

# Full stack web UI con Blazor



Diego Zunino

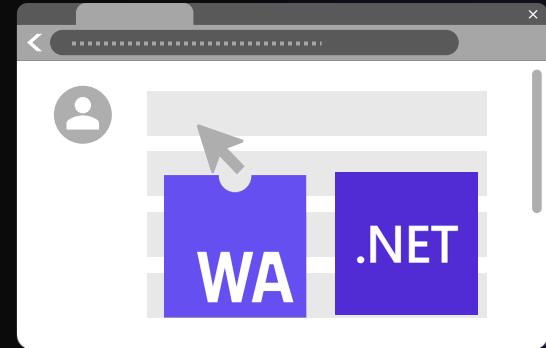
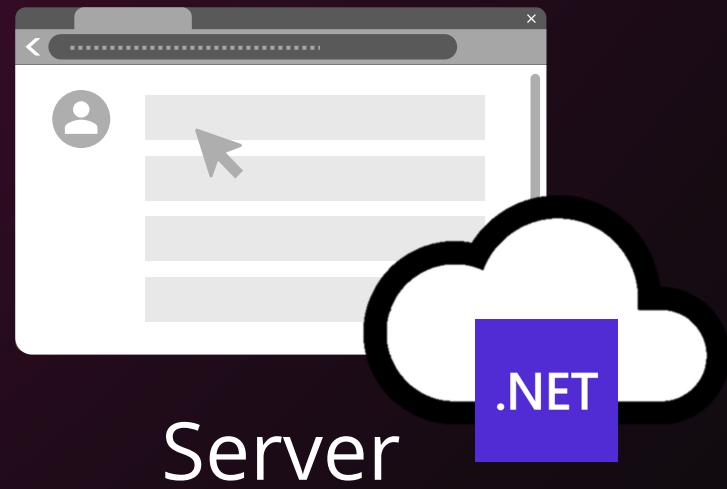
Software Developer / Account Manager @ Ellycode  
[diego.zunino@ellycode.com](mailto:diego.zunino@ellycode.com)

“Blazor is a framework for building  
interactive client-side web UI with .NET”

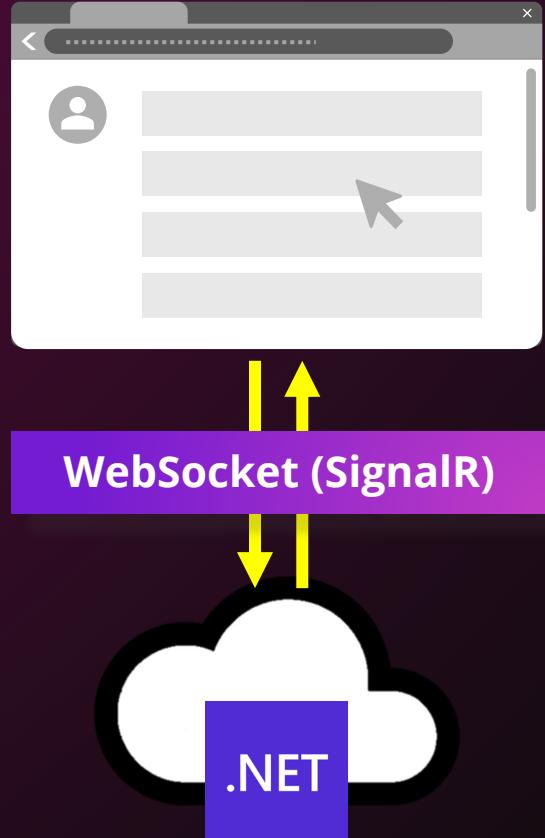
[Choose an ASP.NET Core web UI](#) (pre .NET 8)



