.File\(Stream, string, string, bool\) ↗](#),
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\) ↗](#),
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\) ↗](#),
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\) ↗](#),
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\) ↗](#),
 [ControllerBase.File\(string, string\) ↗](#), [ControllerBase.File\(string, string, bool\) ↗](#),
 [ControllerBase.File\(string, string, string\) ↗](#), [ControllerBase.File\(string, string, string, bool\) ↗](#),
 [ControllerBase.File\(string, string, DateTimeOffset?\) ↗](#), [ControllerBase.EntityTagHeaderValue\) ↗](#),
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\) ↗](#),
 [ControllerBase.File\(string, string, DateOffset?, EntityTagHeaderValue\) ↗](#),
 [ControllerBase.File\(string, string, string, DateOffset?, EntityTagHeaderValue\) ↗](#),
 [ControllerBase.File\(string, string, string, DateOffset?, EntityTagHeaderValue, bool\) ↗](#),
 [ControllerBase.PhysicalFile\(string, string\) ↗](#), [ControllerBase.PhysicalFile\(string, string, bool\) ↗](#),
 [ControllerBase.PhysicalFile\(string, string, string\) ↗](#),
 [ControllerBase.PhysicalFile\(string, string, string, bool\) ↗](#),
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?\) ↗](#), [ControllerBase.EntityTagHeaderValue\) ↗](#),
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\) ↗](#),
 [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.Problem\(string, string, int?, string, string, IDictionary<string, object>\) ↗](#),
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\) ↗](#),
 [ControllerBase.ValidationProblem\(ModelStateDictionary\) ↗](#), [ControllerBase.ValidationProblem\(\) ↗](#),
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\) ↗](#),
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\) ↗](#),
 [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\(\) ↗](#),
 [ControllerBase.Accepted\(object\) ↗](#), [ControllerBase.Accepted\(Uri\) ↗](#), [ControllerBase.Accepted\(string\) ↗](#),
 [ControllerBase.Accepted\(string, object\) ↗](#), [ControllerBase.Accepted\(Uri, object\) ↗](#),

[ControllerBase.AcceptedAtAction\(string\)](#) , [ControllerBase.AcceptedAtAction\(string, string\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,
 [ControllerBase.AcceptedAtRoute\(object\)](#) , [ControllerBase.AcceptedAtRoute\(string\)](#) ,
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) , [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) , [ControllerBase.Challenge\(\)](#) ,
 [ControllerBase.Challenge\(params string\[\]\)](#) , [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,
 [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

EditOnlyController(IEditOnlyRequestHandler<TViewModel, TIdType>)

Base class providing Edit-Only APIs.

```
public EditOnlyController(IEditOnlyRequestHandler<TViewModel, TIdType> requestHandler)
```

Parameters

requestHandler [IEditOnlyRequestHandler<TViewModel, TIdType>](#)

Methods

EditAsync(TIdType, TViewModel, CancellationToken)

Edit a single item.

```
[HttpPut("{id}")]
public Task<ActionResult<ResponseObj<TViewModel>>> EditAsync(TIdType id, TViewModel
requestModel, CancellationToken cancellationToken = default)
```

Parameters

id TIdType

Identifier of the item

requestModel TViewModel

Data for editing

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

HTTP 200 Ok, or 400 BadRequest.

EditCollectionAsync(ICollection<TViewModel>, CancellationToken)

Edit a collection of items.

```
[HttpPut("items")]
public Task<ActionResult<ResponseObj<ICollection<TViewModel>>>>
EditCollectionAsync(ICollection<TViewModel> requestModels, CancellationToken
cancellationToken = default)
```

Parameters

requestModels [ICollection](#)<TViewModel>

Collection of items to edit

cancellationToken [CancellationToken](#)

Cancellation token

Returns

[Task](#)<[ActionResult](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>>

HTTP 200 Ok, or 400 BadRequest.

Namespace Quickie.Apis.Readonly

Classes

[ReadOnlyCollectionController<TViewModel, TRequestHandler, TRequestForDataModel, TIdType>](#)

Abstract base class for read-only (GET) operations on data collections, utilizing a request handler to manage read operations.

[ReadOnlyController<TViewModel, TRequestHandler, TIdType>](#)

Abstract base class for read-only (GETs) operations that utilize a request handler for managing read operations.

Class

ReadOnlyCollectionController<TViewModel, TRequestHandler, TRequestForDataModel, TIdType>

Namespace: [Quickie.Apis.Readonly](#)

Assembly: Quickie.dll

Abstract base class for read-only (GET) operations on data collections, utilizing a request handler to manage read operations.

```
public class ReadOnlyCollectionController<TViewModel, TRequestHandler, TRequestForDataModel,
TIdType> : QuickieBaseApi where TViewModel : ReadOnlyDto where TRequestHandler :
IReadOnlyCollectionRequestHandler<TViewModel, TIdType> where TRequestForDataModel :
RequestForDataObj where TIdType : IComparable
```

Type Parameters

TViewModel

The type of the view model that represents the data transfer object.

TRequestHandler

The type of the request handler that processes the read-only operations.

TRequestForDataModel

The type to provide request for collection of data.

TIdType

Type of identifier (string, int, double, Guid, ...)

Inheritance

[object](#) ↗ ← [ControllerBase](#) ↗ ← [QuickieBaseApi](#) ←

ReadOnlyCollectionController<TViewModel, TRequestHandler, TRequestForDataModel, TIdType>

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\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToRoute\(string\)](#) , [ControllerBase.RedirectToRoute\(object\)](#) ,
 [ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,
 [ControllerBase.RedirectToRoute\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(object\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#) ,
 [ControllerBase.RedirectToPage\(string\)](#) , [ControllerBase.RedirectToPage\(string, object\)](#) ,
 [ControllerBase.RedirectToPage\(string, string\)](#) , [ControllerBase.RedirectToPage\(string, string, object\)](#) ,
 [ControllerBase.RedirectToPage\(string, string, string\)](#) ,
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#) ,

[ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#) ,
 [ControllerBase.File\(byte\[\], string\)](#) , [ControllerBase.File\(byte\[\], string, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, string\)](#) , [ControllerBase.File\(byte\[\], string, string, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(Stream, string\)](#) , [ControllerBase.File\(Stream, string, bool\)](#) ,
 [ControllerBase.File\(Stream, string, string\)](#) , [ControllerBase.File\(Stream, string, string, bool\)](#) ,
 [ControllerBase.File\(Stream, string, DateTimeOffset?\)](#) ,
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?\)](#) ,
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
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 [ControllerBase.File\(string, string, string\)](#) , [ControllerBase.File\(string, string, string, bool\)](#) ,
 [ControllerBase.File\(string, string, DateTimeOffset?\)](#) ,
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(string, string, string, DateTimeOffset?\)](#) ,
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
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 [ControllerBase.PhysicalFile\(string, string, string\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [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.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) , [ControllerBase.ValidationProblem\(\)](#) ,
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,

[ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,
 [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\(\)](#) ,
 [ControllerBase.Accepted\(object\)](#) , [ControllerBase.Accepted\(Uri\)](#) , [ControllerBase.Accepted\(string\)](#) ,
 [ControllerBase.Accepted\(string, object\)](#) , [ControllerBase.Accepted\(Uri, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string\)](#) , [ControllerBase.AcceptedAtAction\(string, string\)](#) ,
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 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,
 [ControllerBase.AcceptedAtRoute\(object\)](#) , [ControllerBase.AcceptedAtRoute\(string\)](#) ,
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) , [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) , [ControllerBase.Challenge\(\)](#) ,
 [ControllerBase.Challenge\(params string\[\]\)](#) , [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,
 [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

ReadOnlyCollectionController(TRequestHandler)

Abstract base class for read-only (GET) operations on data collections, utilizing a request handler to manage read operations.

```
public ReadOnlyCollectionController(TRequestHandler requestHandler)
```

Parameters

requestHandler TRequestHandler

Methods

GetAsync(TRequestForDataModel, CancellationToken)

GET request based on some request.

```
[HttpGet("items")]
public Task<ActionResult<PaginatedDataObj<TViewModel>>> GetAsync(TRequestForDataModel
request, CancellationToken cancellationToken = default)
```

Parameters

request TRequestForDataModel

Data filtration and pagination request object.

`cancellationToken` [CancellationToken](#)

Cancellation token.

Returns

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

Paginated data with appropriate HTTP status codes.

Class ReadOnlyController<TViewModel, TRequestHandler, TIdType>

Namespace: [Quickie.Apis.Readonly](#)

Assembly: Quickie.dll

Abstract base class for read-only (GETs) operations that utilize a request handler for managing read operations.

```
public class ReadOnlyController<TViewModel, TRequestHandler, TIdType> : QuickieBaseApi where
    TViewModel : ReadOnlyDto where TRequestHandler : IReadOnlyRequestHandler<TViewModel,
    TIdType> where TIdType : IComparable
```

Type Parameters

TViewModel

The type of the view model that represents the data transfer object.

TRequestHandler

The type of the request handler that processes the read-only operations.

TIdType

Type of identifier (string, int, double, Guid, ...).

Inheritance

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

ReadOnlyController<TViewModel, TRequestHandler, TIdType>

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

Constructors

ReadOnlyController(TRequestHandler)

Abstract base class for read-only (GETs) operations that utilize a request handler for managing read operations.

```
public ReadOnlyController(TRequestHandler requestHandler)
```

Parameters

requestHandler TRequestHandler

Methods

GetByIdAsync(TIdType, CancellationToken)

```
[HttpGet("{id}")]
public Task<ActionResult<ResponseObj<TViewModel>>> GetByIdAsync(TIdType id,
CancellationToken cancellationToken = default)
```

Parameters

id TIdType

cancellationToken [CancellationToken](#)

Returns

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

Namespace Quickie.Apis.Writeonly

Classes

[WriteOnlyController<TViewModel, TRequestHandler>](#)

Class WriteOnlyController<TViewModel, TRequestHandler>

Namespace: [Quickie.Apis.Writeonly](#)

Assembly: Quickie.dll

```
public class WriteOnlyController<TViewModel, TRequestHandler> : QuickieBaseApi where
    TViewModel : WriteOnlyDto where TRequestHandler : IWriteOnlyRequestHandler<TViewModel>
```

Type Parameters

TViewModel

TRequestHandler

Inheritance

[object](#) ↗ ← [ControllerBase](#) ↗ ← [QuickieBaseApi](#) ← WriteOnlyController<TViewModel, TRequestHandler>

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

Constructors

WriteOnlyController(IWriteOnlyRequestHandler<TViewModel>)

```
public WriteOnlyController(IWriteOnlyRequestHandler<TViewModel> requestHandler)
```

Parameters

requestHandler [IWriteOnlyRequestHandler<TViewModel>](#)

Methods

CreateItemAsync(string?, TViewModel, CancellationToken)

Create a single item.

```
[HttpPost]  
public Task<ActionResult<ResponseObj<TViewModel>>> CreateItemAsync(string? idempotencyKey,  
TViewModel request, CancellationToken cancellationToken = default)
```

Parameters

idempotencyKey [string](#)

Idempotency key.

request TViewModel

Data to create

cancellationToken [CancellationToken](#)

Cancellation token

Returns

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

Response indicating success or failure of the operation.

CreateItemsAsync(string?, ICollection<TViewModel>, CancellationToken)

Create multiple items in bulk.

```
[HttpPost("items")]  
public Task<ActionResult<ResponseObj<ICollection<TViewModel>>>> CreateItemsAsync(string?  
idempotencyKey, ICollection<TViewModel> requests, CancellationToken cancellationToken  
= default)
```

Parameters

idempotencyKey [string](#)

idempotency key

requests [ICollection](#)<TViewModel>

Requested data to create

cancellationToken [CancellationToken](#)

Cancellation token

Returns

[Task](#)<[ActionResult](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>

Response indicating success or failure of the operation.

Namespace Quickie.Base

Classes

[QuickieBaseApi](#)

Ultimate base of quickie controllers (APIs)

Class QuickieBaseApi

Namespace: [Quickie.Base](#)

Assembly: Quickie.dll

Ultimate base of quickie controllers (APIs)

```
[EnableRateLimiting("Quickie-Rl-Policy")]
[ApiController]
[Route("api/[controller]")]
[Produces("application/json", new string[] { })]
public abstract class QuickieBaseApi : ControllerBase
```

Inheritance

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

Derived

[CrudController<TViewModel, TRequestHandler, TIdType>](#),
[CrudForCollectionController<TViewModel, TRequestHandler, TIdType>](#),
[EditOnlyController<TViewModel, TRequestHandler, TIdType>](#),
[ReadOnlyCollectionController<TViewModel, TRequestHandler, TRequestForDataModel, TIdType>](#),
[ReadOnlyController<TViewModel, TRequestHandler, TIdType>](#),
[WriteOnlyController<TViewModel, TRequestHandler>](#)

Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,
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 [ControllerBase.RedirectToRoute\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(object\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#) ,
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#) ,
 [ControllerBase.RedirectToPage\(string\)](#) , [ControllerBase.RedirectToPage\(string, object\)](#) ,
 [ControllerBase.RedirectToPage\(string, string\)](#) , [ControllerBase.RedirectToPage\(string, string, object\)](#) ,
 [ControllerBase.RedirectToPage\(string, string, string\)](#) ,
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#) ,
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#) ,
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#) ,
 [ControllerBase.File\(byte\[\], string\)](#) , [ControllerBase.File\(byte\[\], string, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, string\)](#) , [ControllerBase.File\(byte\[\], string, string, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(Stream, string\)](#) , [ControllerBase.File\(Stream, string, bool\)](#) ,
 [ControllerBase.File\(Stream, string, string\)](#) , [ControllerBase.File\(Stream, string, string, bool\)](#) ,
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,

[ControllerBase.File\(string, string\)](#) , [ControllerBase.File\(string, string, bool\)](#) ,
 [ControllerBase.File\(string, string, string\)](#) , [ControllerBase.File\(string, string, string, bool\)](#) ,
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.PhysicalFile\(string, string\)](#) , [ControllerBase.PhysicalFile\(string, string, bool\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,
 [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.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) , [ControllerBase.ValidationProblem\(\)](#) ,
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,
 [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\(\)](#) ,
 [ControllerBase.Accepted\(object\)](#) , [ControllerBase.Accepted\(Uri\)](#) , [ControllerBase.Accepted\(string\)](#) ,
 [ControllerBase.Accepted\(string, object\)](#) , [ControllerBase.Accepted\(Uri, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string\)](#) , [ControllerBase.AcceptedAtAction\(string, string\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,
 [ControllerBase.AcceptedAtRoute\(object\)](#) , [ControllerBase.AcceptedAtRoute\(string\)](#) ,

[ControllerBase.AcceptedAtRoute\(string, object\)](#) , [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) , [ControllerBase.Challenge\(\)](#) ,
 [ControllerBase.Challenge\(params string\[\]\)](#) , [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,
 [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\(\)](#)

Namespace Quickie.Configuration

Classes

[DependencyResolver](#)

Dependency resolver for data handlers.

[QuickieExtension](#)

Quickie extensions

[QuickieOptions](#)

Quickie options.

Class DependencyResolver

Namespace: [Quickie.Configuration](#)

Assembly: Quickie.dll

Dependency resolver for data handlers.

```
public static class DependencyResolver
```

Inheritance

[object](#) ← DependencyResolver

Inherited Members

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

Methods

AddDataHandlersDependency(IServiceCollection)

Add data handlers dependency.

```
public static IServiceCollection AddDataHandlersDependency(this IServiceCollection services)
```

Parameters

services [IServiceCollection](#)

Service collection

Returns

[IServiceCollection](#)

Class QuickieExtension

Namespace: [Quickie.Configuration](#)

Assembly: Quickie.dll

Quickie extensions

```
public static class QuickieExtension
```

Inheritance

[object](#) ← QuickieExtension

Inherited Members

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

Methods

AddQuickie(IApplicationBuilder)

Configures the application to use Quickie services and middleware based on provided options.

```
public static IApplicationBuilder AddQuickie(this IApplicationBuilder app)
```

Parameters

app [IApplicationBuilder](#)

Application request pipeline builder.

Returns

[IApplicationBuilder](#)

IApplicationBuilder

QuickieConfig(IServiceCollection, Action<QuickieOptions>?)

Registers Quickie services in the DI container, including all custom services.

```
public static IServiceCollection QuickieConfig(this IServiceCollection services,  
Action<QuickieOptions>? configureOptions = null)
```

Parameters

services [IServiceCollection](#)

DI register and resolver.

configureOptions [Action](#) <[QuickieOptions](#)>

Delegate to configure quickie option.

Returns

[IServiceCollection](#)

IServiceCollection

Class QuickieOptions

Namespace: [Quickie.Configuration](#)

Assembly: Quickie.dll

Quickie options.

```
public class QuickieOptions
```

Inheritance

[object](#) ← QuickieOptions

Inherited Members

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

Properties

IdempotencyConfiguration

Idempotency configuration

```
public IdempotentConfiguration? IdempotencyConfiguration { get; set; }
```

Property Value

[IdempotentConfiguration](#)

RateLimitingConfiguration

Rate limit configuration

```
public RateLimitConfiguration? RateLimitingConfiguration { get; set; }
```

Property Value

ShowCustomErrorMessage

Instead of exception message, `ResponseObj` will be returning custom message.

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

Property Value

[bool](#) ↗

Namespace Quickie.Configuration.Idempotency

Classes

[IdempotencyBackgroundService](#)

Background service to remove expired idempotency key.

[IdempotentConfiguration](#)

Interfaces

[IIdempotencyProvider](#)

Idempotency provider contract

Interface IIdempotencyProvider

Namespace: [Quickie.Configuration.Idempotency](#)

Assembly: Quickie.dll

Idempotency provider contract

```
public interface IIdempotencyProvider
```

Methods

ExistsAsync(string)

Check if the **key** is already used.

```
ValueTask<bool> ExistsAsync(string key)
```

Parameters

key [string](#)

Unique key

Returns

[ValueTask](#) <[bool](#)>

whether the key is used or not.

MarkAsync(string)

Add and mark **key** as used.

```
ValueTask MarkAsync(string key)
```

Parameters

key [string](#)

Unique key

Returns

[ValueTask](#)

a Task

RemoveExpiredKeys()

Remove idempotency keys.

[ValueTask](#) **RemoveExpiredKeys()**

Returns

[ValueTask](#)

Class IdempotencyBackgroundService

Namespace: [Quickie.Configuration.Idempotency](#)

Assembly: Quickie.dll

Background service to remove expired idempotency key.

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

Inheritance

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

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

IdempotencyBackgroundService(IIdempotencyProvider)

Background service to remove expired idempotency key.

```
public IdempotencyBackgroundService(IIdempotencyProvider idempotencyProvider)
```

Parameters

idempotencyProvider [IIdempotencyProvider](#)

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.

