Build Script Exercise Example Projects – Index

(For R5T.E0073)

# Introduction

Visual Studio takes care of a lot of details when it comes to .NET projects. For example, Visual Studio offers a one-click build process for .NET projects, no matter what type of .NET project it is (Windows Form, ASP.NET, Blazor WebAssembly client).

It can be hard to write the dotnet build command that would be used by Visual Studio. For example:

* For Windows-specific executables (Windows Forms applications and libraries) you can’t use the dotnet executable, and instead have to use the MSBuild executable.
* For COM references (like anything depending on Excel)

Additionally, you might want to change some of the default behaviors of the dotnet build:

* Output a traditional assembly (non-WebAssembly assembly) for a Blazor WebAssembly project. (To allow programmatic analysis of the assembly.)

See the projects by:

* Go to the repository. (R5T.E0073)
* Select the template of interest.
* Double-click to open the solution file.

# Naming

The projects are numbered in the form P####, instead of descriptively named, since there are so many different options (implicit usings, .NET versions, etc.) that the resulting names would be gross, confusing, and difficult to find.

Instead, the simple project numbering allows looking up the projects by criteria in the lists below, and outright listed in the project list below.

# Wanted (TODO)

Here is a list of project types that are wanted:

* Windows Forms – Executable
* Windows Forms – Library
* Blazor – Client
* Blazor – Library
* ASP.NET Core
* Excel (COM) – Executable
* Excel (COM) - Library

# Lists

## PXXXX

Here are the projects listed in order:

* P0001 – Basic console application. (net8.0)
* P0002 – Basic class library. (net8.0)
* P0003 – Basic class library. (netstandard2.1)
* P0004 – Basic Windows Forms application. (net8.0-windows)
* P0005 – Windows Forms library. (With P0005.Construction construction project.) (net8.0-windows)
* P0005.Construction – Windows Forms application. (With P0005 library project.) (net8.0-windows)

## PXXXX – End

## .NET 8

* P0001 – Basic console application. (net8.0)
* P0002 – Basic class library. (net8.0)

## .NET 8 – End

## .NET 7

## .NET 7 – End

## .NET Standard 2.1

* P0003 – Basic class library. (netstandard2.1)

## .NET Standard 2.1 – End

## ASP.NET Core

## ASP.NET Core – End

## Blazor Web App

## Blazor Web App – End

## Console App

* P0001 – Basic console application. (net8.0)

## Console App – End

## Class Library

* P0002 – Basic class library. (net8.0)
* P0003 – Basic class library. (netstandard2.1)

## Class Library – End

## Razor Class Library

## Razor Class Library – End

## Test

## Test – End

## Web

## Web – End

## Windows Forms App

* P0004 – Basic Windows Forms application. (net8.0-windows)
* P0005.Construction – Windows Forms application. (With P0005 library project.) (net8.0-windows)

## Windows Forms App – End

## Windows Forms Class Library

* P0005 – Windows Forms library. (With P0005.Construction construction project.) (net8.0-windows)

## Windows Forms Class Library – End