

Blazor: Getting Started

BUILDING YOUR FIRST BLAZOR APPLICATION



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Overview



What will you learn from this course?

Hello Blazor

The different hosting models of Blazor

Understanding File → New Project

Creating a first Blazor app

Debugging a Blazor app



What Will You Learn from This Course?



This course will teach you how to
build your first Blazor application.



How We Will Approach This Course



File → New Project...



Write some code...



And then, a full Blazor application!



What I Assume You Know



HTML and CSS



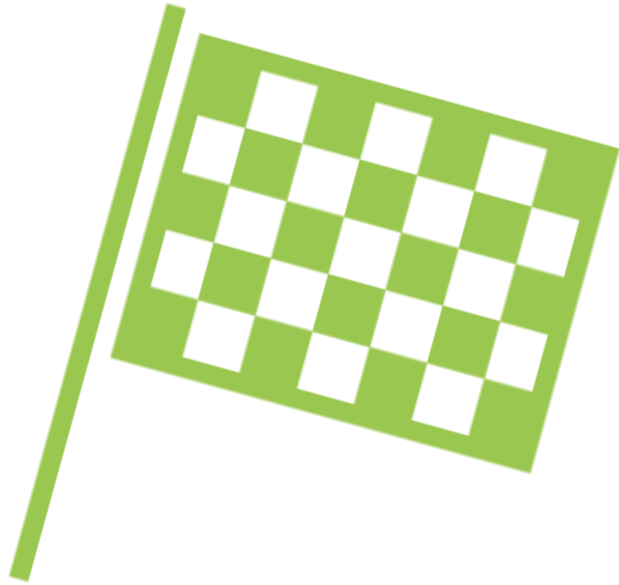
C#



Some Razor is recommended



What You Need to Have Installed



Visual Studio 2019

- <https://visualstudio.microsoft.com/vs/>

.NET Core 3.0 SDK

- <https://dotnet.microsoft.com/download/dotnet-core/3.0>

A browser





The Scenario: Bethany's Pie Shop HRM

- List of employees
- Detail page
- Add new employee
- Navigation



Demo



Taking a look at the finished application



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Advanced

Blazor WebAssembly App

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Hello Blazor



Blazor is a framework
to build interactive web UIs
using C# and HTML.