Class IdempotentConfiguration

Namespace: [Quickie.Configuration.Idempotency](#)

Assembly: Quickie.dll

```
public class IdempotentConfiguration
```

Inheritance

[object](#) ← IdempotentConfiguration

Inherited Members

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

Properties

Enable

Enable idempotency. By default, idempotency is [false](#)

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

Property Value

[bool](#)

IdempotencyLifespan

Lifespan of keys. By default, its 1 hour

```
public TimeSpan IdempotencyLifespan { get; set; }
```

Property Value

[TimeSpan](#)

Provider

Your custom idempotency provider

```
public IIidempotencyProvider? Provider { get; set; }
```

Property Value

[IIidempotencyProvider](#)

RunBackgroundServiceEveryHour

Run background service every x hour? By default, 1 hour

```
[Range(0, 24)]  
public int RunBackgroundServiceEveryHour { get; set; }
```

Property Value

[int](#)

Namespace Quickie.Configuration.Idempotency.DefaultProvider

Classes

[InMemoryIdempotencyProvider](#)

Default InMemory idempotency provider

Class InMemoryIdempotencyProvider

Namespace: [Quickie.Configuration.Idempotency.DefaultProvider](#)

Assembly: Quickie.dll

Default InMemory idempotency provider

```
public class InMemoryIdempotencyProvider : IIdempotencyProvider
```

Inheritance

[object](#) ← InMemoryIdempotencyProvider

Implements

[IIdempotencyProvider](#)

Inherited Members

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

Methods

ExistsAsync(string)

Asynchronous method synchronous operation(check in dictionary).

```
public ValueTask<bool> ExistsAsync(string key)
```

Parameters

key [string](#)

Key

Returns

[ValueTask](#) <[bool](#)>

bool

MarkAsync(string)

Asynchronous method synchronous operation (add in dictionary).

```
public ValueTask MarkAsync(string key)
```

Parameters

key [string](#)

Returns

[ValueTask](#)

RemoveExpiredKeys()

Remove expired api idempotency keys

```
public ValueTask RemoveExpiredKeys()
```

Returns

[ValueTask](#)

Namespace Quickie.Configuration.Middleware Classes

[IdempotencyMiddleware](#)

Idempotency implementer middleware

Class IdempotencyMiddleware

Namespace: [Quickie.Configuration.Middleware](#)

Assembly: Quickie.dll

Idempotency implementer middleware

```
public class IdempotencyMiddleware
```

Inheritance

[object](#) ← IdempotencyMiddleware

Inherited Members

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

Constructors

IdempotencyMiddleware(IIdempotencyProvider,
RequestDelegate)

Idempotency implementer middleware

```
public IdempotencyMiddleware(IIdempotencyProvider idempotencyProvider, RequestDelegate next)
```

Parameters

idempotencyProvider [IIdempotencyProvider](#)

Idempotency provider

next [RequestDelegate](#)

Methods

InvokeAsync(HttpContext)

```
public Task InvokeAsync(HttpContext context)
```

Parameters

context [HttpContext](#)

Returns

[Task](#)

Namespace Quickie.Configuration.Options

Classes

[GlobalQuickieConfigData](#)

Global configuration for Quickie library. Must be initialized once during application startup before any Quickie features are used.

[RateLimitConfiguration](#)

Rate limit configuration. (ip based)

Class GlobalQuickieConfigData

Namespace: [Quickie.Configuration.Options](#)

Assembly: Quickie.dll

Global configuration for Quickie library. Must be initialized once during application startup before any Quickie features are used.

```
public static class GlobalQuickieConfigData
```

Inheritance

[object](#) ← GlobalQuickieConfigData

Inherited Members

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

Properties

Options

Configured Quickie options.

```
public static QuickieOptions Options { get; }
```

Property Value

[QuickieOptions](#)

Exceptions

[InvalidOperationException](#)

Methods

Initialize(QuickieOptions)

Initializes Quickie configuration. This method must be called once during application startup.

```
public static void Initialize(QuickieOptions options)
```

Parameters

options [QuickieOptions](#)

Configuration options

Exceptions

[ArgumentNullException](#)

Class RateLimitConfiguration

Namespace: [Quickie.Configuration.Options](#)

Assembly: Quickie.dll

Rate limit configuration. (ip based)

```
public class RateLimitConfiguration
```

Inheritance

[object](#) ← RateLimitConfiguration

Inherited Members

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

Properties

DisableRateLimiting

Disable rate limiting. By default, rate limiting is [true](#).

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

Property Value

[bool](#)

FromSeconds

Duration (seconds) to block. Default is: 6

```
public int? FromSeconds { get; set; }
```

Property Value

[int](#)?

PermitLimit

Number of request. Default is: 1 request every 'FromSeconds'

```
public int? PermitLimit { get; set; }
```

Property Value

[int](#)?

PolicyName

Name of rate limit policy. Default is "Quickie-Rl-Policy"

```
public string? PolicyName { get; }
```

Property Value

[string](#)?

Namespace Quickie.DataHandlers.Crud. Definition

Interfaces

[ICrudDataHandler< TEntity, TIdType >](#)

[ICrudForCollectionDataHandler< TEntity, TIdType >](#)

Interface ICrudDataHandler< TEntity, TIdType >

Namespace: [Quickie.DataHandlers.Crud.Definition](#)

Assembly: Quickie.dll

```
public interface ICrudDataHandler< TEntity, in TIdType > where TEntity : CrudEntity where  
TIdType : IComparable
```

Type Parameters

TEntity

TIdType

Methods

CreateAsync(TEntity, CancellationToken?)

```
Task<ResponseObj< TEntity >> CreateAsync(TEntity request, CancellationToken?  
cancellationToken)
```

Parameters

request TEntity

cancellationToken [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)< TEntity >>

DeleteAsync(TIdType, CancellationToken?)

```
Task<ResponseObj> DeleteAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

cancellationToken [CancellationToken](#)?

Returns

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

GetByIdAsync(TIdType, CancellationToken?)

```
Task<ResponseObj< TEntity>> GetByIdAsync(TIdType id, CancellationToken? cancellationToken  
= null)
```

Parameters

id TIdType

cancellationToken [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)< TEntity>>

UpdateAsync(TIdType, TEntity, CancellationToken?)

```
Task<ResponseObj< TEntity>> UpdateAsync(TIdType id, TEntity request, CancellationToken?  
cancellationToken = null)
```

Parameters

id TIdType

request TEntity

cancellationToken [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)< TEntity>>

Interface

ICrudForCollectionDataHandler< TEntity, TIdType >

Namespace: [Quickie.DataHandlers.Crud.Definition](#)

Assembly: Quickie.dll

```
public interface ICrudForCollectionDataHandler< TEntity, TIdType > where TEntity : CrudEntity  
where TIdType : IComparable
```

Type Parameters

TEntity

TIdType

Methods

CountAsync(CancellationToken?)

```
Task<ResponseObj<int>> CountAsync(CancellationToken? cancellationToken = null)
```

Parameters

cancellationToken [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)<int>>

CreateRangeAsync(IICollection< TEntity >, CancellationToken?)

```
Task<ResponseObj<IICollection< TEntity >>> CreateRangeAsync(IICollection< TEntity > entities,  
CancellationToken? cancellationToken = null)
```

Parameters

`entities ICollection< TEntity >`

`cancellationToken CancellationToken?`

Returns

`Task<ResponseObj<ICollection< TEntity >>>`

DeleteRangeAsync(ICollection<TIdType>, CancellationToken?)

```
Task<ResponseObj> DeleteRangeAsync(ICollection<TIdType> ids, CancellationToken?  
cancellationToken = null)
```

Parameters

`ids ICollection< TIdType >`

`cancellationToken CancellationToken?`

Returns

`Task<ResponseObj>`

GetAllAsync(RequestForDataObj, CancellationToken?)

```
Task<ResponseObj<PaginatedDataObj< TEntity >>> GetAllAsync(RequestForDataObj request,  
cancellationToken? cancellationToken = null)
```

Parameters

`request RequestForDataObj`

`cancellationToken CancellationToken?`

Returns

`Task<ResponseObj<PaginatedDataObj< TEntity >>>`

UpdateRangeAsync(ICollection< TEntity >, CancellationToken?)

```
Task<ResponseObj<ICollection< TEntity >>> UpdateRangeAsync(IICollection< TEntity > entities,  
CancellationToken? cancellationToken = null)
```

Parameters

entities [ICollection](#)< TEntity >

cancellationToken [CancellationToken](#)?

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)< TEntity >>>

Namespace Quickie.DataHandlers.Crud. Implementation

Classes

[CrudDataHandler< TEntity, TDbContext, TIdType >](#)

Abstract class serving as CRUD data handler (Repository layer).

[CrudForCollectionDataHandler< TEntity, TIdType, TDbContext >](#)

Abstract class serving as CRUD for collection request handler.

Class CrudDataHandler< TEntity, TDbContext, TIdType >

Namespace: [Quickie.DataHandlers.Crud.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as CRUD data handler (Repository layer).

```
public abstract class CrudDataHandler< TEntity, TDbContext, TIdType > :  
    ICrudDataHandler< TEntity, TIdType > where TEntity : CrudEntity where TDbContext : DbContext  
    where TIdType : IComparable
```

Type Parameters

TEntity

Entity

TDbContext

Db context

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ← CrudDataHandler< TEntity, TDbContext, TIdType >

Implements

[ICrudDataHandler](#)< TEntity, TIdType >

Derived

[CrudDataHandlerConcrete](#)

Inherited Members

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

Constructors

CrudDataHandler(TDbContext)

Abstract class serving as CRUD data handler (Repository layer).

```
protected CrudDataHandler(TDbContext dbContext)
```

Parameters

`dbContext` TDbContext

Db context

Methods

CreateAsync(TEntity, CancellationToken?)

Data create request.

```
public Task<ResponseObj< TEntity >> CreateAsync(TEntity request, CancellationToken?  
cancellationToken = null)
```

Parameters

`request` TEntity

Data requested to create.

`cancellationToken` [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)< TEntity >>

DeleteAsync(TIdType, CancellationToken?)

Delete request.

```
public Task<ResponseObj> DeleteAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier of the data to remove

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

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

GetByIdAsync(TIdType, CancellationToken?)

Get data by providing an identifier

```
public Task<ResponseObj< TEntity >> GetByIdAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)< TEntity >>

UpdateAsync(TIdType, TEntity, CancellationToken?)

Update request.

```
public Task<ResponseObj< TEntity>> UpdateAsync(TIdType id, TEntity request,  
CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier

request TEntity

Requested data identifier.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)< TEntity>>

Class

CrudForCollectionDataHandler< TEntity, TIdType, TDbContext >

Namespace: [Quickie.DataHandlers.Crud.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as CRUD for collection request handler.

```
public abstract class CrudForCollectionDataHandler< TEntity, TIdType, TDbContext > :  
    ICrudForCollectionDataHandler< TEntity, TIdType > where TEntity : CrudEntity where TIdType :  
    IComparable where TDbContext : DbContext
```

Type Parameters

TEntity

Entity

TIdType

Type of identifier. eg: int, string, ...

TDbContext

Db context

Inheritance

[object](#) ← CrudForCollectionDataHandler< TEntity, TIdType, TDbContext >

Implements

[ICrudForCollectionDataHandler](#)< TEntity, TIdType >

Inherited Members

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

Constructors

CrudForCollectionDataHandler(TDbContext)

Abstract class serving as CRUD for collection request handler.

```
protected CrudForCollectionDataHandler(TDbContext dbContext)
```

Parameters

`dbContext` TDbContext

Db context

Methods

CountAsync(CancellationToken?)

Count.

```
public Task<ResponseObj<int>> CountAsync(CancellationToken? cancellationToken = null)
```

Parameters

`cancellationToken` [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<[int](#)>>

CreateRangeAsync(ICollection< TEntity >, CancellationToken?)

Data create request.

```
public Task<ResponseObj<ICollection< TEntity >>> CreateRangeAsync(ICollection< TEntity > entities, CancellationToken? cancellationToken = null)
```

Parameters

entities [ICollection](#)< TEntity >

Collection of data requested to create.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)< TEntity >>>

DeleteRangeAsync(ICollection< TIdType >, CancellationToken?)

Delete request.

```
public Task<ResponseObj> DeleteRangeAsync(ICollection<TIdType> ids, CancellationToken?  
cancellationToken = null)
```

Parameters

ids [ICollection](#)< TIdType >

Identifiers of the data to remove.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

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

GetAllAsync(RequestForDataObj, CancellationToken?)

Get data.

```
public Task<ResponseObj<PaginatedDataObj< TEntity >>> GetAllAsync(RequestForDataObj request,  
cancellationToken? cancellationToken = null)
```

Parameters

`request` [RequestForDataObj](#)

Data request filter

`cancellationToken` [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<[PaginatedDataObj](#)< TEntity >>>

UpdateRangeAsync(ICollection< TEntity >, CancellationToken?)

Update request.

```
public Task<ResponseObj<ICollection< TEntity >>> UpdateRangeAsync(ICollection< TEntity > entities, CancellationToken? cancellationToken = null)
```

Parameters

`entities` [ICollection](#)< TEntity >

Requested collection data

`cancellationToken` [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<[ICollection](#)< TEntity >>>

Namespace Quickie.DataHandlers.Editonly. Definition

Interfaces

[IEditOnlyDataHandler< TEntity, TIdType >](#)

Defines operations to update entities

Interface IEditOnlyDataHandler< TEntity, TIdType >

Namespace: [Quickie.DataHandlers.Editonly.Definition](#)

Assembly: Quickie.dll

Defines operations to update entities

```
public interface IEditOnlyDataHandler< TEntity, in TIdType> where TEntity : EditOnlyEntity  
where TIdType : IComparable
```

Type Parameters

TEntity

Data to update.

TIdType

Type of id (int, Guid, string, ...)

Methods

EditAsync(TIdType, TEntity, CancellationToken?)

Update single data.

```
Task<ResponseObj< TEntity>> EditAsync(TIdType id, TEntity requestModel,  
CancellationToken? cancellationToken)
```

Parameters

id TIdType

Identifier.

requestModel TEntity

Data to be updated.

`cancellationToken` [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) <[ResponseObj](#)<TEntity>>

EditCollectionAsync(ICollection<TEntity>, CancellationToken?)

Update collection of data (bulk update).

```
Task<ResponseObj<ICollection<TEntity>>> EditCollectionAsync(ICollection<TEntity>
requestModels, CancellationToken? cancellationToken)
```

Parameters

`requestModels` [ICollection](#)<TEntity>

Collection of entity.

`cancellationToken` [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) <[ResponseObj](#)<[ICollection](#)<TEntity>>>

Namespace Quickie.DataHandlers.Editonly. Implementation

Classes

[EditOnlyDataHandler< TEntity, TIdType >](#)

Abstract class serving as edit only data handler (Repository layer).

Class EditOnlyDataHandler<TEntity, TIdType>

Namespace: [Quickie.DataHandlers.Editonly.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as edit only data handler (Repository layer).

```
public abstract class EditOnlyDataHandler<TEntity, TIdType> : IEEditOnlyDataHandler<TEntity, TIdType> where TEntity : EditOnlyEntity where TIdType : IComparable
```

Type Parameters

TEntity

Entity

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↗ ← EditOnlyDataHandler<TEntity, TIdType>

Implements

[IEEditOnlyDataHandler](#)<TEntity, TIdType>

Derived

[EditOnlyDataHandlerConcrete](#)

Inherited Members

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

Constructors

EditOnlyDataHandler(DbContext)

Abstract class serving as edit only data handler (Repository layer).

```
protected EditOnlyDataHandler(DbContext dbContext)
```

Parameters

dbContext [DbContext](#)

Db context

Methods

EditAsync(TIdType, TEntity, CancellationToken?)

Update request.

```
public Task<ResponseObj< TEntity>> EditAsync(TIdType id, TEntity requestModel,  
CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier of the entity

requestModel TEntity

Requested data to update

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)< TEntity>>

EditCollectionAsync(ICollection< TEntity>, CancellationToken?)

Update collection of data.

```
public Task<ResponseObj<ICollection< TEntity>>> EditCollectionAsync(ICollection< TEntity>  
requestModels, CancellationToken? cancellationToken = null)
```

Parameters

requestModels [ICollection](#)< TEntity >

Collection of requested data to update

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)< [ResponseObj](#)< [ICollection](#)< TEntity >>>

Namespace Quickie.DataHandlers.ReadOnly. Definition

Interfaces

[IReadOnlyCollectionDataHandler< TEntity, TIdType >](#)

Defines read-only data access operations for collections of entities. Provides methods to retrieve data with optional filtering and pagination.

[IReadOnlyDataHandler< TEntity, TIdType >](#)

Read-only data handler (Repository).

Interface

IReadOnlyCollectionDataHandler< TEntity, TIdType >

Namespace: [Quickie.DataHandlers.Readonly.Definition](#)

Assembly: Quickie.dll

Defines read-only data access operations for collections of entities. Provides methods to retrieve data with optional filtering and pagination.

```
public interface IReadOnlyCollectionDataHandler< TEntity, in TIdType > where TEntity :  
    IReadOnlyEntity where TIdType : IComparable
```

Type Parameters

TEntity

The type of entity to do read-only operations.

TIdType

Type of id (int, Guid, string, ...)

Methods

GetByFilterAsync< TRequestModel >(Expression< Func< TEntity, bool > >?, TRequestModel?, bool?, CancellationToken?)

Get a paginated collection of entities that match the specified filter.

```
Task< PaginatedDataObj< TEntity >> GetByFilterAsync< TRequestModel >(Expression< Func< TEntity,  
    bool > >? filter, TRequestModel? request, bool? track = false, CancellationToken?  
    cancellationToken = null) where TRequestModel : RequestForDataObj
```

Parameters

filter [Expression](#)< [Func](#)< TEntity, [bool](#) > >

A predicate function to define your condition.

request TRequestModel

The pagination request object.

track [bool](#)?

A flag indicating whether to track changes for the retrieved entities. Set to [false](#) to disable change tracking for read-only queries. Default is [false](#).

cancellationToken [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) <[PaginatedDataObj](#)< TEntity >>

Paginated data.

Type Parameters

TRequestModel

Interface IReadOnlyDataHandler< TEntity, TIdType >

Namespace: [Quickie.DataHandlers.Readonly.Definition](#)

Assembly: Quickie.dll

Read-only data handler (Repository).

```
public interface IReadOnlyDataHandler< TEntity, in TIdType > where TEntity : ReadOnlyEntity
```

Type Parameters

TEntity

Entity

TIdType

Type of id (int, Guid, string, ...)

Methods

GetByIdAsync(TIdType, CancellationToken?)

Get data by id. (ID must be primary key or composite key.)

```
Task< TEntity? > GetByIdAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Unique identifier.

cancellationToken [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) < TEntity >

Entity object.

Namespace Quickie.DataHandlers.Readonly. Implementation

Classes

[ReadOnlyCollectionDataHandler< TEntity, TDbContext, TIdType >](#)

Abstract class serving as read only (collection) data handler (Repository layer).

[ReadOnlyDataHandler< TEntity, TDbContext, TIdType >](#)

Abstract base class for handling read-only data requests.

