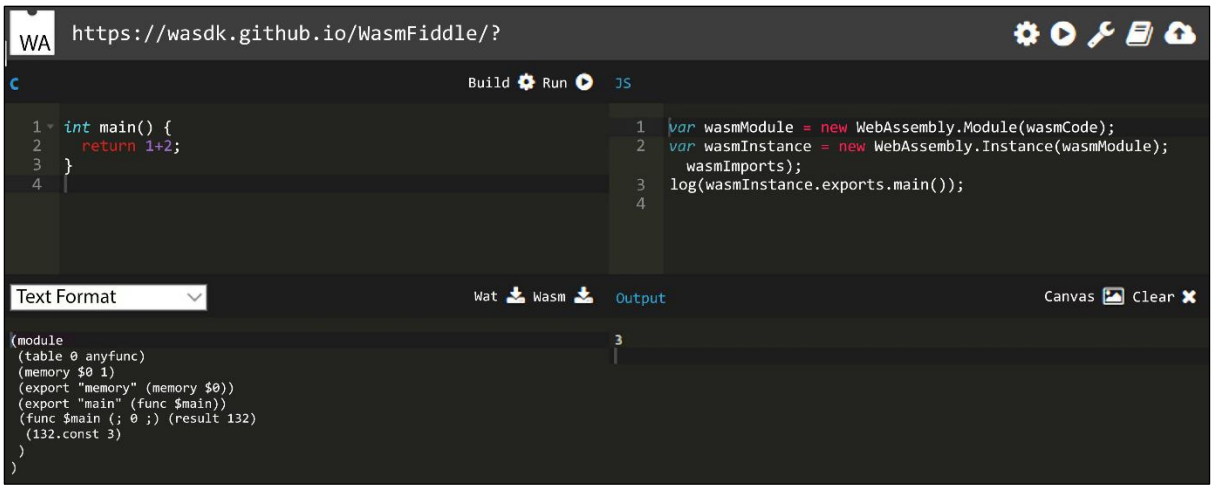
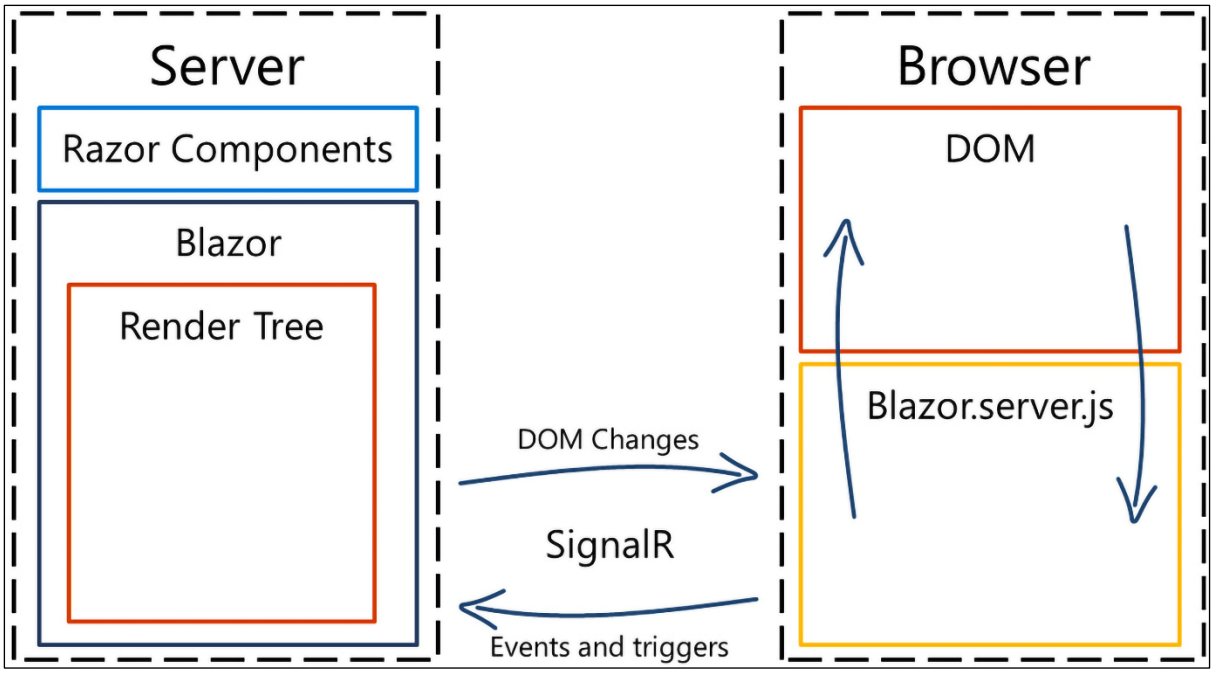
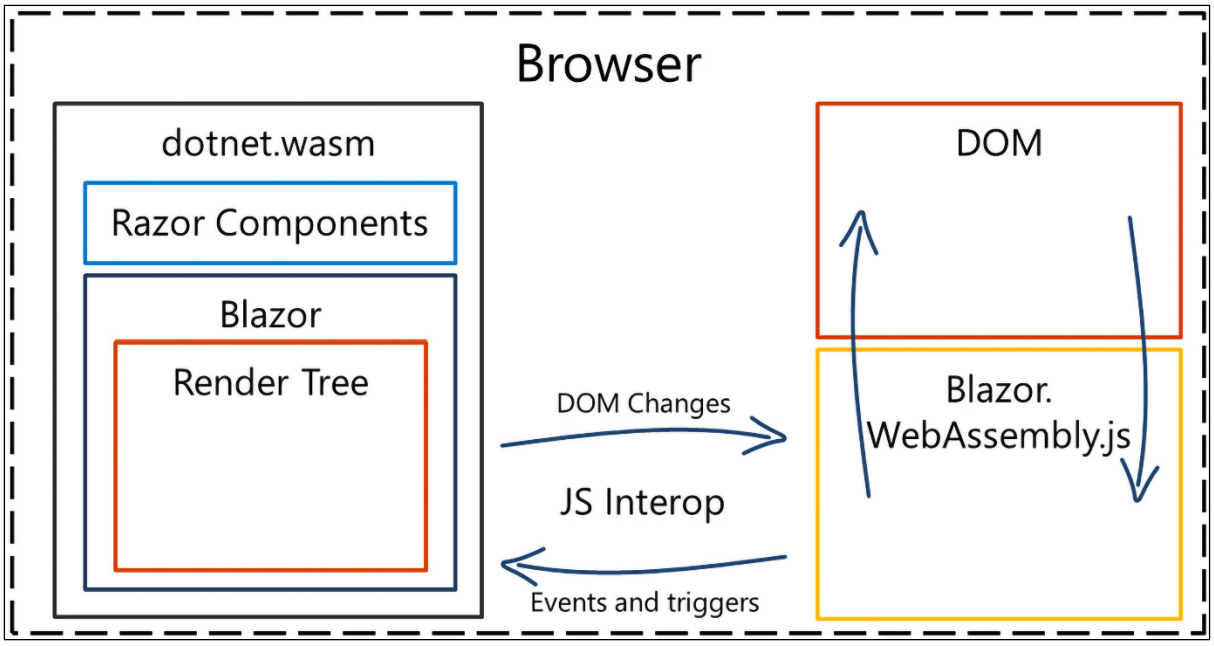
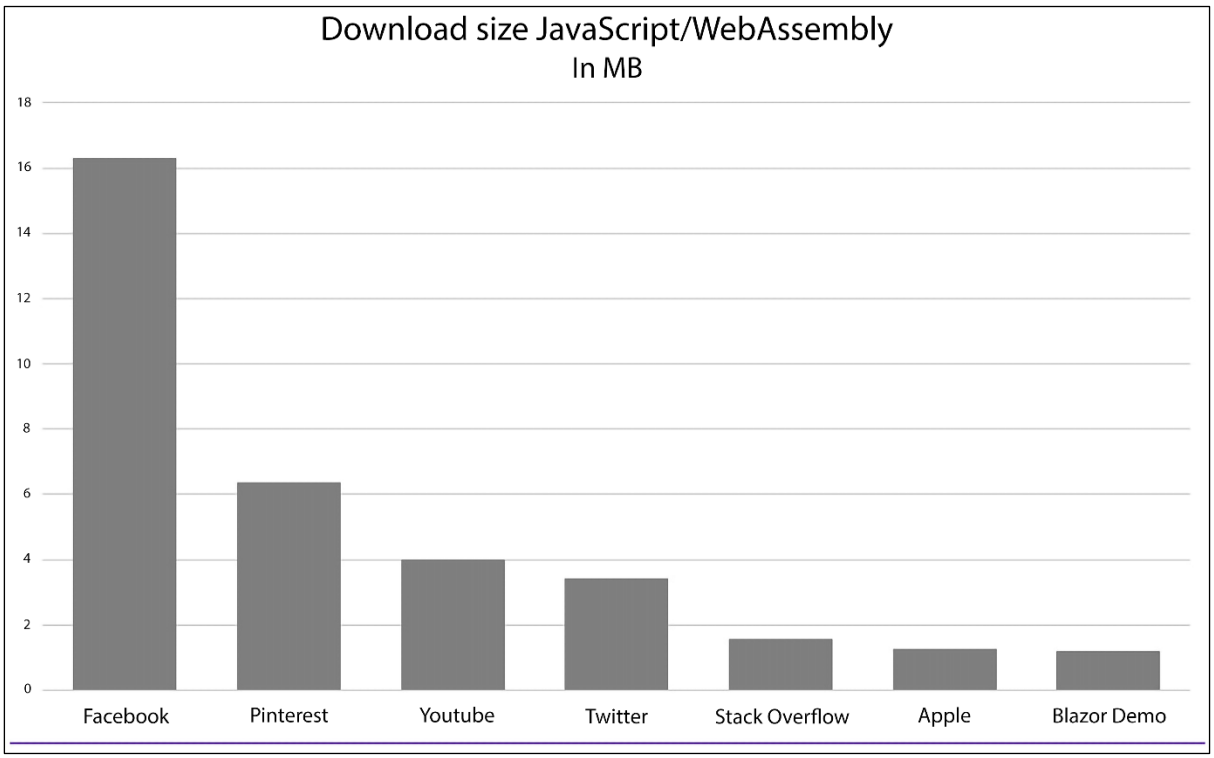
Chapter 1: Hello Blazor

