

# Namespace UrlShortener.App.Backend

## Classes

[AppDbContext](#)

[Program](#)

# Class AppDbContext

Namespace: [UrlShortener.App.Backend](#)

Assembly: UrlShortener.App.Backend.dll

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

## Inheritance

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

## 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.SaveChanges\(\)](#) , [DbContext.SaveChanges\(bool\)](#) ,  
[DbContext.SaveChangesAsync\(CancellationToken\)](#) ,  
[DbContext.SaveChangesAsync\(bool, CancellationToken\)](#) , [DbContext.Dispose\(\)](#) ,  
[DbContext.DisposeAsync\(\)](#) , [DbContext.Entry< TEntity >\(TEntity\)](#) ,  
[DbContext.Entry\(object\)](#) , [DbContext.Add< TEntity >\(TEntity\)](#) ,  
[DbContext.AddAsync< TEntity >\(TEntity, CancellationToken\)](#) ,  
[DbContext.Attach< TEntity >\(TEntity\)](#) , [DbContext.Update< TEntity >\(TEntity\)](#) ,  
[DbContext.Remove< TEntity >\(TEntity\)](#) , [DbContext.Add\(object\)](#) ,  
[DbContext.AddAsync\(object, CancellationToken\)](#) , [DbContext.Attach\(object\)](#) ,  
[DbContext.Update\(object\)](#) , [DbContext.Remove\(object\)](#) ,  
[DbContext.AddRange\(params object\[\]\)](#) , [DbContext.AddRangeAsync\(params object\[\]\)](#) ,  
[DbContext.AttachRange\(params object\[\]\)](#) , [DbContext.UpdateRange\(params object\[\]\)](#) ,  
[DbContext.RemoveRange\(params object\[\]\)](#) ,  
[DbContext.AddRange\(IEnumerable< object >\)](#) ,  
[DbContext.AddRangeAsync\(IEnumerable< object >, CancellationToken\)](#) ,  
[DbContext.AttachRange\(IEnumerable< object >\)](#) ,  
[DbContext.UpdateRange\(IEnumerable< object >\)](#) ,  
[DbContext.RemoveRange\(IEnumerable< object >\)](#) ,  
[DbContext.Find\(Type, params object\[\]\)](#) , [DbContext.FindAsync\(Type, params object\[\]\)](#) ,

[DbContext.FindAsync\(Type, object\[\], CancellationToken\)](#) ,  
[DbContext.Find< TEntity >\(params object\[\]\)](#) ,  
[DbContext.FindAsync< TEntity >\(params object\[\]\)](#) ,  
[DbContext.FindAsync< TEntity >\(object\[\], CancellationToken\)](#) ,  
[DbContext.FromExpression< TResult >\(Expression< Func< IQueryables< TResult >> \)](#) ,  
[DbContext.Database](#) , [DbContext.ChangeTracker](#) , [DbContext.Model](#) ,  
[DbContext.ContextId](#) , [DbContext.SavingChanges](#) , [DbContext.SavedChanges](#) ,  
[DbContext.SaveChangesFailed](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,  
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,  
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### AppDbContext(DbContextOptions<AppDbContext>)

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

## Parameters

options [DbContextOptions<AppDbContext>](#)

## Properties

### RedirectLogs

```
public virtual DbSet<RedirectLog> RedirectLogs { get; set; }
```

## Property Value

[DbSet<RedirectLog>](#)

## UrlMappings

```
public virtual DbSet<UrlMapping> UrlMappings { get; set; }
```

## Property Value

[DbSet](#) <UrlMapping>

## Users

```
public virtual DbSet<User> Users { get; set; }
```

## Property Value

[DbSet](#) <User>

## Methods

### OnModelCreating(ModelBuilder)

Override this method to further configure the model that was discovered by convention from the entity types exposed in [DbSet< TEntity >](#) properties on your derived context. The resulting model may be cached and re-used for subsequent instances of your derived context.

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

## Parameters

`modelBuilder` [ModelBuilder](#)

The builder being used to construct the model for this context. Databases (and other extensions) typically define extension methods on this object that allow you to configure aspects of the model that are specific to a given database.

## Remarks

If a model is explicitly set on the options for this context (via [UseModel\(IModel\)](#)) then this method will not be run. However, it will still run when creating a compiled model.

See [Modeling entity types and relationships](#) for more information and examples.

# Class Program

Namespace: [UrlShortener.App.Backend](#)

Assembly: UrlShortener.App.Backend.dll

```
public class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

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

## Constructors

### Program()

```
protected Program()
```

## Methods

### Main(string[])

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

## Parameters

args [string](#)[]

# Namespace UrlShortener.App.Backend. Business Interfaces

[IJwtTokenGenerator](#)

[IMappingsService](#)

[IRedirectLogService](#)

[IUserService](#)

# Interface IJwtTokenGenerator

Namespace: [UrlShortener.App.Backend.Business](#)

Assembly: UrlShortener.App.Backend.dll

```
public interface IJwtTokenGenerator
```

## Methods

### GenerateToken(string)

Generates a JWT token for the given email.