# Hosting model



WebAssembly



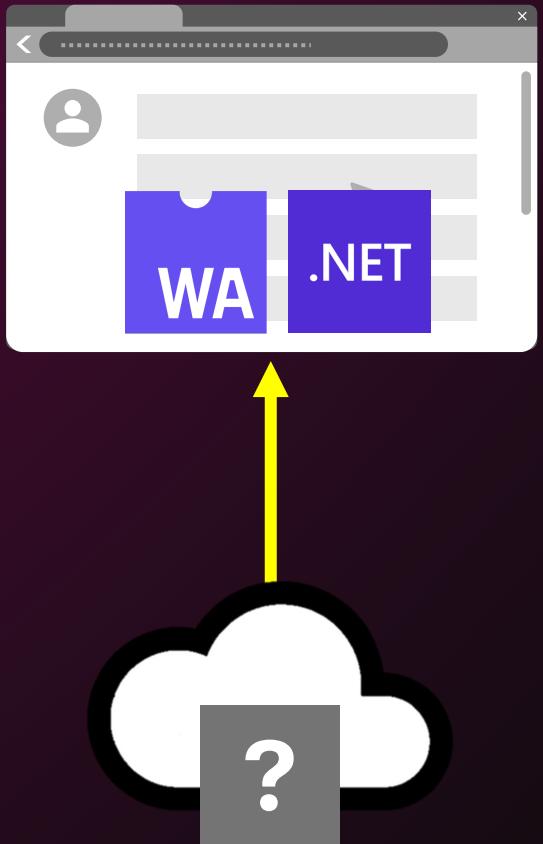
Server

## Vantaggi

- Caricamento
- Runtime (full)
- Sviluppo
- Code security

## Trade-off

- Connettività
- Latenza
- Hosting



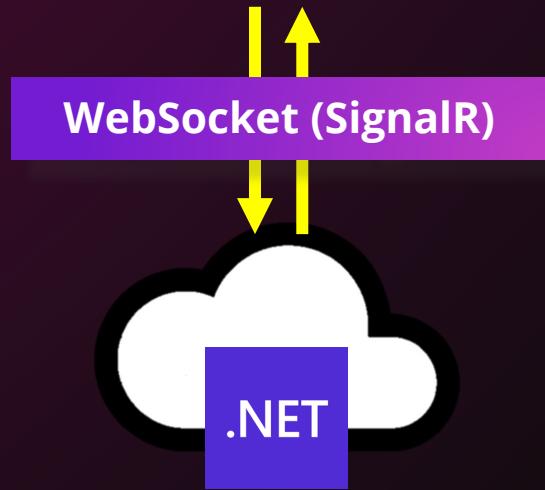
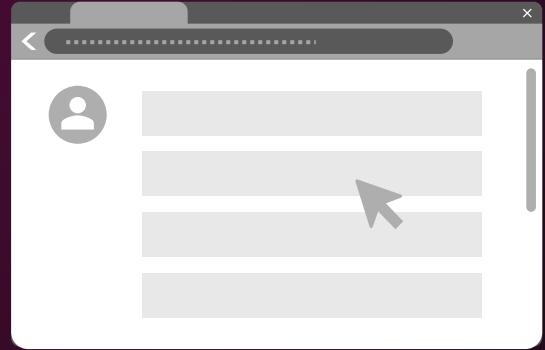
WebAssembly

## Vantaggi

- Connettività
- Latenza
- Hosting

## Trade-off

- Caricamento
- Runtime (ridotto)
- Sviluppo
- Code security



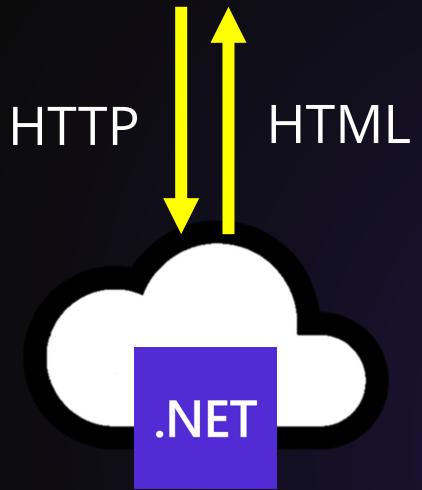
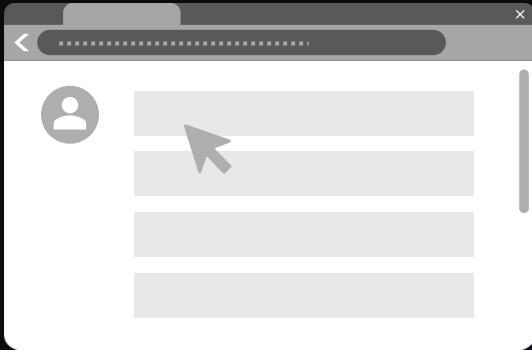
Server