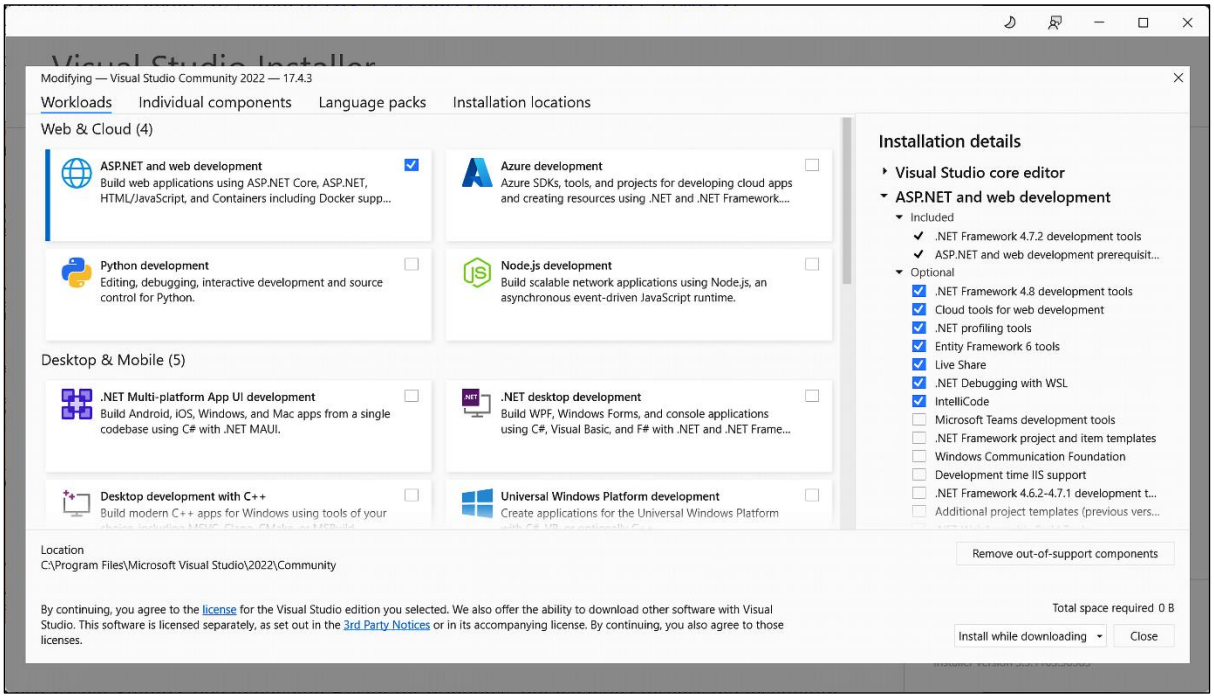


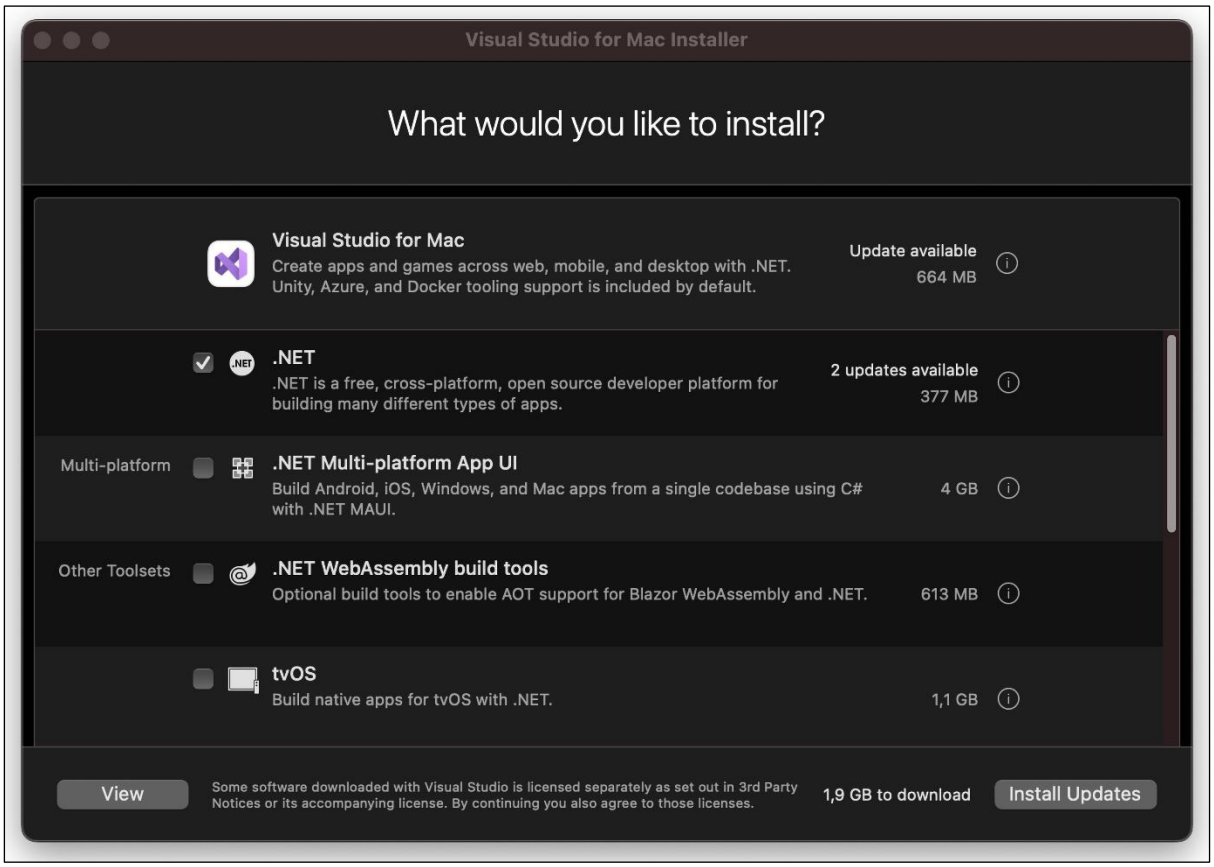


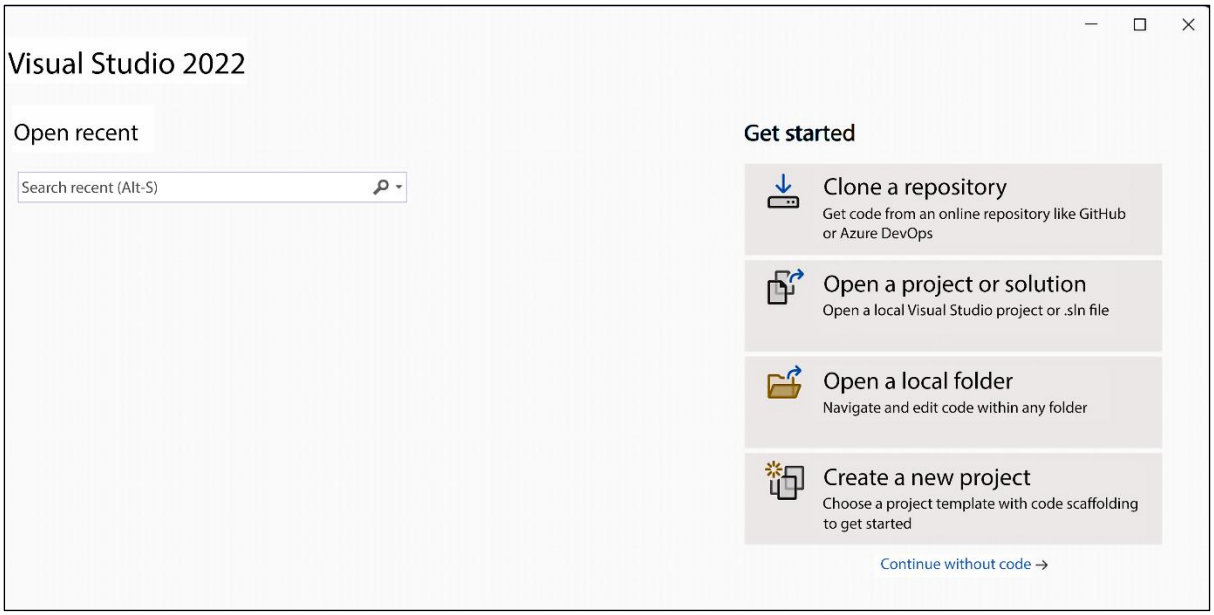

Browser
dotnet.wasm
Razor Components
Blazor
Render Tree
DOM
DOM Changes
JS Interop
Events and triggers
Blazor.
WebAssembly.js

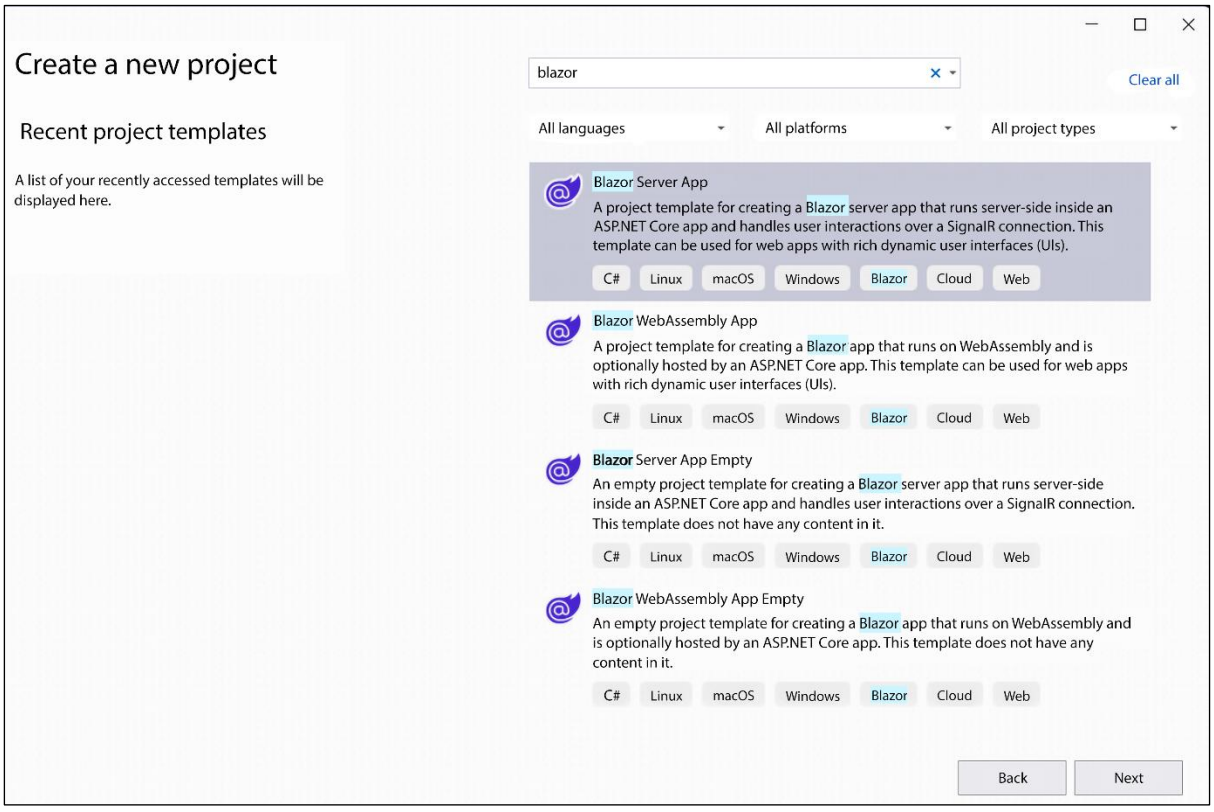

Download size JavaScript/WebAssembly
In MB
18
16
14
12
10
8
6
4
2
0
Facebook
Pinterest
Youtube
Twitter
Stack Overflow
Apple
Blazor Demo

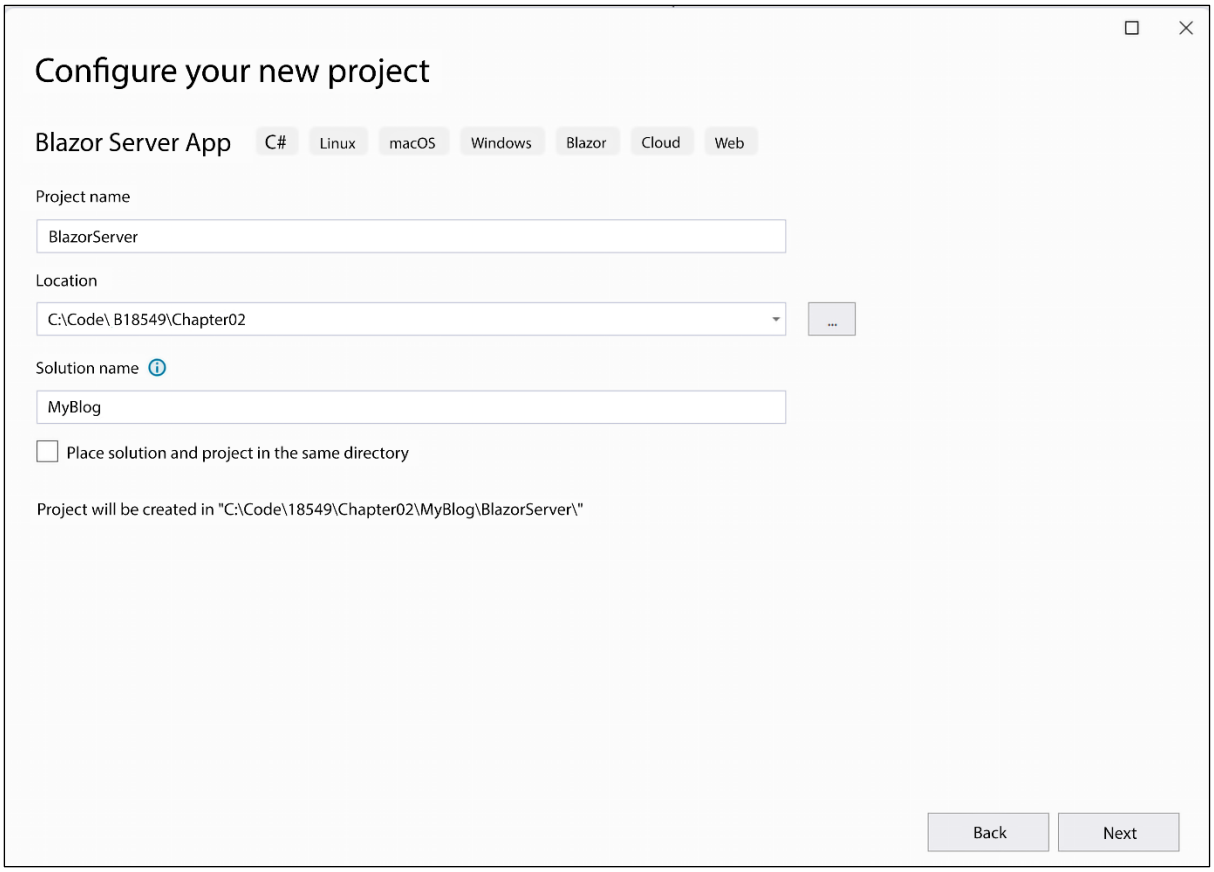
Chapter 2: Creating Your First Blazor App

