.NET MAUI Project Templates, Item Templates and Code Snippets

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# Introduction

This VS extension is loaded with Project, Item Templates and Code Snippets for working with .NET MAUI in Visual Studio 2022.

# Project Templates

* .NET MAUI App – All All-in-One App Project Template. For more details check out this [blog post](https://egvijayanand.in/all-in-one-dotnet-maui-app-project-template/)
* .NET MAUI App (C#)
* .NET MAUI Class Library
* Shared Class Library (targeting both Xamarin.Forms and .NET MAUI)

# Item Templates

Made available in the section titled **MAUI** in the **Add New Item** dialog.

**ContentPage**, in both XAML and C#, and has been named as:

* Content Page (.NET MAUI)
* Content Page (C#) (.NET MAUI)

**ContentView**, in both XAML and C#, and has been named as:

* Content View (.NET MAUI)
* Content View (C#) (.NET MAUI)

**Shell**, a page for defining app visual hierarchy along with navigation.

**ResourceDictionary**, a page for managing resources, in both the formats of with code-behind file and XAML only (as its the C# code-behind is used rarely).

**New Item Templates for creating a Custom View definition**:

* .NET MAUI Custom View and Handler (Regular)
* .NET MAUI Custom View and Handler (Cond.)
* .NET MAUI Custom View and Renderer (Regular)
* Regular type template generates the Handler / Renderer source files in the Platforms folder whereas Cond. type template houses all of them in a single folder.
* *For conditional type format, ensure Conditional Compilation is configured in the project file for the build to succeed. An additional option is provided during project creation (in both VS IDE and CLI)(or manually thereafter). Check out this* [***readme***](https://github.com/egvijayanand/dotnet-maui-templates#conditional-compilation) *for further details.*

# Code Snippets

## For XAML

In the XAML page, type the short name and hit the Tab key twice to insert the snippet.

Snippets mentioned in bold-face also works as a **SurroundWith** snippet too (from **Xaml** section).

In the Output Format column, text highlighted in different colors infer the following:

* Yellow color are placeholders where user can modify the values
* Green color are derived values, can’t be modified. For example, containing class name
* Turquoise color are reflected values, where the placeholder value is filled-in

| **Snippet** | **Short Name** | **Output Format** |
| --- | --- | --- |
| **Grid** | **grid** | <Grid ColumnDefinitions="" RowDefinitions="">  </Grid> |
| **Flex Layout** | **flex** | <FlexLayout>  </FlexLayout> |
| **Stack Layout** | **stack** | <StackLayout>  </StackLayout> |
| **Horizontal Stack Layout** | **hstack** | <HorizontalStackLayout>  </HorizontalStackLayout> |
| **Vertical Stack Layout** | **vstack** | <VerticalStackLayout>  </VerticalStackLayout> |
| **Style** | **style** | <Style TargetType="Page">  <Style> |
| Color | color | <Color x:Key="Success">Green</Color> |
| Resources | res | <ContentPage.Resources>  <ResourceDictionary>  </ResourceDictionary>  </ContentPage.Resources> |
| Gestures | gesture | <Label.GestureRecognizers>  </Label.GestureRecognizers> |
| Tap Gesture Recognizer | tap | <TapGestureRecognizer /> |
| Drag Gesture Recognizer | drag | <DragGestureRecognizer /> |
| Drop Gesture Recognizer | drop | <DropGestureRecognizer /> |
| Pan Gesture Recognizer | pan | <PanGestureRecognizer /> |
| Pinch Gesture Recognizer | pinch | <PinchGestureRecognizer /> |
| Swipe Gesture Recognizer | swipe | <SwipeGestureRecognizer /> |
| Blazor Web View | bwv | <b:BlazorWebView HostPage="wwwroot/index.html">  <b:BlazorWebView.RootComponents>  <b:RootComponent ComponentType="{x:Type }" Selector="#app" />  </b:BlazorWebView.RootComponents>  </b:BlazorWebView> |
| .NET MAUI Blazor Namespace | mb | xmlns:b="clr-namespace:Microsoft.AspNetCore.Components.WebView.Maui  ;assembly=Microsoft.AspNetCore.Components.WebView.Maui" |
| WPF Blazor Namespace | wb | xmlns:b="clr-namespace:Microsoft.AspNetCore.Components.WebView.Wpf  ;assembly=Microsoft.AspNetCore.Components.WebView.Wpf" |

## For C#

In the C# code file, type the short name and hit the Tab key twice to insert the snippet.

Snippets mentioned in bold-face also works as a **SurroundWith** snippet too (from **CSharp** section).

In the Output Format column, text highlighted in different colors infer the following:

* Yellow color are placeholders where user can modify the values
* Green color are derived values, can’t be modified. For example, containing class name
* Turquoise color are reflected values, where the placeholder value is filled-in

| **Snippet** | **Short Name** | **Output Format** |
| --- | --- | --- |
| **Async Event Handler** | **aeh** | private async void MyMethod(object sender, EventArgs e)  {  } |
| Attached Property | propap | *Here assuming MyClass is the containing type.*  public static readonly BindableProperty NameProperty = BindableProperty.CreateAttached(nameof(NameProperty), typeof(string), typeof(MyClass), default(string));  public static string GetName(BindableObject bindable) => (string)bindable.GetValue(NameProperty);  public static void SetName(BindableObject bindable, string value) => bindable.SetValue(NameProperty, value); |
| Bindable Property | propbp | *Here assuming MyClass is the containing type.*  public static readonly BindableProperty NameProperty = BindableProperty.Create(nameof(Name), typeof(string), typeof(MyClass), default(string));  public string Name  {  get => (string)GetValue(NameProperty);  set => SetValue(NameProperty, value);  } |
| Comet Property (MVU) | propc  (This has been shortened to **propc** from **propcomet**) | public string Name  {  get => GetProperty<string>();  set => SetProperty(value);  } |
| Cross Platform | cp  (This has been updated to **cp** from **xplat**) | #if ANDROID  #elif IOS  #elif MACCATALYST  #elif TIZEN  #elif WINDOWS  #endif |
| **Event Handler** | **eh** | private void MyMethod(object sender, EventArgs e)  {  } |
| **Method** | **method** | private void MyMethod()  {  } |
| **Async Method** | **amethod** | private async Task MyMethod()  {  } |
| **Record**  **(C# 9.0 or higher)** | **record** | record MyRecord  {  } |
| **Record Struct**  **(C# 10.0 or higher)** | **rstruct**  (This has been updated to **rstruct** from **recstruct**) | record struct MyRecStruct  {  } |
| ViewModel Property | propvm | private string name;  public string Name  {  get => name;  set => SetProperty(ref name, value);  } |
| C# Markup Extension Method | cmem | public static TBindable MyMethod<TBindable>(this TBindable bindable) where TBindable : BindableObject  {  return bindable;  } |

# Support

Currently, this extension can be installed on top of VS2022 17.3 Preview 1.1 or higher with .NET MAUI workload as its prerequisite (covers GA and SR1 releases) and to support further changes in newer .NET MAUI releases, an update to this VS extension will be made available accordingly. If you come across any issues or have suggestions to improve these templates, kindly log them as issues [here](https://github.com/egvijayanand/dotnet-maui-templates/issues).