```
string GenerateToken(string email)
```

#### Parameters

`email` [string](#) ↗

Email

#### Returns

[string](#) ↗

JWT token

# Interface IMappingsService

Namespace: [UrlShortener.App.Backend.Business](#)

Assembly: UrlShortener.App.Backend.dll

```
public interface IMappingsService
```

## Methods

### CreateMapping(string, string, string)

Create a new mapping for a long URL

```
Task<UrlMapping?> CreateMapping(string longUrl, string name, string email)
```

#### Parameters

`longUrl` [string](#)

Long url

`name` [string](#)

Name of mapping

`email` [string](#)

Email of user

#### Returns

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

### DeleteMapping(string, int)

Delete a mapping of a user by its id

```
Task<bool> DeleteMapping(string email, int mappingId)
```

## Parameters

email [string](#)

Email of the user

mappingId [int](#)

Id of the mapping

## Returns

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

True, if it was successfully deleted

## GetMappingByPath(string)

Get a mapping by its short url path

```
Task<UrlMapping?> GetMappingByPath(string path)
```

## Parameters

path [string](#)

Path

## Returns

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

UrlMapping with matching path

## GetMappingsByUser(string)

Get all mappings of a user

```
Task<List<UrlMapping>?> GetMappingsByUser(string email)
```

## Parameters

**email** string

Email of the user

## Returns

Task<List<UrlMapping>>

All mappings found

# Interface IRedirectLogService

Namespace: [UrlShortener.App.Backend.Business](#)

Assembly: UrlShortener.App.Backend.dll

```
public interface IRedirectLogService
```

## Methods

`LogRedirectAsync(UrlMapping, UserAgentApiResponse?, string?, string?)`

Log a redirect

```
Task LogRedirectAsync(UrlMapping urlMapping, UserAgentApiResponse?  
userAgentApiResponse, string? ipAddress, string? userAgent)
```

### Parameters

`urlMapping` [UrlMapping](#).

UrlMapping to create log for

`userAgentApiResponse` [UserAgentApiResponse](#)

User agent data of the user

`ipAddress` [string](#)

Ip address of the user

`userAgent` [string](#)

UserAgent of the users browser

### Returns

[Task](#)

# Interface IUserAgentService

Namespace: [UrlShortener.App.Backend.Business](#)

Assembly: UrlShortener.App.Backend.dll

```
public interface IUserAgentService
```

## Methods

### GetUserAgentAsync(string)

Get user agent information

```
Task<UserAgentApiResponse?> GetUserAgentAsync(string userAgent)
```

#### Parameters

userAgent [string](#)

UserAgent string from the users browser

#### Returns

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

Parsed data

# Namespace UrlShortener.App.Backend.Controllers

## Classes

[AuthController](#)

[HealthCheckController](#)

[MappingsController](#)

[RedirectController](#)

# Class AuthController

Namespace: [UrlShortener.App.Backend.Controllers](#)

Assembly: UrlShortener.App.Backend.dll

```
[Route("api/auth")]
[ApiController]
public class AuthController : ControllerBase
```

## Inheritance

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

## Inherited Members

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

### AuthController(IJwtTokenGenerator, AppDbContext)

```
public AuthController(IJwtTokenGenerator JwtTokenGenerator, AppDbContext DbContext)
```

#### Parameters

JwtTokenGenerator [IJwtTokenGenerator](#)

DbContext [AppDbContext](#)

## Methods

### Login(LoginRequestDto)

Login endpoint to authenticate a user and return a JWT token.

```
[HttpPost("login")]
public IActionResult Login(LoginRequestDto request)
```

#### Parameters

request [LoginRequestDto](#)

The login request containing email and password.

#### Returns

[IActionResult](#)

A JWT token if authentication is successful, otherwise an Unauthorized error.

### Register(RegisterRequestDto)

Register a new user.

```
[HttpPost("register")]
public Task<IActionResult> Register(RegisterRequestDto request)
```

## Parameters

request [RegisterRequestDto](#)

The registration request containing email and password.

## Returns

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

Response indicating success or failure of registration.

# Class HealthCheckController

Namespace: [UrlShortener.App.Backend.Controllers](#)

Assembly: UrlShortener.App.Backend.dll

```
[ApiController]
[Route("api/health")]
public class HealthCheckController : ControllerBase
```

## Inheritance

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

## 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\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.ProblemDetailsFactory](#)  ,  [ControllerBase.User](#)  ,  [ControllerBase.Empty](#)  ,  
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[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Methods

### Get()

```
[HttpGet]  
public IActionResult Get()
```

### Returns

[IActionResult](#)

# Class MappingsController

Namespace: [UrlShortener.App.Backend.Controllers](#)

Assembly: UrlShortener.App.Backend.dll

```
[ApiController]
[Route("api/mappings")]
[Authorize]
public class MappingsController : ControllerBase
```

## Inheritance

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

## 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.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) ,  
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 [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

### MappingsController(IMappingsService)

```
public MappingsController(IMappingsService MappingsService)
```

#### Parameters

MappingsService [IMappingsService](#)

## Methods

### CreateMapping(CreateMappingRequestDto)

Creates a new URL mapping (shortens a URL).

