

# URL Shortener sample ASP.NET Core MVC web application

This is a sample website written in ASP.NET Core 3.1 that allows any user to shorten a URL.

## Architecture

This sample web app is built with [ASP.NET Core MVC](#), a design pattern for achieving a clean separation of concerns.

The web app contains the following:

- Models: object entities
- Views: user interface using Razor view engine
- Controllers: route requests to controller actions, implemented as normal C# methods
- Services: service class to handle CRUD operations

For simplicity, the data isn't stored into a database but in the application memory using a singleton service.

## Application setup

Clone the following repository:

URLShortener: <https://github.com/StephaneChevassus/URLShortener>

## Running in an IDE

To run the sample from [Visual Studio 2019](#):

1. Open the solution in your IDE (using the *URLShortener.sln* file).
2. Run the app.

## Screenshots

### Landing Page & Sample URL Data Entry

🏠🔒localhost:44386🔍☆

URL ShortenerHomeShort URLs

Welcome to URL Shortener!

Enter your URL:

https://dotnet.microsoft.com/apps/aspnet

Enter a custom alias (Optional)

https://localhost:44386/

ASPNET

May only contain letters and numbers

Shorten URL

### Short URL Created

🏠🔒localhost:44386⏮🔍☆

URL ShortenerHomeShort URLs

Your shortened URL is ready!

Original URL:

https://dotnet.microsoft.com/apps/aspnet/

Copy

Short URL:

https://localhost:44386/ASPNET

Copy

## Mobile Support

The web app is developed using the responsive web design approach so it can adapt to different screen sizes.

### Landing Page & Sample URL Data Entry

URL Shortener

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URL Shortener

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