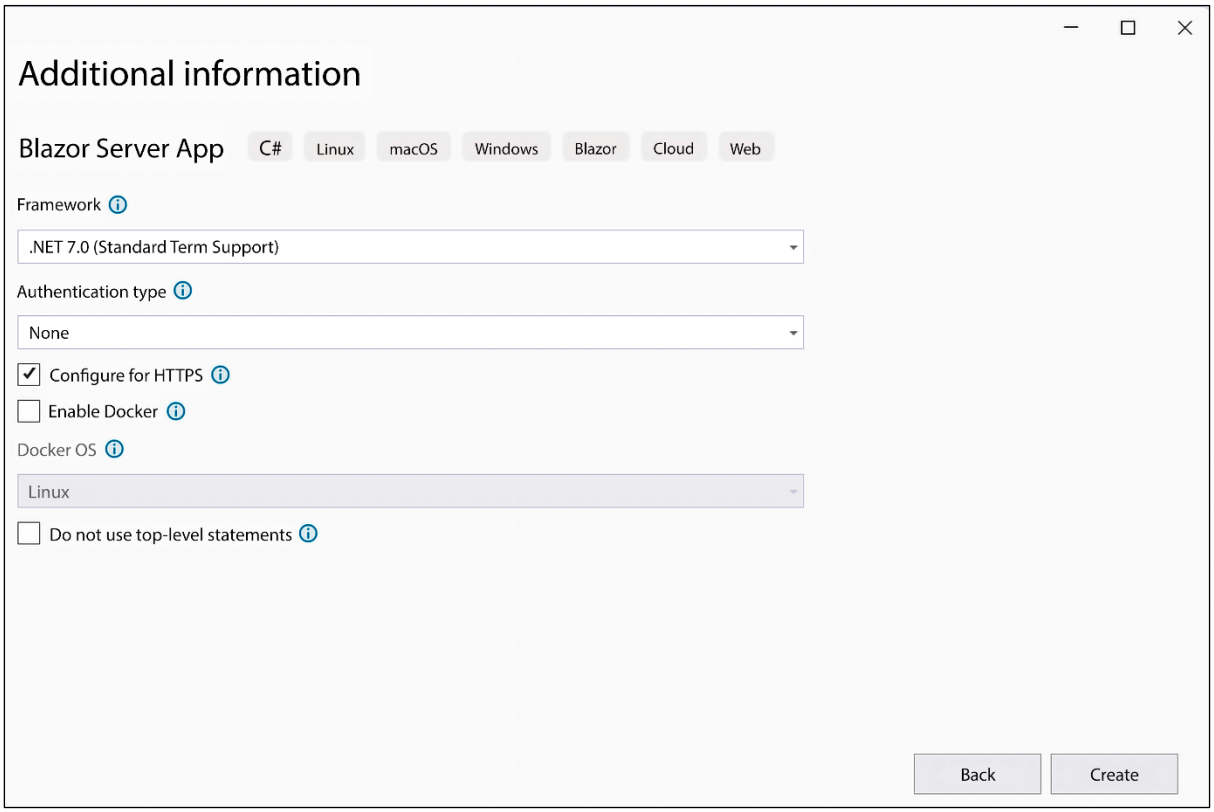


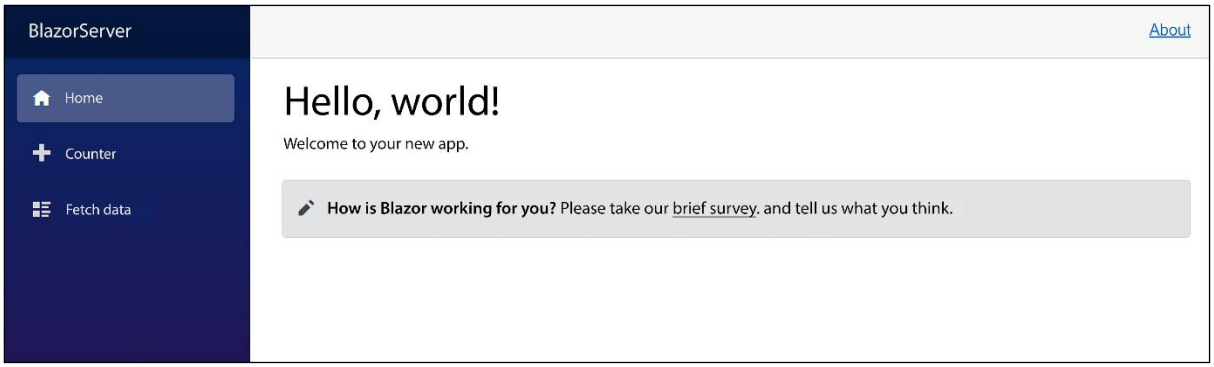


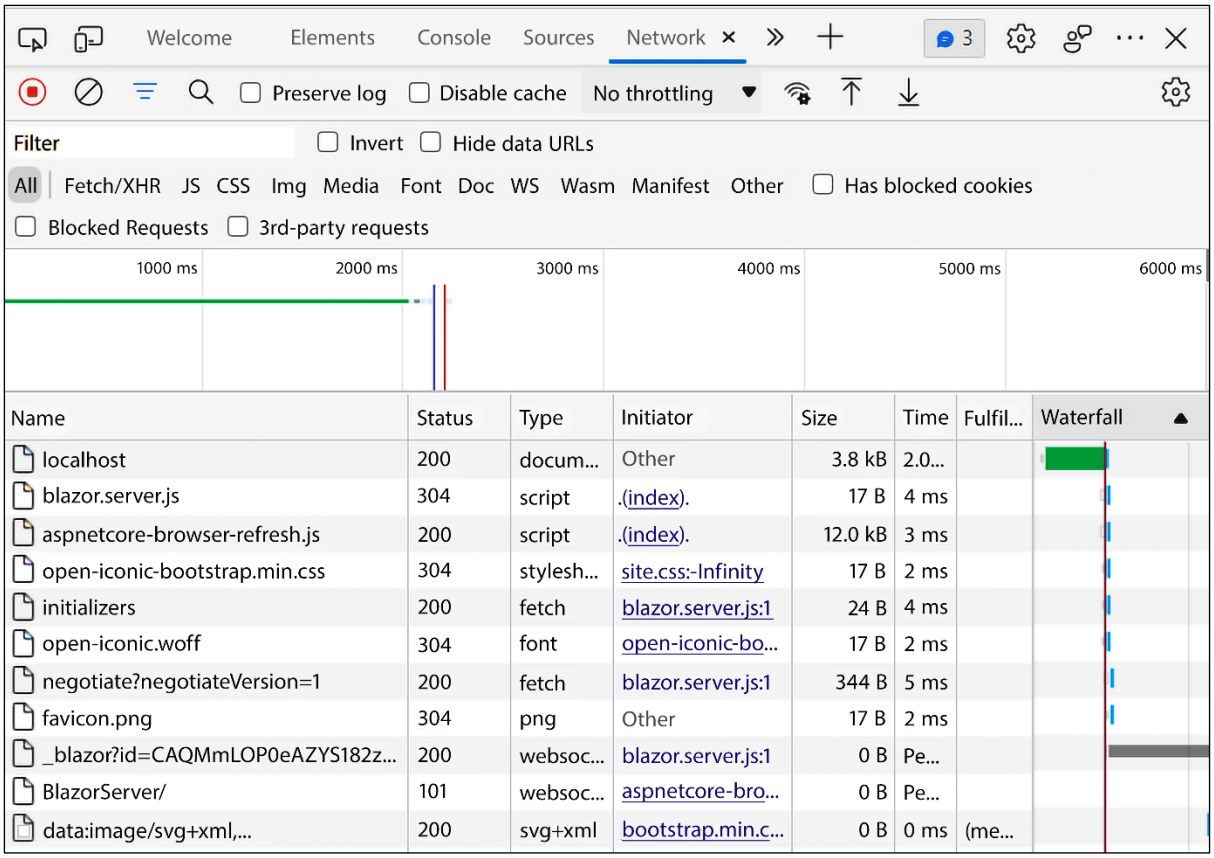

Visual Studio 2022
Open recent
Search recent (Alt-S)
Get started
Clone a repository
Get code from an online repository like GitHub or Azure DevOps
Open a project or solution
Open a local Visual Studio project or .sln file
Open a local folder
Navigate and edit code within any folder
Create a new project
Choose a project template with code scaffolding to get started
Continue without code →

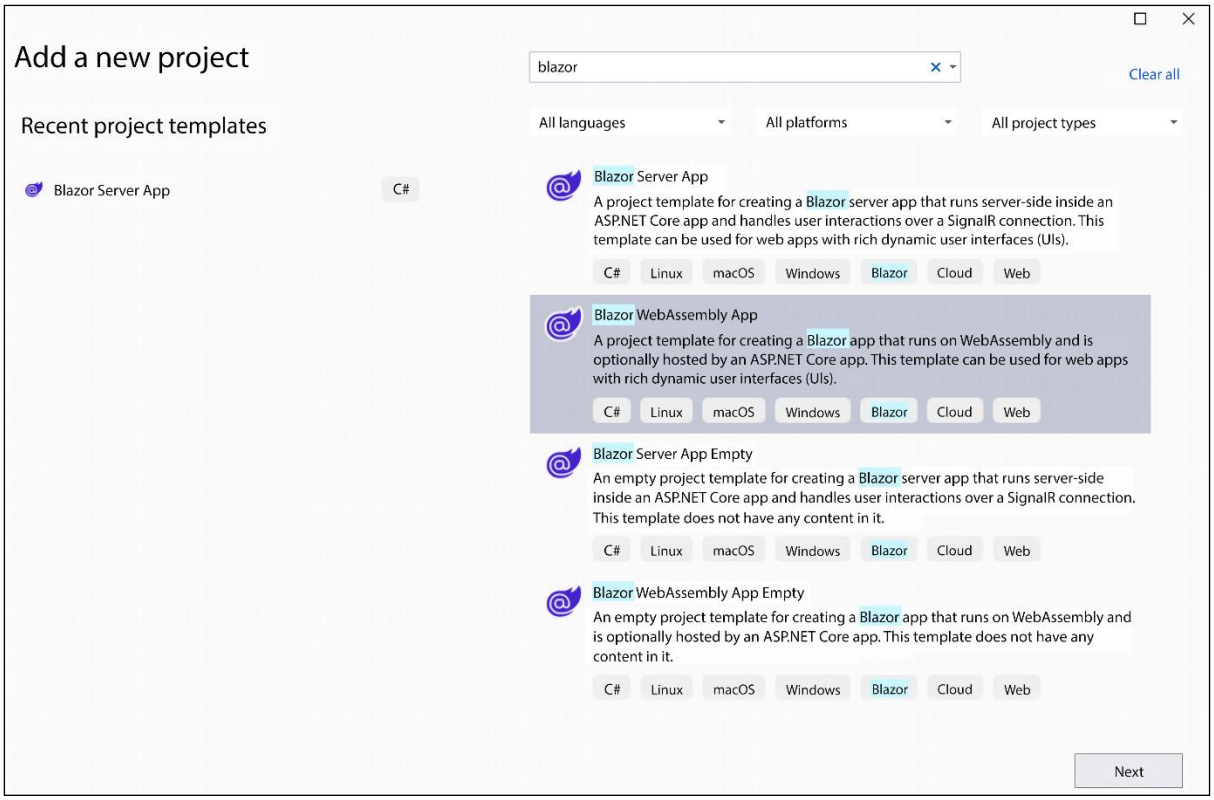

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blazor
Clear all
All languages
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Blazor Server App
A project template for creating a Blazor server app that runs server-side inside an ASP.NET Core app and handles user interactions over a SignalR connection. This template can be used for web apps with rich dynamic user interfaces (UIs).
C# Linux macOS Windows Blazor Cloud Web
Blazor WebAssembly App
A project template for creating a Blazor app that runs on WebAssembly and is optionally hosted by an ASP.NET Core app. This template can be used for web apps with rich dynamic user interfaces (UIs).
C# Linux macOS Windows Blazor Cloud Web
Blazor Server App Empty
An empty project template for creating a Blazor server app that runs server-side inside an ASP.NET Core app and handles user interactions over a SignalR connection. This template does not have any content in it.
C# Linux macOS Windows Blazor Cloud Web
Blazor WebAssembly App Empty
An empty project template for creating a Blazor app that runs on WebAssembly and is optionally hosted by an ASP.NET Core app. This template does not have any content in it.
C# Linux macOS Windows Blazor Cloud Web
Back
Next

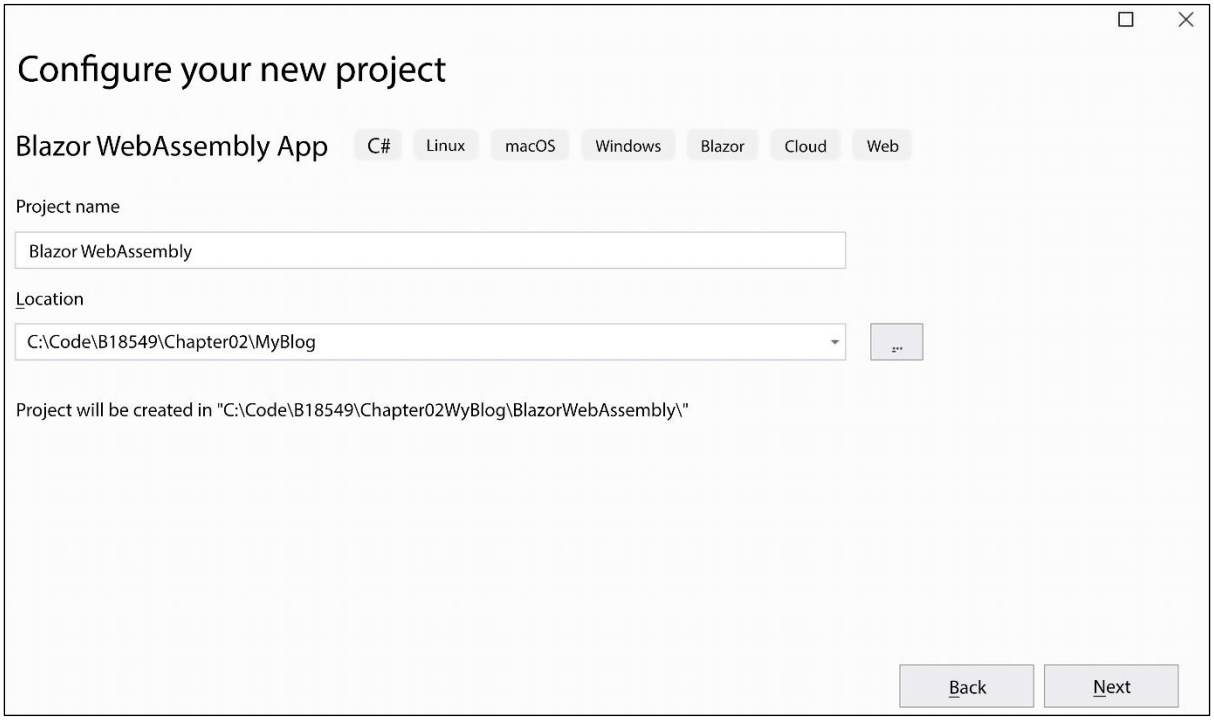

Configure your new project
Blazor Server App
C#
Linux
macOS
Windows
Blazor
Cloud
Web
Project name
BlazorServer
Location
C:\Code\ B18549\Chapter02
...
Solution name
MyBlog
Place solution and project in the same directory
Project will be created in "C:\Code\18549\Chapter02\MyBlog\BlazorServer\"
Back
Next