```
[HttpPost("create")]
public Task<IActionResult> CreateMapping(CreateMappingRequestDto
createMappingRequest)
```

#### Parameters

createMappingRequest [CreateMappingRequestDto](#)

Request containing the long URL and a name for the mapping.

#### Returns

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

The shortened URL.

### DeleteMapping(int)

Deletes a specific URL mapping.

```
[HttpDelete("{mappingId}")]
public Task<IActionResult> DeleteMapping(int mappingId)
```

Parameters

**mappingId** [int](#)

The ID of the mapping to delete.

Returns

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

A success or failure message.

## GetMappings()

Retrieves all URL mappings for the authenticated user.

```
[HttpGet("all")]
public Task<IActionResult> GetMappings()
```

Returns

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

A list of the user's URL mappings.

## GetStats()

Retrieves user statistics, including total mappings and clicks.

```
[HttpGet("stats")]
public Task<IActionResult> GetStats()
```

Returns

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

User statistics.

# Class RedirectController

Namespace: [UrlShortener.App.Backend.Controllers](#)

Assembly: UrlShortener.App.Backend.dll

```
[ApiController]
[Route("")]
[AllowAnonymous]
public class RedirectController : ControllerBase
```

## Inheritance

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

## 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.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) ,  
[ControllerBase.LocalRedirect\(string\)](#) , [ControllerBase.LocalRedirectPermanent\(string\)](#) ,  
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[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) ,  
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[ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
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[ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
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 [ControllerBase.Unauthorized\(\)](#)  ,  [ControllerBase.Unauthorized\(object\)](#)  ,  
 [ControllerBase.NotFound\(\)](#)  ,  [ControllerBase.NotFound\(object\)](#)  ,  
 [ControllerBase.BadRequest\(\)](#)  ,  [ControllerBase.BadRequest\(object\)](#)  ,  
 [ControllerBase.BadRequest\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(\)](#)  ,  [ControllerBase.UnprocessableEntity\(object\)](#)  ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#)  ,  [ControllerBase.Conflict\(\)](#)  ,  
 [ControllerBase.Conflict\(object\)](#)  ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#)  ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#)  ,  
 [ControllerBase.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

### RedirectController(IMappingsService, IRedirectLogService, IUserAgentService)

```
public RedirectController(IMappingsService MappingsService, IRedirectLogService  
RedirectLogService, IUserAgentService UserAgentService)
```

## Parameters

MappingsService [IMappingsService](#)

RedirectLogService [IRedirectLogService](#)

UserAgentService [IUserAgentService](#)

## Methods

### RedirectToLongUrl(string)

Redirects a short URL to its original long URL.

```
[HttpGet("{path}")]  
public Task<IActionResult> RedirectToLongUrl(string path)
```

## Parameters

path [string](#)

The short URL path.

## Returns

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

A redirect response to the original long URL.

# Namespace UrlShortener.App.Backend. Middleware

## Classes

### [DelayMiddleware](#)

Middleware to introduce a delay for authentication requests.

# Class DelayMiddleware

Namespace: [UrlShortener.App.Backend.Middleware](#)

Assembly: UrlShortener.App.Backend.dll

Middleware to introduce a delay for authentication requests.

```
public class DelayMiddleware : IMiddleware
```

## Inheritance

[object](#) ← DelayMiddleware

## Implements

[IMiddleware](#)

## Inherited Members

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

## Constructors

### DelayMiddleware(ILogger<DelayMiddleware>)

Middleware to introduce a delay for authentication requests.

```
public DelayMiddleware(ILogger<DelayMiddleware> logger)
```

## Parameters

logger [ILogger](#)<[DelayMiddleware](#)>

Logger

## Methods

### InvokeAsync(HttpContext, RequestDelegate)

Request handling method.

```
public Task InvokeAsync(HttpContext context, RequestDelegate next)
```

## Parameters

**context** [HttpContext](#)

The [HttpContext](#) for the current request.

**next** [RequestDelegate](#)

The delegate representing the remaining middleware in the request pipeline.

## Returns

[Task](#)

A [Task](#) that represents the execution of this middleware.

# Namespace UrlShortener.App.Backend. Migrations

## Classes

### [InitialMigration](#)

A base class inherited by each EF Core migration.

# Class InitialMigration

Namespace: [UrlShortener.App.Backend.Migrations](#)

Assembly: UrlShortener.App.Backend.dll

A base class inherited by each EF Core migration.