WebAssembly



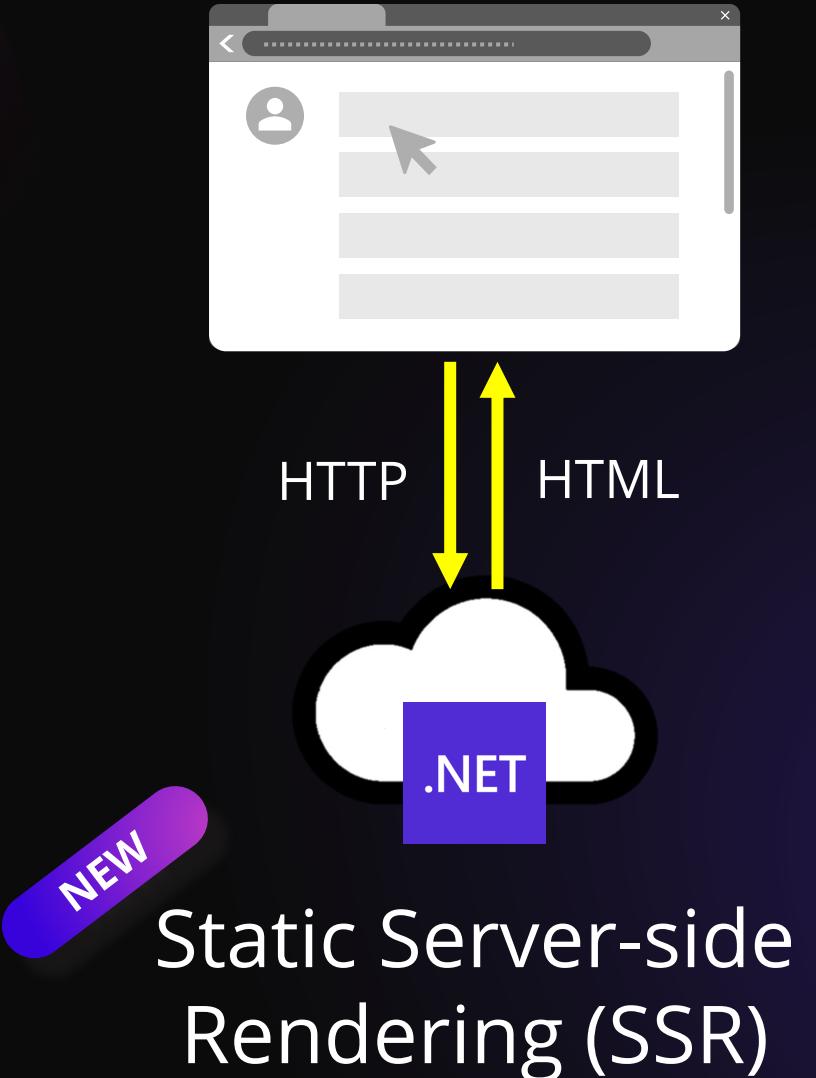
Static Server-side  
Rendering (SSR)



