

Towards the .NET Junior Developer

The extremely solid course



Lesson 11

Application UI development

Towards the .NET Junior Developer

Agenda





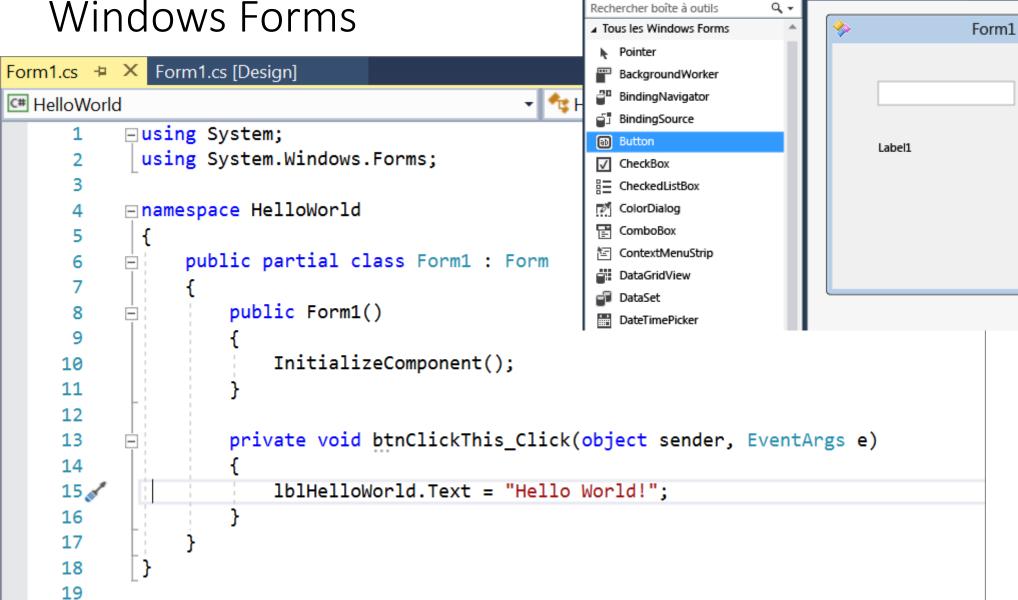
- Windows Forms
- WPF
- Xamarin.Forms
- MAUI
- Blazor development basics
 - MVC pattern
 - Blazor Server project structure
 - wwwroot
 - Data
 - Pages
 - Shared
 - Layouts
 - Interaction with the backend
- Books of the day
- Links of the day
- Hometask



Ul libraries and frameworks

Towards the .NET Junior Developer

Windows Forms



Boîte à outils

↓ ↓ ×

Form1.vb [Design]*

→ X Explorateur d'objets

Service...