Hello Blazor



Based on WebAssembly or run on server



No plugin, based on web standards



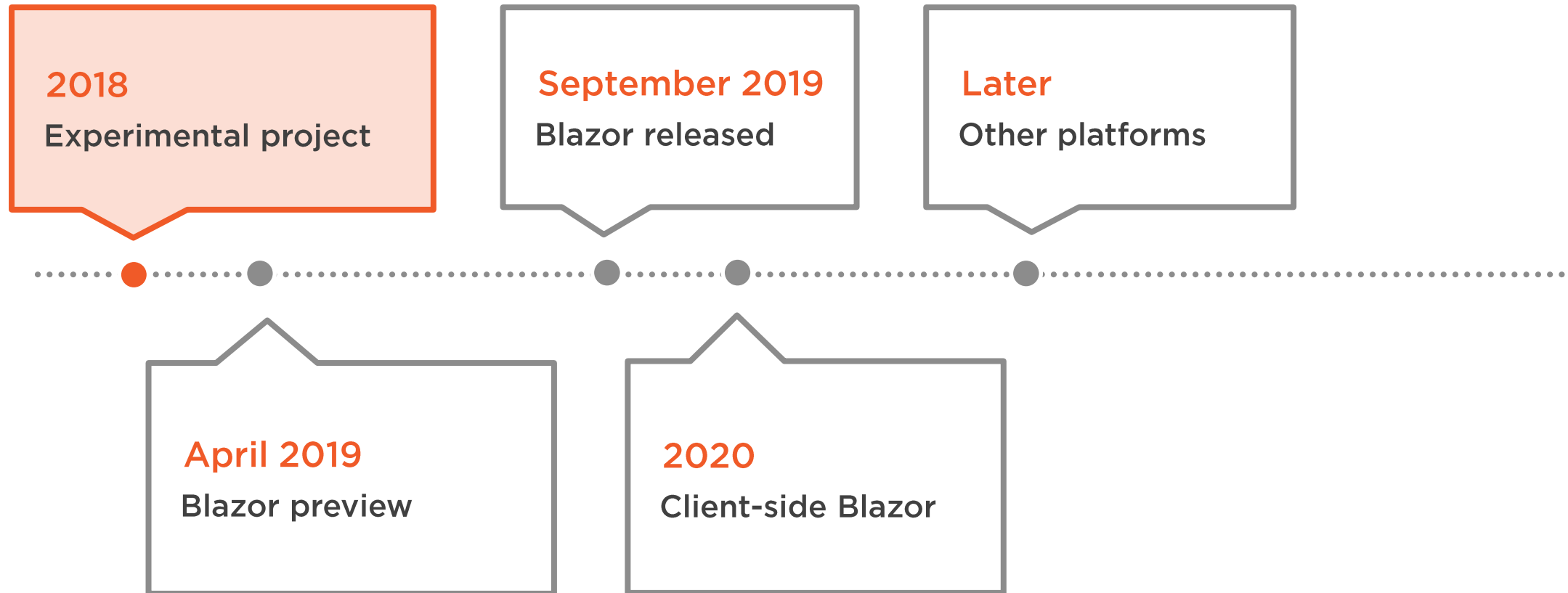
Integrate with JavaScript



Leverage your C# skills
to build interactive web applications.



Blazor Roadmap



Blazor: The Big Picture

by Barry Luijbregts

Blazor is an incredible framework that you can use to develop rich and interactive client-side web UIs with C# instead of JavaScript. In this course, you'll learn what Blazor is and why you should use it.

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<https://www.pluralsight.com/library/courses/blazor-big-picture>