```
[DbContext(typeof(AppDbContext))]
[Migration("20250409151853_InitialMigration")]
public class InitialMigration : Migration
```

## Inheritance

[object](#) ← [Migration](#) ← InitialMigration

## Inherited Members

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

## Remarks

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

## Methods

### BuildTargetModel(ModelBuilder)

Implemented to build the [TargetModel](#).

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

## Parameters

`modelBuilder` [ModelBuilder](#)

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

## Remarks

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

## Down(MigrationBuilder)

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

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

### Parameters

`migrationBuilder` [MigrationBuilder](#)

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

### Remarks

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

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

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

## Up(MigrationBuilder)

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

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

### Parameters

`migrationBuilder` [MigrationBuilder](#)

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

### Remarks

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

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

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

# Namespace UrlShortener.App.Backend.Models

## Classes

[UserAgentApiResponse](#)

[UserAgentClient](#)

[UserAgentDevice](#)

[UserAgentOs](#)

# Class UserAgentApiResponse

Namespace: [UrlShortener.App.Backend.Models](#)

Assembly: UrlShortener.App.Backend.dll

```
public class UserAgentApiResponse
```

## Inheritance

[object](#) ← UserAgentApiResponse

## Inherited Members

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

## Properties

### BrowserFamily

```
[JsonPropertyName("browser_family")]
public string BrowserFamily { get; set; }
```

### Property Value

[string](#)

### Client

```
[JsonPropertyName("client")]
public UserAgentClient? Client { get; set; }
```

### Property Value

[UserAgentClient](#)

## Device

```
[JsonPropertyName("device")]
public UserAgentDevice? Device { get; set; }
```

### Property Value

[UserAgentDevice](#)

## Os

```
[JsonPropertyName("os")]
public UserAgentOs? Os { get; set; }
```

### Property Value

[UserAgentOs](#)

## OsFamily

```
[JsonPropertyName("os_family")]
public string OsFamily { get; set; }
```

### Property Value

[string](#)

# Class UserAgentClient

Namespace: [UrlShortener.App.Backend.Models](#)

Assembly: UrlShortener.App.Backend.dll

```
public class UserAgentClient
```

## Inheritance

[object](#) ← UserAgentClient

## Inherited Members

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

## Properties

### Engine

```
[JsonPropertyName("engine")]
public string Engine { get; set; }
```

Property Value

[string](#)

### EngineVersion

```
[JsonPropertyName("engine_version")]
public string EngineVersion { get; set; }
```

Property Value

[string](#)

## Name

```
[JsonPropertyName("name")]
public string Name { get; set; }
```

### Property Value

[string ↗](#)

## Type

```
[JsonPropertyName("type")]
public string Type { get; set; }
```

### Property Value

[string ↗](#)

## Version

```
[JsonPropertyName("version")]
public string Version { get; set; }
```

### Property Value

[string ↗](#)

# Class UserAgentDevice

Namespace: [UrlShortener.App.Backend.Models](#)

Assembly: UrlShortener.App.Backend.dll

```
public class UserAgentDevice
```

## Inheritance

[object](#) ← UserAgentDevice

## Inherited Members

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

## Properties

### Brand

```
[JsonPropertyName("brand")]
public string Brand { get; set; }
```

### Property Value

[string](#)

### Model

```
[JsonPropertyName("model")]
public string Model { get; set; }
```

### Property Value

[string](#)

## Type

```
[JsonPropertyName("type")]
public string Type { get; set; }
```

Property Value

[string](#) ↗

# Class UserAgentOs

Namespace: [UrlShortener.App.Backend.Models](#)

Assembly: UrlShortener.App.Backend.dll

```
public class UserAgentOs
```

## Inheritance

[object](#) ← UserAgentOs

## Inherited Members

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

## Properties

### Name

```
[JsonPropertyName("name")]
public string Name { get; set; }
```

### Property Value

[string](#)

### Platform

```
[JsonPropertyName("platform")]
public string Platform { get; set; }
```

### Property Value

[string](#)

## Version

```
[JsonPropertyName("version")]
public string Version { get; set; }
```

Property Value

[string ↗](#)

# Namespace UrlShortener.App.Blazor

## Classes

[Program](#)

# Class Program

Namespace: [UrlShortener.App.Blazor](#)

Assembly: UrlShortener.App.Blazor.dll

```
public class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

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

## Constructors

### Program()

```
protected Program()
```

## Methods

### Main(string[])

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

## Parameters

args [string](#)[]

# Namespace UrlShortener.App.Blazor.Client

## Classes

[Program](#)

# Class Program

Namespace: [UrlShortener.App.Blazor.Client](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public static class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

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

# Namespace UrlShortener.App.Blazor.Client.Api

## Classes

[AuthApi](#)

## Interfaces

[IAuthApi](#)

# Class AuthApi

Namespace: [UrlShortener.App.Blazor.Client.Api](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public class AuthApi : IAuthApi
```

## Inheritance

[object](#) ← AuthApi

## Implements

[IAuthApi](#)

## Inherited Members

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

## Constructors

### AuthApi(HttpClient)

```
public AuthApi(HttpClient HttpClient)
```

## Parameters

HttpClient [HttpClient](#)

## Methods

### Login(string, string)

```
public Task<string?> Login(string email, string password)
```

## Parameters

email [string](#)

password [string](#)

Returns

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

## Register(string, string)

```
public Task<RegisterResponseDto?> Register(string email, string password)
```

Parameters

email [string](#)

password [string](#)

Returns

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

# Interface IAuthApi

Namespace: [UrlShortener.App.Blazor.Client.Api](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public interface IAuthApi
```