Class ReadOnlyCollectionDataHandler< TEntity, TDbContext, TIdType >

Namespace: [Quickie.DataHandlers.ReadOnly.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as read only (collection) data handler (Repository layer).

```
public abstract class ReadOnlyCollectionDataHandler< TEntity, TDbContext, TIdType > :  
    IReadOnlyCollectionDataHandler< TEntity, TIdType > where TEntity : ReadOnlyEntity where  
    TDbContext : DbContext where TIdType : IComparable
```

Type Parameters

TEntity

Entity

TDbContext

Db Context

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↗ ← ReadOnlyCollectionDataHandler< TEntity, TDbContext, TIdType >

Implements

[IReadOnlyCollectionDataHandler](#)< TEntity, TIdType >

Derived

[ReadOnlyCollectionDataHandlerConcrete](#)

Inherited Members

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

Constructors

ReadOnlyCollectionDataHandler(DbContext)

Abstract class serving as read only (collection) data handler (Repository layer).

```
protected ReadOnlyCollectionDataHandler(DbContext context)
```

Parameters

context [DbContext](#)

Db Context

Methods

GetByFilterAsync<TRequestModel>(Expression<Func< TEntity, bool>>?, TRequestModel?, bool?, CancellationToken?)

Get filtered collection of data.

```
public Task<PaginatedDataObj< TEntity>> GetByFilterAsync<TRequestModel>
(Expression<Func< TEntity, bool>>? filter, TRequestModel? request, bool? track = false,
CancellationToken? cancellationToken = null) where TRequestModel : RequestForDataObj
```

Parameters

filter [Expression](#)<[Func](#)< TEntity, [bool](#)>>

Data request filter

request TRequestModel

Data request filter

track [bool](#)?

Track entity? Default is false

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[PaginatedDataObj](#)< TEntity >>

Type Parameters

TRequestModel

Type of data request filter

Class ReadOnlyDataHandler< TEntity, TDbContext, TIdType >

Namespace: [Quickie.DataHandlers.ReadOnly.Implementation](#)

Assembly: Quickie.dll

Abstract base class for handling read-only data requests.

```
public abstract class ReadOnlyDataHandler< TEntity, TDbContext, TIdType > :  
    IReadOnlyDataHandler< TEntity, TIdType > where TEntity : ReadOnlyEntity where TDbContext :  
    DbContext where TIdType : IComparable
```

Type Parameters

TEntity

Entity

TDbContext

Db context

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↗ ← ReadOnlyDataHandler< TEntity, TDbContext, TIdType >

Implements

[IReadOnlyDataHandler](#)< TEntity, TIdType >

Derived

[ReadOnlyDataHandlerConcrete](#)

Inherited Members

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

Constructors

ReadOnlyDataHandler(DbContext)

Abstract base class for handling read-only data requests.

```
protected ReadOnlyDataHandler(DbContext context)
```

Parameters

context [DbContext](#)

Db context

Methods

GetByIdAsync(TIdType, CancellationToken?)

Get data by id.

```
public Task< TEntity?> GetByIdAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier (unique key identifying your entity)

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) < TEntity >

Namespace Quickie.DataHandlers.Writeonly. Definition

Interfaces

[IWriteOnlyDataHandler< TEntity >](#)

Interface IWriteOnlyDataHandler< TEntity >

Namespace: [Quickie.DataHandlers.Writeonly.Definition](#)

Assembly: Quickie.dll

```
public interface IWriteOnlyDataHandler< TEntity > where TEntity : WriteOnlyEntity
```

Type Parameters

TEntity

Methods

CreateItemAsync(TEntity, CancellationToken?)

```
Task<ResponseObj< TEntity >> CreateItemAsync(TEntity item, CancellationToken? cancellationToken)
```

Parameters

item TEntity

cancellationToken [CancellationToken](#) ?

Returns

[Task](#) < [ResponseObj](#) < TEntity > >

CreateItemsAsync(ICollection< TEntity >, CancellationToken?)

```
Task<ResponseObj< ICollection< TEntity >>> CreateItemsAsync(ICollection< TEntity > items, CancellationToken? cancellationToken)
```

Parameters

`items` [ICollection](#)< TEntity >

`cancellationToken` [CancellationToken](#)?

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)< TEntity >>>

Namespace Quickie.DataHandlers.Writeonly. Implementation

Classes

[WriteOnlyDataHandler< TEntity, TDbContext >](#)

Abstract class serving as write only data handler (Repository layer).

Class WriteOnlyDataHandler< TEntity, TDbContext >

Namespace: [Quickie.DataHandlers.Writeonly.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as write only data handler (Repository layer).

```
public abstract class WriteOnlyDataHandler< TEntity, TDbContext > :  
    IWriteOnlyDataHandler< TEntity > where TEntity : WriteOnlyEntity where TDbContext : DbContext
```

Type Parameters

TEntity

Entity

TDbContext

Db context

Inheritance

[object](#) ← WriteOnlyDataHandler< TEntity, TDbContext >

Implements

[IWriteOnlyDataHandler](#)< TEntity >

Derived

[WriteOnlyDataHandlerConcrete](#)

Inherited Members

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

Constructors

WriteOnlyDataHandler(TDbContext)

Abstract class serving as write only data handler (Repository layer).

```
protected WriteOnlyDataHandler(TDbContext dbContext)
```

Parameters

dbContext TDbContext

Db context

Methods

CreateItemAsync(TEntity, CancellationToken?)

Data create request.

```
public Task<ResponseObj< TEntity >> CreateItemAsync(TEntity item, CancellationToken? cancellationToken = null)
```

Parameters

item TEntity

Data requested to create

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)< TEntity >>

CreateItemsAsync(ICollection< TEntity >, CancellationToken?)

Collection of data create request.

```
public Task<ResponseObj< ICollection< TEntity >>> CreateItemsAsync(ICollection< TEntity > items, CancellationToken? cancellationToken = null)
```

Parameters

`items` [`ICollection`](#)<TEntity>

Collection of data requested to create

`cancellationToken` [`CancellationToken`](#)?

Cancellation token

Returns

[`Task`](#) <[`ResponseObj`](#)<[`ICollection`](#)<TEntity>>>

Namespace Quickie.DataObj

Classes

[DetailedResponseObj](#)

Represents a detailed response object used to return results from an operation.

[PaginatedDataObj<TObject>](#)

Represents an object for paginated data and its metadata.

[RequestForDataObj](#)

Represents a request for data with pagination.

[ResponseObj](#)

Represents a basic response object that contains information about the success of an operation.

[ResponseObj<TData>](#)

Represents a response object that contains the result of an operation along with the data.

Class DetailedResponseObj

Namespace: [Quickie.DataObj](#)

Assembly: Quickie.dll

Represents a detailed response object used to return results from an operation.

```
public class DetailedResponseObj
```

Inheritance

[object](#) ← DetailedResponseObj

Inherited Members

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

Properties

Description

Detailed description that explains the response such as troubleshooting information or guidance.

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

Property Value

[string](#)

ErrorStatus

Status of the error or response, indicating the severity of the result.

```
public ErrorStatusEnum ErrorStatus { get; set; }
```

Property Value

ErrorStatusEnum

Message

Short message that provides high-level information about the response. Can be used like "title" of your detailed error description.

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

Property Value

[string](#) ↗

Show

Value indicating whether to show the response.

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

Property Value

[bool](#) ↗

Class PaginatedDataObj<TObject>

Namespace: [Quickie.DataObj](#)

Assembly: Quickie.dll

Represents an object for paginated data and its metadata.

```
public class PaginatedDataObj<TObject> where TObject : class
```

Type Parameters

TObject

Inheritance

[object](#) ← PaginatedDataObj<TObject>

Inherited Members

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

Properties

Items

Collection of data

```
public IEnumerable<TObject> Items { get; set; }
```

Property Value

[IEnumerable](#)<TObject>

Total

Total no. of data.

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

Property Value

[int ↗](#)

Class RequestForDataObj

Namespace: [Quickie.DataObj](#)

Assembly: Quickie.dll

Represents a request for data with pagination.

```
public class RequestForDataObj
```

Inheritance

[object](#) ← RequestForDataObj

Derived

[FilterResult](#), [ReadOnlyCollectionDataRequest](#)

Inherited Members

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

Properties

PageNumber

The page number to retrieve. Default is [1](#).

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

Property Value

[int](#)

PageSize

The number of items to retrieve per page. Default is [10](#).

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

Property Value

[int ↗](#)

Class ResponseObj

Namespace: [Quickie.DataObj](#)

Assembly: Quickie.dll

Represents a basic response object that contains information about the success of an operation.

```
public class ResponseObj
```

Inheritance

[object](#) ← ResponseObj

Inherited Members

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

Properties

IsSuccess

Value indicating whether the operation was successful. "true" meaning operation has succeeded and "false" meaning operation has failed.

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

Property Value

[bool](#)

Message

Message providing additional information about the operation's result.

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

Property Value

[string](#) ↗

Class ResponseObj<TData>

Namespace: [Quickie.DataObj](#)

Assembly: Quickie.dll

Represents a response object that contains the result of an operation along with the data.

```
public class ResponseObj<TData>
```

Type Parameters

TData

Data.

Inheritance

[object](#) ← ResponseObj<TData>

Inherited Members

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

Properties

Data

Data returned as a result of the operation.

```
public TData Data { get; set; }
```

Property Value

TData

IsSuccess

Value indicating whether the operation was successful. "true" meaning operation has succeeded and "false" meaning operation has failed.

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

Property Value

[bool](#)

Message

Message providing additional information about the operation's result.

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

Property Value

[string](#)

Namespace Quickie.Handlers.Crud.Definition Interfaces

[ICrudForCollectionRequestHandler<TViewModel, TIdType>](#)

[ICrudRequestHandler<TViewModel, TIdType>](#)

Abstract base class for CRUD operation. Contains method to: Create, Update, Read (GET), and Delete.

Interface

ICrudForCollectionRequestHandler<TViewModel, TIdType>

Namespace: [Quickie.Handlers.Crud.Definition](#)

Assembly: Quickie.dll

```
public interface ICrudForCollectionRequestHandler<TViewModel, TIdType> where TViewModel :  
    CrudDto where TIdType : IComparable
```

Type Parameters

TViewModel

TIdType

Methods

CountAsync(CancellationToken?)

```
Task<ResponseObj<int>> CountAsync(CancellationToken? cancellationToken = null)
```

Parameters

cancellationToken [CancellationToken](#)?

Returns

[Task](#) < [ResponseObj](#)< [int](#)>>

CreateRangeAsync(ICollection<TViewModel>, CancellationToken?)

```
Task<ResponseObj<ICollection<TViewModel>>> CreateRangeAsync(ICollection<TViewModel>  
entities, CancellationToken? cancellationToken = null)
```

Parameters

entities [ICollection](#)<TViewModel>

cancellationToken [CancellationToken](#)?

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>

DeleteRangeAsync(ICollection<TIdType>, CancellationToken?)

```
Task<ResponseObj> DeleteRangeAsync(ICollection<TIdType> ids, CancellationToken?  
cancellationToken = null)
```

Parameters

ids [ICollection](#)<TIdType>

cancellationToken [CancellationToken](#)?

Returns

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

GetAllAsync(RequestForDataObj, CancellationToken?)

```
Task<ResponseObj<PaginatedDataObj<TViewModel>>> GetAllAsync(RequestForDataObj request,  
cancellationToken? cancellationToken = null)
```

Parameters

request [RequestForDataObj](#)

`cancellationToken` [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)<[PaginatedDataObj](#)<TViewModel>>>

`UpdateRangeAsync(ICollection<TViewModel>, CancellationToken?)`

```
Task<ResponseObj<ICollection<TViewModel>>> UpdateRangeAsync(ICollection<TViewModel> entities, CancellationToken? cancellationToken = null)
```

Parameters

`entities` [ICollection](#)<TViewModel>

`cancellationToken` [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)<[ICollection](#)<TViewModel>>>

Interface ICrudRequestHandler<TViewModel, TIdType>

Namespace: [Quickie.Handlers.Crud.Definition](#)

Assembly: Quickie.dll

Abstract base class for CRUD operation. Contains method to: Create, Update, Read (GET), and Delete.

```
public interface ICrudRequestHandler<TViewModel, in TIdType> where TViewModel : CrudDto  
where TIdType : IComparable
```

Type Parameters

TViewModel

TIdType

Type of the identifier used in methods (string, int, Guid, ...)

Methods

CreateAsync(TViewModel, CancellationToken?)

Create data.

```
Task<ResponseObj<TViewModel>> CreateAsync(TViewModel request,  
CancellationToken? cancellationToken)
```

Parameters

request TViewModel

Requested data to be created.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Response object.

DeleteAsync(TIdType, CancellationToken?)

Removes data.

```
Task<ResponseObj> DeleteAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier of data to be removed

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

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

Response object

GetByIdAsync(TIdType, CancellationToken?)

Get data by id (unique identifier, a pk).

```
Task<ResponseObj<TViewModel>> GetByIdAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier

cancellationToken [CancellationToken?](#)

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Response object with data.

UpdateAsync(TIdType, TViewModel, CancellationToken?)

Update requested data.

```
Task<ResponseObj<TViewModel>> UpdateAsync(TIdType id, TViewModel request, CancellationToken?  
cancellationToken = null)
```

Parameters

id TIdType

Data identifier to update.

request TViewModel

Data requested to be updated.

cancellationToken [CancellationToken?](#)

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Response object with updated data.

Namespace Quickie.Handlers.Crud. Implementation

Classes

[CrudForCollectionRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>](#)

Abstract class serving as CRUD for collection request handler.

[CrudRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>](#)

Abstract class serving as CRUD request handler.

Class

CrudForCollectionRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Namespace: [Quickie.Handlers.Crud.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as CRUD for collection request handler.

```
public abstract class CrudForCollectionRequestHandler<TViewModel, TEntity, TDataHandler,  
TIdType> : ICrudForCollectionRequestHandler<TViewModel, TIdType> where TViewModel : CrudDto  
where TEntity : CrudEntity where TDataHandler : ICrudForCollectionDataHandler< TEntity,  
TIdType> where TIdType : IComparable
```

Type Parameters

TViewModel

View model or dto

TEntity

Entity

TDataHandler

Data handler (repository layer)

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↗ ← CrudForCollectionRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Implements

[ICrudForCollectionRequestHandler<TViewModel, TIdType>](#)

Derived

[CrudForCollectionRequestHandlerConcrete](#)

Inherited Members

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

Constructors

CrudForCollectionRequestHandler(TDataHandler)

Abstract class serving as CRUD for collection request handler.

```
protected CrudForCollectionRequestHandler(TDataHandler dataHandler)
```

Parameters

dataHandler TDataHandler

Data

Methods

CountAsync(CancellationToken?)

Count.

```
public Task<ResponseObj<int>> CountAsync(CancellationToken? cancellationToken = null)
```

Parameters

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)<int>>

CreateRangeAsync(ICollection<TViewModel>, CancellationToken?)

Data create request.

```
public Task<ResponseObj<ICollection<TViewModel>>> CreateRangeAsync(ICollection<TViewModel> entities, CancellationToken? cancellationToken = null)
```

Parameters

entities [ICollection](#)<TViewModel>

Collection of data requested to create.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>

DeleteRangeAsync(ICollection<TIdType>, CancellationToken?)

Delete request.

```
public Task<ResponseObj> DeleteRangeAsync(ICollection<TIdType> ids, CancellationToken? cancellationToken = null)
```

Parameters

ids [ICollection](#)<TIdType>

Identifiers of the data to remove.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <ResponseObj>

GetAllAsync(RequestForDataObj, CancellationToken?)

Get data.

```
public Task<ResponseObj<PaginatedDataObj<TViewModel>>> GetAllAsync(RequestForDataObj  
request, CancellationToken? cancellationToken = null)
```

Parameters

request [RequestForDataObj](#)

Data request filter

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <ResponseObj<PaginatedDataObj<TViewModel>>>

MapToCollectionOfDto(ICollection< TEntity >)

Maps a collection of **TEntity** to a collection of **TViewModel** dto.

```
protected abstract ICollection<TViewModel> MapToCollectionOfDto(ICollection< TEntity > entity)
```

Parameters

entity [ICollection](#)< TEntity >

Returns

[ICollection](#)< TViewModel >

MapToCollectionOfEntity(ICollection<TViewModel>)

Maps a collection of `TViewModel` to a collection of `TEntity` entity.

```
protected abstract ICollection<TEntity> MapToCollectionOfEntity(ICollection<TViewModel> entity)
```

Parameters

`entity` [ICollection](#)<TViewModel>

Returns

[ICollection](#)<TEntity>

UpdateRangeAsync(ICollection<TViewModel>, CancellationToken?)

Update request.

```
public Task<ResponseObj<ICollection<TViewModel>>> UpdateRangeAsync(ICollection<TViewModel> entities, CancellationToken? cancellationToken = null)
```

Parameters

`entities` [ICollection](#)<TViewModel>

Requested collection data

`cancellationToken` [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)<ICollection<TViewModel>>>

Class CrudRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Namespace: [Quickie.Handlers.Crud.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as CRUD request handler.

```
public abstract class CrudRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>
: ICrudRequestHandler<TViewModel, TIdType> where TViewModel : CrudDto where TEntity
: CrudEntity where TDataHandler : ICrudDataHandler<
```

Type Parameters

TViewModel

View model or dto

TEntity

Entity

TDataHandler

Data handler (repository layer)

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↵ CrudRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Implements

[ICrudRequestHandler](#)<TViewModel, TIdType>

Derived

[CrudRequestHandlerConcrete](#)

Inherited Members

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

Constructors

CrudRequestHandler(ICrudDataHandler< TEntity, TIdType >)

Abstract class serving as CRUD request handler.

```
protected CrudRequestHandler(ICrudDataHandler< TEntity, TIdType > dataHandler)
```

Parameters

dataHandler [ICrudDataHandler](#)< TEntity, TIdType >

Data handler (repository layer)

Methods

CreateAsync(TViewModel, CancellationToken?)

Data create request.

```
public Task<ResponseObj< TViewModel >> CreateAsync(TViewModel request, CancellationToken? cancellationToken = null)
```

Parameters

request TViewModel

Data requested to create.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)< TViewModel >>

DeleteAsync(TIdType, CancellationToken?)

Delete request.

```
public Task<ResponseObj> DeleteAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier of the data to remove.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

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

Exceptions

[ArgumentException](#)

GetByIdAsync(TIdType, CancellationToken?)

Get data by providing an identifier

```
public Task<ResponseObj<TViewModel>> GetByIdAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Exceptions

[ArgumentException](#)

MapToDto(TEntity)

Maps a **TEntity** to a **TViewModel** dto.

```
protected abstract TViewModel MapToDto(TEntity request)
```

Parameters

request TEntity

Entity

Returns

TViewModel

Dto

MapToEntity(TViewModel)

Maps a **TViewModel** to a **TEntity** entity.

```
protected abstract TEntity MapToEntity(TViewModel request)
```

Parameters

request TViewModel

Dto

Returns

TEntity

Entity

UpdateAsync(TIdType, TViewModel, CancellationToken?)

Update request.