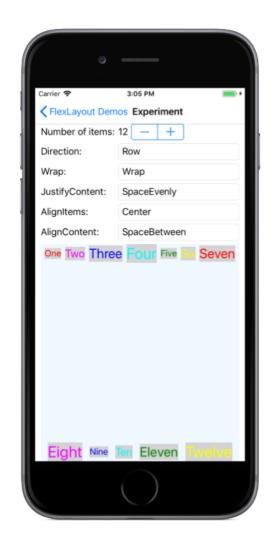
- - X

Button1

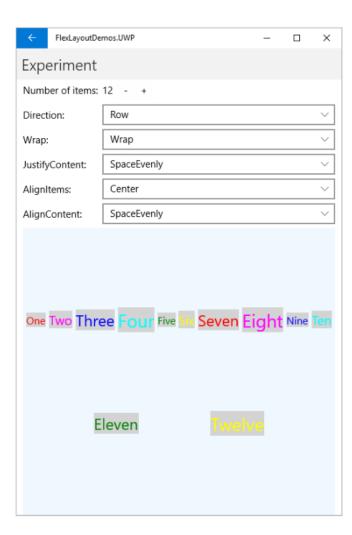
WPF – Windows Presentation Foundation

```
public class Data
<Ellipse Width="30" Height="30">
                                                                      49
  <Ellipse.Resources>
                                                                                  1 reference
    <Style TargetType="Ellipse">
                                                                                  public int ID { get; set; }
                                                                      50
      <Setter Property="Fill" Value="Transparent"/>
                                                                                  1 reference
      <Style.Triggers>
                                                                                  public ModeState State { get; set; }
                                                                      51
        <DataTrigger Binding="{Binding State}" Value="-1">
                                                                      52
          <Setter Property="Fill" Value="LightPink"/>
                                                                      53
        </DataTrigger>
                                                                                2 references
        <DataTrigger Binding="{Binding State}" Value="0">
                                                                                public enum ModeState
                                                                      54
          <Setter Property="Fill" Value="LightBlue"/>
                                                                      55
        </DataTrigger>
                                                                                  NotDefine = -1,
                                                                      56
        <DataTrigger Binding="{Binding State}" Value="1">
                                                                      57
                                                                                  Stop = 0,
                                                                                                  Window61
          <Setter Property="Fill" Value="Green"/>
                                                                      58
                                                                                  Automatic = 1.
        </DataTrigger>
                                                                      59
                                                                                  Wait = 2,
                                                                                                   Ellipse ID State
        <DataTrigger Binding="{Binding State}" Value="2">
                                                                      60
                                                                                  Error = 3,
                                                                                                            NotDefine
          <Setter Property="Fill" Value="Azure"/>
                                                                      61
                                                                                  Jam = 4,
        </DataTrigger>
                                                                                  Block = 5
                                                                      62
                                                                                                            Stop
        <DataTrigger Binding="{Binding State}" Value="3">
                                                                      63
          <Setter Property="Fill" Value="Red"/>
                                                                      64
                                                                                                            Automatic
        </DataTrigger>
        <DataTrigger Binding="{Binding State}" Value="4">
                                                                                                            Wait
          <Setter Property="Fill" Value="RosyBrown"/>
        </DataTrigger>
                                                                                                            Error
        <DataTrigger Binding="{Binding State}" Value="5">
          <Setter Property="Fill" Value="SaddleBrown"/>
                                                                                                            Jam
        </DataTrigger>
      </Style.Triggers>
                                                                                                            Block
   </Style>
  </Ellipse.Resources>
</Ellipse>
```

