



# Blazor United. Un salto nel futuro









# Un grazie agli sponsor





















# E alle community che ci hanno supportato

























#### **Blazor United**

- Blazor SSR (Server Side Rendering)
- Full Stack Blazor
- Full stack web UI with Blazor

his issue proposes to combine the benefits of server-side and client-side rende lazor, that we're currently calling Blazor United (name subject to change). Blazored architecture for all your web LII scenarios. You can use Blazor components



anroth27 changed the title Blazor United Full stack web UI with Blazor 2 weeks ago

#### Full stack web UI with Blazor #46636



danroth27 opened this issue on Feb 14 · 105 comments











#### Blazor United.

# Full stack web UI with Blazor. Un salto nel futuro



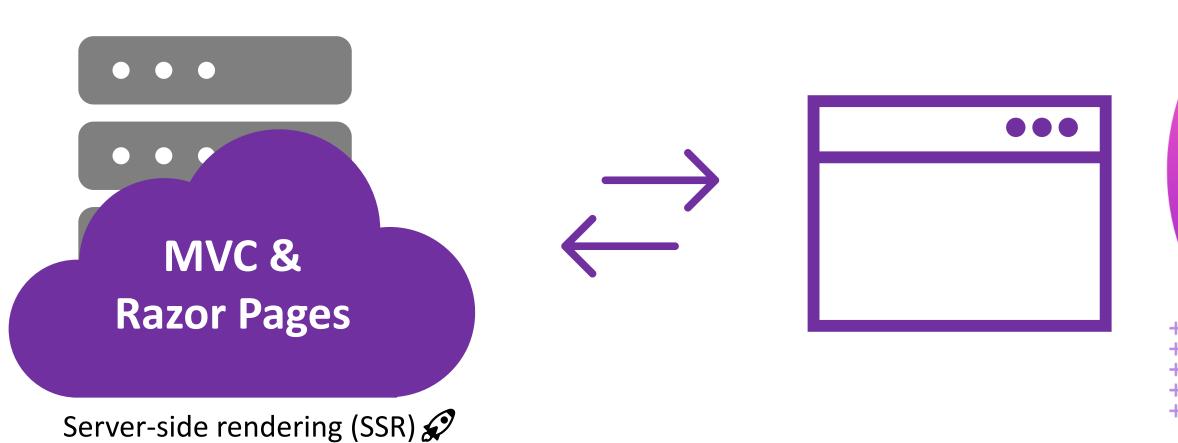
Andrea Dottor
@dottor







#### Server vs client







#### Server vs client

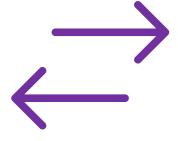






MVC & Razor Pages

Server-side rendering (SSR)





Client-side rendering (CSR)





#### Server vs client



Full stack web UI with Blazor







.NET

Client-side rendering (CSR)























#### isn't a new framework

Daniel Roth:

Up till now we've been referring to this effort as "Blazor United". But "Blazor United" isn't a new framework or even a new Blazor hosting model. Instead, it's a collection of new Blazor features and enhancements that you can add to any Blazor web app.

To avoid confusing people into thinking that we're building a completely new framework, we've decided to stop using the name "Blazor United" in our messaging and instead focus on the new Blazor features, specifically: server-side rendering with Razor components, streaming rendering, enhanced navigation and form handling, enabling client interactivity per component or page (from the server or via WebAssembly), and the ability to change the component render mode at runtime.

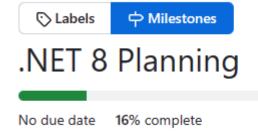






#### .NET 8 Planning





- Streaming rendering #46352
- ( [Design] Blazor United: Layering architecture #46393
- Render a server component into the page #46353
- Render a webassembly component into the page #46354
- • We can interleave Static/Server/WebAssembly components within an app #46394
- • We have a project template where we can add support for Server and Webassembly #46395
- API for registering endpoints that render Razor components. #46350
- • Auto switching for interactive components #46397
- Unified project system #46398
- • Progressive enhancement of form submission & navigation #46399









#### Current version

### .NET 8 preview 4

16 Maggio







# Server Side Rendering

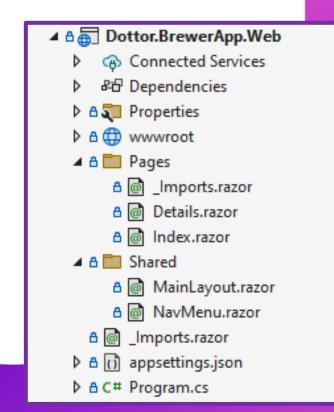


Rendering server-side utilizzando i Razor Component (file \*.razor)

I path vengono recuperati dalla direttiva @page dei componenti

Nessun JavaScript necessario

\* gli eventi "Blazor" non vengono gestiti es: @onclick







#### Server Side Rendering

Da controller e da Minimal API sarà possibile indicare di fare il rendering html di un specifico Razor Component

```
public class HomeController : Controller
{
    public IResult MyComponent()
    {
        return new RazorComponentResult<MyComponent>();
    }
}
app.MapGet("/my-component", () => new RazorComponentResult<MyComponent>());
```