```
public Task<ResponseObj<TViewModel>> UpdateAsync(TIdType id, TViewModel request,  
CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Requested data identifier.

request TViewModel

Requested data

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Namespace Quickie.Handlers.Editonly. Definition

Interfaces

[IEditOnlyRequestHandler<TViewModel, TIdType>](#)

Abstract base class for handling update requests, processing operations for the specified view model type.

Interface

IEditOnlyRequestHandler<TViewModel, TIdType>

Namespace: [Quickie.Handlers.Editonly.Definition](#)

Assembly: Quickie.dll

Abstract base class for handling update requests, processing operations for the specified view model type.

```
public interface IEditOnlyRequestHandler<TViewModel, in TIdType> where TViewModel :  
EditOnlyDto where TIdType : IComparable
```

Type Parameters

TViewModel

The type of the view model that represents the data transfer object to be updated.

TIdType

Type of id (int, string, guid, ...)

Methods

EditAsync(TIdType, TViewModel, CancellationToken?)

Update single entity.

```
Task<ResponseObj<TViewModel>> EditAsync(TIdType id, TViewModel requestModel,  
CancellationToken? cancellationToken)
```

Parameters

id TIdType

Identifier of the entity.

requestModel TViewModel

Data to be updated.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

EditCollectionAsync(ICollection<TViewModel>, CancellationToken?)

Update collection of entity. (Bulk)

```
Task<ResponseObj<ICollection<TViewModel>>> EditCollectionAsync(ICollection<TViewModel> requestModels, CancellationToken? cancellationToken)
```

Parameters

requestModels [ICollection](#)<TViewModel>

Bulk data to be updated.

cancellationToken [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) <[ResponseObj](#)<[ICollection](#)<TViewModel>>>

Namespace Quickie.Handlers.Editonly. Implementation

Classes

[EditOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>](#)

Abstract class serving as edit only request handler.

Class EditOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Namespace: [Quickie.Handlers.Editonly.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as edit only request handler.

```
public abstract class EditOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType> :  
    IEditOnlyRequestHandler<TViewModel, TIdType> where TViewModel : EditOnlyDto where TEntity  
    : EditOnlyEntity where TDataHandler : IEditOnlyDataHandler<    : IComparable
```

Type Parameters

TViewModel

View model or dto

TEntity

Entity

TDataHandler

Data handler (Repository layer)

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↗ ← EditOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Implements

[IEditOnlyRequestHandler](#)<TViewModel, TIdType>

Derived

[EditOnlyRequestHandlerConcrete](#)

Inherited Members

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

Constructors

EditOnlyRequestHandler(IEditOnlyDataHandler< TEntity, TIdType >)

Abstract class serving as edit only request handler.

```
protected EditOnlyRequestHandler(IEditOnlyDataHandler< TEntity, TIdType > dataHandler)
```

Parameters

dataHandler [IEditOnlyDataHandler](#)< TEntity, TIdType >

Data handler (Repository layer)

Methods

EditAsync(TIdType, TViewModel, CancellationToken?)

Update request.

```
public Task<ResponseObj< TViewModel >> EditAsync(TIdType id, TViewModel requestModel,  
CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier of the entity.

requestModel TViewModel

Requested data to update

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

EditCollectionAsync(ICollection<TViewModel>, CancellationToken?)

Update collection of data.

```
public Task<ResponseObj<ICollection<TViewModel>>>
EditCollectionAsync(ICollection<TViewModel> requestModels, CancellationToken?
cancellationToken = null)
```

Parameters

requestModels [ICollection](#)<TViewModel>

Collection of requested data to update

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<[ICollection](#)<TViewModel>>>

MapToCollectionOfDto(ICollection< TEntity >)

Maps a collection of **TEntity** entities to a collection of **TViewModel** view models.

```
protected abstract ICollection<TViewModel> MapToCollectionOfDto(ICollection< TEntity >
entities)
```

Parameters

entities [ICollection](#)<TEntity>

Collection of entity.

Returns

[ICollection](#)<TViewModel>

Collection of view model/dto.

MapToCollectionOfEntity(ICollection<TViewModel>)

Maps a collection of `TViewModel` to a collection of `TEntity` entities.

```
protected abstract ICollection< TEntity > MapToCollectionOfEntity(ICollection< TViewModel >  
requestModels)
```

Parameters

`requestModels` [ICollection](#)<TViewModel>

Collection of view model/dto

Returns

[ICollection](#)<TEntity>

Collection of entity.

MapToDto(TEntity)

Maps a `TEntity` entity to a `TViewModel` view model/dto.

```
protected abstract TViewModel MapToDto(TEntity entity)
```

Parameters

`entity` TEntity

Entity.

Returns

TViewModel

View model/dto.

MapToEntity(TViewModel)

Maps a **TViewModel** to a **TEntity** entity.

```
protected abstract TEntity MapToEntity(TViewModel requestModel)
```

Parameters

requestModel TViewModel

The view model/dto to map to an entity

Returns

TEntity

Entity.

Namespace Quickie.Handlers.ReadOnly. Definition

Interfaces

[IReadOnlyCollectionRequestHandler<TViewModel, TIdType>](#)

Abstract base class for handling collections of read-only requests, processing operations for the specified view model type.

[IReadOnlyRequestHandler<TViewModel, TIdType>](#)

Abstract base class for handling read-only requests, processing operations for the specified view model type.

Interface

IReadOnlyCollectionRequestHandler<TViewModel, TIdType>

Namespace: [Quickie.Handlers.Readonly.Definition](#)

Assembly: Quickie.dll

Abstract base class for handling collections of read-only requests, processing operations for the specified view model type.

```
public interface IReadOnlyCollectionRequestHandler<TViewModel, in TIdType> where TViewModel : ReadOnlyDto where TIdType : IComparable
```

Type Parameters

TViewModel

The type of the view model that represents the data transfer object for read-only operations.

TIdType

Type of id (int, Guid, string, ...)

Methods

GetAsync<TRequestModel>(TRequestModel?, CancellationToken?)

Get collection of data by provided request model.

```
Task<PaginatedDataObj<TViewModel>> GetAsync<TRequestModel>(TRequestModel? request, CancellationToken? cancellationToken) where TRequestModel : RequestForDataObj
```

Parameters

request TRequestModel

Data request model of type RequestForDataDto.

cancellationToken [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) <[PaginatedDataObj](#)<TViewModel>>

Collection of data wrapped by response dto.

Type Parameters

TRequestModel

Interface

IReadOnlyRequestHandler<TViewModel, TIdType>

Namespace: [Quickie.Handlers.Readonly.Definition](#)

Assembly: Quickie.dll

Abstract base class for handling read-only requests, processing operations for the specified view model type.

```
public interface IReadOnlyRequestHandler<TViewModel, in TIdType> where TViewModel :  
    IReadOnlyDto where TIdType : IComparable
```

Type Parameters

TViewModel

The type of the view model that represents the data transfer object for read-only operations.

TIdType

Type of id (int, Guid, string, ...)

Methods

GetByIdAsync(TIdType, CancellationToken?)

Get exact data (single) by id.

```
Task<ResponseObj<TViewModel>> GetByIdAsync(TIdType id, CancellationToken? cancellationToken)
```

Parameters

id TIdType

Identifier of data.

cancellationToken [CancellationToken](#)?

Cancellation token.

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Single data wrapped by response dto.

Namespace Quickie.Handlers.ReadOnly.Implementation

Classes

[ReadOnlyCollectionRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>](#)

Abstract class serving as read only (collection) request handler.

[ReadOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>](#)

Abstract base class for handling read-only requests, processing operations for the specified view model type.

Class

ReadOnlyCollectionRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Namespace: [Quickie.Handlers.Readonly.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as read only (collection) request handler.

```
public abstract class ReadOnlyCollectionRequestHandler<TViewModel, TEntity, TDataHandler,
TIdType> : IReadOnlyCollectionRequestHandler<TViewModel, TIdType> where TViewModel :
ReadOnlyDto where TEntity : ReadOnlyEntity where TDataHandler :
IReadOnlyCollectionDataHandler<TEntity, TIdType> where TIdType : IComparable
```

Type Parameters

TViewModel

View model or dto

TEntity

Entity

TDataHandler

Data handler (Repository layer)

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ↗ ← ReadOnlyCollectionRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Implements

[IReadOnlyCollectionRequestHandler](#)<TViewModel, TIdType>

Derived

[ReadOnlyCollectionRequestHandlerConcrete](#)

Inherited Members

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

Constructors

ReadOnlyCollectionRequestHandler(IReadOnlyCollectionDataHandler< TEntity, TIdType >)

Abstract class serving as read only (collection) request handler.

```
protected ReadOnlyCollectionRequestHandler(IReadOnlyCollectionDataHandler< TEntity, TIdType > readOnlyCollectionDataHandler)
```

Parameters

readOnlyCollectionDataHandler [IReadOnlyCollectionDataHandler](#)< TEntity, TIdType >

Data handler (Repository layer)

Methods

GetAsync< TRequestModel >(TRequestModel?, CancellationToken?)

Get data.

```
public Task< PaginatedDataObj< TViewModel >> GetAsync< TRequestModel >(TRequestModel? request, CancellationToken? cancellationToken = null) where TRequestModel : RequestForDataObj
```

Parameters

request TRequestModel

Data request filter

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[PaginatedDataObj](#)<TViewModel>>

Type Parameters

TRequestModel

Type of data request filter

MapToDto(ICollection< TEntity >)

Mapping profile. Map from collection of Entity type to your collection of data transfer object.

```
protected abstract ICollection<TViewModel> MapToDto(ICollection< TEntity > entity)
```

Parameters

entity [ICollection](#)< TEntity >

Collection of entity object.

Returns

[ICollection](#)< TViewModel >

Mapped from collection of Entity, a collection data transfer object.

Class ReadOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Namespace: [Quickie.Handlers.Readonly.Implementation](#)

Assembly: Quickie.dll

Abstract base class for handling read-only requests, processing operations for the specified view model type.

```
public abstract class ReadOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType> :  
    IReadOnlyRequestHandler<TViewModel, TIdType> where TViewModel : ReadOnlyDto where TEntity  
    : ReadOnlyEntity where TDataHandler : IReadOnlyDataHandler< TEntity, TIdType> where TIdType  
    : IComparable
```

Type Parameters

TViewModel

The type of the view model that represents the data transfer object for read-only operations.

TEntity

Entity.

TDataHandler

Data handler (Repository)

TIdType

Type of identifier. eg: int, string, ...

Inheritance

[object](#) ← ReadOnlyRequestHandler<TViewModel, TEntity, TDataHandler, TIdType>

Implements

[IReadOnlyRequestHandler<TViewModel, TIdType>](#)

Derived

[ReadOnlyRequestHandlerConcrete](#)

Inherited Members

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

Constructors

ReadOnlyRequestHandler(IReadOnlyDataHandler< TEntity, TIdType >)

Abstract base class for handling read-only requests, processing operations for the specified view model type.

```
protected ReadOnlyRequestHandler(IReadOnlyDataHandler< TEntity, TIdType > dataHandler)
```

Parameters

dataHandler [IReadOnlyDataHandler< TEntity, TIdType >](#)

Methods

GetByIdAsync(TIdType, CancellationToken?)

Get data by id.

```
public Task<ResponseObj< TViewModel >> GetByIdAsync(TIdType id, CancellationToken? cancellationToken = null)
```

Parameters

id TIdType

Identifier (unique key identifying your entity)

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

Exceptions

[ArgumentException](#)

MapToDto(TEntity)

Mapping profile. Map from Entity type to your data transfer object.

```
protected abstract TViewModel MapToDto(TEntity entity)
```

Parameters

entity TEntity

Entity object.

Returns

TViewModel

Mapped from Entity, a data transfer object.

Namespace Quickie.Handlers.Writeonly. Definition

Interfaces

[IWriteOnlyRequestHandler<TViewModel>](#)

Interface IWriteOnlyRequestHandler<TViewModel>

Namespace: [Quickie.Handlers.Writeonly.Definition](#)

Assembly: Quickie.dll

```
public interface IWriteOnlyRequestHandler<TViewModel> where TViewModel : WriteOnlyDto
```

Type Parameters

TViewModel

Methods

CreateItemAsync(TViewModel, CancellationToken?)

```
Task<ResponseObj<TViewModel>> CreateItemAsync(TViewModel item,  
CancellationToken? cancellationToken)
```

Parameters

item TViewModel

cancellationToken [CancellationToken](#)?

Returns

[Task](#) <[ResponseObj](#)<TViewModel>>

CreateItemsAsync(ICollection<TViewModel>,
CancellationToken?)

```
Task<ResponseObj<ICollection<TViewModel>>> CreateItemsAsync(ICollection<TViewModel> items,  
CancellationToken? cancellationToken)
```

Parameters

items [ICollection](#)<TViewModel>

cancellationToken [CancellationToken](#)?

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>

Namespace Quickie.Handlers.Writeonly. Implementation

Classes

[WriteOnlyRequestHandler<TViewModel, TEntity, TDataHandler>](#)

Abstract class serving as write only request handler.

Class WriteOnlyRequestHandler<TViewModel, TEntity, TDataHandler>

Namespace: [Quickie.Handlers.Writeonly.Implementation](#)

Assembly: Quickie.dll

Abstract class serving as write only request handler.

```
public abstract class WriteOnlyRequestHandler<TViewModel, TEntity, TDataHandler> :  
    IWriteOnlyRequestHandler<TViewModel> where TViewModel : WriteOnlyDto where TEntity :  
    WriteOnlyEntity where TDataHandler : IWriteOnlyDataHandler< TEntity >
```

Type Parameters

[TViewModel](#)

[TEntity](#)

[TDataHandler](#)

Inheritance

[object](#) ← WriteOnlyRequestHandler<TViewModel, TEntity, TDataHandler>

Implements

[IWriteOnlyRequestHandler<TViewModel>](#)

Derived

[WriteOnlyRequestHandlerConcrete](#)

Inherited Members

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

Constructors

WriteOnlyRequestHandler(IWriteOnlyDataHandler< TEntity >)

Abstract class serving as write only request handler.

```
protected WriteOnlyRequestHandler(IWriteOnlyDataHandler< TEntity> dataHandler)
```

Parameters

dataHandler [IWriteOnlyDataHandler< TEntity>](#)

Methods

CreateItemAsync(TViewModel, CancellationToken?)

Data create request.

```
public Task<ResponseObj< TViewModel >> CreateItemAsync(TViewModel item,  
CancellationToken? cancellationToken)
```

Parameters

item TViewModel

Data requested to create.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#) <[ResponseObj](#)< TViewModel >>

CreateItemsAsync(ICollection< TViewModel >, CancellationToken?)

Data create request.

```
public Task<ResponseObj< ICollection< TViewModel >>> CreateItemsAsync(ICollection< TViewModel >  
items, CancellationToken? cancellationToken)
```

Parameters

items [ICollection](#)<TViewModel>

Collection of data requested to create.

cancellationToken [CancellationToken](#)?

Cancellation token

Returns

[Task](#)<[ResponseObj](#)<[ICollection](#)<TViewModel>>>

MapToCollectionOfDto(ICollection< TEntity >)

Maps a collection of **TEntity** entities to a collection of **ViewModel** view models.

```
protected abstract ICollection<TViewModel> MapToCollectionOfDto(ICollection< TEntity > entities)
```

Parameters

entities [ICollection](#)< TEntity >

Collection of entity.

Returns

[ICollection](#)< TViewModel >

Collection of view model/dto.

MapToCollectionOfEntity(ICollection< TViewModel >)

Maps a collection of **ViewModel** to a collection of **TEntity** entities.

```
protected abstract ICollection< TEntity > MapToCollectionOfEntity(ICollection< TViewModel > requestModels)
```

Parameters

`requestModels` [ICollection](#)<TViewModel>

Collection of view model/dto

Returns

[ICollection](#)< TEntity >

Collection of entity.

MapToDto(TEntity)

Maps a `TEntity` entity to a `TViewModel` view model/dto.

```
protected abstract TViewModel MapToDto(TEntity entity)
```

Parameters

`entity` TEntity

Entity.

Returns

TViewModel

View model/dto.

MapToEntity(TViewModel)

Maps a `TViewModel` to a `TEntity` entity.

```
protected abstract TEntity MapToEntity(TViewModel requestModel)
```

Parameters

`requestModel` TViewModel

The view model/dto to map to an entity

Returns

TEntity

Entity.

Namespace Quickie.MinimalApis.Crud

Classes

[CrudEndpoints](#)

Provides extension methods for CRUD endpoints.

[CrudForCollectionEndpoints](#)

Provides extension methods for CRUD of collection endpoints.

Class CrudEndpoints

Namespace: [Quickie.MinimalApis.Crud](#)

Assembly: Quickie.dll

Provides extension methods for CRUD endpoints.

```
public static class CrudEndpoints
```

Inheritance

[object](#) ← CrudEndpoints

Inherited Members

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

Methods

AddCrudEndpoints<TViewModel, TRequestHandler, TIdType>(IEndpointRouteBuilder, string)

Providing CRUD endpoints

```
public static void AddCrudEndpoints<TViewModel, TRequestHandler, TIdType>(this  
IEndpointRouteBuilder app, string baseRoute) where TViewModel : CrudDto where  
TRequestHandler : ICrudRequestHandler<TViewModel, TIdType> where TIdType : IComparable
```

Parameters

app [IEndpointRouteBuilder](#)

The IEndpointRouteBuilder instance to add endpoints to

baseRoute [string](#)

The base route for all CRUD endpoints (e.g., "/api/resources")

Type Parameters

TViewModel

The type of the view model/DTO used for data transfer of type CrudDto

TRequestHandler

The type of the request handler that implements business logic of type ICrudRequestHandler

TIdType

The type of the primary key/identifier of type IComparable

Examples

```
app.AddEndpoints<TodoDto, ITodoRequestHandler, int>(
    "/api/users",
    new UserRequestHandler()
);
```

Remarks

Adds the following endpoints:

- POST {baseRoute} - Creates a new resource
- GET {baseRoute}/{id} - Retrieves a specific resource by ID
- PUT {baseRoute}/{id} - Updates a specific resource
- DELETE {baseRoute}/{id} - Deletes a specific resource

Class CrudForCollectionEndpoints

Namespace: [Quickie.MinimalApis.Crud](#)

Assembly: Quickie.dll

Provides extension methods for CRUD of collection endpoints.