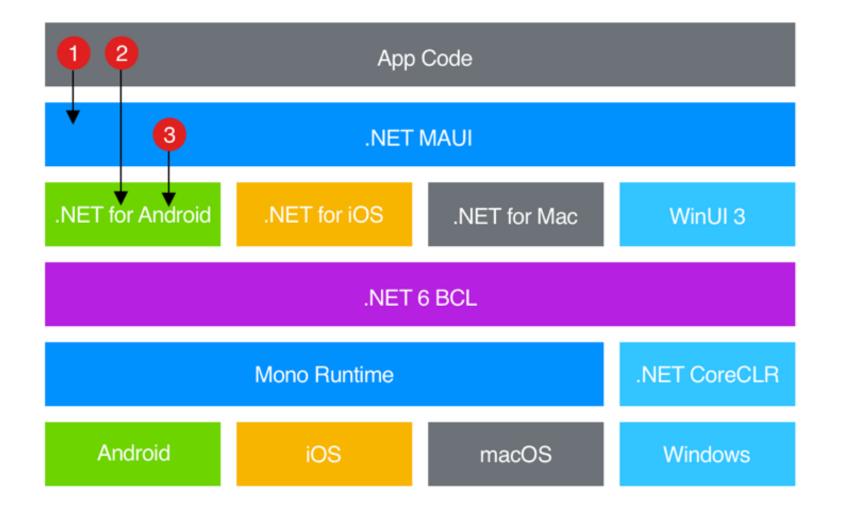
Xamarin.Forms

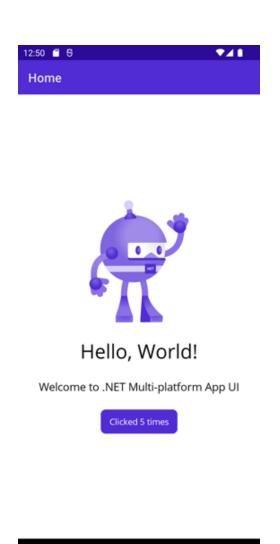






MAUI – Multi-platform Application UI





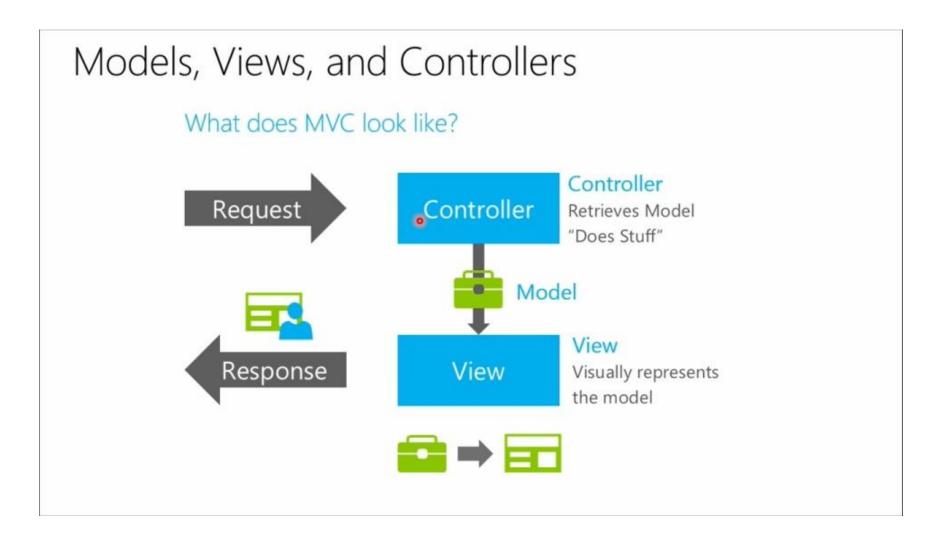
0



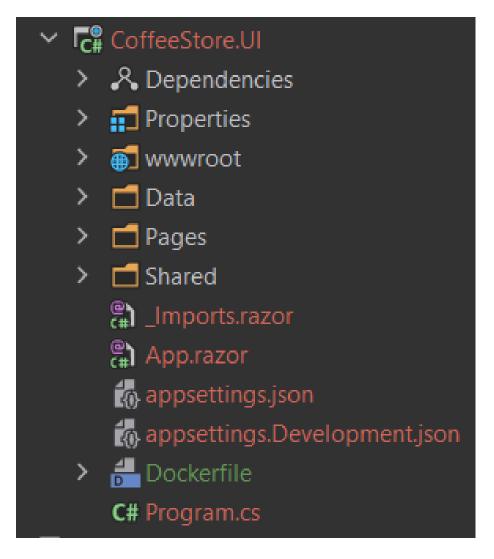
Blazor development basics

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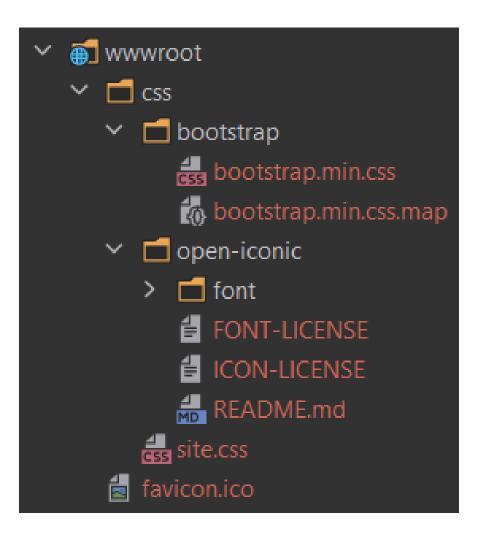
MVC pattern