## $\approx$

# Demo

Server Side Rendering





```
@code {
    private IEnumerable<Beer>? _beers;

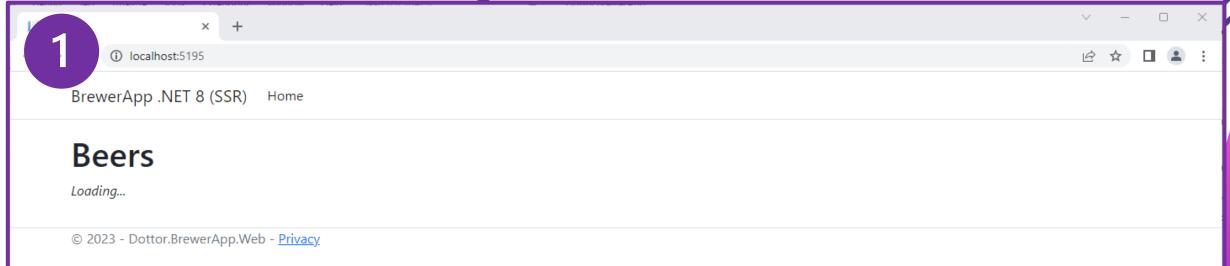
protected override async Task OnInitializedAsync()
    {
        _beers = await brewerService.GetBeersAsync();
    }
}
```



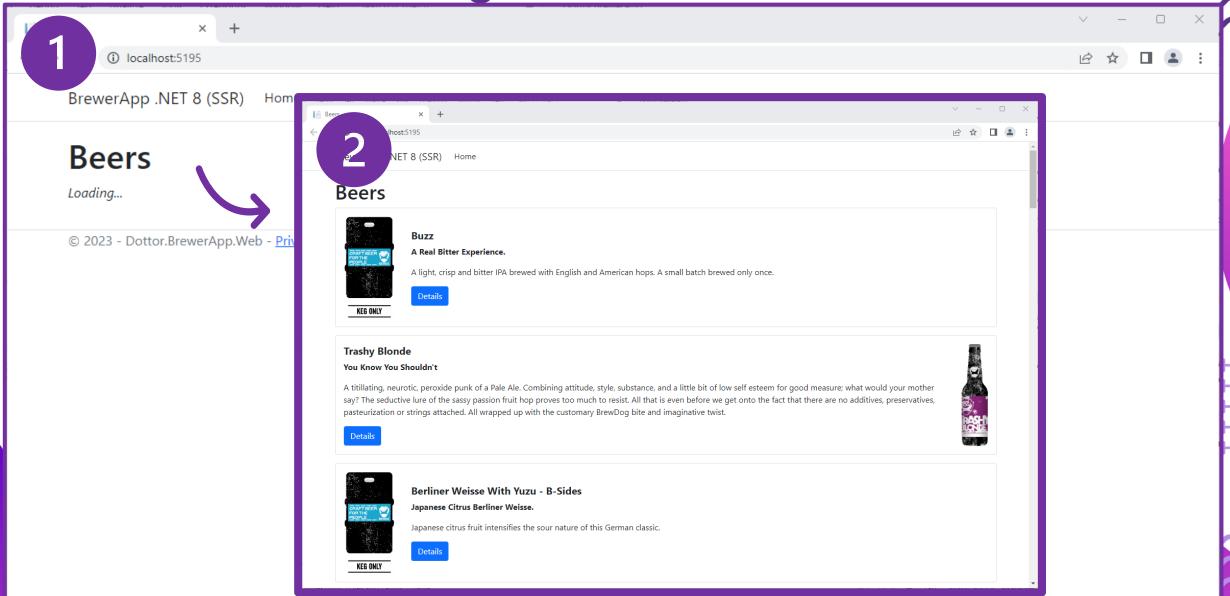














### StreamRendering - html

```
<!--bl:6-->
    <title>Beers</title><!--/bl:6-->
</head>
<body>
    <div class="container">
        <main role="main" class="pb-3"><!--bl:5-->
            <h1>Beers</h1>
            <em>Loading...</em><!--/bl:5-->
        </main>
    </div>
\lceil ... \rceil
```







### StreamRendering - template

```
</html><blazor-ssr><template blazor-component-id="5">
         <h1>Beers</h1>
         <div class="beer-card card mb-3 even">
         </div>
    </template><template blazor-component-id="6"></template><template</pre>
         <title>Beers</title>
    </template></blazor-ssr>
```







 $\stackrel{\sim}{\sim}$ 

Permette di restituire immediatamente l'html della pagina con dei placeholder, che verranno aggiornati una volta che le operazioni asincrone saranno terminate.