```
public static class CrudForCollectionEndpoints
```

Inheritance

[object](#) ← CrudForCollectionEndpoints

Inherited Members

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

Methods

AddCollectionEndpoints<TViewModel, TRequestHandler, TIdType>(IEndpointRouteBuilder, string, TRequestHandler)

Provides CRUD for collection endpoints

```
public static void AddCollectionEndpoints<TViewModel, TRequestHandler, TIdType>(this  
IEndpointRouteBuilder app, string baseRoute, TRequestHandler requestHandler) where  
TViewModel : CrudDto where TRequestHandler : ICrudForCollectionRequestHandler<TViewModel,  
TIdType> where TIdType : IComparable
```

Parameters

app [IEndpointRouteBuilder](#)

The IEndpointRouteBuilder instance to add endpoints to

baseRoute [string](#)

The base route for all CRUD endpoints (e.g., "/api/resources")

requestHandler [TRequestHandler](#)

The type of the request handler that implements business logic of type `ICrudRequestHandler`

Type Parameters

`TViewModel`

The type of the view model/DTO used for data transfer of type `CrudDto`

`TRequestHandler`

The type of the request handler that implements business logic of type `ICrudRequestHandler`

`TIdType`

The type of the primary key/identifier of type `IComparable`

Remarks

Adds the following endpoints:

- `POST {baseRoute}/items` - Creates multiple resources
- `PUT {baseRoute}/items` - Updates multiple resources
- `GET {baseRoute}/items` - Gets paginated list of resources
- `GET {baseRoute}/items/count` - Gets total count of resources
- `DELETE {baseRoute}/items` - Deletes multiple resources

Namespace Quickie.MinimalApis.Editable

Classes

[EditOnlyEndpoints](#)

Provides extension methods for adding edit-only endpoints

Class EditOnlyEndpoints

Namespace: [Quickie.MinimalApis.EditOnly](#)

Assembly: Quickie.dll

Provides extension methods for adding edit-only endpoints

```
public static class EditOnlyEndpoints
```

Inheritance

[object](#) ↗ ← EditOnlyEndpoints

Inherited Members

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

Methods

AddEditOnlyEndpoints<TViewModel, TRequestHandler, TIdType>(IEndpointRouteBuilder, string)

Adds edit-only endpoints for single and collection-based item updates

```
public static void AddEditOnlyEndpoints<TViewModel, TRequestHandler, TIdType>(this  
IEndpointRouteBuilder app, string baseRoute) where TViewModel : EditOnlyDto where  
TRequestHandler : IEditOnlyRequestHandler<TViewModel, TIdType> where TIdType : IComparable
```

Parameters

app [IEndpointRouteBuilder](#) ↗

The IEndpointRouteBuilder instance to add endpoints to

baseRoute [string](#) ↗

The base route for all CRUD endpoints (e.g., "/api/resources")

Type Parameters

TViewModel

The type of the view model/DTO used for data transfer of type CrudDto

TRequestHandler

The type of the request handler that implements business logic of type ICrudRequestHandler

TIdType

The type of the primary key/identifier of type IComparable

Remarks

Adds the following endpoints:

- PUT {baseRoute}/{id} - Edits a single resource
- PUT {baseRoute}/items - Edits multiple resources

Namespace Quickie.MinimalApis.ReadOnly

Classes

[ReadOnlyCollectionEndpoints](#)

Provides extension methods for adding read-only (GET) collection endpoints

[ReadOnlyEndpoints](#)

Provides extension methods for adding read-only (GET) endpoints

Class ReadOnlyCollectionEndpoints

Namespace: [Quickie.MinimalApis.ReadOnly](#)

Assembly: Quickie.dll

Provides extension methods for adding read-only (GET) collection endpoints

```
public static class ReadOnlyCollectionEndpoints
```

Inheritance

[object](#) ← ReadOnlyCollectionEndpoints

Inherited Members

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

Methods

AddReadOnlyCollectionEndpoints<TViewModel,
TRequestHandler, TRequestForDataModel, TIdType>
(IEndpointRouteBuilder, string)

Adds read-only endpoints for retrieving a collection of resources with filtering, pagination, etc.

```
public static void AddReadOnlyCollectionEndpoints<TViewModel, TRequestHandler,  
TRequestForDataModel, TIdType>(this IEndpointRouteBuilder app, string baseRoute) where  
TViewModel : ReadOnlyDto where TRequestHandler :  
IReadOnlyCollectionRequestHandler<TViewModel, TIdType> where TRequestForDataModel :  
RequestForDataObj where TIdType : IComparable
```

Parameters

app [IEndpointRouteBuilder](#)

The IEndpointRouteBuilder instance to add endpoints to

baseRoute [string](#)

The base route for all CRUD endpoints (e.g., "/api/resources")

Type Parameters

TViewModel

The type of the view model/DTO used for data transfer of type CrudDto

TRequestHandler

The type of the request handler that implements business logic of type ICrudRequestHandler

TRequestForDataModel

Data request model of type RequestForDataObj.

TIdType

The type of the primary key/identifier of type IComparable

Remarks

Adds the following endpoint:

- GET {baseRoute}/items - Retrieves collection of specific resource based on request

Class ReadOnlyEndpoints

Namespace: [Quickie.MinimalApis.ReadOnly](#)

Assembly: Quickie.dll

Provides extension methods for adding read-only (GET) endpoints

```
public static class ReadOnlyEndpoints
```

Inheritance

[object](#) ← ReadOnlyEndpoints

Inherited Members

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

Methods

AddReadOnlyEndpoints<TViewModel, TRequestHandler, TIdType>(IEndpointRouteBuilder, string)

Adds read-only endpoints for retrieving resources by ID.

```
public static void AddReadOnlyEndpoints<TViewModel, TRequestHandler, TIdType>(this  
IEndpointRouteBuilder app, string baseRoute) where TViewModel : ReadOnlyDto where  
TRequestHandler : IReadOnlyRequestHandler<TViewModel, TIdType> where TIdType : IComparable
```

Parameters

app [IEndpointRouteBuilder](#)

The IEndpointRouteBuilder instance to add endpoints to

baseRoute [string](#)

The base route for all CRUD endpoints (e.g., "/api/resources")

Type Parameters

TViewModel

The type of the view model/DTO used for data transfer of type CrudDto

TRequestHandler

The type of the request handler that implements business logic of type ICrudRequestHandler

TIdType

The type of the primary key/identifier of type IComparable

Remarks

Adds the following endpoint:

- GET {baseRoute}/{id} - Retrieves a specific resource by ID

Namespace Quickie.MinimalApis.WriteOnly

Classes

[WriteOnlyEndpoints](#)

Provides extension methods for adding write-only (POST) endpoints

Class WriteOnlyEndpoints

Namespace: [Quickie.MinimalApis.WriteOnly](#)

Assembly: Quickie.dll

Provides extension methods for adding write-only (POST) endpoints

```
public static class WriteOnlyEndpoints
```

Inheritance

[object](#) ← WriteOnlyEndpoints

Inherited Members

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

Methods

AddWriteOnlyEndpoints<TViewModel, TRequestHandler> (IEndpointRouteBuilder, string)

Adds write-only endpoints for creating single or bulk resources

```
public static void AddWriteOnlyEndpoints<TViewModel, TRequestHandler>(this  
IEndpointRouteBuilder app, string baseRoute) where TViewModel : WriteOnlyDto where  
TRequestHandler : IWriteOnlyRequestHandler<TViewModel>
```

Parameters

app [IEndpointRouteBuilder](#)

The IEndpointRouteBuilder instance to add endpoints to

baseRoute [string](#)

The base route for all CRUD endpoints (e.g., "/api/resources")

Type Parameters

TViewModel

The type of the view model/DTO used for data transfer of type CrudDto

TRequestHandler

The type of the request handler that implements business logic of type ICrudRequestHandler

Namespace Quickie.Types

Enums

[ErrorStatusEnum](#)

Status representing the different severity levels of an error or message.

Enum ErrorStatusEnum

Namespace: [Quickie.Types](#)

Assembly: Quickie.dll

Status representing the different severity levels of an error or message.

```
public enum ErrorStatusEnum
```

Fields

Critical = 2

Represents critical errors that require immediate attention. These typically indicate a failure or something that must be fixed for the application to function properly.

Info = 0

Represents informational messages that do not indicate any issues. These are typically non-critical and meant for logging or user information.

Warning = 1

Represents warning messages that indicate potential issues. These require attention but do not block the operation or indicate a failure.

Namespace Quickie.Types.Crud

Classes

[CrudDto](#)

Dto representing CRUD operation

[CrudEntity](#)

Entity representing CRUD operation

Class CrudDto

Namespace: [Quickie.Types.Crud](#)

Assembly: Quickie.dll

Dto representing CRUD operation

```
public abstract record CrudDto : IEquatable<CrudDto>
```

Inheritance

[object](#) ← CrudDto

Implements

[IEquatable](#) <[CrudDto](#)>

Derived

[CrudDtoConcrete](#)

Inherited Members

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

Constructors

CrudDto()

Dto representing CRUD operation

```
protected CrudDto()
```

Class CrudEntity

Namespace: [Quickie.Types.Crud](#)

Assembly: Quickie.dll

Entity representing CRUD operation

```
public abstract class CrudEntity
```

Inheritance

[object](#) ← CrudEntity

Derived

[CrudEntityConcrete](#)

Inherited Members

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

Namespace Quickie.Types.Editonly

Classes

[EditOnlyDto](#)

Dto representing EDIT only operation

[EditOnlyEntity](#)

Entity representing EDIT only operation

Class EditOnlyDto

Namespace: [Quickie.Types.Editonly](#)

Assembly: Quickie.dll

Dto representing EDIT only operation

```
public abstract record EditOnlyDto : IEquatable<EditOnlyDto>
```

Inheritance

[object](#) ← EditOnlyDto

Implements

[IEquatable](#) <[EditOnlyDto](#)>

Derived

[EditOnlyDtoConcrete](#)

Inherited Members

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

Constructors

EditOnlyDto()

Dto representing EDIT only operation

```
protected EditOnlyDto()
```

Class EditOnlyEntity

Namespace: [Quickie.Types.Editonly](#)

Assembly: Quickie.dll

Entity representing EDIT only operation

```
public abstract class EditOnlyEntity
```

Inheritance

[object](#) ← EditOnlyEntity

Derived

[EditOnlyEntityConcrete](#)

Inherited Members

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

Constructors

EditOnlyEntity()

Entity representing EDIT only operation

```
protected EditOnlyEntity()
```

Namespace Quickie.Types.Readonly

Classes

[ReadOnlyDto](#)

Dto representing READ only operation

[ReadOnlyEntity](#)

Entity representing READ only operation

Class ReadOnlyDto

Namespace: [Quickie.Types.Readonly](#)

Assembly: Quickie.dll

Dto representing READ only operation

```
public abstract record ReadOnlyDto : IEquatable<ReadOnlyDto>
```

Inheritance

[object](#) ← ReadOnlyDto

Implements

[IEquatable](#) <[ReadOnlyDto](#)>

Derived

[ReadOnlyDtoConcrete](#)

Inherited Members

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

Constructors

ReadOnlyDto()

Dto representing READ only operation

```
protected ReadOnlyDto()
```

Class ReadOnlyEntity

Namespace: [Quickie.Types.Readonly](#)

Assembly: Quickie.dll

Entity representing READ only operation

```
public abstract class ReadOnlyEntity
```

Inheritance

[object](#) ← ReadOnlyEntity

Derived

[ReadOnlyEntityConcrete](#)

Inherited Members

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

Namespace Quickie.Types.Writable

Classes

[WriteOnlyDto](#)

Dto representing WRITE only operation

[WriteOnlyEntity](#)

Entity representing WRITE only operation

Class WriteOnlyDto

Namespace: [Quickie.Types.Writable](#)

Assembly: Quickie.dll

Dto representing WRITE only operation

```
public record WriteOnlyDto : IEquatable<WriteOnlyDto>
```

Inheritance

[object](#) ← WriteOnlyDto

Implements

[IEquatable](#) <[WriteOnlyDto](#)>

Derived

[WriteOnlyDtoConcrete](#)

Inherited Members

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

Constructors

WriteOnlyDto()

Dto representing WRITE only operation

```
public WriteOnlyDto()
```

Class WriteOnlyEntity

Namespace: [Quickie.Types.Writable](#)

Assembly: Quickie.dll

Entity representing WRITE only operation

```
public abstract class WriteOnlyEntity
```

Inheritance

[object](#) ← WriteOnlyEntity

Derived

[WriteOnlyEntityConcrete](#)

Inherited Members

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

Namespace specification.Controllers

Classes

[CrudControllerTests](#)

Tests for CRUD controller.

[CrudForCollectionControllerTests](#)

Tests for Collection CRUD controller.

[EditOnlyControllerTests](#)

Tests for Edit-Only controller.

[ReadOnlyCollectionControllerTests](#)

Tests for ReadOnlyCollectionController.

[ReadOnlyControllerTests](#)

Tests for ReadOnlyController.

[WriteOnlyControllerTests](#)

Tests for WriteOnlyController.

Class CrudControllerTests

Namespace: [specification.Controllers](#)

Assembly: specification.dll

Tests for CRUD controller.

```
public class CrudControllerTests
```

Inheritance

[object](#) ← CrudControllerTests

Inherited Members

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

Constructors

CrudControllerTests()

```
public CrudControllerTests()
```

Methods

CreateAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()

exception handling test with custom error message disabled

```
[Fact]
```

```
public Task CreateAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()
```

Returns

[Task](#)

CreateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

creation fails due to handler returning unsuccessful response

[Fact]

```
public Task CreateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateAsync_InvalidModelState_ReturnsBadRequest()

invalid model state returns bad request

[Fact]

```
public Task CreateAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateAsync_ValidRequest_ReturnsCreatedResponse()

successful creation with valid request

[Fact]

```
public Task CreateAsync_ValidRequest_ReturnsCreatedResponse()
```

Returns

[Task ↗](#)

DeleteAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

delete fails due to handler returning unsuccessful response

```
[Fact]
public Task DeleteAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

DeleteAsync_ValidId_ReturnsNoContent()

successful delete

```
[Fact]
public Task DeleteAsync_ValidId_ReturnsNoContent()
```

Returns

[Task ↗](#)

GetByIdAsync_NotFound_ReturnsNotFoundResponse()

get by id returns not found when handler returns unsuccessful

```
[Fact]
public Task GetByIdAsync_NotFound_ReturnsNotFoundResponse()
```

Returns

[Task ↗](#)

GetByIdAsync_ValidId_ReturnsOkResponse()

successful get by id

```
[Fact]
public Task GetByIdAsync_ValidId_ReturnsOkResponse()
```

Returns

[Task ↗](#)

UpdateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

update fails due to handler returning unsuccessful response

[Fact]

```
public Task UpdateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

UpdateAsync_ValidRequest_ReturnsOkResponse()

successful update with valid request

[Fact]

```
public Task UpdateAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

Class CrudForCollectionControllerTests

Namespace: [specification.Controllers](#)

Assembly: specification.dll

Tests for Collection CRUD controller.

```
public class CrudForCollectionControllerTests
```

Inheritance

[object](#) ← CrudForCollectionControllerTests

Inherited Members

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

Constructors

CrudForCollectionControllerTests()

```
public CrudForCollectionControllerTests()
```

Methods

CountAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

count retrieval fails when handler returns unsuccessful response

[Fact]

```
public Task CountAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task](#)

CountAsync_ValidRequest_ReturnsOkResponse()

successful count retrieval

[Fact]

```
public Task CountAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

CreateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

creation fails due to handler returning unsuccessful response

[Fact]

```
public Task CreateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateAsync_InvalidModelState_ReturnsBadRequest()

invalid model state returns bad request

[Fact]

```
public Task CreateAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateAsync_ValidRequest_ReturnsCreatedResponse()

successful creation of a collection of data

```
[Fact]
public Task CreateAsync_ValidRequest_ReturnsCreatedResponse()
```

Returns

[Task ↗](#)

DeleteAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

delete fails due to handler returning unsuccessful response

```
[Fact]
public Task DeleteAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

DeleteAsync_ValidRequest_ReturnsNoContent()

successful deletion of a collection of data

```
[Fact]
public Task DeleteAsync_ValidRequest_ReturnsNoContent()
```

Returns

[Task ↗](#)

GetAllAsync_HandlerReturnsUnsuccessful_ReturnsNotFound()

get all fails when handler returns unsuccessful response

```
[Fact]
public Task GetAllAsync_HandlerReturnsUnsuccessful_ReturnsNotFound()
```

Returns

[Task ↗](#)

GetAllAsync_ValidRequest_ReturnsOkResponse()

successful retrieval of paginated data

[Fact]

```
public Task GetAllAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

UpdateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

update fails due to handler returning unsuccessful response

[Fact]

```
public Task UpdateAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

UpdateAsync_ValidRequest_ReturnsOkResponse()

successful update of a collection of data

[Fact]

```
public Task UpdateAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

Class EditOnlyControllerTests

Namespace: [specification.Controllers](#)

Assembly: specification.dll

Tests for Edit-Only controller.

```
public class EditOnlyControllerTests
```

Inheritance

[object](#) ← EditOnlyControllerTests

Inherited Members

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

Constructors

EditOnlyControllerTests()

```
public EditOnlyControllerTests()
```

Methods

EditAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

edit fails due to handler returning unsuccessful response

[Fact]

```
public Task EditAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task](#)

EditAsync_InvalidModelState_ReturnsBadRequest()

invalid model state returns bad request

[Fact]

```
public Task EditAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

EditAsync_ValidRequest_ReturnsOkResponse()

successful edit of a single item

[Fact]

```
public Task EditAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

EditCollectionAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

edit collection fails due to handler returning unsuccessful response

[Fact]

```
public Task EditCollectionAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

EditCollectionAsync_InvalidModelState_ReturnsBadRequest()

Invalid model state for collection edit returns bad request

```
[Fact]
public Task EditCollectionAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

EditCollectionAsync_ValidRequest_ReturnsOkResponse()

Successful edit of a collection of items

```
[Fact]
public Task EditCollectionAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

Class ReadOnlyCollectionControllerTests

Namespace: [specification.Controllers](#)

Assembly: specification.dll

Tests for ReadOnlyCollectionController.

```
public class ReadOnlyCollectionControllerTests
```

Inheritance

[object](#) ← ReadOnlyCollectionControllerTests

Inherited Members

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

Constructors

ReadOnlyCollectionControllerTests()

```
public ReadOnlyCollectionControllerTests()
```

Methods

GetAsync_ExceptionThrown_ReturnsBadRequestWithErrorMessage()

GetAsync handles exceptions with appropriate error response

```
[Fact]
```

```
public Task GetAsync_ExceptionThrown_ReturnsBadRequestWithErrorMessage()
```

Returns

[Task](#)

GetAsync_InvalidModelState_ReturnsBadRequest()

GetAsync returns BadRequest when model state is invalid

[Fact]

```
public Task GetAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

GetAsync_NoItemsFound_ReturnsNotFoundResponse()

GetAsync returns NotFound when no items are found

[Fact]

```
public Task GetAsync_NoItemsFound_ReturnsNotFoundResponse()
```

Returns

[Task ↗](#)

GetAsync_ValidRequest_ReturnsOkResponse()

Successful GetAsync with valid request

[Fact]

```
public Task GetAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

Class ReadOnlyControllerTests

Namespace: [specification.Controllers](#)

Assembly: specification.dll

Tests for ReadOnlyController.

```
public class ReadOnlyControllerTests
```

Inheritance

[object](#) ← ReadOnlyControllerTests

Inherited Members

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

Constructors

ReadOnlyControllerTests()

```
public ReadOnlyControllerTests()
```

Methods

GetByIdAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()

exception handling test with custom error message disabled

```
[Fact]
```

```
public Task GetByIdAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()
```

Returns

[Task](#)