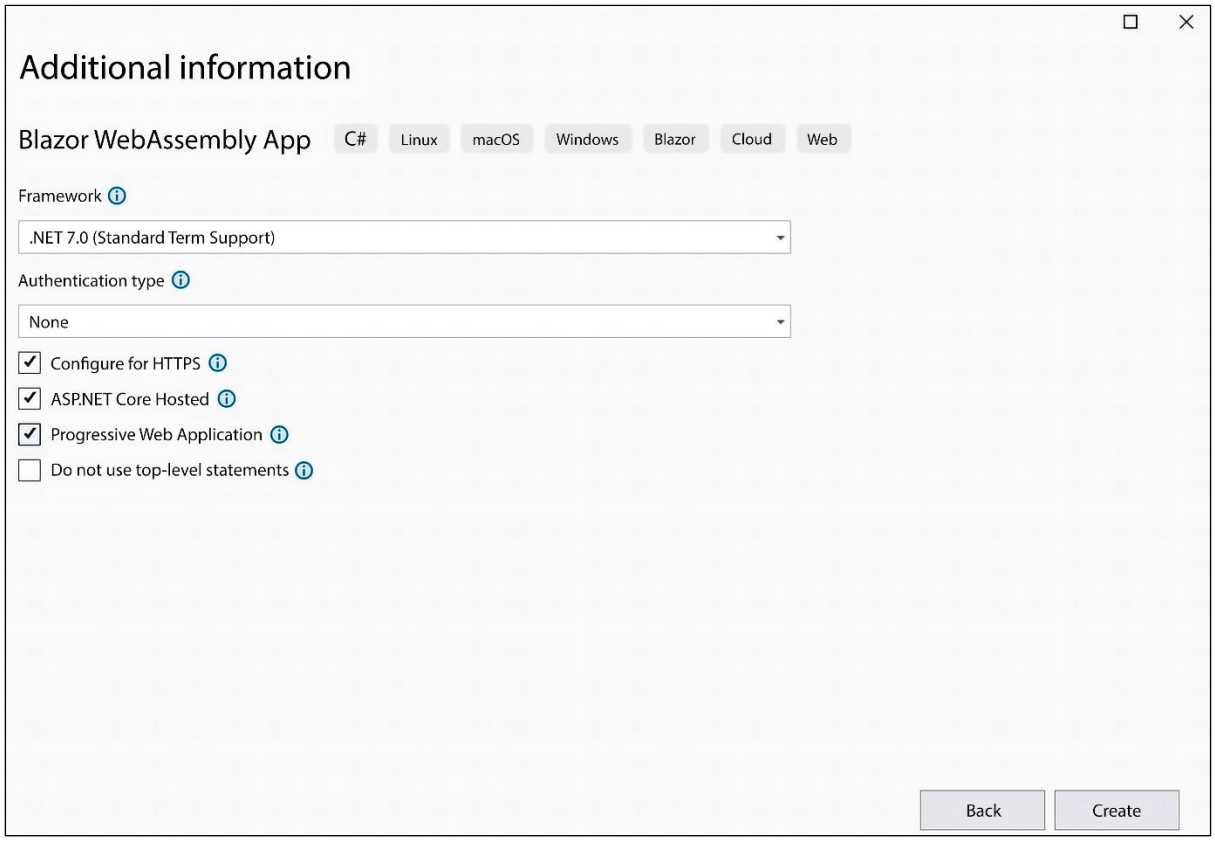

Additional information
Blazor Server App
C#
Linux
macOS
Windows
Blazor
Cloud
Web
Framework
.NET 7.0 (Standard Term Support)
Authentication type
None
Configure for HTTPS
Enable Docker
Docker OS
Linux
Do not use top-level statements
Back
Create

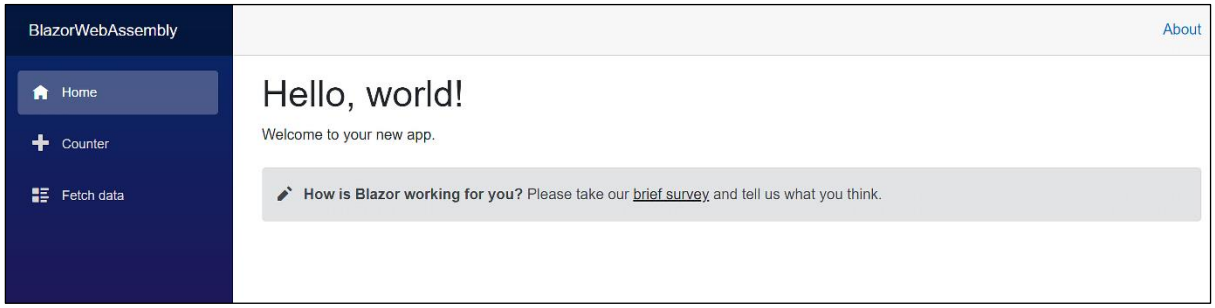

BlazorServer
About
Home
Counter
Fetch data
Hello, world!
Welcome to your new app.
How is Blazor working for you? Please take our brief survey. and tell us what you think.

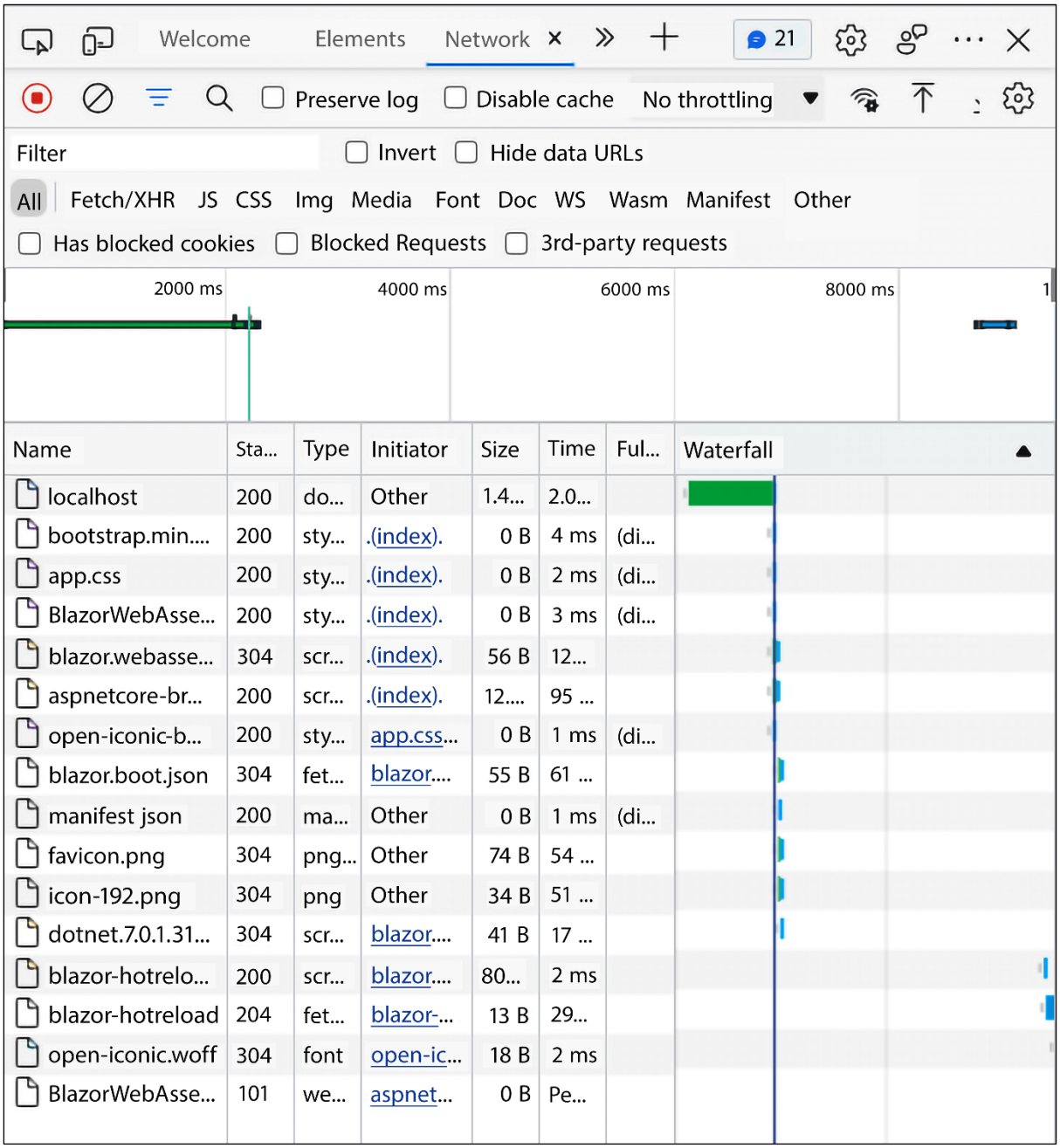

Welcome
Elements
Console
Sources
Network
Preserve log
Disable cache
No throttling
Filter
Invert
Hide data URLs
All
Fetch/XHR
JS
CSS
Img
Media
Font
Doc
WS
Wasm
Manifest
Other
Has blocked cookies
Blocked Requests
3rd-party requests
1000 ms
2000 ms
3000 ms
4000 ms
5000 ms
6000 ms
Name
Status
Type
Initiator
Size
Time
Fulfil...
Waterfall
localhost 200 docum... Other 3.8 kB 2.0...
blazor.server.js 304 script .(index). 17 B 4 ms
aspnetcore-browser-refresh.js 200 script .(index). 12.0 kB 3 ms
open-iconic-bootstrap.min.css 304 stylesh... site.css:-Infinity 17 B 2 ms
initializers 200 fetch blazor.server.js:1 24 B 4 ms
open-iconic.woff 304 font open-iconic-bo... 17 B 2 ms
negotiate?negotiateVersion=1 200 fetch blazor.server.js:1 344 B 5 ms
favicon.png 304 png Other 17 B 2 ms
_blazor?id=CAQMmLOP0eAZYS182z... 200 websoc... blazor.server.js:1 0 B Pe...
BlazorServer/ 101 websoc... aspnetcore-bro... 0 B Pe...
data:image/svg+xml,... 200 svg+xml bootstrap.min.c... 0 B 0 ms (me...


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All project types
Blazor Server App
C#
Blazor Server App
A project template for creating a Blazor server app that runs server-side inside an ASP.NET Core app and handles user interactions over a SignalR connection. This template can be used for web apps with rich dynamic user interfaces (UIs).
C# Linux macOS Windows Blazor Cloud Web
Blazor WebAssembly App
A project template for creating a Blazor app that runs on WebAssembly and is optionally hosted by an ASP.NET Core app. This template can be used for web apps with rich dynamic user interfaces (UIs).
C# Linux macOS Windows Blazor Cloud Web
Blazor Server App Empty
An empty project template for creating a Blazor server app that runs server-side inside an ASP.NET Core app and handles user interactions over a SignalR connection. This template does not have any content in it.
C# Linux macOS Windows Blazor Cloud Web
Blazor WebAssembly App Empty
An empty project template for creating a Blazor app that runs on WebAssembly and is optionally hosted by an ASP.NET Core app. This template does not have any content in it.
C# Linux macOS Windows Blazor Cloud Web
Next

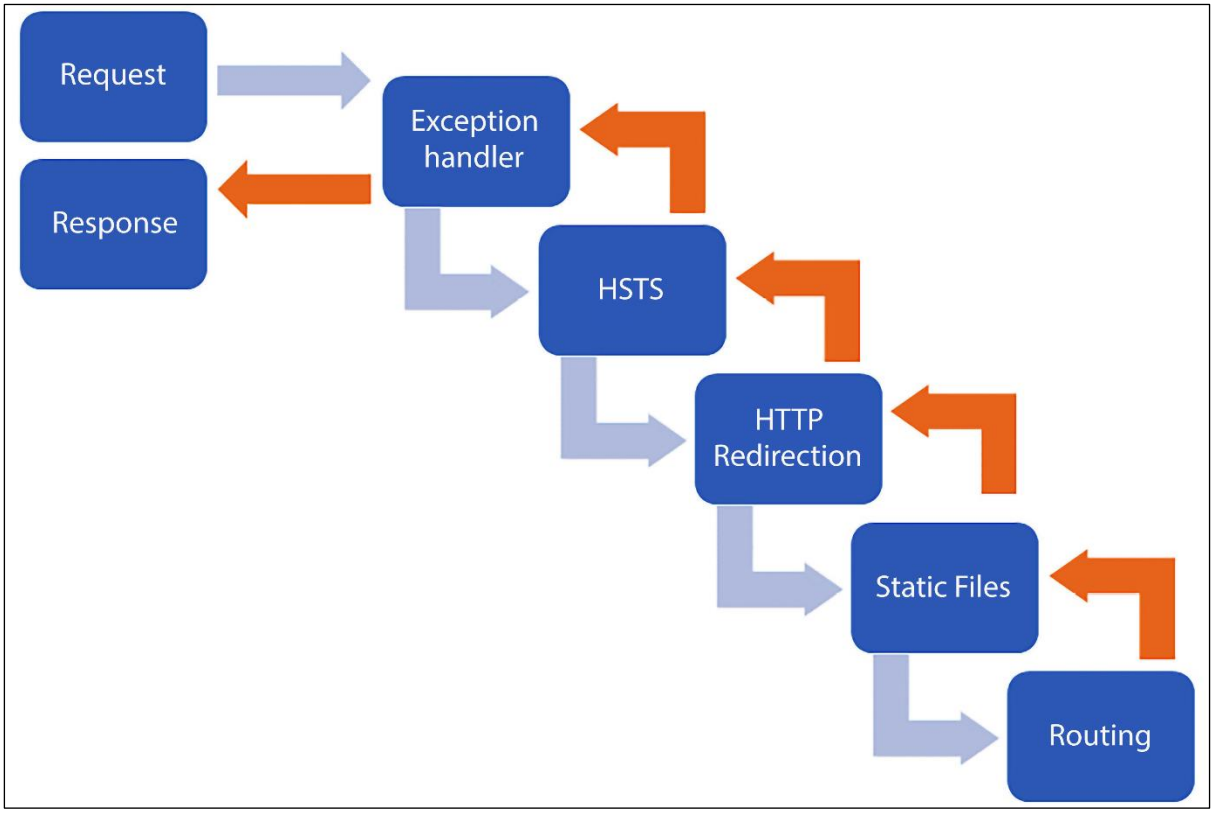

Configure your new project
Blazor WebAssembly App
C# Linux macOS Windows Blazor Cloud Web
Project name
Blazor WebAssembly
Location
C:\Code\B18549\Chapter02\MyBlog
...
Project will be created in "C:\Code\B18549\Chapter02WyBlog\BlazorWebAssembly\"
Back
Next


Additional information
Blazor WebAssembly App
C#
Linux
macOS
Windows
Blazor
Cloud
Web
Framework
.NET 7.0 (Standard Term Support)
Authentication type
None
Configure for HTTPS
ASP.NET Core Hosted
Progressive Web Application
Do not use top-level statements
Back
Create

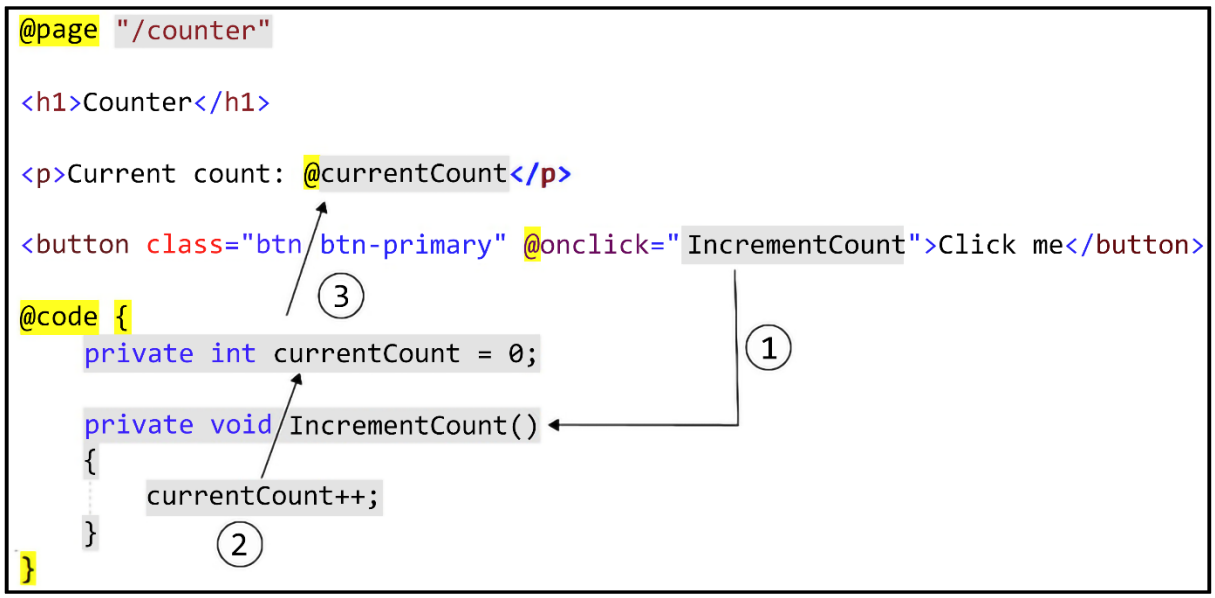

BlazorWebAssembly
About
Home
Counter
Fetch data
Hello, world!
Welcome to your new app.
How is Blazor working for you? Please take our brief survey and tell us what you think.