## Methods

### Login(string, string)

Task<[string](#)?> Login([string](#) email, [string](#) password)

#### Parameters

email [string](#)

password [string](#)

#### Returns

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

### Register(string, string)

Task<RegisterResponseDto?> Register([string](#) email, [string](#) password)

#### Parameters

email [string](#)

password [string](#)

#### Returns

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



# Namespace UrlShortener.App.Blazor.Client.Business

## Classes

[AppAuthenticationStateProvider](#)

[AuthService](#)

[BrowserTimeProvider](#)

[MappingsService](#)

## Interfaces

[IAuthService](#)

[IMappingsService](#)

# Class AppAuthenticationStateProvider

Namespace: [UrlShortener.App.Blazor.Client.Business](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public class AppAuthenticationStateProvider : AuthenticationStateProvider
```

## Inheritance

[object](#) ← [AuthenticationStateProvider](#) ← AppAuthenticationStateProvider

## Inherited Members

[AuthenticationStateProvider.NotifyAuthenticationStateChanged\(Task<AuthenticationState>\)](#)  
(),  
[AuthenticationStateProvider.AuthenticationStateChanged](#), [object.Equals\(object\)](#),  
[object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),  
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

### AppAuthenticationStateProvider(IJSRuntime)

```
public AppAuthenticationStateProvider(IJSRuntime JsRuntime)
```

## Parameters

[JsRuntime](#) [IJSRuntime](#)

## Methods

### GetAuthenticationStateAsync()

Asynchronously gets an [AuthenticationState](#) that describes the current user.

```
public override Task<AuthenticationState> GetAuthenticationStateAsync()
```

Returns

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

A task that, when resolved, gives an [AuthenticationState](#) instance that describes the current user.

## GetToken()

`public string? GetToken()`

Returns

[string](#)

## MarkUserAsLoggedOut()

`public Task MarkUserAsLoggedOut()`

Returns

[Task](#)

## TryMarkUserAsAuthenticated(string?)

`public Task TryMarkUserAsAuthenticated(string? token)`

Parameters

`token` [string](#)

Returns

[Task](#)

# Class AuthService

Namespace: [UrlShortener.App.Blazor.Client.Business](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public class AuthService : IAuthService
```

## Inheritance

[object](#) ← AuthService

## Implements

[IAuthService](#)

## Inherited Members

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

## Constructors

AuthService(IAuthApi, INotificationService,  
AuthenticationStateProvider, NavigationManager)

```
public AuthService(IAuthApi AuthApi, INotificationService  
NotificationService, AuthenticationStateProvider AuthenticationStateProvider,  
NavigationManager NavigationManager)
```

## Parameters

AuthApi [IAuthApi](#)

NotificationService [INotificationService](#)

AuthenticationStateProvider [AuthenticationStateProvider](#)

NavigationManager [NavigationManager](#)

# Methods

## LoginAsync(string, string)

```
public Task LoginAsync(string username, string password)
```

### Parameters

username [string](#)

password [string](#)

### Returns

[Task](#)

## RegisterAsync(string, string)

```
public Task RegisterAsync(string username, string password)
```

### Parameters

username [string](#)

password [string](#)

### Returns

[Task](#)

# Class BrowserTimeProvider

Namespace: [UrlShortener.App.Blazor.Client.Business](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public class BrowserTimeProvider : TimeProvider
```

## Inheritance

[object](#) ← [TimeProvider](#) ← BrowserTimeProvider

## Inherited Members

[TimeProvider.CreateTimer\(TimerCallback, object, TimeSpan, TimeSpan\)](#) ,  
[TimeProvider.GetElapsedTime\(long\)](#) , [TimeProvider.GetElapsedTime\(long, long\)](#) ,  
[TimeProvider.GetLocalNow\(\)](#) , [TimeProvider.GetTimestamp\(\)](#) ,  
[TimeProvider.GetUtcNow\(\)](#) , [TimeProvider.System](#) ,  
[TimeProvider.TimestampFrequency](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### LocalTimeZone

Gets a [TimeZoneInfo](#) object that represents the local time zone according to this [TimeProvider](#)'s notion of time.

```
public override TimeZoneInfo LocalTimeZone { get; }
```

## Property Value

[TimeZoneInfo](#)

## Methods

### SetBrowserTimeZone(string)

```
public virtual void SetBrowserTimeZone(string timeZone)
```

## Parameters

**timeZone** [string](#)

## Events

### LocalTimeZoneChanged

```
public event EventHandler? LocalTimeZoneChanged
```

## Event Type

[EventHandler](#)

# Interface IAuthService

Namespace: [UrlShortener.App.Blazor.Client.Business](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public interface IAuthService
```

## Methods

### LoginAsync(string, string)

Task `LoginAsync(string username, string password)`

#### Parameters

`username` [string](#)

`password` [string](#)

#### Returns

[Task](#)

### RegisterAsync(string, string)

Task `RegisterAsync(string username, string password)`

#### Parameters

`username` [string](#)

`password` [string](#)

#### Returns

[Task](#)



# Interface IMappingsService

Namespace: [UrlShortener.App.Blazor.Client.Business](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public interface IMappingsService
```

## Methods

### CreateMapping(string, string?)