GetByIdAsync_ExceptionThrown_WithCustomErrorMessageEnabled()

exception handling test with custom error message enabled

[Fact]

```
public Task GetByIdAsync_ExceptionThrown_WithCustomErrorMessageEnabled()
```

Returns

[Task ↗](#)

GetByIdAsync_NotFound_ReturnsNotFoundResponse()

Get by id returns not found when handler returns unsuccessful response

[Fact]

```
public Task GetByIdAsync_NotFound_ReturnsNotFoundResponse()
```

Returns

[Task ↗](#)

GetByIdAsync_NullOrEmptyId_BadRequest()

get by id with null or empty id throws exception

[Fact]

```
public Task GetByIdAsync_NullOrEmptyId_BadRequest()
```

Returns

[Task ↗](#)

GetByIdAsync_ValidId_ReturnsOkResponse()

successful get by id with valid request

```
[Fact]
public Task GetByIdAsync_ValidateId_ReturnsOkResponse()
```

Returns

[Task ↗](#)

Class WriteOnlyControllerTests

Namespace: [specification.Controllers](#)

Assembly: specification.dll

Tests for WriteOnlyController.

```
public class WriteOnlyControllerTests
```

Inheritance

[object](#) ← WriteOnlyControllerTests

Inherited Members

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

Constructors

WriteOnlyControllerTests()

```
public WriteOnlyControllerTests()
```

Methods

CreateItemAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()

Single item creation exception handling with custom error message disabled

```
[Fact]
```

```
public Task CreateItemAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()
```

Returns

[Task](#)

CreateItemAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

Single item creation fails due to handler returning unsuccessful response

[Fact]

```
public Task CreateItemAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateItemAsync_InvalidModelState_ReturnsBadRequest()

Single item creation fails due to invalid model state

[Fact]

```
public Task CreateItemAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateItemAsync_ValidRequest_ReturnsOkResponse()

Successful single item creation with valid request

[Fact]

```
public Task CreateItemAsync_ValidRequest_ReturnsOkResponse()
```

Returns

[Task ↗](#)

CreateItemsAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()

Bulk item creation exception handling

[Fact]

```
public Task CreateItemsAsync_ExceptionThrown_ReturnsBadRequestWithGenericMessage()
```

Returns

[Task ↗](#)

CreateItemsAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()

Bulk item creation fails due to handler returning unsuccessful response

[Fact]

```
public Task CreateItemsAsync_HandlerReturnsUnsuccessful_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateItemsAsync_InvalidModelState_ReturnsBadRequest()

Bulk item creation fails due to invalid model state

[Fact]

```
public Task CreateItemsAsync_InvalidModelState_ReturnsBadRequest()
```

Returns

[Task ↗](#)

CreateItemsAsync_ValidRequests_ReturnsOkResponse()

Successful bulk item creation with valid requests

[Fact]

```
public Task CreateItemsAsync_ValidRequests_ReturnsOkResponse()
```

Returns

[Task ↗](#)

Namespace specification.DataHandlers

Classes

[CrudDataHandlerTests](#)

Tests of CRUD data handler.

[EditOnlyDataHandlerTests](#)

Test for EditOnly data handler

[ReadOnlyCollectionDataHandlerTests](#)

Test for readonly collection data handler. (integration tests with InMemory database.)

[ReadOnlyDataHandlerTests](#)

Test for readonly data handler.

[WriteOnlyDataHandlerTests](#)

Tests for writeOnly data handler

Class CrudDataHandlerTests

Namespace: [specification.DataHandlers](#)

Assembly: specification.dll

Tests of CRUD data handler.

```
public class CrudDataHandlerTests
```

Inheritance

[object](#) ← CrudDataHandlerTests

Inherited Members

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

Constructors

CrudDataHandlerTests()

```
public CrudDataHandlerTests()
```

Methods

CreateAsync_ShouldReturnFailure_WhenSaveFails()

CreateAsync returns failure message when something went wrong.

```
[Fact]  
public Task CreateAsync_ShouldReturnFailure_WhenSaveFails()
```

Returns

[Task](#)

CreateAsync_ShouldReturnSuccess_WhenEntityIsAdded()

CreateAsync returns success with newly created data.

[Fact]

```
public Task CreateAsync_ShouldReturnSuccess_WhenEntityIsAdded()
```

Returns

[Task ↗](#)

DeleteAsync_ShouldReturnFailure_WhenEntityDoesNotExist()

When data to delete does not exist.

[Fact]

```
public Task DeleteAsync_ShouldReturnFailure_WhenEntityDoesNotExist()
```

Returns

[Task ↗](#)

DeleteAsync_ShouldReturnSuccess_WhenEntityIsDeleted()

Successful deletion of data.

[Fact]

```
public Task DeleteAsync_ShouldReturnSuccess_WhenEntityIsDeleted()
```

Returns

[Task ↗](#)

GetByIdAsync_ShouldReturnFailure_WhenEntityDoesNotExist()

GetDataAsync when data does not exist.

```
[Fact]
public Task GetByIdAsync_ShouldReturnFailure_WhenEntityDoesNotExist()
```

Returns

[Task ↗](#)

GetByIdAsync_ShouldReturnSuccess_WhenEntityExists()

GetDataAsync returning data when it exists.

```
[Fact]
public Task GetByIdAsync_ShouldReturnSuccess_WhenEntityExists()
```

Returns

[Task ↗](#)

UpdateAsync_ShouldReturnFailure_WhenEntityDoesNotExist()

Update failure returns with failure message.

```
[Fact]
public Task UpdateAsync_ShouldReturnFailure_WhenEntityDoesNotExist()
```

Returns

[Task ↗](#)

UpdateAsync_ShouldReturnSuccess_WhenEntityIsUpdated()

Update success returns with updated data and message. (integration test)

```
[Fact]
public Task UpdateAsync_ShouldReturnSuccess_WhenEntityIsUpdated()
```

Returns

[Task ↗](#)

Class EditOnlyDataHandlerTests

Namespace: [specification.DataHandlers](#)

Assembly: specification.dll

Test for EditOnly data handler

```
public class EditOnlyDataHandlerTests
```

Inheritance

[object](#) ← EditOnlyDataHandlerTests

Inherited Members

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

Constructors

EditOnlyDataHandlerTests()

```
public EditOnlyDataHandlerTests()
```

Methods

EditAsync_ShouldReturnFailure_WhenEntityDoesNotExist()

edit async failure with message when updating data does not exist.

```
[Fact]  
public Task EditAsync_ShouldReturnFailure_WhenEntityDoesNotExist()
```

Returns

[Task](#)

EditAsync_ShouldReturnSuccess_WhenEntityIsUpdated()

edit async success with message and updated data.

[Fact]

```
public Task EditAsync_ShouldReturnSuccess_WhenEntityIsUpdated()
```

Returns

[Task ↗](#)

EditCollectionAsync_ShouldReturnError_WhenInputIsNull()

edit async failure with message when updating data (input) is null.

[Fact]

```
public Task EditCollectionAsync_ShouldReturnError_WhenInputIsNull()
```

Returns

[Task ↗](#)

EditCollectionAsync_ShouldReturnFailure_WhenExceptionIsThrown()

edit async failure with message when exception is thrown.

[Fact]

```
public Task EditCollectionAsync_ShouldReturnFailure_WhenExceptionIsThrown()
```

Returns

[Task ↗](#)

EditCollectionAsync_ShouldReturnFailure_WhenNoChangesAreMade()

edit async failure with message when some error occurs (eg: updated data is not saved).

[Fact]

```
public Task EditCollectionAsync_ShouldReturnFailure_WhenNoChangesAreMade()
```

Returns

[Task](#)

Class ReadOnlyCollectionDataHandlerTests

Namespace: [specification.DataHandlers](#)

Assembly: specification.dll

Test for readonly collection data handler. (integration tests with InMemory database.)

```
public class ReadOnlyCollectionDataHandlerTests
```

Inheritance

[object](#) ← ReadOnlyCollectionDataHandlerTests

Inherited Members

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

Constructors

ReadOnlyCollectionDataHandlerTests()

```
public ReadOnlyCollectionDataHandlerTests()
```

Methods

GetByFilterAsync_WithCancellationToken_ShouldRespectToken()

GetByFilter returns proper paginated data.

```
[Fact]
```

```
public Task GetByFilterAsync_WithCancellationToken_ShouldRespectToken()
```

Returns

[Task](#)

GetByFilterAsync_WithPagination_ReturnsCorrectPage()

GetByFilter returns correct page data.

[Fact]

```
public Task GetByFilterAsync_WithPagination_ReturnsCorrectPage()
```

Returns

[Task ↗](#)

GetByFilterAsync_WithPredicate_NoData()

GetByFilter returns no data when predicate value does not exist.

[Fact]

```
public Task GetByFilterAsync_WithPredicate_NoData()
```

Returns

[Task ↗](#)

GetByFilterAsync_WithPredicate_ReturnsCorrectPaginatedData()

GetByFilter returns proper paginated data for predicated search.

[Fact]

```
public Task GetByFilterAsync_WithPredicate_ReturnsCorrectPaginatedData()
```

Returns

[Task ↗](#)

GetByFilterAsync_WithValidFilter_ReturnsCorrectPaginatedData()

GetByFilter returns proper paginated data.

```
[Fact]  
public Task GetByFilterAsync_WithValidFilter_ReturnsCorrectPaginatedData()
```

Returns

[Task ↗](#)

Class ReadOnlyDataHandlerTests

Namespace: [specification.DataHandlers](#)

Assembly: specification.dll

Test for readonly data handler.

```
public class ReadOnlyDataHandlerTests
```

Inheritance

[object](#) ← ReadOnlyDataHandlerTests

Inherited Members

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

Constructors

ReadOnlyDataHandlerTests()

```
public ReadOnlyDataHandlerTests()
```

Methods

GetByIdAsync_ShouldReturnEntity_WhenIdExists()

.GetByIdAsync returns data when data exists.

```
[Fact]
```

```
public Task GetByIdAsync_ShouldReturnEntity_WhenIdExists()
```

Returns

[Task](#)

GetByIdAsync_ShouldReturnNull_WhenIdDoesNotExist()

.GetByIdAsync returns null when data does not exists.

```
[Fact]
```

```
public Task GetByIdAsync_ShouldReturnNull_WhenIdDoesNotExist()
```

Returns

[Task](#)

GetByIdAsync_ShouldThrowException_WhenCancellationRequested()

.GetByIdAsync throws exception when cancellation is requested.

```
[Fact]
```

```
public Task GetByIdAsync_ShouldThrowException_WhenCancellationRequested()
```

Returns

[Task](#)

GetByIdAsync_ShouldThrowException_WhenContextIsNull()

.GetByIdAsync throws exception when passed dbContext is null.

```
[Fact]
```

```
public void GetByIdAsync_ShouldThrowException_WhenContextIsNull()
```

Class WriteOnlyDataHandlerTests

Namespace: [specification.DataHandlers](#)

Assembly: specification.dll

Tests for writeOnly data handler

```
public class WriteOnlyDataHandlerTests
```

Inheritance

[object](#) ← WriteOnlyDataHandlerTests

Inherited Members

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

Constructors

WriteOnlyDataHandlerTests()

```
public WriteOnlyDataHandlerTests()
```

Methods

CreateItemAsync_ShouldCreateItem_WhenItemIsValid()

Test CreateItemAsync when item is created successfully

```
[Fact]
```

```
public Task CreateItemAsync_ShouldCreateItem_WhenItemIsValid()
```

Returns

[Task](#)

CreateItemAsync_ShouldReturnError_WhenExceptionOccurs()

Test CreateItemAsync when an exception occurs

[Fact]

```
public Task CreateItemAsync_ShouldReturnError_WhenExceptionOccurs()
```

Returns

[Task](#)

CreateItemAsync_ShouldThrowArgumentNullException_WhenItemIsNull()

Test when passing null item to CreateItemAsync

[Fact]

```
public Task CreateItemAsync_ShouldThrowArgumentNullException_WhenItemIsNull()
```

Returns

[Task](#)

CreateItemsAsync_ShouldCreateItems_WhenItemsAreValid()

Test CreateItemsAsync when multiple items are created successfully

[Fact]

```
public Task CreateItemsAsync_ShouldCreateItems_WhenItemsAreValid()
```

Returns

[Task](#)

CreateItemsAsync_ShouldReturnError_WhenExceptionOccurs()

Test CreateItemsAsync when an exception occurs.

```
[Fact]  
public Task CreateItemsAsync_ShouldReturnError_WhenExceptionOccurs()
```

Returns

[Task ↗](#)

CreateItemsAsync_ShouldThrowArgumentNullException_WhenItemsAreNull()

Test when passing null items to CreateItemsAsync

```
[Fact]  
public Task CreateItemsAsync_ShouldThrowArgumentNullException_WhenItemsAreNull()
```

Returns

[Task ↗](#)

Namespace specification.Helpers.DataHandlers

Classes

[CrudDataHandlerConcrete](#)

[EditOnlyDataHandlerConcrete](#)

[ReadOnlyCollectionDataHandlerConcrete](#)

[ReadOnlyDataHandlerConcrete](#)

[WriteOnlyDataHandlerConcrete](#)

Class CrudDataHandlerConcrete

Namespace: [specification.Helpers.DataHandlers](#)

Assembly: specification.dll

```
public class CrudDataHandlerConcrete : CrudDataHandler<CrudEntityConcrete, DbContext, int>,  
ICrudDataHandler<CrudEntityConcrete, int>
```

Inheritance

[object](#) ← [CrudDataHandler<CrudEntityConcrete, DbContext, int>](#) ← [CrudDataHandlerConcrete](#)

Implements

[ICrudDataHandler<CrudEntityConcrete, int>](#)

Inherited Members

[CrudDataHandler<CrudEntityConcrete, DbContext, int>.CreateAsync\(CrudEntityConcrete, CancellationToken?\)](#),
[CrudDataHandler<CrudEntityConcrete, DbContext, int>.GetByIdAsync\(int, CancellationToken?\)](#),
[CrudDataHandler<CrudEntityConcrete, DbContext, int>.UpdateAsync\(int, CrudEntityConcrete, CancellationToken?\)](#),
[CrudDataHandler<CrudEntityConcrete, DbContext, int>.DeleteAsync\(int, CancellationToken?\)](#),
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

CrudDataHandlerConcrete(DbContext)

```
public CrudDataHandlerConcrete(DbContext dbContext)
```

Parameters

dbContext [DbContext](#)

Class EditOnlyDataHandlerConcrete

Namespace: [specification.Helpers.DataHandlers](#)

Assembly: specification.dll

```
public class EditOnlyDataHandlerConcrete : EditOnlyDataHandler<EditOnlyEntityConcrete, int>,  
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>
```

Inheritance

[object](#) ← [EditOnlyDataHandler<EditOnlyEntityConcrete, int>](#) ← [EditOnlyDataHandlerConcrete](#)

Implements

[IEditOnlyDataHandler<EditOnlyEntityConcrete, int>](#)

Inherited Members

[EditOnlyDataHandler<EditOnlyEntityConcrete, int>.EditAsync\(int, EditOnlyEntityConcrete, CancellationToken?\)](#),
[EditOnlyDataHandler<EditOnlyEntityConcrete, int>.EditCollectionAsync\(IList<EditOnlyEntityConcrete>, CancellationToken?\)](#),
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

EditOnlyDataHandlerConcrete(DbContext)

```
public EditOnlyDataHandlerConcrete(DbContext dbContext)
```

Parameters

dbContext [DbContext](#)

Class ReadOnlyCollectionDataHandlerConcrete

Namespace: [specification.Helpers.DataHandlers](#)

Assembly: specification.dll

```
public class ReadOnlyCollectionDataHandlerConcrete :  
    ReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, DbContext, int>,  
    IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>
```

Inheritance

[object](#) ← [ReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, DbContext, int>](#) ←
ReadOnlyCollectionDataHandlerConcrete

Implements

[IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>](#)

Inherited Members

[ReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, DbContext, int>.GetByFilterAsync<TRequestModel>\(Expression<Func<ReadOnlyEntityConcrete, bool>>, TRequestModel, bool?, CancellationToken?\)](#),
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ReadOnlyCollectionDataHandlerConcrete(DbContext)

```
public ReadOnlyCollectionDataHandlerConcrete(DbContext context)
```

Parameters

context [DbContext](#)

Class ReadOnlyDataHandlerConcrete

Namespace: [specification.Helpers.DataHandlers](#)

Assembly: specification.dll

```
public class ReadOnlyDataHandlerConcrete : ReadOnlyDataHandler<ReadOnlyEntityConcrete,  
DbContext, int>, IReadOnlyDataHandler<ReadOnlyEntityConcrete, int>
```

Inheritance

[object](#) ← [ReadOnlyDataHandler](#)<[ReadOnlyEntityConcrete](#), [DbContext](#), [int](#)> ←
ReadOnlyDataHandlerConcrete

Implements

[IReadOnlyDataHandler](#)<[ReadOnlyEntityConcrete](#), [int](#)>

Inherited Members

[ReadOnlyDataHandler](#)<[ReadOnlyEntityConcrete](#), [DbContext](#), [int](#)>.GetByIdAsync([int](#), [CancellationToken](#)?),
[object.Equals](#)([object](#)) , [object.Equals](#)([object](#), [object](#)) , [object.GetHashCode](#)() , [object.GetType](#)() ,
[object.MemberwiseClone](#)() , [object.ReferenceEquals](#)([object](#), [object](#)) , [object.ToString](#)()

Constructors

ReadOnlyDataHandlerConcrete(DbContext)

```
public ReadOnlyDataHandlerConcrete(DbContext context)
```

Parameters

context [DbContext](#)

Class WriteOnlyDataHandlerConcrete

Namespace: [specification.Helpers.DataHandlers](#)

Assembly: specification.dll

```
public class WriteOnlyDataHandlerConcrete : WriteOnlyDataHandler<WriteOnlyEntityConcrete,  
DbContext>, IWriteOnlyDataHandler<WriteOnlyEntityConcrete>
```

Inheritance

[object](#) ← [WriteOnlyDataHandler](#)<[WriteOnlyEntityConcrete](#), [DbContext](#)> ←
WriteOnlyDataHandlerConcrete

Implements

[IWriteOnlyDataHandler](#)<[WriteOnlyEntityConcrete](#)>

Inherited Members

[WriteOnlyDataHandler](#)<[WriteOnlyEntityConcrete](#),
[DbContext](#)>.CreateItemAsync([WriteOnlyEntityConcrete](#), [CancellationToken](#)?),
[WriteOnlyDataHandler](#)<[WriteOnlyEntityConcrete](#),
[DbContext](#)>.CreateItemsAsync([ICollection](#)<[WriteOnlyEntityConcrete](#)>, [CancellationToken](#)?),
[object.Equals](#)([object](#)) , [object.Equals](#)([object](#), [object](#)) , [object.GetHashCode](#)() , [object.GetType](#)() ,
[object.MemberwiseClone](#)() , [object.ReferenceEquals](#)([object](#), [object](#)) , [object.ToString](#)()

Constructors

WriteOnlyDataHandlerConcrete([DbContext](#))