Welcome
Elements
Network
21
Preserve log
Disable cache
No throttling
Filter
Invert
Hide data URLs
All
Fetch/XHR
JS
CSS
Img
Media
Font
Doc
WS
Wasm
Manifest
Other
Has blocked cookies
Blocked Requests
3rd-party requests
2000 ms
4000 ms
6000 ms
8000 ms
Name
Sta...
Type
Initiator
Size
Time
Ful...
Waterfall
localhost 200 do... Other 1.4... 2.0...
bootstrap.min.... 200 sty... .(index). 0 B 4 ms (di...
app.css 200 sty... .(index). 0 B 2 ms (di...
BlazorWebAsse... 200 sty... .(index). 0 B 3 ms (di...
blazor.webasse... 304 scr... .(index). 56 B 12...
aspnetcore-br... 200 scr... .(index). 12.... 95 ...
open-iconic-b... 200 sty... app.css... 0 B 1 ms (di...
blazor.boot.json 304 fet... blazor.... 55 B 61 ...
manifest json 200 ma... Other 0 B 1 ms (di...
favicon.png 304 png... Other 74 B 54 ...
icon-192.png 304 png Other 34 B 51 ...
dotnet.7.0.1.31... 304 scr... blazor.... 41 B 17 ...
blazor-hotrelo... 200 scr... blazor.... 80... 2 ms
blazor-hotreload 204 fet... blazor-... 13 B 29...
open-iconic.woff 304 font open-ic... 18 B 2 ms
BlazorWebAsse... 101 we... aspnet... 0 B Pe...

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  "linkerEnabled": false,
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      "Microsoft.AspNetCore.Components.dll": "sha256-SVqESV3aJFKOkvmnDOFkvktvfEc45ZUYwu8bUNegy1k=",
      "Microsoft.AspNetCore.Components.Forms.dll": "sha256-HHOtjws+9ItTGHLV1WO5wEcobrA+Qyj85eko5TVrHEE=",
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      "Microsoft.Extensions.Configuration.Binder.dll": "sha256-em\/Vt\/2aVlDQPuXI8gSU7RHK2IflCprFUyVvpA0UefI=",
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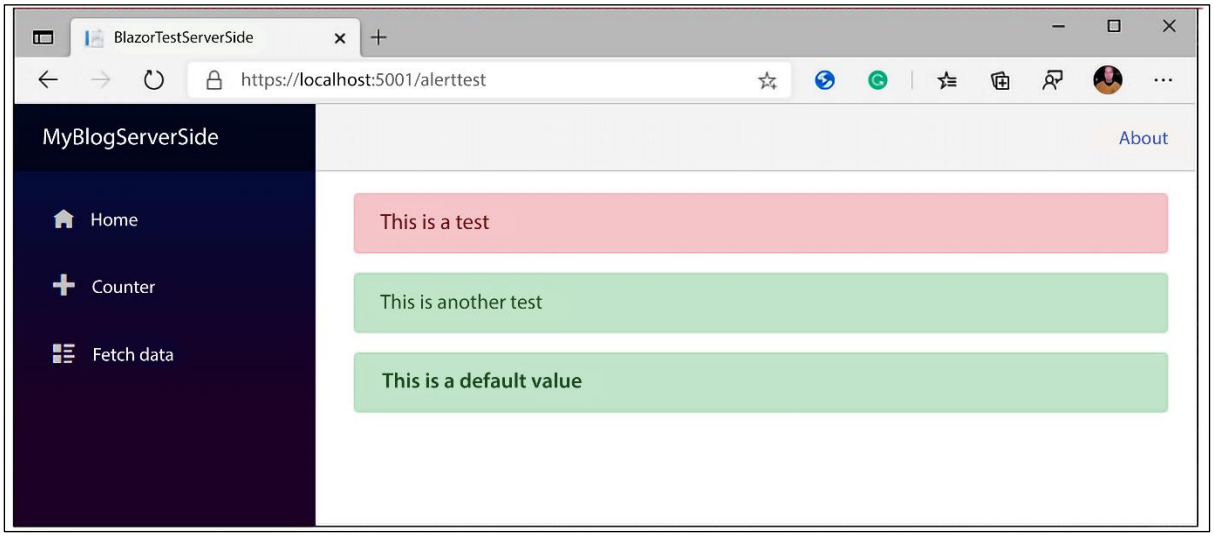



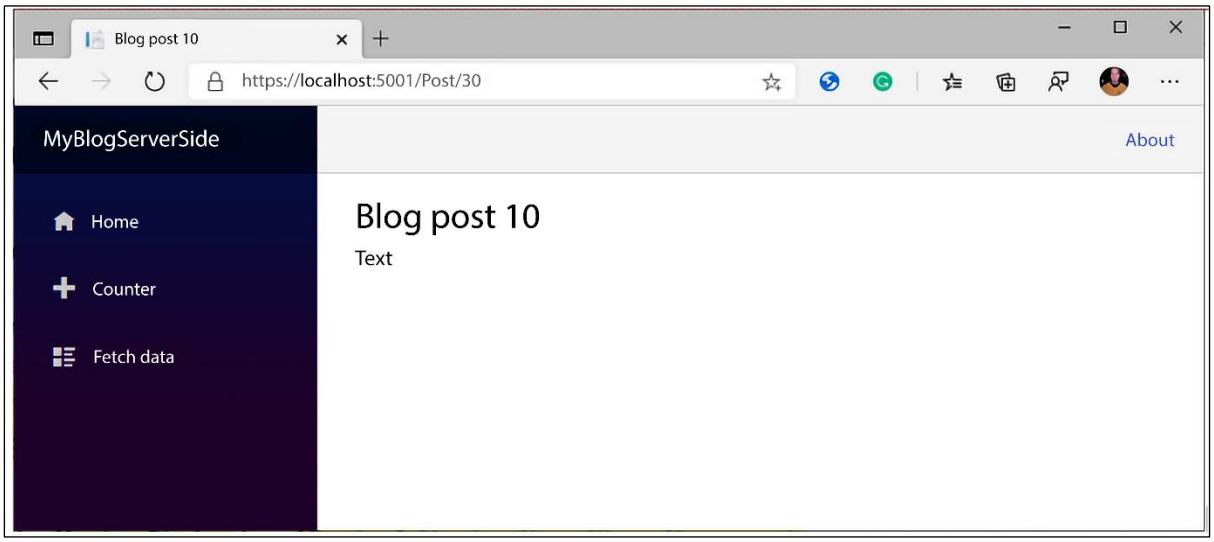
Chapter 4: Understanding Basic Blazor Components



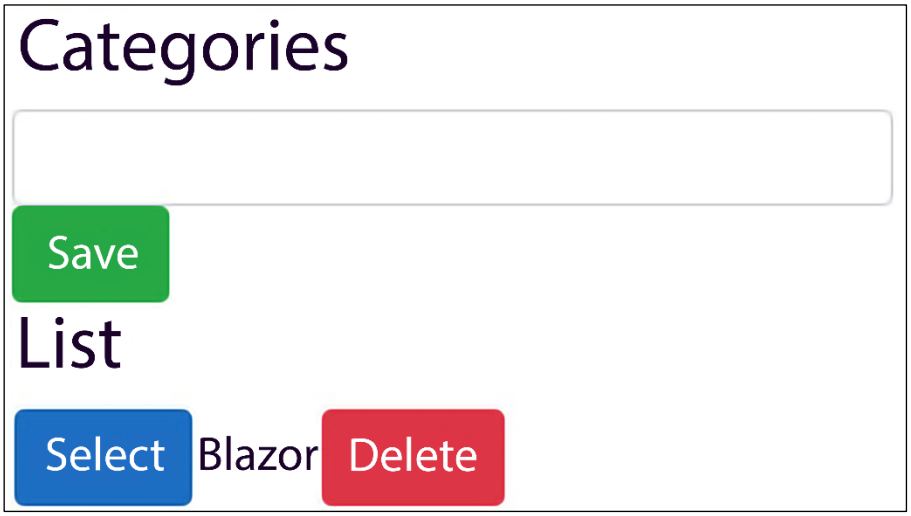
Chapter 5: Creating Advanced Blazor Components

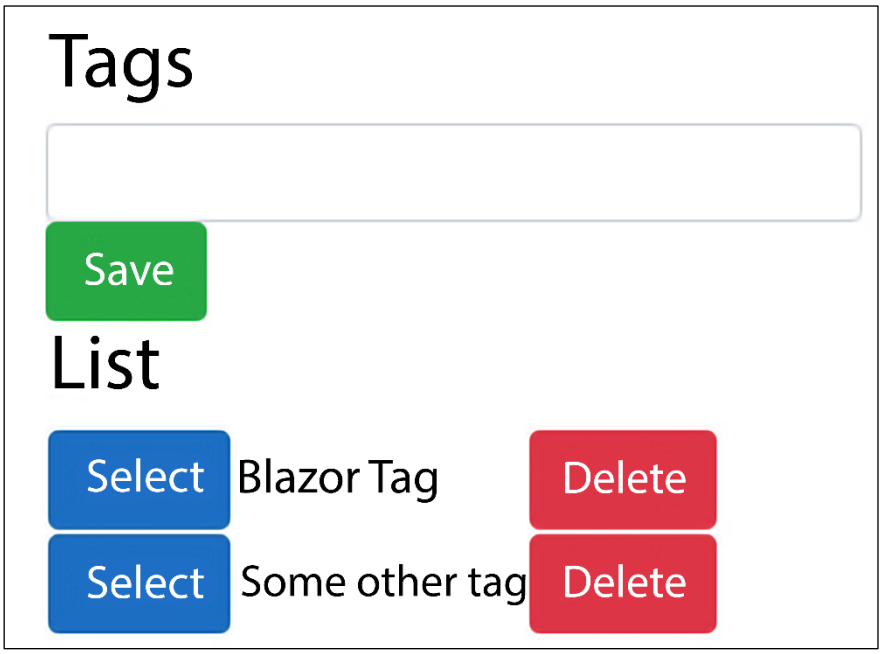
A simple primary alert—check it out!