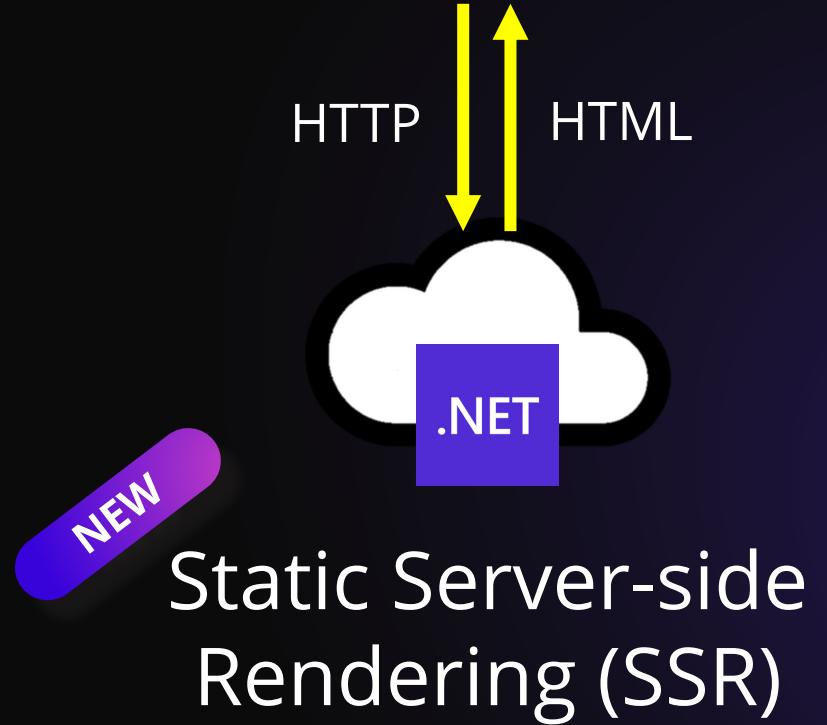
# Vantaggi

- Caricamento
- Connettività
- Latenza
- Hosting
- Runtime
- Sviluppo
- Code security

# Trade-off



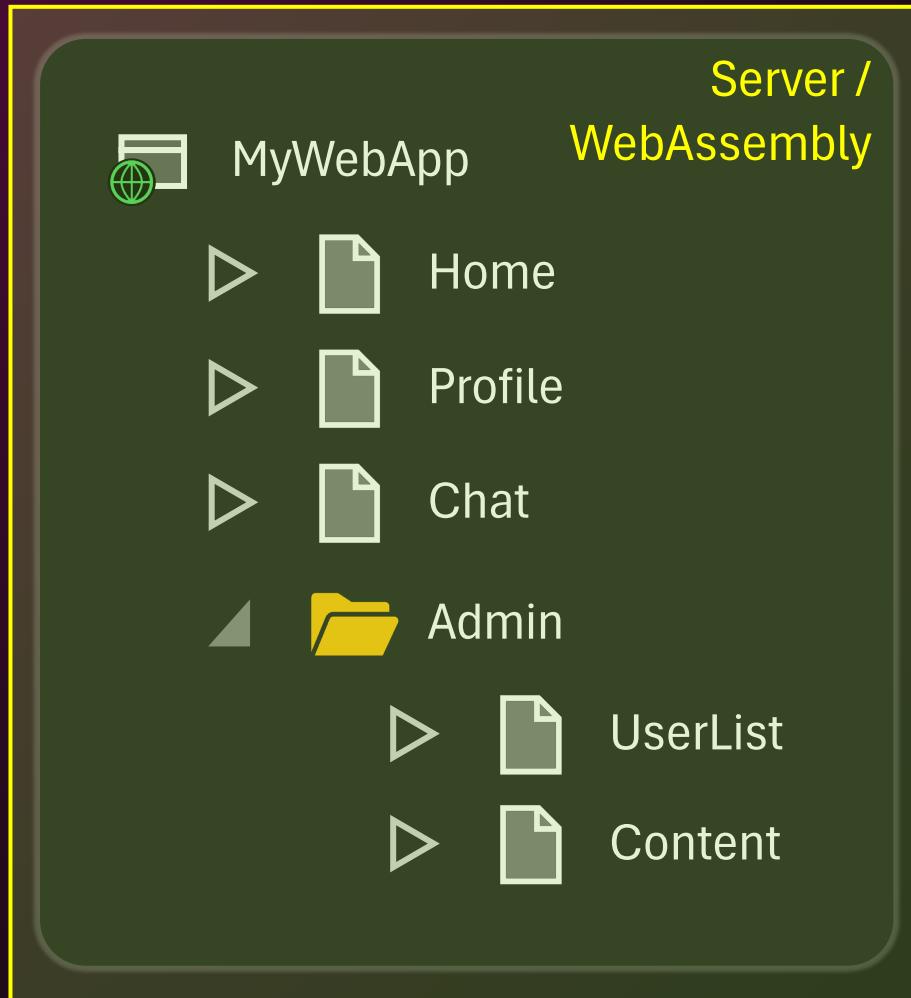
-  Presentazione di contenuti
-  Indicizzazione & SEO
-  Navigazione (link)
-  Form
-  Aggiornamenti real-time
-  Interattività