```
public WriteOnlyDataHandlerConcrete(DbContext context)
```

Parameters

context [DbContext](#)

Namespace specification.Helpers.Dtos

Classes

[CrudDtoConcrete](#)

concrete dto of crud dto

[EditOnlyDtoConcrete](#)

[FilterResult](#)

[ReadOnlyCollectionDataRequest](#)

[ReadOnlyDtoConcrete](#)

[WriteOnlyDtoConcrete](#)

Class CrudDtoConcrete

Namespace: [specification.Helpers.Dtos](#)

Assembly: specification.dll

concrete dto of crud dto

```
public record CrudDtoConcrete : CrudDto, IEquatable<CrudDto>, IEquatable<CrudDtoConcrete>
```

Inheritance

[object](#) ← [CrudDto](#) ← CrudDtoConcrete

Implements

[IEquatable](#)<[CrudDto](#)>, [IEquatable](#)<[CrudDtoConcrete](#)>

Inherited Members

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

Constructors

CrudDtoConcrete()

concrete dto of crud dto

```
public CrudDtoConcrete()
```

Class EditOnlyDtoConcrete

Namespace: [specification.Helpers.Dtos](#)

Assembly: specification.dll

```
public record EditOnlyDtoConcrete : EditOnlyDto, IEquatable<EditOnlyDto>,  
IEquatable<EditOnlyDtoConcrete>
```

Inheritance

[object](#) ← [EditOnlyDto](#) ← EditOnlyDtoConcrete

Implements

[IEquatable](#)<[EditOnlyDto](#)>, [IEquatable](#)<[EditOnlyDtoConcrete](#)>

Inherited Members

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

Constructors

EditOnlyDtoConcrete()

```
public EditOnlyDtoConcrete()
```

Class FilterResult

Namespace: [specification.Helpers.Dtos](#)

Assembly: specification.dll

```
public class FilterResult : RequestForDataObj
```

Inheritance

[object](#) ← [RequestForDataObj](#) ← FilterResult

Inherited Members

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

Properties

Name

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

Property Value

[string](#)

Class ReadOnlyCollectionDataRequest

Namespace: [specification.Helpers.Dtos](#)

Assembly: specification.dll

```
public class ReadOnlyCollectionDataRequest : RequestForDataObj
```

Inheritance

[object](#) ← [RequestForDataObj](#) ← [ReadOnlyCollectionDataRequest](#)

Inherited Members

[RequestForDataObj.PageSize](#) , [RequestForDataObj.PageNumber](#) , [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](#)

Class ReadOnlyDtoConcrete

Namespace: [specification.Helpers.Dtos](#)

Assembly: specification.dll

```
public record ReadOnlyDtoConcrete : ReadOnlyDto, IEquatable<ReadOnlyDto>,
IEquatable<ReadOnlyDtoConcrete>
```

Inheritance

[object](#) ← [ReadOnlyDto](#) ← [ReadOnlyDtoConcrete](#)

Implements

[IEquatable](#)<[ReadOnlyDto](#)>, [IEquatable](#)<[ReadOnlyDtoConcrete](#)>

Inherited Members

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

Constructors

ReadOnlyDtoConcrete()

```
public ReadOnlyDtoConcrete()
```

Class WriteOnlyDtoConcrete

Namespace: [specification.Helpers.Dtos](#)

Assembly: specification.dll

```
public record WriteOnlyDtoConcrete : WriteOnlyDto, IEquatable<WriteOnlyDto>,
IEquatable<WriteOnlyDtoConcrete>
```

Inheritance

[object](#) ← [WriteOnlyDto](#) ← WriteOnlyDtoConcrete

Implements

[IEquatable](#)<[WriteOnlyDto](#)>, [IEquatable](#)<[WriteOnlyDtoConcrete](#)>

Inherited Members

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

Constructors

WriteOnlyDtoConcrete()

```
public WriteOnlyDtoConcrete()
```

Namespace specification.Helpers.Entities

Classes

[CrudEntityConcrete](#)

[EditOnlyEntityConcrete](#)

[ReadOnlyEntityConcrete](#)

[WriteOnlyEntityConcrete](#)

Class CrudEntityConcrete

Namespace: [specification.Helpers.Entities](#)

Assembly: specification.dll

```
public class CrudEntityConcrete : CrudEntity
```

Inheritance

[object](#) ← [CrudEntity](#) ← CrudEntityConcrete

Inherited Members

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

Properties

Id

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

Property Value

[int](#)

Name

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

Property Value

[string](#)

Class EditOnlyEntityConcrete

Namespace: [specification.Helpers.Entities](#)

Assembly: specification.dll

```
public class EditOnlyEntityConcrete : EditOnlyEntity
```

Inheritance

[object](#) ← [EditOnlyEntity](#) ← EditOnlyEntityConcrete

Inherited Members

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

Properties

Id

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

Property Value

[int](#)

Name

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

Property Value

[string](#)

Class ReadOnlyEntityConcrete

Namespace: [specification.Helpers.Entities](#)

Assembly: specification.dll

```
public class ReadOnlyEntityConcrete : ReadOnlyEntity
```

Inheritance

[object](#) ← [ReadOnlyEntity](#) ← [ReadOnlyEntityConcrete](#)

Inherited Members

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

Properties

Id

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

Property Value

[int](#)

Name

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

Property Value

[string](#)

Class WriteOnlyEntityConcrete

Namespace: [specification.Helpers.Entities](#)

Assembly: specification.dll

```
public class WriteOnlyEntityConcrete : WriteOnlyEntity
```

Inheritance

[object](#) ← [WriteOnlyEntity](#) ← WriteOnlyEntityConcrete

Inherited Members

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

Properties

Id

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

Property Value

[int](#)

Name

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

Property Value

[string](#)

Namespace specification.Helpers.Request Handlers

Classes

[CrudForCollectionRequestHandlerConcrete](#)

[CrudRequestHandlerConcrete](#)

[EditOnlyRequestHandlerConcrete](#)

[ReadOnlyCollectionRequestHandlerConcrete](#)

[ReadOnlyRequestHandlerConcrete](#)

[WriteOnlyRequestHandlerConcrete](#)

Class CrudForCollectionRequestHandlerConcrete

Namespace: [specification.Helpers.RequestHandlers](#)

Assembly: specification.dll

```
public class CrudForCollectionRequestHandlerConcrete :  
    CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete,  
    ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>,  
    ICrudForCollectionRequestHandler<CrudDtoConcrete, int>
```

Inheritance

```
object ←  
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int> ←  
CrudForCollectionRequestHandlerConcrete
```

Implements

[ICrudForCollectionRequestHandler<CrudDtoConcrete, int>](#)

Inherited Members

```
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>.CreateRangeAsync\(ICollection<CrudDtoConcrete>, CancellationToken?\),  
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>.UpdateRangeAsync\(ICollection<CrudDtoConcrete>, CancellationToken?\),  
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>.DeleteRangeAsync\(ICollection<int>, CancellationToken?\),  
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>.GetAllAsync\(RequestForDataObj, CancellationToken?\),  
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>.CountAsync\(CancellationToken?\),  
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudForCollectionDataHandler<CrudEntityConcrete, int>, int>.MapToCollectionOfDto\(ICollection<CrudEntityConcrete>\),
```

```
CrudForCollectionRequestHandler<CrudDtoConcrete, CrudEntityConcrete,  
ICrudForCollectionDataHandler<CrudEntityConcrete, int>,  
int>.MapToCollectionOfEntity(ICollection<CrudDtoConcrete>),  
object.Equals(object) ↗, object.Equals(object, object) ↗, object.GetHashCode() ↗, object.GetType() ↗,  
object.MemberwiseClone() ↗, object.ReferenceEquals(object, object) ↗, object.ToString() ↗
```

Constructors

[CrudForCollectionRequestHandlerConcrete](#)([ICrudForCollectionDataHandler](#)<[CrudEntityConcrete](#), [int](#)>)

```
public  
CrudForCollectionRequestHandlerConcrete(ICrudForCollectionDataHandler<CrudEntityConcrete,  
int> dataHandler)
```

Parameters

[dataHandler](#) [ICrudForCollectionDataHandler](#)<[CrudEntityConcrete](#), [int](#) ↗>

Methods

[MapToCollectionOfDto](#)([ICollection](#)<[CrudEntityConcrete](#)>)

Maps a collection of [CrudEntityConcrete](#) to a collection of [CrudDtoConcrete](#) dto.

```
protected override ICollection<CrudDtoConcrete>  
MapToCollectionOfDto(ICollection<CrudEntityConcrete> entity)
```

Parameters

[entity](#) [ICollection](#) ↗<[CrudEntityConcrete](#)>

Returns

[ICollection](#) ↗<[CrudDtoConcrete](#)>

MapToCollectionOfEntity(Collection<CrudDtoConcrete>)

Maps a collection of [CrudDtoConcrete](#) to a collection of [CrudEntityConcrete](#) entity.

```
protected override ICollection<CrudEntityConcrete>
MapToCollectionOfEntity(Collection<CrudDtoConcrete> entity)
```

Parameters

entity [ICollection](#)<[CrudDtoConcrete](#)>

Returns

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

Class CrudRequestHandlerConcrete

Namespace: [specification.Helpers.RequestHandlers](#)

Assembly: specification.dll

```
public class CrudRequestHandlerConcrete : CrudRequestHandler<CrudDtoConcrete,  
CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>,  
ICrudRequestHandler<CrudDtoConcrete, int>
```

Inheritance

```
object ←  
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int> <  
CrudRequestHandlerConcrete
```

Implements

[ICrudRequestHandler](#)<[CrudDtoConcrete](#), [int](#)>

Inherited Members

```
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>.CreateAsync(CrudDtoConcrete, CancellationToken?),  
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>.GetByIdAsync(int, CancellationToken?),  
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>.UpdateAsync(int, CrudDtoConcrete, CancellationToken?),  
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>.DeleteAsync(int, CancellationToken?),  
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>.MapToEntity(CrudDtoConcrete),  
CrudRequestHandler<CrudDtoConcrete, CrudEntityConcrete, ICrudDataHandler<CrudEntityConcrete, int>, int>.MapToDto(CrudEntityConcrete),  
object.Equals(object)↗, object.Equals(object, object)↗, object.GetHashCode()↗, object.GetType()↗,  
object.MemberwiseClone()↗, object.ReferenceEquals(object, object)↗, object.ToString()↗
```

Constructors

[CrudRequestHandlerConcrete](#)([ICrudDataHandler](#)<[CrudEntityConcrete](#), [int](#)>)

```
public CrudRequestHandlerConcrete(ICrudDataHandler<CrudEntityConcrete, int> dataHandler)
```

Parameters

dataHandler [ICrudDataHandler<CrudEntityConcrete, int>](#)

Methods

MapToDto(CrudEntityConcrete)

Maps a [CrudEntityConcrete](#) to a [CrudDtoConcrete](#) dto.

```
protected override CrudDtoConcrete MapToDto(CrudEntityConcrete request)
```

Parameters

request [CrudEntityConcrete](#)

Entity

Returns

[CrudDtoConcrete](#)

Dto

MapToEntity(CrudDtoConcrete)

Maps a [CrudDtoConcrete](#) to a [CrudEntityConcrete](#) entity.

```
protected override CrudEntityConcrete MapToEntity(CrudDtoConcrete request)
```

Parameters

request [CrudDtoConcrete](#)

Dto

Returns

[CrudEntityConcrete](#)

Entity

Class EditOnlyRequestHandlerConcrete

Namespace: [specification.Helpers.RequestHandlers](#)

Assembly: specification.dll

```
public class EditOnlyRequestHandlerConcrete : EditOnlyRequestHandler<EditOnlyDtoConcrete,
EditOnlyEntityConcrete, IEditOnlyDataHandler<EditOnlyEntityConcrete, int>, int>,
IEditOnlyRequestHandler<EditOnlyDtoConcrete, int>
```

Inheritance

```
object ←
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete, IEditOnlyDataHandler<EditOnlyEntityConcrete, int>, int> ←
EditOnlyRequestHandlerConcrete
```

Implements

[IEditOnlyRequestHandler<EditOnlyDtoConcrete, int>](#)

Inherited Members

```
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete,
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>, int>.EditAsync(int, EditOnlyDtoConcrete,
CancellationToken?) ,
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete,
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>,
int>.EditCollectionAsync(ICollection<EditOnlyDtoConcrete>, CancellationToken?) ,
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete,
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>, int>.MapToEntity(EditOnlyDtoConcrete) ,
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete,
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>, int>.MapToDto(EditOnlyEntityConcrete) ,
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete,
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>,
int>.MapToCollectionOfEntity(ICollection<EditOnlyDtoConcrete>) ,
EditOnlyRequestHandler<EditOnlyDtoConcrete, EditOnlyEntityConcrete,
IEditOnlyDataHandler<EditOnlyEntityConcrete, int>,
int>.MapToCollectionOfDto(ICollection<EditOnlyEntityConcrete>) ,
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()
```

Constructors

EditOnlyRequestHandlerConcrete(IEditOnlyDataHandler<EditOnlyEntityConcrete, int>)

```
public EditOnlyRequestHandlerConcrete(IEditOnlyDataHandler<EditOnlyEntityConcrete,  
int> dataHandler)
```

Parameters

dataHandler [IEditOnlyDataHandler<EditOnlyEntityConcrete, int>](#)

Methods

MapToCollectionOfDto(ICollection<EditOnlyEntityConcrete>)

Maps a collection of [EditOnlyEntityConcrete](#) entities to a collection of [EditOnlyDtoConcrete](#) view models.

```
protected override ICollection<EditOnlyDtoConcrete>  
MapToCollectionOfDto(ICollection<EditOnlyEntityConcrete> entities)
```

Parameters

entities [ICollection<EditOnlyEntityConcrete>](#)

Collection of entity.

Returns

[ICollection<EditOnlyDtoConcrete>](#)

Collection of view model/dto.

MapToCollectionOfEntity(ICollection<EditOnlyDtoConcrete>)

Maps a collection of [EditOnlyDtoConcrete](#) to a collection of [EditOnlyEntityConcrete](#) entities.

```
protected override ICollection<EditOnlyEntityConcrete>
MapToCollectionOfEntity(ICollection<EditOnlyDtoConcrete> requestModels)
```

Parameters

requestModels [ICollection](#)<[EditOnlyDtoConcrete](#)>

Collection of view model/dto

Returns

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

Collection of entity.

MapToDto(EditOnlyEntityConcrete)

Maps a [EditOnlyEntityConcrete](#) entity to a [EditOnlyDtoConcrete](#) view model/dto.

```
protected override EditOnlyDtoConcrete MapToDto(EditOnlyEntityConcrete entity)
```

Parameters

entity [EditOnlyEntityConcrete](#)

Entity.

Returns

[EditOnlyDtoConcrete](#)

View model/dto.

MapToEntity(EditOnlyDtoConcrete)

Maps a [EditOnlyDtoConcrete](#) to a [EditOnlyEntityConcrete](#) entity.

```
protected override EditOnlyEntityConcrete MapToEntity(EditOnlyDtoConcrete requestModel)
```

Parameters

`requestModel1` [EditOnlyDtoConcrete](#)

The view model/dto to map to an entity

Returns

[EditOnlyEntityConcrete](#)

Entity.

Class ReadOnlyCollectionRequestHandlerConcrete

Namespace: [specification.Helpers.RequestHandlers](#)

Assembly: specification.dll

```
public class ReadOnlyCollectionRequestHandlerConcrete :  
    ReadOnlyCollectionRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete,  
    IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>, int>,  
    IReadOnlyCollectionRequestHandler<ReadOnlyDtoConcrete, int>
```

Inheritance

```
object ←  
ReadOnlyCollectionRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete, IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>, int> <−  
ReadOnlyCollectionRequestHandlerConcrete
```

Implements

[IReadOnlyCollectionRequestHandler](#)<[ReadOnlyDtoConcrete](#), [int](#)>

Inherited Members

```
ReadOnlyCollectionRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete,  
IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>, int>.GetAsync<TRequestModel>  
(TRequestModel, CancellationToken?),  
ReadOnlyCollectionRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete,  
IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>,  
int>.MapToDto(ICollection<ReadOnlyEntityConcrete>),  
object.Equals(object), object.Equals(object, object), object.GetHashCode(), object.GetType(),  
object.MemberwiseClone(), object.ReferenceEquals(object, object), object.ToString(),
```

Constructors

[ReadOnlyCollectionRequestHandlerConcrete](#)([IReadOnlyCollectionDataHandler](#)<[ReadOnlyEntityConcrete](#), [int](#)>)

```
public  
    ReadOnlyCollectionRequestHandlerConcrete(IReadOnlyCollectionDataHandler<ReadOnlyEntityConcre
```

```
te, int> dataHandler)
```

Parameters

dataHandler [IReadOnlyCollectionDataHandler<ReadOnlyEntityConcrete, int>](#)

Methods

MapToDto(ICollection<ReadOnlyEntityConcrete>)

Mapping profile. Map from collection of Entity type to your collection of data transfer object.

```
protected override ICollection<ReadOnlyDtoConcrete>
MapToDto(ICollection<ReadOnlyEntityConcrete> entity)
```

Parameters

entity [ICollection<ReadOnlyEntityConcrete>](#)

Collection of entity object.

Returns

[ICollection<ReadOnlyDtoConcrete>](#)

Mapped from collection of Entity, a collection data transfer object.

Class ReadOnlyRequestHandlerConcrete

Namespace: [specification.Helpers.RequestHandlers](#)

Assembly: specification.dll

```
public class ReadOnlyRequestHandlerConcrete : ReadOnlyRequestHandler<ReadOnlyDtoConcrete,
ReadOnlyEntityConcrete, IReadOnlyDataHandler<ReadOnlyEntityConcrete, int>, int>,
IReadOnlyRequestHandler<ReadOnlyDtoConcrete, int>
```

Inheritance

```
object ↗ ←
ReadOnlyRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete, IReadOnlyData
Handler<ReadOnlyEntityConcrete, int ↗ >, int ↗ > ←
ReadOnlyRequestHandlerConcrete
```

Implements

[IReadOnlyRequestHandler<ReadOnlyDtoConcrete, int>](#)

Inherited Members

```
ReadOnlyRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete,
IReadOnlyDataHandler<ReadOnlyEntityConcrete, int>, int>.GetByIdAsync(int, CancellationToken?),
ReadOnlyRequestHandler<ReadOnlyDtoConcrete, ReadOnlyEntityConcrete,
IReadOnlyDataHandler<ReadOnlyEntityConcrete, int>, int>.MapToDto(ReadOnlyEntityConcrete),
object.Equals(object) ↗ , object.Equals(object, object) ↗ , object.GetHashCode() ↗ , object.GetType() ↗ ,
object.MemberwiseClone() ↗ , object.ReferenceEquals(object, object) ↗ , object.ToString() ↗
```

Constructors

ReadOnlyRequestHandlerConcrete(IReadOnlyDataHandler<ReadOnlyEntityConcrete, int>)

```
public ReadOnlyRequestHandlerConcrete(IReadOnlyDataHandler<ReadOnlyEntityConcrete,
int> dataHandler)
```

Parameters

dataHandler [IReadOnlyDataHandler<ReadOnlyEntityConcrete, int>](#)

Methods

MapToDto(ReadOnlyEntityConcrete)

Mapping profile. Map from Entity type to your data transfer object.