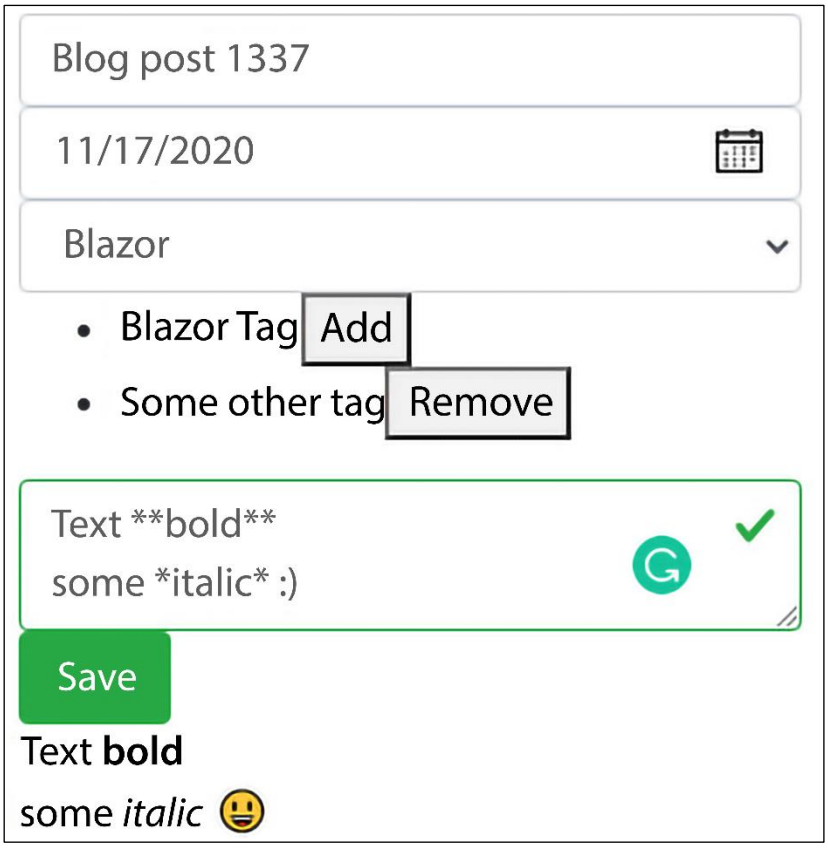




Chapter 6: Building Forms with Validation

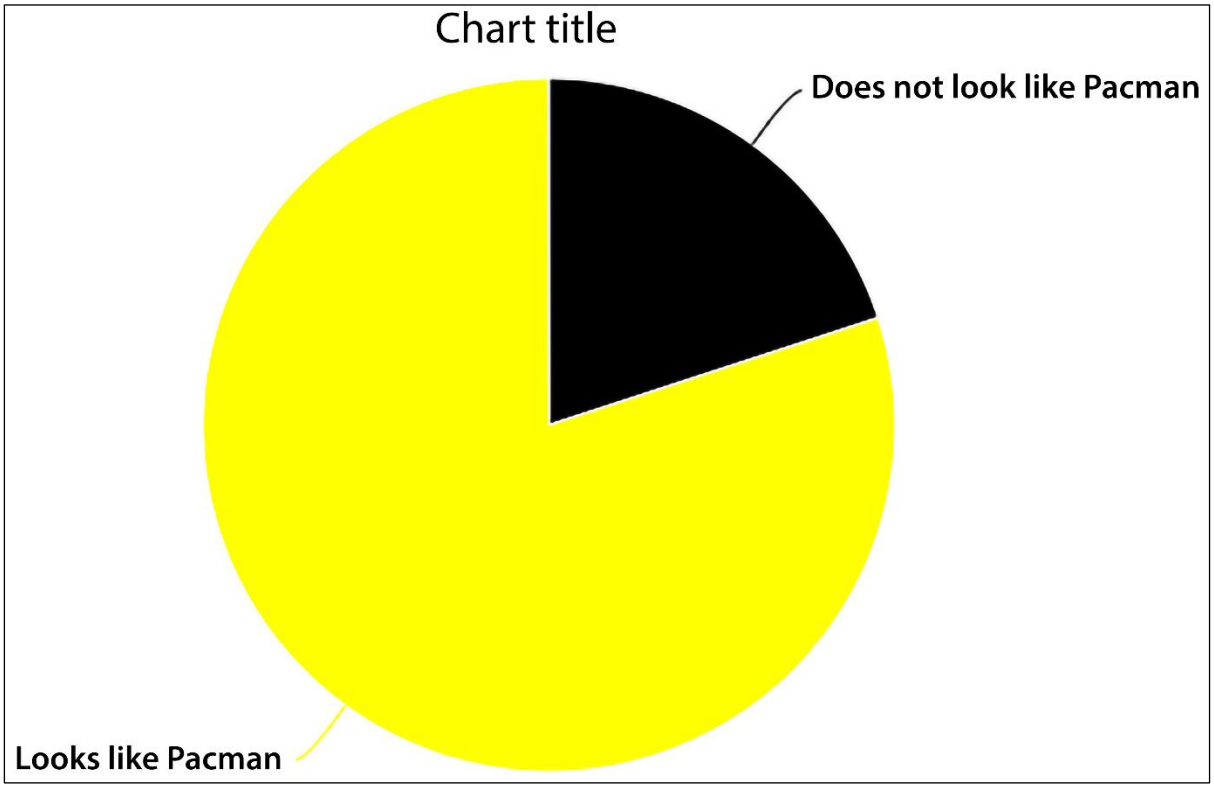





Blog post 1337
11/17/2020
Blazor
Blazor Tag
Add
Some other tag
Remove
Text **bold**
some *italic* :)
Save
Text bold
some italic

URI	Verb	Action
`/BlogPosts`	Get	Gets a list of blog posts
`/BlogPosts`	Post	Creates a new blog post
`/BlogPosts/{id}`	Get	Gets a blog post with a specific ID
`/BlogPost/{id}`	Put	Replaces a blog post
`/BlogPost/{id}`	Patch	Updates a blog post
`/BlogPost/{id}`	Delete	Deletes a blog post

Chapter 10: JavaScript Interop

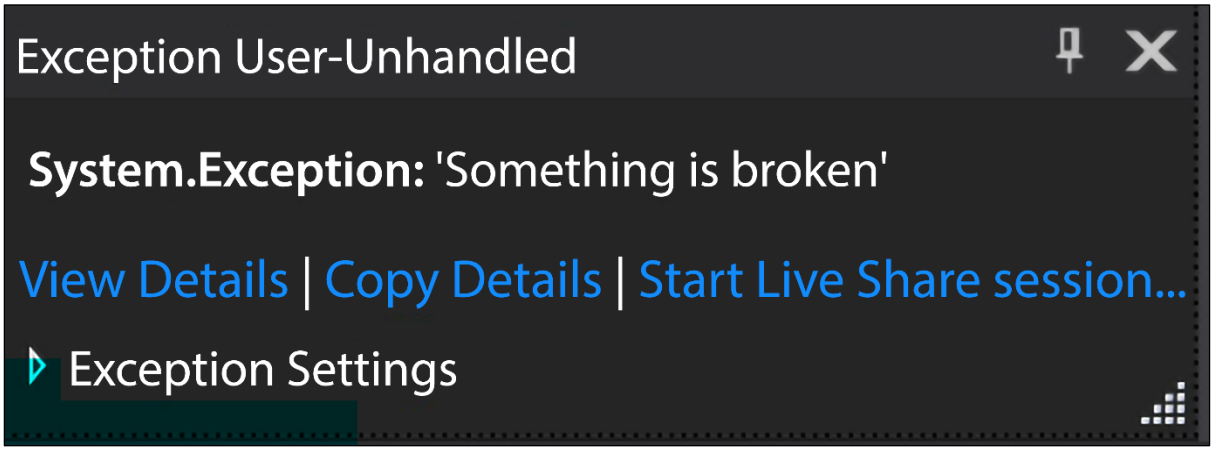


Chapter 11: Managing State - Part 2



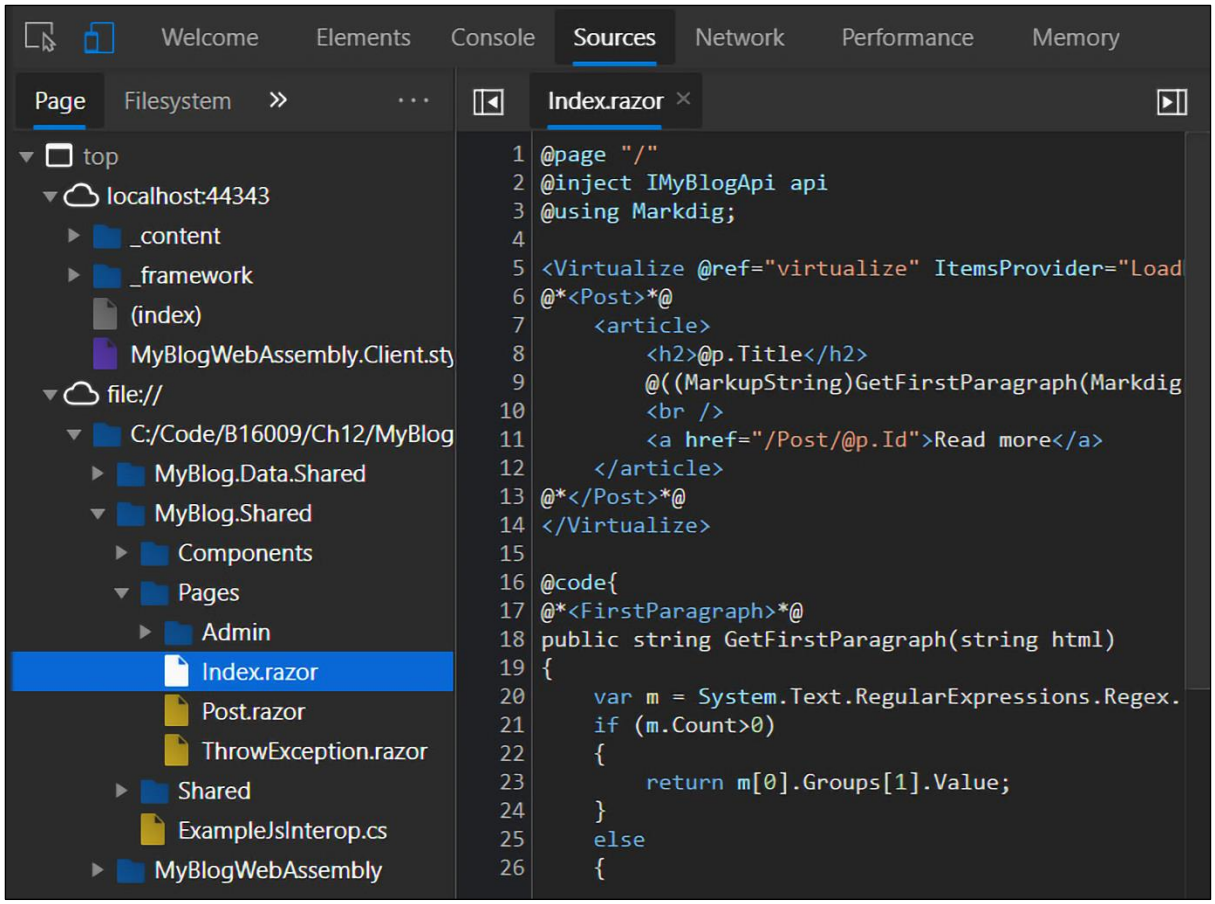


Chapter 12: Debugging the Code



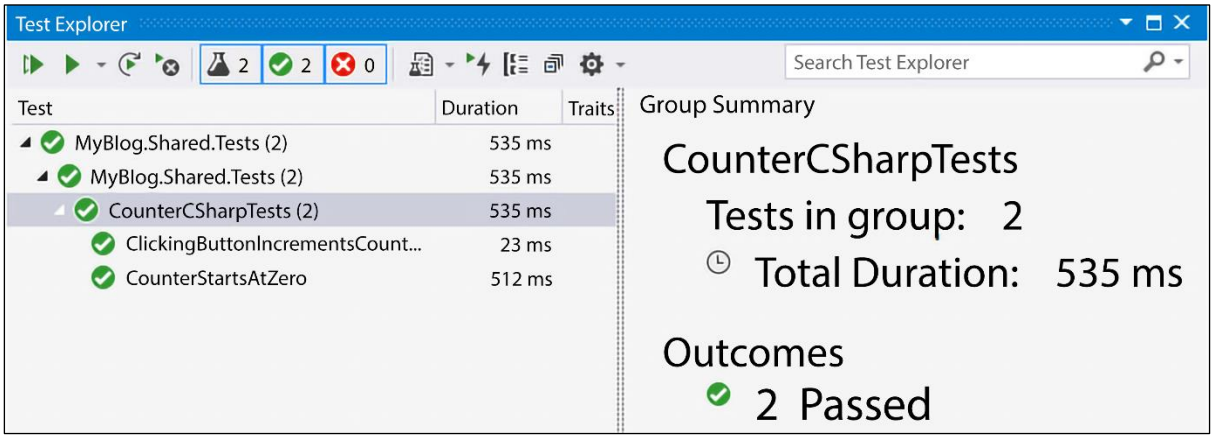

```
▶[2021-02-20T19:53:28.737Z] Error: System.Exception: Something is broken Blazor.server.js:19
   at MyBlog.Shared.Pages.ThrowException.<>c.<BuildRenderTree>b__0_0() in
C:\Code\B16009\Ch12\MyBlog\MyBlog.Shared\Pages\ThrowException.razor:line 3
   at Microsoft.AspNetCore.Components.EventCallbackWorkItem.InvokeAsync[T](MulticastDelegate
delegate, T arg)
   at
Microsoft.AspNetCore.Components.ComponentBase.Microsoft.AspNetCore.Components.IHandleEvent.Ha
ndleEventAsync(EventCallbackWorkItem callback, Object arg)
   at Microsoft.AspNetCore.Components.RenderTree.Renderer.DispatchEventAsync(UInt64
eventHandlerId, EventFieldInfo fieldInfo, EventArgs eventArgs)
```

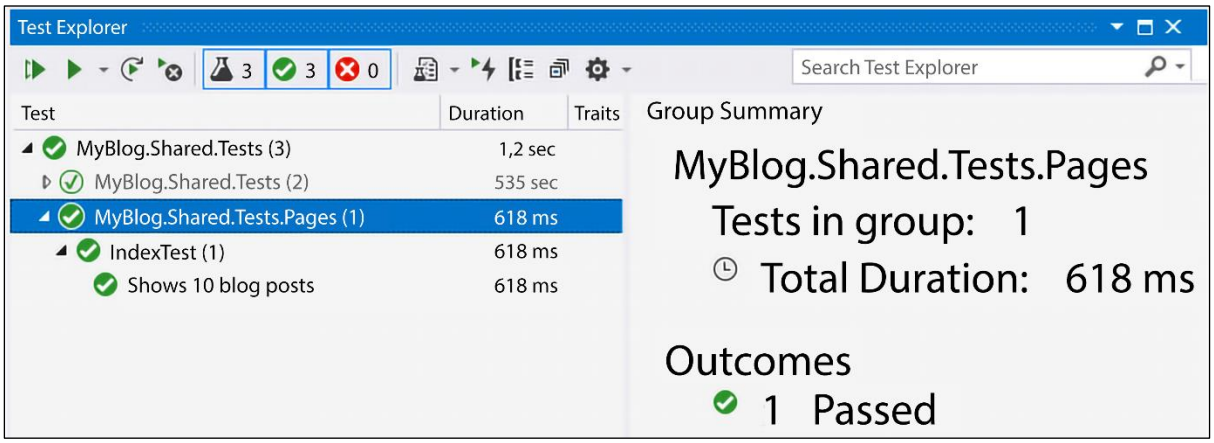
```
▶crit:                                                    blazor.webassembly.js:1
Microsoft.AspNetCore.Components.WebAssembly.Rendering.WebAssemblyRende
rer[100]
      Unhandled exception rendering component: Something is broken
System.Exception: Something is broken
   at MyBlog.Shared.Pages.ThrowException.<>c.<BuildRenderTree>b__0_0()
in
C:\Code\B16009\Ch12\MyBlog\MyBlog.Shared\Pages\ThrowException.razor:li
ne 3
   at
Microsoft.AspNetCore.Components.EventCallbackWorkItem.InvokeAsync[Obje
ct](MulticastDelegate delegate, Object arg)
   at
Microsoft.AspNetCore.Components.EventCallbackWorkItem.InvokeAsync[Obje
ct arg)
   at
Microsoft.AspNetCore.Components.ComponentBase.Microsoft.AspNetCore.Com
ponents.IHandleEvent.HandleEventAsync(EventCallbackWorkItem callback,
Object arg)
   at Microsoft.AspNetCore.Components.EventCallback.InvokeAsync(Object
arg)
   at
Microsoft.AspNetCore.Components.RenderTree.Renderer.DispatchEventAsync
(UInt64 eventHandlerId, EventFieldInfo fieldInfo, EventArgs eventArgs)
```