# Interactivity

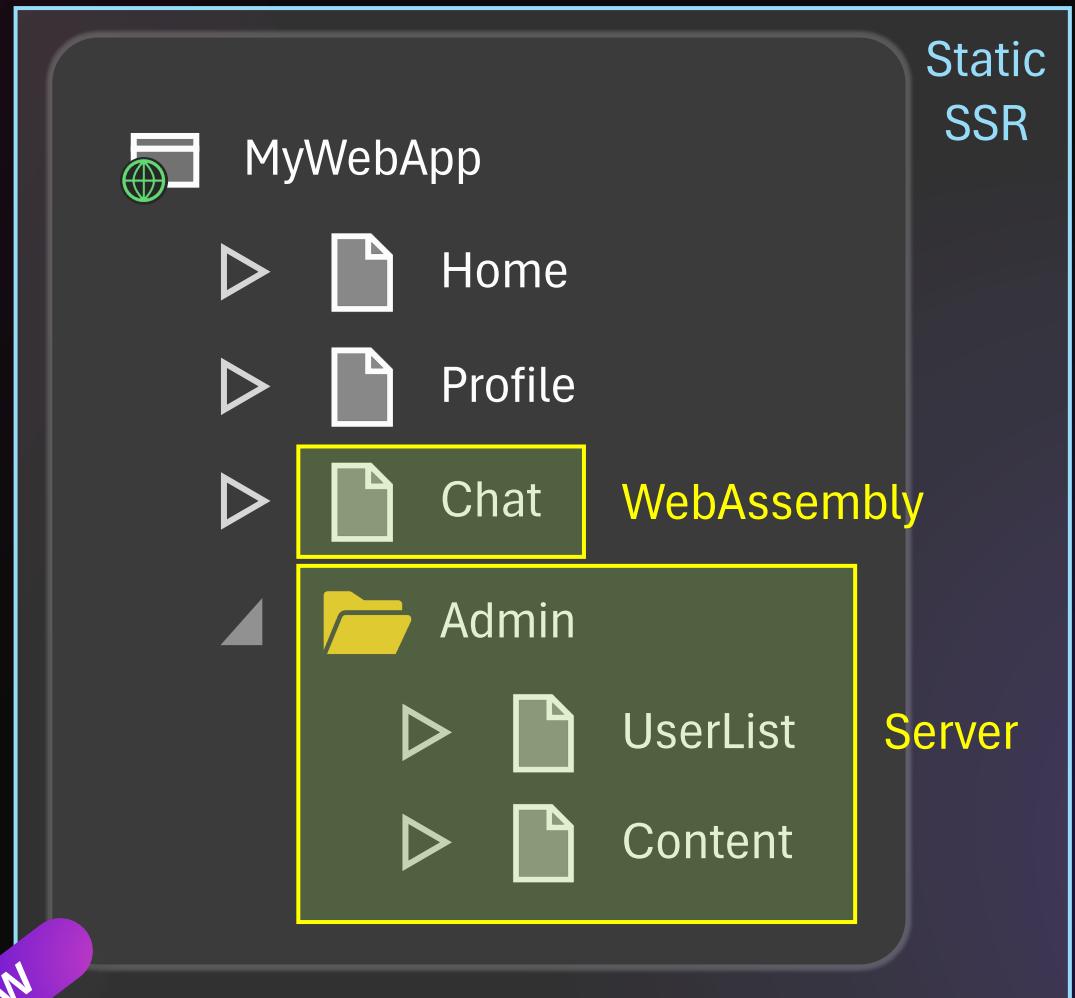


.NET 3-8+



Global interactivity

.NET 8+



NEW

Per page/component interactivity



Server-side  
rendering (SSR)



Client-side  
rendering (CSR)