```
Task<CreateMappingResponseDto?> CreateMapping(string longUrl, string? name = null)
```

#### Parameters

longUrl [string](#)

name [string](#)

#### Returns

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

### DeleteMapping(UrlMappingDto)

```
Task<bool> DeleteMapping(UrlMappingDto mapping)
```

#### Parameters

mapping [UrlMappingDto](#)

#### Returns

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

## GetMappings()

Task<List<UrlMappingDto?>> GetMappings()

Returns

[Task](#) <[List](#) <[UrlMappingDto](#)>>

## GetStats()

Task<UserStatsDto?> GetStats()

Returns

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

# Class MappingsService

Namespace: [UrlShortener.App.Blazor.Client.Business](#)

Assembly: UrlShortener.App.Blazor.Client.dll

```
public class MappingsService : IMappingsService
```

## Inheritance

[object](#) ← MappingsService

## Implements

[IMappingsService](#)

## Inherited Members

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

## Constructors

MappingsService(HttpClient,  
AuthenticationStateProvider, NavigationManager)

```
public MappingsService(HttpClient HttpClient, AuthenticationStateProvider  
AuthenticationStateProvider, NavigationManager NavigationManager)
```

## Parameters

HttpClient [HttpClient](#)

AuthenticationStateProvider [AuthenticationStateProvider](#)

NavigationManager [NavigationManager](#)

## Methods

## CreateMapping(string, string?)

```
public Task<CreateMappingResponseDto?> CreateMapping(string longUrl, string? name  
= null)
```

### Parameters

longUrl [string](#)

name [string](#)

### Returns

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

## DeleteMapping(UrlMappingDto)

```
public Task<bool> DeleteMapping(UrlMappingDto mapping)
```

### Parameters

mapping [UrlMappingDto](#)

### Returns

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

## GetMappings()

```
public Task<List<UrlMappingDto?>> GetMappings()
```

### Returns

[Task](#)<[List](#)<[UrlMappingDto](#)>>

## GetStats()

```
public Task<UserStatsDto?> GetStats()
```

Returns

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

# Namespace UrlShortener.App.Shared.Dto

## Classes

[CreateMappingRequestDto](#)

[CreateMappingResponseDto](#)

[LoginRequestDto](#)

[LoginResponseDto](#)

[RedirectLogDto](#)

[RegisterRequestDto](#)

[RegisterResponseDto](#)

[UrlMappingDto](#)

[UserAgentClientDto](#)

[UserAgentDeviceDto](#)

[UserAgentInfoDto](#)

[UserAgentOsDto](#)

[UserStatsDto](#)

## Enums

[RegisterErrorType](#)

# Class CreateMappingRequestDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class CreateMappingRequestDto
```

## Inheritance

[object](#) ← CreateMappingRequestDto

## Inherited Members

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

## Properties

### LongUrl

```
[JsonPropertyName("long_url")]
public string LongUrl { get; set; }
```

### Property Value

[string](#)

### Name

```
[JsonPropertyName("name")]
public string? Name { get; set; }
```

### Property Value

[string](#)

# Class CreateMappingResponseDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class CreateMappingResponseDto
```

## Inheritance

[object](#) ← CreateMappingResponseDto

## Inherited Members

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

## Properties

### ShortUrl

```
[JsonPropertyName("short_url")]
public string ShortUrl { get; set; }
```

#### Property Value

[string](#)

# Class LoginRequestDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class LoginRequestDto
```

## Inheritance

[object](#) ← LoginRequestDto

## Inherited Members

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

## Properties

### Email

```
[JsonPropertyName("email")]
public string Email { get; init; }
```

#### Property Value

[string](#)

### Password

```
[JsonPropertyName("password")]
public string Password { get; init; }
```

#### Property Value

[string](#)

# Class LoginResponseDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class LoginResponseDto
```

## Inheritance

[object](#) ← LoginResponseDto

## Inherited Members

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

## Properties

### Token

```
[JsonPropertyName("token")]
public string Token { get; set; }
```

### Property Value

[string](#)

# Class RedirectLogDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class RedirectLogDto
```

## Inheritance

[object](#) ← RedirectLogDto

## Inherited Members

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

## Properties

### AccessedAt

```
[JsonPropertyName("accessed_at")]
public DateTime AccessedAt { get; set; }
```

### Property Value

[DateTime](#)

### BrowserFamily

```
[JsonPropertyName("browser_family")]
public string? BrowserFamily { get; set; }
```

### Property Value

[string](#)

## ClientEngine

```
[JsonPropertyName("client_engine")]
public string? ClientEngine { get; set; }
```

Property Value

[string](#)

## ClientName

```
[JsonPropertyName("client_name")]
public string? ClientName { get; set; }
```

Property Value

[string](#)

## ClientType

```
[JsonPropertyName("client_type")]
public string? ClientType { get; set; }
```

Property Value

[string](#)