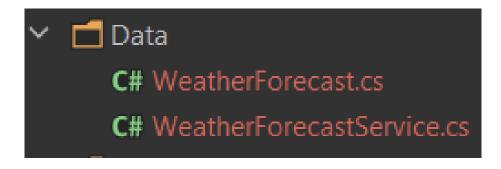
Blazor Server project structure



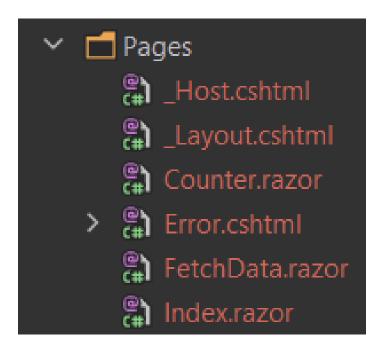
wwwroot



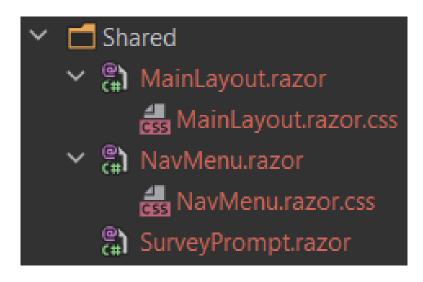
Data



Pages



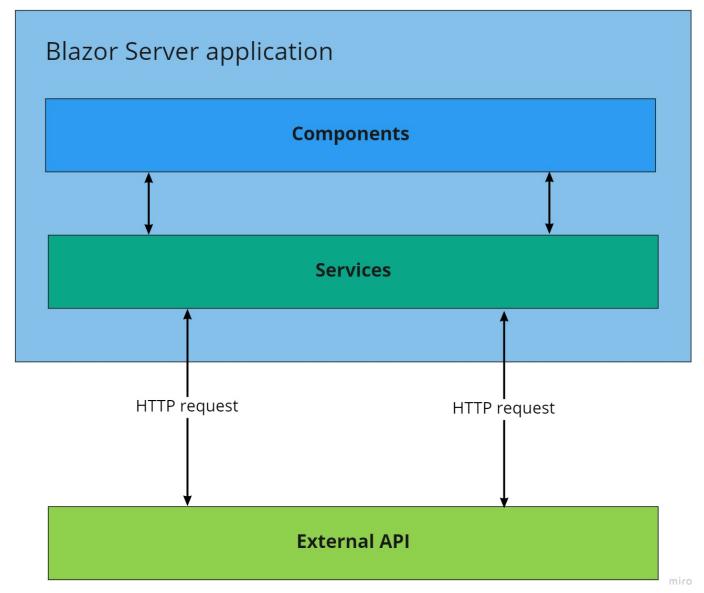
Shared



Layouts

```
@inherits LayoutComponentBase
<PageTitle>CoffeeStore.UI</PageTitle>
|<div class="page">
    <div class="sidebar">
        <NavMenu/>
    </div>
    <main>
        <div class="top-row px-4">
            <a href="https://docs.microsoft.com/aspnet/" target="_blank">About</a>
        </div>
        <article class="content px-4">
            @Body
        </article>
    </main>
</div>
```

Interaction with the backend



Books of the day



<u>Freeman A. – Pro ASP.NET MVC 5</u>

Banks A., Porcello E. – Learning React, 2e: Modern Patterns for Developing React Apps

<u>Litvinavicius T. - Exploring Blazor. Creating Hosted, Server-side, and Client-side Applications with C#</u>

Links of the day



MVC vs MVP vs MVVM (Habr)

Introducing Blazor (Habr)

Blazor docs (MSDN)

Blazorise Documentation

.NET MAUI (MSDN)

Hometask



Nothing today. Hooray!

That's all for this time!