Welcome
Elements
Console
Sources
Network
Performance
Memory
Page
Filesystem
top
localhost:44343
_content
_framework
(index)
MyBlogWebAssembly.Client.sty
file://
C:/Code/B16009/Ch12/MyBlog
MyBlog.Data.Shared
MyBlog.Shared
Components
Pages
Admin
Index.razor
Post.razor
ThrowException.razor
Shared
ExampleJsInterop.cs
MyBlogWebAssembly
Index.razor
@page "/"
@inject IMyBlogApi api
@using Markdig;
<Virtualize @ref="virtualize" ItemsProvider="Load
@*<Post>*@
<article>
<h2>@p.Title</h2>
@((MarkupString)GetFirstParagraph(Markdig

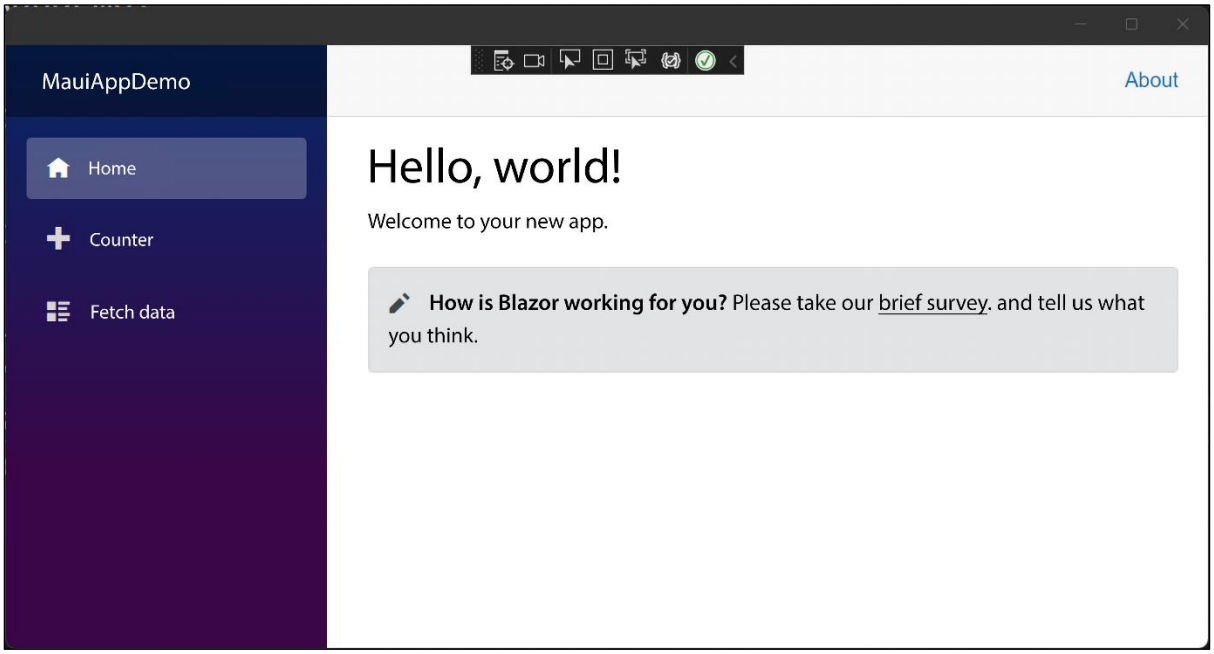
Read more
</article>
@*</Post>*@
</Virtualize>
@code{
@*<FirstParagraph>*@
public string GetFirstParagraph(string html)
{
var m = System.Text.RegularExpressions.Regex.
if (m.Count>0)
{
return m[0].Groups[1].Value;
}
else
{