## DeviceBrand

```
[JsonPropertyName("device_brand")]
public string? DeviceBrand { get; set; }
```

Property Value

[string](#)

## DeviceModel

```
[JsonPropertyName("device_model")]
public string? DeviceModel { get; set; }
```

Property Value

[string](#) ↗

## DeviceType

```
[JsonPropertyName("device_type")]
public string? DeviceType { get; set; }
```

Property Value

[string](#) ↗

## Id

```
[JsonPropertyName("id")]
public int Id { get; set; }
```

Property Value

[int](#) ↗

## IpAddress

```
[JsonPropertyName("ip_address")]
public string? IpAddress { get; set; }
```

Property Value

[string](#) ↗

## OsFamily

```
[JsonPropertyName("os_family")]
public string? OsFamily { get; set; }
```

Property Value

[string](#) ↗

## OsName

```
[JsonPropertyName("os_name")]
public string? OsName { get; set; }
```

Property Value

[string](#) ↗

## OsVersion

```
[JsonPropertyName("os_version")]
public string? OsVersion { get; set; }
```

Property Value

[string](#) ↗

## UserAgent

```
[JsonPropertyName("user_agent")]
public string? UserAgent { get; set; }
```

## Property Value

[string](#) ↗

# Enum RegisterErrorType

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public enum RegisterErrorType
```

## Fields

EmailAlreadyExists = 2

MissingEmailOrPassword = 1

None = 0

# Class RegisterRequestDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class RegisterRequestDto
```

## Inheritance

[object](#) ← RegisterRequestDto

## Inherited Members

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

## Properties

### Email

```
[JsonPropertyName("email")]
public string Email { get; init; }
```

#### Property Value

[string](#)

### Password

```
[JsonPropertyName("password")]
public string Password { get; init; }
```

#### Property Value

[string](#)

# Class RegisterResponseDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class RegisterResponseDto
```

## Inheritance

[object](#) ← RegisterResponseDto

## Inherited Members

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

## Properties

### ErrorType

```
[JsonPropertyName("error_type")]
public RegisterErrorType ErrorType { get; set; }
```

### Property Value

[RegisterErrorType](#)

### Success

```
[JsonPropertyName("success")]
public bool Success { get; set; }
```

### Property Value

[bool](#)

# Class UrlMappingDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UrlMappingDto
```

## Inheritance

[object](#) ← UrlMappingDto

## Inherited Members

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

## Properties

### CreatedAt

```
[JsonPropertyName("created_at")]
public DateTime CreatedAt { get; set; }
```

### Property Value

[DateTime](#)

### Id

```
[JsonPropertyName("id")]
public int Id { get; set; }
```

### Property Value

[int](#)

## LongUrl

```
[JsonPropertyName("long_url")]
public string LongUrl { get; set; }
```

Property Value

[string](#)

## Name

```
[JsonPropertyName("name")]
public string? Name { get; set; }
```

Property Value

[string](#)

## RedirectLogs

```
[JsonPropertyName("redirect_logs")]
public List<RedirectLogDto> RedirectLogs { get; set; }
```

Property Value

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

## ShortUrl

```
[JsonPropertyName("short_url")]
public string ShortUrl { get; set; }
```

Property Value

[string](#)

# User

```
[JsonPropertyName("user")]
public string? User { get; set; }
```

Property Value

[string](#) ↗

# Class UserAgentClientDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UserAgentClientDto
```

## Inheritance

[object](#) ← UserAgentClientDto

## Inherited Members

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

## Properties

### Engine

```
[JsonPropertyName("engine")]
public string Engine { get; set; }
```

Property Value

[string](#)

### EngineVersion

```
[JsonPropertyName("engine_version")]
public string EngineVersion { get; set; }
```

Property Value

[string](#)

## Name

```
[JsonPropertyName("name")]
public string Name { get; set; }
```

### Property Value

[string ↗](#)

## Type

```
[JsonPropertyName("type")]
public string Type { get; set; }
```

### Property Value

[string ↗](#)

## Version

```
[JsonPropertyName("version")]
public string Version { get; set; }
```

### Property Value

[string ↗](#)

# Class UserAgentDeviceDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UserAgentDeviceDto
```

## Inheritance

[object](#) ← UserAgentDeviceDto

## Inherited Members

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

## Properties

### Brand

```
[JsonPropertyName("brand")]
public string Brand { get; set; }
```

### Property Value

[string](#)

### Model

```
[JsonPropertyName("model")]
public string Model { get; set; }
```

### Property Value

[string](#)

## Type

```
[JsonPropertyName("type")]
public string Type { get; set; }
```

Property Value

[string](#) ↗

# Class UserAgentInfoDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UserAgentInfoDto
```

## Inheritance

[object](#) ← UserAgentInfoDto

## Inherited Members

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

## Properties

### BrowserFamily

```
[JsonPropertyName("browser_family")]
public string BrowserFamily { get; set; }
```

Property Value

[string](#)

### Client