```
protected override ReadOnlyDtoConcrete MapToDto(ReadOnlyEntityConcrete entity)
```

Parameters

entity [ReadOnlyEntityConcrete](#)

Entity object.

Returns

[ReadOnlyDtoConcrete](#)

Mapped from Entity, a data transfer object.

Class WriteOnlyRequestHandlerConcrete

Namespace: [specification.Helpers.RequestHandlers](#)

Assembly: specification.dll

```
public class WriteOnlyRequestHandlerConcrete : WriteOnlyRequestHandler<WriteOnlyDtoConcrete,
WriteOnlyEntityConcrete, IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>,
IWriteOnlyRequestHandler<WriteOnlyDtoConcrete>
```

Inheritance

```
object ←
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete, IWriteOnlyDataHandler<WriteOnlyEntityConcrete>> ←
WriteOnlyRequestHandlerConcrete
```

Implements

[IWriteOnlyRequestHandler](#)<[WriteOnlyDtoConcrete](#)>

Inherited Members

```
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete,
IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>.CreateItemAsync(WriteOnlyDtoConcrete,
CancellationToken?),
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete,
IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>.CreateItemsAsync(ICollection<WriteOnlyDtoConcrete>, CancellationToken?),
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete,
IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>.MapToEntity(WriteOnlyDtoConcrete),
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete,
IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>.MapToDto(WriteOnlyEntityConcrete),
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete,
IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>.MapToCollectionOfEntity(ICollection<WriteOnlyDtoConcrete>),
WriteOnlyRequestHandler<WriteOnlyDtoConcrete, WriteOnlyEntityConcrete,
IWriteOnlyDataHandler<WriteOnlyEntityConcrete>>.MapToCollectionOfDto(ICollection<WriteOnlyEntityConcrete>),
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()
```

Constructors

WriteOnlyRequestHandlerConcrete(IWriteOnlyDataHandler<WriteOnlyEntityConcrete>)

```
public WriteOnlyRequestHandlerConcrete(IWriteOnlyDataHandler<WriteOnlyEntityConcrete>
dataHandler)
```

Parameters

dataHandler [IWriteOnlyDataHandler<WriteOnlyEntityConcrete>](#)

Methods

MapToCollectionOfDto(ICollection<WriteOnlyEntityConcrete>)

Maps a collection of [WriteOnlyEntityConcrete](#) entities to a collection of [WriteOnlyDtoConcrete](#) view models.

```
protected override ICollection<WriteOnlyDtoConcrete>
MapToCollectionOfDto(ICollection<WriteOnlyEntityConcrete> entities)
```

Parameters

entities [ICollection](#)<[WriteOnlyEntityConcrete](#)>

Collection of entity.

Returns

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

Collection of view model/dto.

MapToCollectionOfEntity(ICollection<WriteOnlyDtoConcrete>)

Maps a collection of [WriteOnlyDtoConcrete](#) to a collection of [WriteOnlyEntityConcrete](#) entities.

```
protected override ICollection<WriteOnlyEntityConcrete>
MapToCollectionOfEntity(ICollection<WriteOnlyDtoConcrete> requestModels)
```

Parameters

requestModels [ICollection](#)<[WriteOnlyDtoConcrete](#)>

Collection of view model/dto

Returns

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

Collection of entity.

MapToDto(WriteOnlyEntityConcrete)

Maps a [WriteOnlyEntityConcrete](#) entity to a [WriteOnlyDtoConcrete](#) view model/dto.

```
protected override WriteOnlyDtoConcrete MapToDto(WriteOnlyEntityConcrete entity)
```

Parameters

entity [WriteOnlyEntityConcrete](#)

Entity.

Returns

[WriteOnlyDtoConcrete](#)

View model/dto.

MapToEntity(WriteOnlyDtoConcrete)

Maps a [WriteOnlyDtoConcrete](#) to a [WriteOnlyEntityConcrete](#) entity.

```
protected override WriteOnlyEntityConcrete MapToEntity(WriteOnlyDtoConcrete requestModel)
```

Parameters

`requestModel1` [WriteOnlyDtoConcrete](#)

The view model/dto to map to an entity

Returns

[WriteOnlyEntityConcrete](#)

Entity.

Namespace specification.Helpers.Tests DbContext

Classes

[TestDbContext](#)

Class TestDbContext

Namespace: [specification.Helpers.TestsDbContext](#)

Assembly: specification.dll

```
public class TestDbContext : DbContext, IInfrastructure<IServiceProvider>,  
IDbContextDependencies, IDbSetCache, IDbContextPoolable, IResettableService,  
IDisposable, IAsyncDisposable
```

Inheritance

[object](#) ↗ ← [DbContext](#) ↗ ← TestDbContext

Implements

[IInfrastructure](#) ↗ <[IServiceProvider](#) ↗>, [IDbContextDependencies](#) ↗, [IDbSetCache](#) ↗, [IDbContextPoolable](#) ↗,
[IResettableService](#) ↗, [IDisposable](#) ↗, [IAsyncDisposable](#) ↗

Inherited Members

[DbContext.Set](#)< TEntity >() ↗ , [DbContext.Set](#)< TEntity >(string) ↗ ,
[DbContext.OnConfiguring](#)([DbContextOptionsBuilder](#)) ↗ ,
[DbContext.ConfigureConventions](#)([ModelConfigurationBuilder](#)) ↗ ,
[DbContext.OnModelCreating](#)([ModelBuilder](#)) ↗ , [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>\(Expression<Func<IQueryable<TResult>>\)](#) ,
[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

TestDbContext(DbContextOptions<TestDbContext>)

```
public TestDbContext(DbContextOptions<TestDbContext> options)
```

Parameters

options [DbContextOptions](#)<[TestDbContext](#)>

Properties

CrudEntityConcrete

```
public DbSet<CrudEntityConcrete> CrudEntityConcrete { get; set; }
```

Property Value

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

EditOnlyEntityConcrete

```
public DbSet<EditOnlyEntityConcrete> EditOnlyEntityConcrete { get; set; }
```

Property Value

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

ReadOnlyEntityConcrete

```
public DbSet<ReadOnlyEntityConcrete> ReadOnlyEntityConcrete { get; set; }
```

Property Value

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

Namespace specification.RequestHandlers

Classes

[CrudForCollectionRequestHandlerTests](#)

Tests for the CrudForCollectionRequestHandler.

[CrudRequestHandlerTests](#)

Tests for crud request handler.

[EditOnlyRequestHandlerTests](#)

Tests for EditOnlyRequestHandler.

[ReadOnlyCollectionRequestHandlerTests](#)

Tests for read only collection request handler

[ReadOnlyRequestHandlerTests](#)

Tests for read only request handler.

[WriteOnlyRequestHandlerTests](#)

Tests for write only request handler.

Class CrudForCollectionRequestHandlerTests

Namespace: [specification.RequestHandlers](#)

Assembly: specification.dll

Tests for the CrudForCollectionRequestHandler.

```
public class CrudForCollectionRequestHandlerTests
```

Inheritance

[object](#) ← CrudForCollectionRequestHandlerTests

Inherited Members

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

Constructors

CrudForCollectionRequestHandlerTests()

```
public CrudForCollectionRequestHandlerTests()
```

Methods

CountAsync_ReturnsCount()

CountAsync successful test.

```
[Fact]  
public Task CountAsync_ReturnsCount()
```

Returns

[Task](#)

CreateRangeAsync_NullRequest_ThrowsArgumentNullException() ()

CreateRangeAsync fails due to null input.

[Fact]

```
public Task CreateRangeAsync_NullRequest_ThrowsArgumentNullException()
```

Returns

[Task ↗](#)

CreateRangeAsync_SuccessfulCreation_ReturnsResponseWithData() ()

CreateRangeAsync successful test.

[Fact]

```
public Task CreateRangeAsync_SuccessfulCreation_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

CreateRangeAsync_UnsuccessfulCreation_ReturnsUnsuccessfulResponse() ()

CreateRangeAsync failed test.

[Fact]

```
public Task CreateRangeAsync_UnsuccessfulCreation_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

DeleteRangeAsync_NullIds_ThrowsArgumentNullException()

DeleteRangeAsync failed due to null ids.

[Fact]

```
public Task DeleteRangeAsync_NullIds_ThrowsArgumentNullException()
```

Returns

[Task ↗](#)

DeleteRangeAsync_SuccessfulDeletion_ReturnsSuccessfulResponse()

DeleteRangeAsync successful test.

[Fact]

```
public Task DeleteRangeAsync_SuccessfulDeletion_ReturnsSuccessfulResponse()
```

Returns

[Task ↗](#)

GetAllAsync_SuccessfulRetrieval_ReturnsPaginatedData()

GetAllAsync successful test.

[Fact]

```
public Task GetAllAsync_SuccessfulRetrieval_ReturnsPaginatedData()
```

Returns

[Task ↗](#)

UpdateRangeAsync_SuccessfulUpdate_ReturnsResponseWithData()

UpdateRangeAsync successful test.

```
[Fact]  
public Task UpdateRangeAsync_SuccessfulUpdate_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

UpdateRangeAsync_UnsuccessfulUpdate_ReturnsUnsuccessfulResponse()

UpdateRangeAsync failed test.

```
[Fact]  
public Task UpdateRangeAsync_UnsuccessfulUpdate_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

Class CrudRequestHandlerTests

Namespace: [specification.RequestHandlers](#)

Assembly: specification.dll

Tests for crud request handler.

```
public class CrudRequestHandlerTests
```

Inheritance

[object](#) ← CrudRequestHandlerTests

Inherited Members

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

Constructors

CrudRequestHandlerTests()

```
public CrudRequestHandlerTests()
```

Methods

CreateAsync_NullRequest_ThrowsArgumentNullException()

Create failed (throws exception) for null data.

[Fact]

```
public Task CreateAsync_NullRequest_ThrowsArgumentNullException()
```

Returns

[Task](#)

CreateAsync_SuccessfulCreation_ReturnsResponseWithData()

Create successful tests returning proper data.

[Fact]

```
public Task CreateAsync_SuccessfulCreation_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

CreateAsync_UnsuccessfulCreation_ReturnsUnsuccessfulResponse()

Create failed tests returning proper data.

[Fact]

```
public Task CreateAsync_UnsuccessfulCreation_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

DeleteAsync_DefaultId_ThrowsArgumentNullException()

Delete fails due to invalid (default) id is passed.

[Fact]

```
public Task DeleteAsync_DefaultId_ThrowsArgumentNullException()
```

Returns

[Task ↗](#)

DeleteAsync_SuccessfulDeletion_ReturnsSuccessfulResponse()

Delete is successful.

```
[Fact]  
public Task DeleteAsync_SuccessfulDeletion_ReturnsSuccessfulResponse()
```

Returns

[Task ↗](#)

DeleteAsync_UnsuccessfulDeletion_ReturnsUnsuccessfulResponse()

Delete fails.

```
[Fact]  
public Task DeleteAsync_UnsuccessfulDeletion_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

GetByIdAsync_DefaultId_ThrowsArgumentNullException()

Get data throw exception when invalid (default) id is passed.

```
[Fact]  
public Task GetByIdAsync_DefaultId_ThrowsArgumentNullException()
```

Returns

[Task ↗](#)

GetByIdAsync_NegativeId_ReturnsArgumentException()

Get data throws exception when invalid (-ve int) id is passed

```
[Fact]
```

```
public Task GetByIdAsync_NegativeId_ReturnsArgumentException()
```

Returns

[Task ↗](#)

GetByIdAsync_NotFoundEntity_ReturnsUnsuccessfulResponse()

Get data but data not found.

```
[Fact]
```

```
public Task GetByIdAsync_NotFoundEntity_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

GetByIdAsync_SuccessfulRetrieval_ReturnsResponseWithData()

Get data (success).

```
[Fact]
```

```
public Task GetByIdAsync_SuccessfulRetrieval_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

UpdateAsync_NullRequest_ThrowsArgumentNullException()

Update unsuccessful (throws exception) for null data.

```
[Fact]
```

```
public Task UpdateAsync_NullRequest_ThrowsArgumentNullException()
```

Returns

[Task ↗](#)

UpdateAsync_SuccessfulUpdate_ReturnsResponseWithData()

Update successful tests returning proper data.

[Fact]

```
public Task UpdateAsync_SuccessfulUpdate_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

UpdateAsync_UnsuccessfulUpdate_ReturnsUnsuccessfulResponse()

Update unsuccessful with proper data (message).

[Fact]

```
public Task UpdateAsync_UnsuccessfulUpdate_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

Class EditOnlyRequestHandlerTests

Namespace: [specification.RequestHandlers](#)

Assembly: specification.dll

Tests for EditOnlyRequestHandler.

```
public class EditOnlyRequestHandlerTests
```

Inheritance

[object](#) ← EditOnlyRequestHandlerTests

Inherited Members

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

Constructors

EditOnlyRequestHandlerTests()

```
public EditOnlyRequestHandlerTests()
```

Methods

EditAsync_NullRequest_ThrowsArgumentNullException()

EditAsync throws ArgumentNullException for null request.

```
[Fact]
```

```
public Task EditAsync_NullRequest_ThrowsArgumentNullException()
```

Returns

[Task](#)

EditAsync_SuccessfulEdit_ReturnsResponseWithData()

EditAsync successful test returning proper data.

[Fact]

```
public Task EditAsync_SuccessfulEdit_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

EditAsync_UnsuccessfulEdit_ReturnsUnsuccessfulResponse()

EditAsync unsuccessful test returning proper message.

[Fact]

```
public Task EditAsync_UnsuccessfulEdit_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

EditCollectionAsync_NullRequest_ThrowsArgumentNullException()

EditCollectionAsync throws ArgumentNullException for null request.

[Fact]

```
public Task EditCollectionAsync_NullRequest_ThrowsArgumentNullException()
```

Returns

[Task ↗](#)

EditCollectionAsync_SuccessfulEdit_ReturnsResponseWithData()

EditCollectionAsync successful test returning proper data.

```
[Fact]
public Task EditCollectionAsync_SuccessfulEdit_ReturnsResponseWithData()
```

Returns

[Task ↗](#)

EditCollectionAsync_UnsuccessfulEdit_ReturnsUnsuccessfulResponse()

EditCollectionAsync unsuccessful test returning proper message.

```
[Fact]
public Task EditCollectionAsync_UnsuccessfulEdit_ReturnsUnsuccessfulResponse()
```

Returns

[Task ↗](#)

Class ReadOnlyCollectionRequestHandlerTests

Namespace: [specification.RequestHandlers](#)

Assembly: specification.dll

Tests for read only collection request handler

```
public class ReadOnlyCollectionRequestHandlerTests
```

Inheritance

[object](#) ← ReadOnlyCollectionRequestHandlerTests

Inherited Members

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

Constructors

ReadOnlyCollectionRequestHandlerTests()

```
public ReadOnlyCollectionRequestHandlerTests()
```

Methods

GetAsync_ShouldReturnPaginatedData_WhenDataExists()

GetAsync returns proper paginated data when exists

```
[Fact]  
public Task GetAsync_ShouldReturnPaginatedData_WhenDataExists()
```

Returns

[Task](#)

GetAsync_ShouldThrowArgumentException_WhenRequestIsNull() ()

GetAsync throws exception when request is null

[Fact]

```
public Task GetAsync_ShouldThrowArgumentException_WhenRequestIsNull()
```

Returns

[Task](#)

Class ReadOnlyRequestHandlerTests

Namespace: [specification.RequestHandlers](#)

Assembly: specification.dll

Tests for read only request handler.

```
public class ReadOnlyRequestHandlerTests
```

Inheritance

[object](#) ← ReadOnlyRequestHandlerTests

Inherited Members

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

Constructors

ReadOnlyRequestHandlerTests()

```
public ReadOnlyRequestHandlerTests()
```

Methods

GetByIdAsync_ShouldReturnFailure_WhenEntityDoesNotExist()

.GetByIdAsync when data does not exist with proper message.

```
[Fact]
```

```
public Task GetByIdAsync_ShouldReturnFailure_WhenEntityDoesNotExist()
```

Returns

[Task](#)

GetByIdAsync_ShouldReturnSuccess_WhenEntityExists()

.GetByIdAsync returns data when exists.

[Fact]

```
public Task GetByIdAsync_ShouldReturnSuccess_WhenEntityExists()
```

Returns

[Task](#)

GetByIdAsync_ShouldThrowArgumentException_WhenIdIsNull()

.GetByIdAsync when id to search data is null with proper message.

[Fact]

```
public Task GetByIdAsync_ShouldThrowArgumentException_WhenIdIsNull()
```

Returns

[Task](#)

Class WriteOnlyRequestHandlerTests

Namespace: [specification.RequestHandlers](#)

Assembly: specification.dll

Tests for write only request handler.

```
public class WriteOnlyRequestHandlerTests
```

Inheritance

[object](#) ← WriteOnlyRequestHandlerTests

Inherited Members

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

Constructors

WriteOnlyRequestHandlerTests()

```
public WriteOnlyRequestHandlerTests()
```

Methods

CreateItemAsync_ShouldReturnFailureResponse_WhenCreationFails()

When data is not created, it returns failure with message.

```
[Fact]
```

```
public Task CreateItemAsync_ShouldReturnFailureResponse_WhenCreationFails()
```

Returns

[Task](#)

CreateItemAsync_ShouldReturnSuccessResponse_WhenItemIsCreatedSuccessfully()

When data is created, it returns success with newly created data.

[Fact]

```
public Task CreateItemAsync_ShouldReturnSuccessResponse_WhenItemIsCreatedSuccessfully()
```

Returns

[Task ↗](#)

CreateItemAsync_ShouldThrowArgumentException_WhenItemIsNull()

When creating data, if requested data is null, it throws exception.

[Fact]

```
public Task CreateItemAsync_ShouldThrowArgumentException_WhenItemIsNull()
```

Returns

[Task ↗](#)

CreateItemsAsync_ShouldReturnFailureResponse_WhenCreationFails()

When data (bulk) is not created, it returns failure with message.

[Fact]

```
public Task CreateItemsAsync_ShouldReturnFailureResponse_WhenCreationFails()
```

Returns

[Task ↗](#)

CreateItemsAsync_ShouldReturnSuccessResponse_WhenItemsAreCreatedSuccessfully()

When data is created in bulk, it returns success with newly created data.

[Fact]

```
public Task CreateItemsAsync_ShouldReturnSuccessResponse_WhenItemsAreCreatedSuccessfully()
```

Returns

[Task](#)

CreateItemsAsync_ShouldThrowArgumentException_WhenItemsAreNull()

When creating data (bulk), if requested data is null, it throws exception.

[Fact]

```
public Task CreateItemsAsync_ShouldThrowArgumentException_WhenItemsAreNull()
```

Returns

[Task](#)