

Namespace MyApi.Controllers

Classes

[ItemsController](#)

Class ItemsController

Namespace: [MyApi.Controllers](#)

Assembly: MyApi.dll

```
[ApiController]
[Route("[controller]")]
public class ItemsController : ControllerBase
```

Inheritance

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

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\(string, string, DateTimeOffset?, EntityTagHeaderValue\).☐](#) ,
[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.ValidationProblem\(ValidationProblemDetails\)](#),
[ControllerBase.ValidationProblem\(ModelStateDictionary\)](#), [ControllerBase.ValidationProblem\(\)](#),
[ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#),
[ControllerBase.Created\(\)](#), [ControllerBase.Created\(string, object\)](#),
[ControllerBase.Created\(Uri, object\)](#), [ControllerBase.CreatedAtAction\(string, object\)](#),
[ControllerBase.CreatedAtAction\(string, object, object\)](#),
[ControllerBase.CreatedAtAction\(string, string, object, object\)](#),
[ControllerBase.CreatedAtRoute\(string, object\)](#), [ControllerBase.CreatedAtRoute\(object, object\)](#),
[ControllerBase.CreatedAtRoute\(string, object, object\)](#), [ControllerBase.Accepted\(\)](#),
[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

ItemsController(MyDbContext)

```
public ItemsController(MyDbContext context)
```

Parameters

context [MyDbContext](#)

Methods

Delete(int)

Deletes an item by ID.

```
[HttpDelete("{id}")]  
public Task<IActionResult> Delete(int id)
```

Parameters

id [int](#)

The ID of the item to delete.

Returns

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

An IActionResult.

Get()

Gets all items.

```
[HttpGet]  
public Task<IEnumerable<Item>> Get()
```

Returns

[Task](#) <[IEnumerable](#) <[Item](#)>>

A list of items.

Get(int)

Gets an item by ID.

```
[HttpGet("{id}")]  
public Task<ActionResult<Item>> Get(int id)
```

Parameters

id [int](#)

The ID of the item.

Returns

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

The item with the specified ID.

Post(Item)

Creates a new item.

```
[HttpPost]  
public Task<ActionResult<Item>> Post(Item item)
```

Parameters

item [Item](#)

The item to create.

Returns

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

The created item.

Put(int, Item)

Updates an item.

```
[HttpPut("{id}")]  
public Task<IActionResult> Put(int id, Item item)
```

Parameters

id [int](#)

The ID of the item to update.

item [Item](#)

The updated item.

Returns

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

An IActionResult.

Namespace MyApi.Data

Classes

[MyDbContext](#)

Class MyDbContext

Namespace: [MyApi.Data](#)


Assembly: MyApi.dll

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

Inheritance

[object](#)  ← [DbContext](#)  ← MyDbContext

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

MyDbContext(DbContextOptions<MyDbContext>)

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

Parameters

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

Properties

Items

```
public DbSet<Item> Items { get; set; }
```

Property Value

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

Namespace MyApi.Models

Classes

[Item](#)

Class Item

Namespace: [MyApi.Models](#)







Assembly: MyApi.dll

```
public class Item
```

Inheritance

[object](#)  ← Item

Inherited Members

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

Properties

Id

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

Property Value

[int](#) 

Name

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

Property Value

[string](#) 

Methods

CreateSampleItems()

Creates a list of sample items.

```
public static List<Item> CreateSampleItems()
```

Returns

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

A list of sample items.

IsValid()

Checks if the item is valid based on certain criteria.

```
public bool IsValid()
```

Returns

[bool](#)

True if the item is valid; otherwise, false.

ToString()

Returns a formatted string representation of the item.

```
public override string ToString()
```

Returns

[string](#)

A string representing the item.

UpdateName(string)

Updates the name of the item.

```
public void UpdateName(string newName)
```

Parameters

`newName` [string](#) 

The new name for the item.