```
[JsonPropertyName("client")]
public UserAgentClientDto? Client { get; set; }
```

Property Value

[UserAgentClientDto](#)

## Device

```
[JsonPropertyName("device")]
public UserAgentDeviceDto? Device { get; set; }
```

Property Value

[UserAgentDeviceDto](#)

## Os

```
[JsonPropertyName("os")]
public UserAgentOsDto? Os { get; set; }
```

Property Value

[UserAgentOsDto](#)

## OsFamily

```
[JsonPropertyName("os_family")]
public string OsFamily { get; set; }
```

Property Value

[string](#) ↗

# Class UserAgentOsDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UserAgentOsDto
```

## Inheritance

[object](#) ← UserAgentOsDto

## Inherited Members

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

## Properties

### Name

```
[JsonPropertyName("name")]
public string Name { get; set; }
```

### Property Value

[string](#)

### Platform

```
[JsonPropertyName("platform")]
public string Platform { get; set; }
```

### Property Value

[string](#)

## Version

```
[JsonPropertyName("version")]
public string Version { get; set; }
```

Property Value

[string](#) ↗

# Class UserStatsDto

Namespace: [UrlShortener.App.Shared.Dto](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UserStatsDto
```

## Inheritance

[object](#) ← UserStatsDto

## Inherited Members

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

# Properties

## Clicks

```
[JsonPropertyName("clicks")]
public int Clicks { get; set; }
```

Property Value

[int](#)

## Mappings

```
[JsonPropertyName("mappings")]
public int Mappings { get; set; }
```

Property Value

[int](#)

# Namespace UrlShortener.App.Shared.Extensions

## Classes

[DtoExtensions](#)

# Class DtoExtensions

Namespace: [UrlShortener.App.Shared.Extensions](#)

Assembly: UrlShortener.App.Shared.dll

```
public static class DtoExtensions
```

## Inheritance

[object](#) ← DtoExtensions

## Inherited Members

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

## Methods

### ToDto(RedirectLog)

```
public static RedirectLogDto ToDto(this RedirectLog redirectLog)
```

#### Parameters

redirectLog [RedirectLog](#)

#### Returns

[RedirectLogDto](#)

### ToDto(UrlMapping, HttpRequest)

```
public static UrlMappingDto ToDto(this UrlMapping urlMapping,  
HttpRequest httpRequest)
```

#### Parameters

`urlMapping` [UrlMapping](#)

`httpRequest` [HttpRequest](#) ↗

Returns

[UrlMappingDto](#)

# Namespace UrlShortener.App.Shared. Models

## Classes

[RedirectLog](#)

[UrlMapping](#)

[User](#)

# Class RedirectLog

Namespace: [UrlShortener.App.Shared.Models](#)

Assembly: UrlShortener.App.Shared.dll

```
public class RedirectLog
```

## Inheritance

[object](#) ← RedirectLog

## Inherited Members

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

## Extension Methods

[DtoExtensions.Dto\(RedirectLog\)](#)

# Properties

## AccessedAt

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

Property Value

[DateTime](#)

## BrowserFamily

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

Property Value

[string](#)

## ClientEngine

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

Property Value

[string](#) ↗

## ClientName

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

Property Value

[string](#) ↗

## ClientType

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

Property Value

[string](#) ↗

## DeviceBrand

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

Property Value

[string](#) ↗

## DeviceModel

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

Property Value

[string](#) ↗

## DeviceType

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

Property Value

[string](#) ↗

## Id

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

Property Value

[int](#) ↗

## IpAddress

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

Property Value

[string](#) ↗

## OsFamily

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

Property Value

[string](#)

## OsName

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

Property Value

[string](#)

## OsVersion

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

Property Value

[string](#)

## UrlMapping

```
public UrlMapping UrlMapping { get; set; }
```

Property Value

[UrlMapping](#)

## UrlMappingId

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

Property Value

[int](#)

## UserAgent

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

Property Value

[string](#)

# Class UrlMapping

Namespace: [UrlShortener.App.Shared.Models](#)

Assembly: UrlShortener.App.Shared.dll

```
public class UrlMapping
```

## Inheritance

[object](#) ← UrlMapping

## Inherited Members

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

## Extension Methods

[DtoExtensions.Dto\(UrlMapping, HttpRequest\)](#)

# Properties

## CreatedAt

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

Property Value

[DateTime](#)

## Id

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

Property Value

[int](#)

## LongUrl

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

Property Value

[string](#)

## Name

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

Property Value

[string](#)

## Path

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

Property Value

[string](#)

## RedirectLogs

```
public List<RedirectLog> RedirectLogs { get; set; }
```

Property Value

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

## User

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

Property Value

[string](#) ↗

# Class User

Namespace: [UrlShortener.App.Shared.Models](#)

Assembly: UrlShortener.App.Shared.dll

```
public class User
```

## Inheritance

[object](#) ← User

## Inherited Members

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

# Properties

## Email

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

### Property Value

[string](#)

## Id

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

### Property Value

[int](#)

## PasswordHash

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

Property Value

[string](#) ↗

**Salt**

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

Property Value

[string](#) ↗