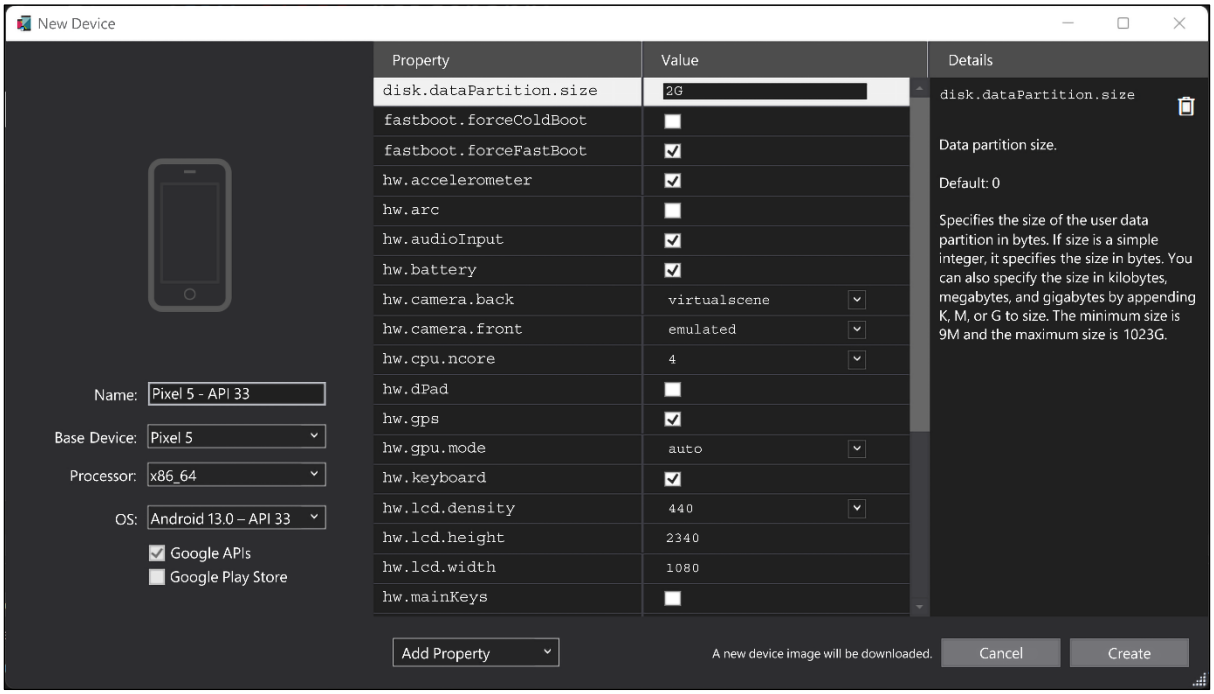
Chapter 13: Testing

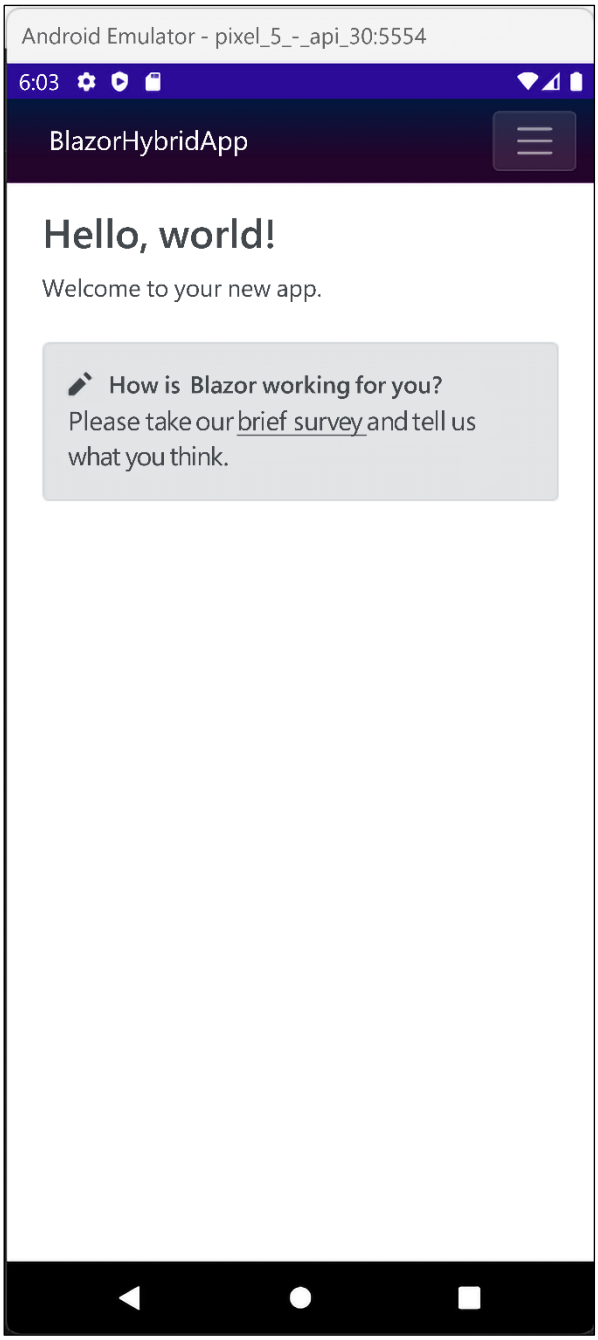


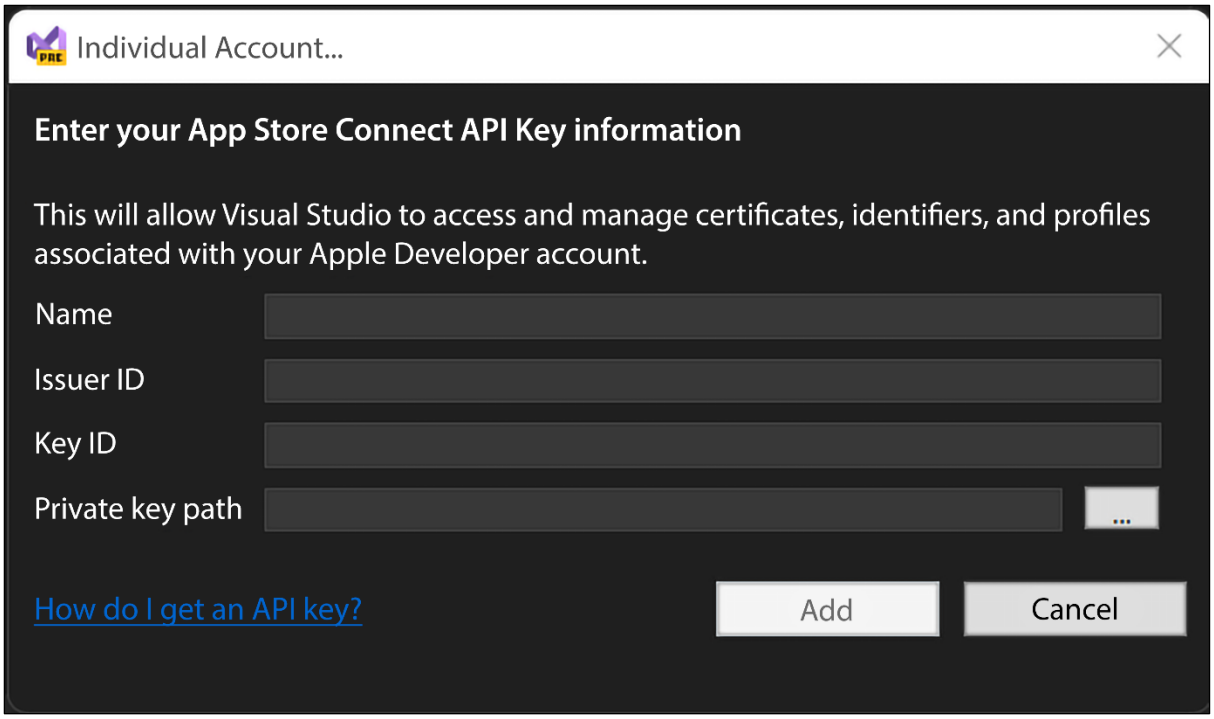


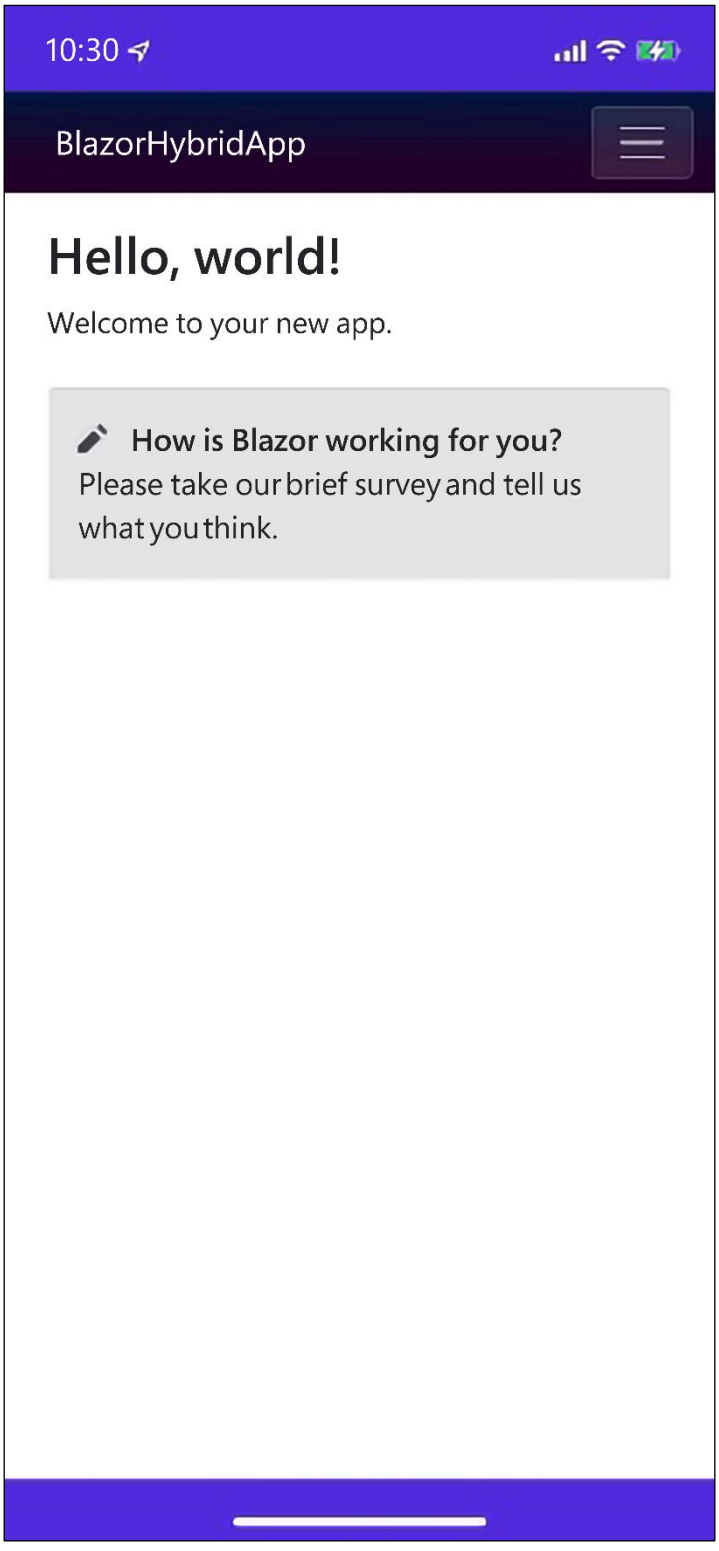
Chapter 18: Visiting .NET MAUI

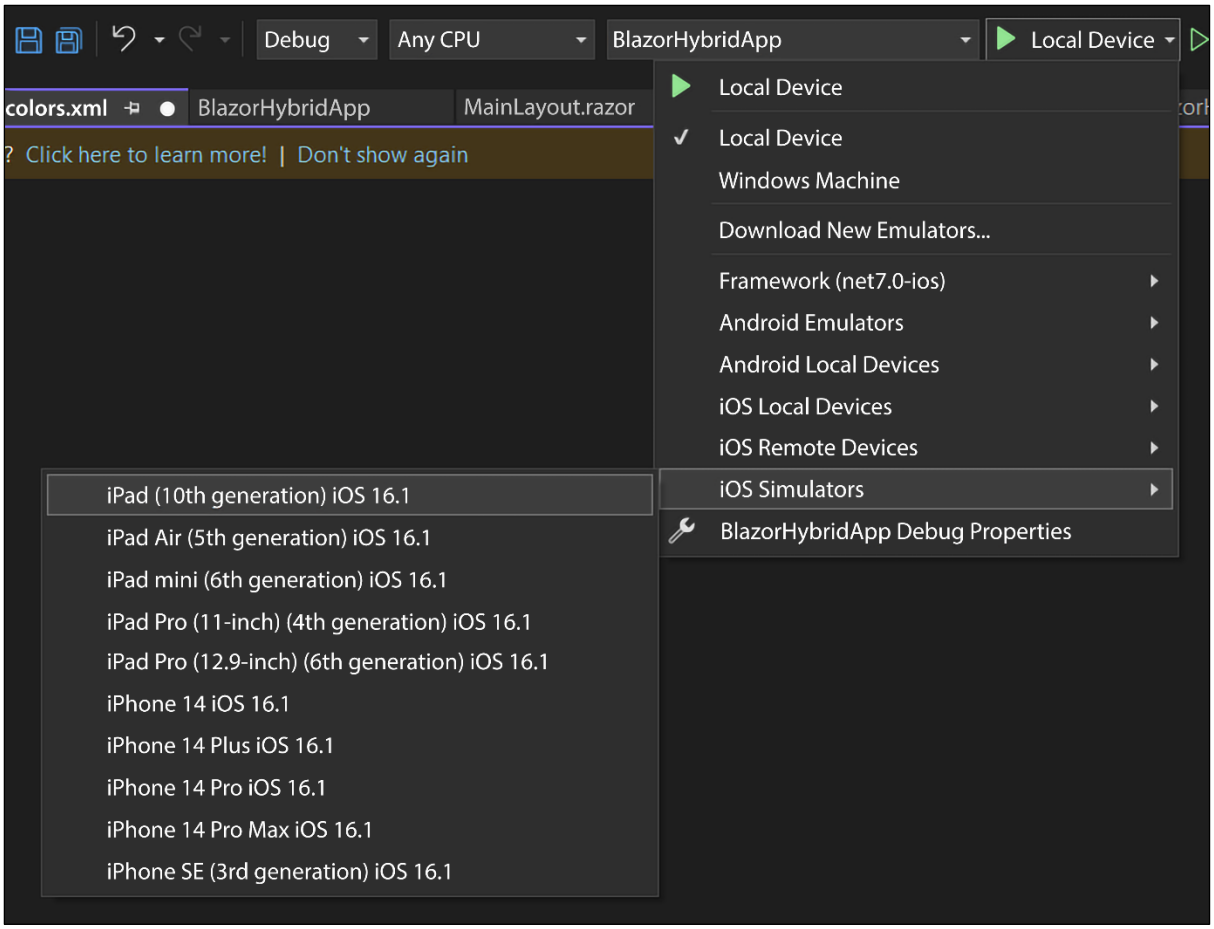


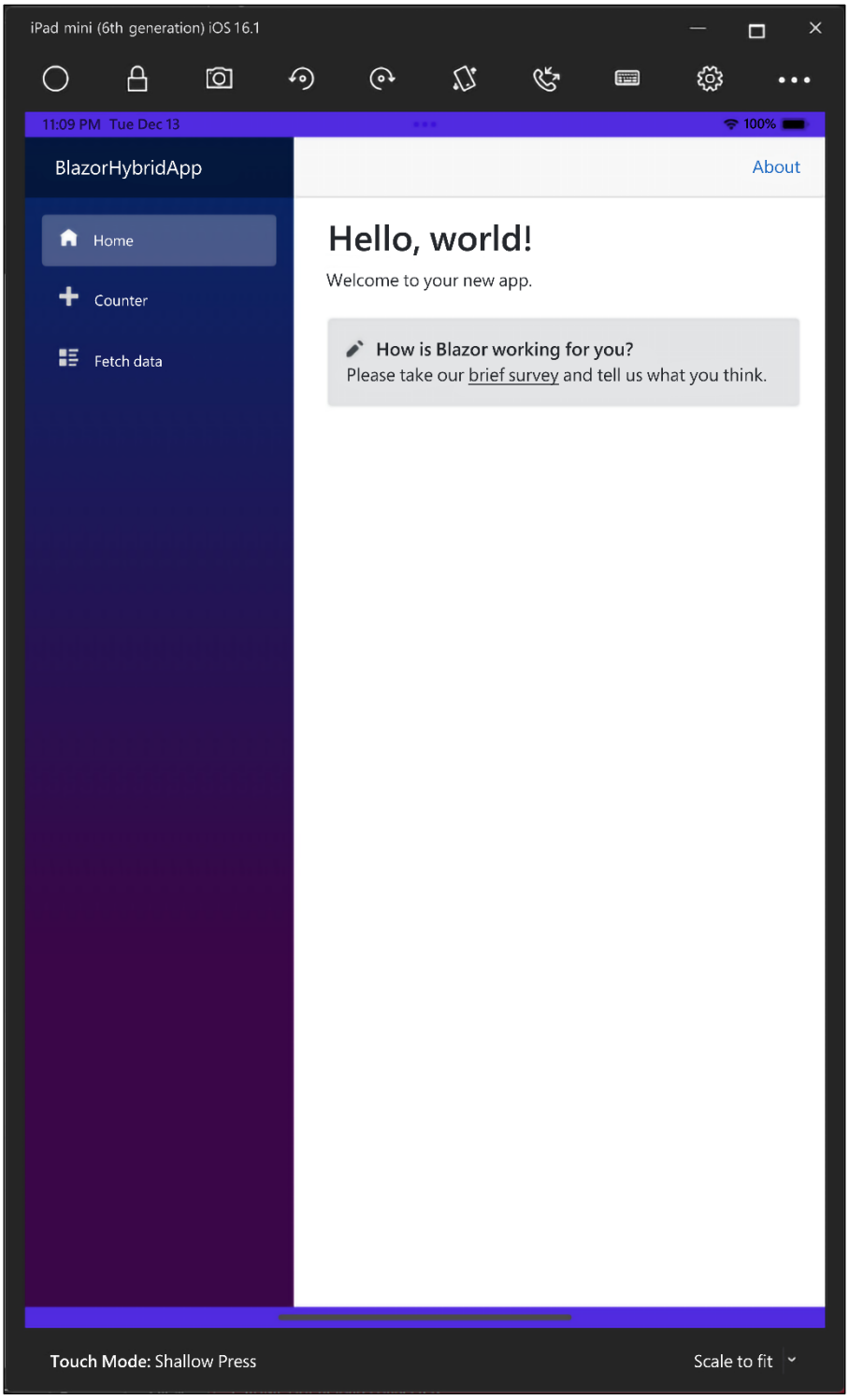


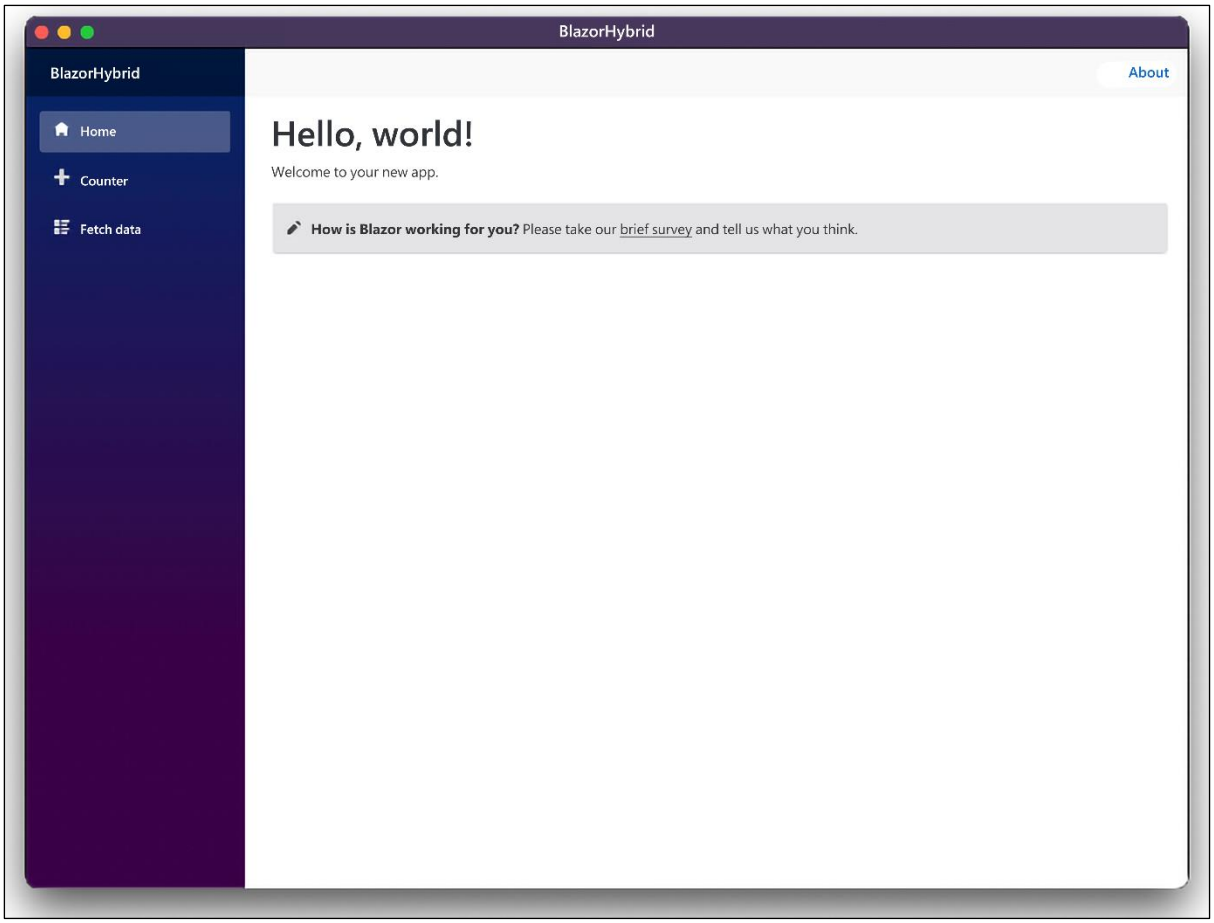

Android Emulator - pixel_5_-_api_30:5554
6:03
BlazorHybridApp
Hello, world!
Welcome to your new app.
How is Blazor working for you?
Please take our brief survey and tell us what you think.


Individual Account...
Enter your App Store Connect API Key information
This will allow Visual Studio to access and manage certificates, identifiers, and profiles associated with your Apple Developer account.
Name
Issuer ID
Key ID
Private key path
...
How do I get an API key?
Add
Cancel


10:30
BlazorHybridApp
Hello, world!
Welcome to your new app.
How is Blazor working for you?
Please take our brief survey and tell us what you think.


Debug
Any CPU
BlazorHybridApp
Local Device
colors.xml
BlazorHybridApp
MainLayout.razor
? Click here to learn more! | Don't show again
Local Device
Local Device
Windows Machine
Download New Emulators...
Framework (net7.0-ios)
Android Emulators
Android Local Devices
iOS Local Devices
iOS Remote Devices
iOS Simulators
BlazorHybridApp Debug Properties
iPad (10th generation) iOS 16.1
iPad Air (5th generation) iOS 16.1
iPad mini (6th generation) iOS 16.1
iPad Pro (11-inch) (4th generation) iOS 16.1
iPad Pro (12.9-inch) (6th generation) iOS 16.1
iPhone 14 iOS 16.1
iPhone 14 Plus iOS 16.1
iPhone 14 Pro iOS 16.1
iPhone 14 Pro Max iOS 16.1
iPhone SE (3rd generation) iOS 16.1


iPad mini (6th generation) iOS 16.1
11:09 PM Tue Dec 13
100%
BlazorHybridApp
About
Home
Counter
Fetch data
Hello, world!
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How is Blazor working for you?
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Touch Mode: Shallow Press
Scale to fit


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