The Different Hosting Models of Blazor



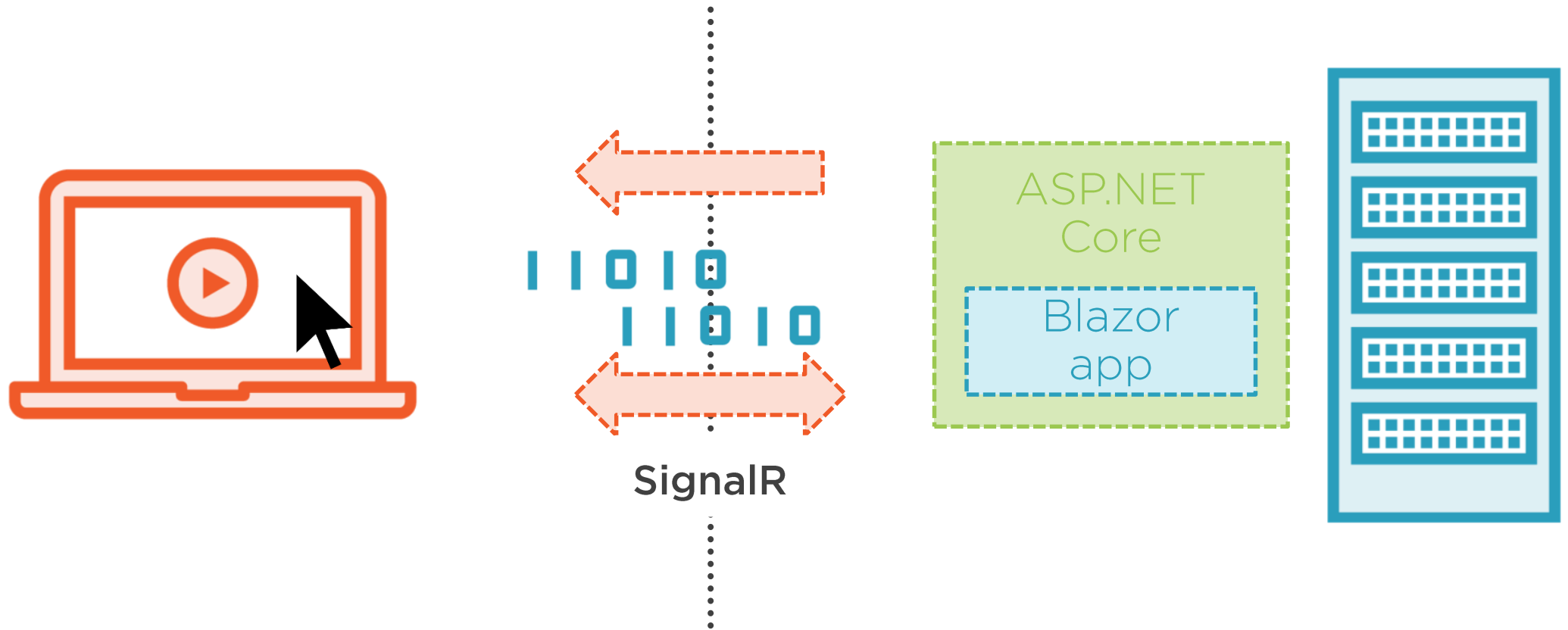
Different Flavors of Blazor

Server-side

Client-side



Server-side Blazor





Small download

Works with all server-side APIs

Full debugging support

Blazor apps in non-supported browsers

No offline support

Network delay

Scalability, although not a big problem

Current state: *released*



Client-side Blazor



Blazor app
WebAssembly





Runs on all modern browsers

No .NET required on server

SPA user experience

Older browsers might not be supported

Initial app download is larger

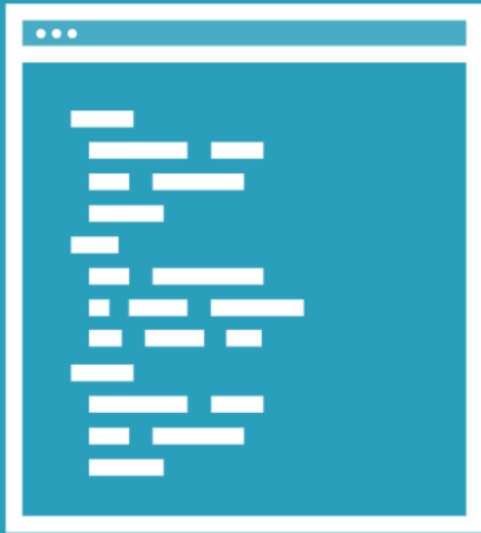
Debugging support

Current state: *preview*



We'll use server-side and
convert to client-side later.





Let's now dive into
Blazor code!