Sfrutta un'unica connessione/richiesta http

In coda alla pagina sarà presente il contenuto dei placeholder

Del codice JavaScript si occuperà di aggiornare opportunamente la pagina





Tempo di risposta molto veloce







# Demo









### Form - .NET 8 preview 4

Model-Binding tramite il componente CascadingModelBinder

```
<CascadingModelBinder>
    @Body
</CascadingModelBinder>
```

Recupero dei valori tramite FormDataProvider

```
@inject FormDataProvider FormData

protected override void OnInitialized()
{
    // Manually model bind the form data using the FormDataProvider service
    if (FormData.Entries.TryGetValue("Text", out var text))
    {
        Review.Text = text.First();
    }
}
```







# Form - .NET 8 (in un futuro prossimo)

```
//[SupplyParameterFromForm]
//public Review Review { get; set; }
protected override async Task OnInitializedAsync()
    if (EditContext.IsModified() && EditContext.Validate())
```





# EditForm enhance - .NET 8 (in un†füturo prossimo)

Permette di eseguire il post della form sfruttando JavaScript, ed eseguendo una chiamata fetch in POST, così da non dover ricaricare tutta la pagina

\* Lo stesso comportamento potrebbe essere applicata alla navigazione









#### +++++

## $\approx$

# Demo

Form

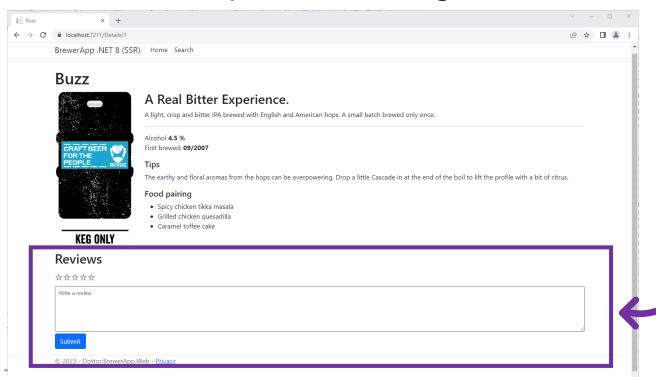




#### Component > rendermode

Abilita a livello di singolo componente il rendering "Blazor Server" o "Blazor WebAssembly"

Possibilità di attivare anche il pre-rendering



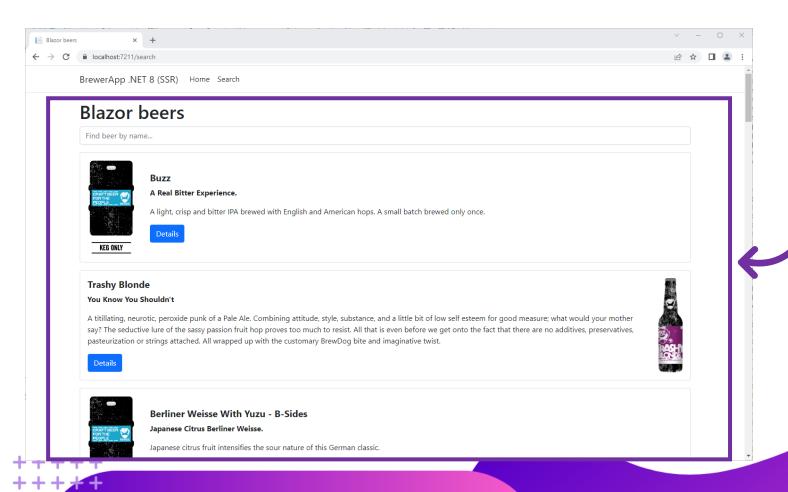






### Page > RenderMode

Potremo specificare il RenderMode a livello di pagina.









# Demo

RenderMode





# RenderMode WebComponentRenderMode.Auto ~

@attribute [ComponentRenderMode(WebComponentRenderMode.Auto)]











# Demo

RenderMode Auto

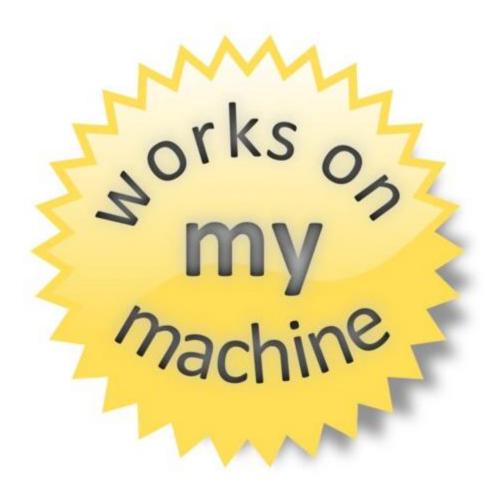






#### ++++

#### works on my machine

















#### +++++

#### Links

- Blazor United prototype (24 gennaio) <u>https://youtu.be/48G\_CEGXZZM</u>
- ASP.NET Community Standup Blazor United in .NET 8 (14 febbraio) https://www.youtube.com/live/kIH\_Py8ytlY
- Milestone .NET 8 Planning <a href="https://github.com/dotnet/aspnetcore/milestone/221">https://github.com/dotnet/aspnetcore/milestone/221</a>
- Full stack web UI with Blazor #46636 https://github.com/dotnet/aspnetcore/issues/46636
- SLIDE e DEMO (BrewerApp)
   https://github.com/andreadottor/BrewerApp















#### Andrea Dottor

Microsoft MVP Developer Technologies



andrea@dottor.net

② @dottor