Understanding File → New Project

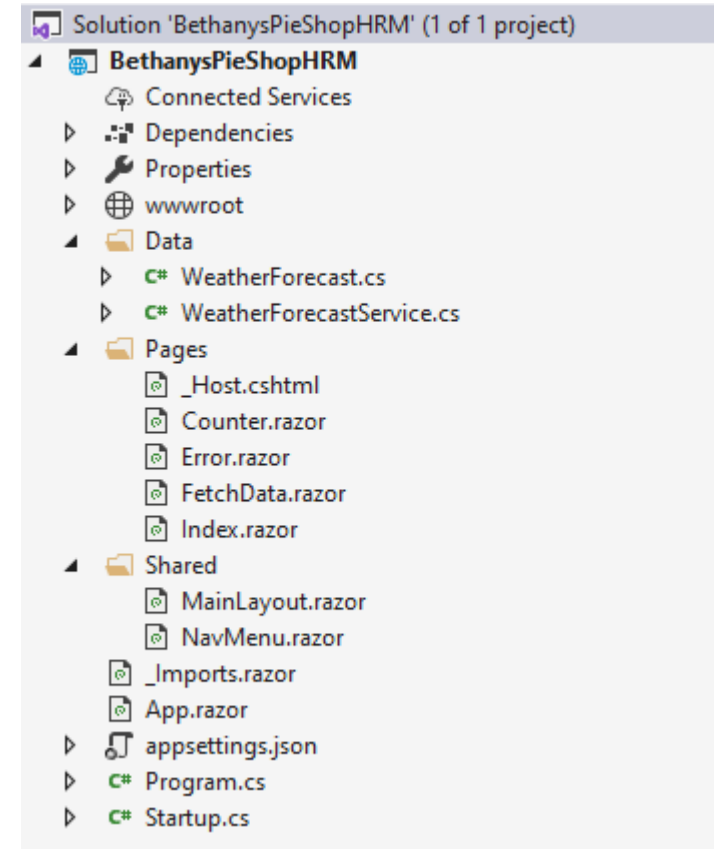


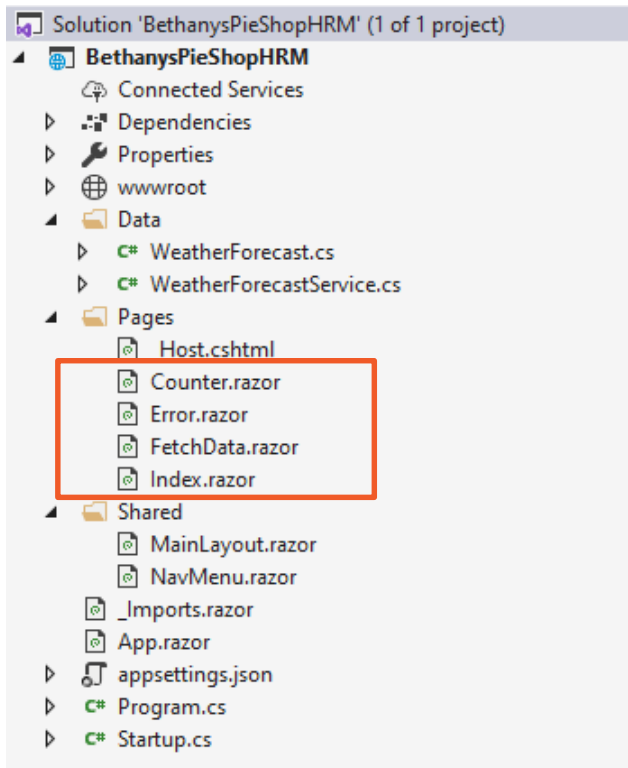
New Project

C# and .razor files

Structure similar to ASP.NET Core project

- Program
- Startup
- Similar methods





***.razor files**

Components are building blocks

Name must start with uppercase

Class generated upon compilation



Looking at a the First Component

```
@page "/counter"
<h1>Counter</h1>
<p>Current count: @currentCount</p>
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>

@code {
    int currentCount = 0;

    void IncrementCount()
    {
        currentCount++;
    }
}
```



```
@page "/"
```

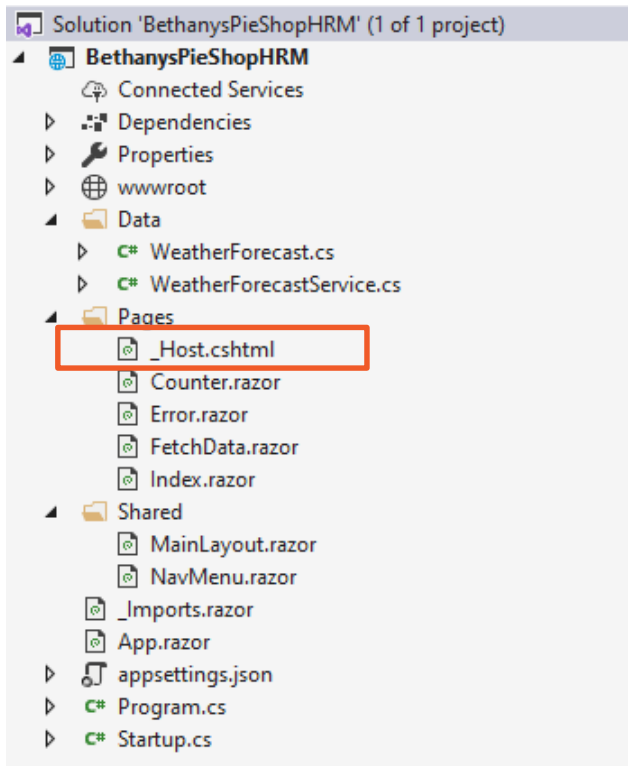
```
<h1>Hello, world!</h1>
```

```
Welcome to your new app.
```

```
<Counter />
```

Using a Component





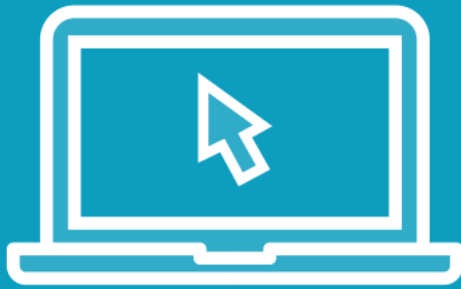
Host for server-side Blazor app

Razor page

Configured in Startup class



Demo



Creating a new project

Looking at the created files



New to ASP.NET Core?
Take a look at the
ASP.NET Core Learning Path!



Creating Your First Blazor App



Using Code

Mixed approach using @code

“Code behind”



Mixed Approach

```
@page "/counter"  
<h1>Counter</h1>  
<p>Current count: @currentCount</p>  
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
```

```
@code {  
    int currentCount = 0;  
  
    void IncrementCount()  
    {  
        currentCount++;  
    }  
}
```



```
public class EmployeeOverviewBase : ComponentBase  
{  
}
```

Code-behind Approach



```
@page "/employeeoverview"
```

```
@inherits EmployeeOverviewBase
```

Referencing the Actual Code Class



Demo



Creating your first app



Demo



Adding your own layout



Demo



Debugging a Blazor app



Summary



Blazor allows creating rich experiences in the browser using C# and HTML

Server-side and client-side (preview)

Components are a building block





Up next:
Working with data