# Full stack web UI con Blazor



Server & Client

```
104 - ### Server-side Blazor
105 -
106 - Blazor is a framework for building interactive client-side web UI with [.NET](/dotnet/standard/tour):
107 -
108 - * Create rich interactive UIs using [C#](/dotnet/csharp/) instead of [JavaScript](https://www.javascript.com).
109 - * Share server-side and client-side app logic written in .NET.
110 - * Render the UI as HTML and CSS for wide browser support, including mobile browsers.
111 - * Integrate with modern hosting platforms, such as [Docker](/dotnet/standard/microservices-architecture/container-docker).
112 - * Build hybrid desktop and mobile apps with .NET and Blazor.
113 -
```

```
9   9 # Choose an ASP.NET Core web UI
10 10
11 11 ASP.NET Core is a complete UI framework. Choose which functionalities to combine that fit the app's web UI needs.
12 12
13 - ## Benefits vs. costs of server and client rendered UI
14 13 + ## ASP.NET Core Blazor
15 14
15 - There are three general approaches to building modern web UI with ASP.NET Core:
16 15 + Blazor is a full-stack web UI framework and is recommended for most web UI scenarios.
16 16
```

“Blazor is a full-stack web UI framework and  
is recommended for most web UI  
scenarios.”

[Choose an ASP.NET Core web UI](#) (post .NET 8)





## Server & Client

**Static server rendering**

**Enable interactivity per component or page**

**Enhanced navigation & form handling**

**Streaming rendering**

**Auto select the render mode at runtime**

# Enhanced navigation & form handling

La reattività di una SPA senza la necessità di una SPA

- Intercettazione navigazione e form submit (Fetch API)
- Aggiornamento selettivo della UI
- Supporto completo a <form> ed EditForm
- Validazione & Anti-Forgery protection
- Form model binding



# Streaming rendering

**Riduzione dei tempi di attesa per un'esperienza più fluida**

1. Generazione risposta iniziale (placeholder)
2. Risposta Immediata, la connessione rimane attiva
3. Completamento operazioni asincrone
4. Invio dati real-time
5. Sostituzione placeholder



# Interactivity

## Interattività e aggiornamenti real-time

### Interactive render modes:

- Interactive Server-Side Rendering (Blazor Server)
- Client-Side Rendering (Blazor WebAssembly)
- Interactive Auto

### Attribuzione:

- Istanza di un componente
- Definizione di un componente/pagina
- Intera applicazione



# Interactive Auto

WebAssembly senza first-download cost

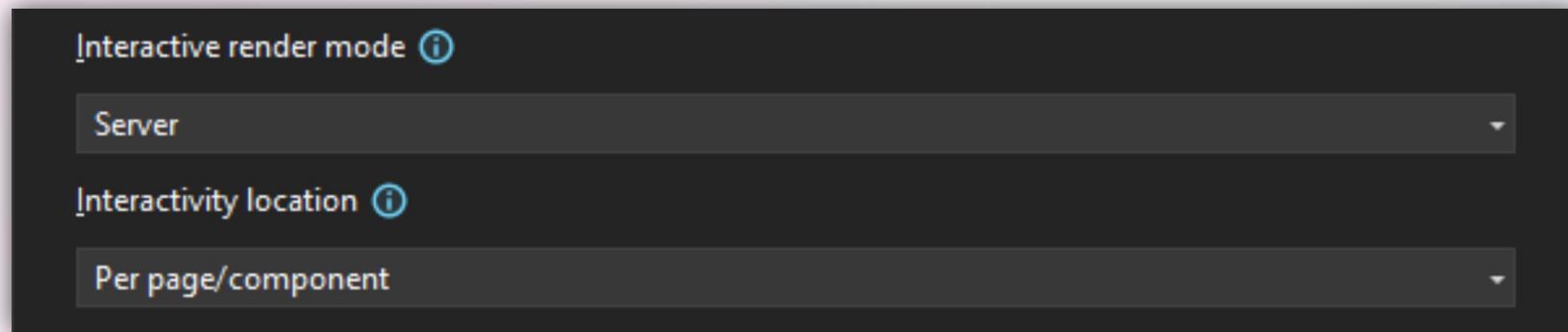
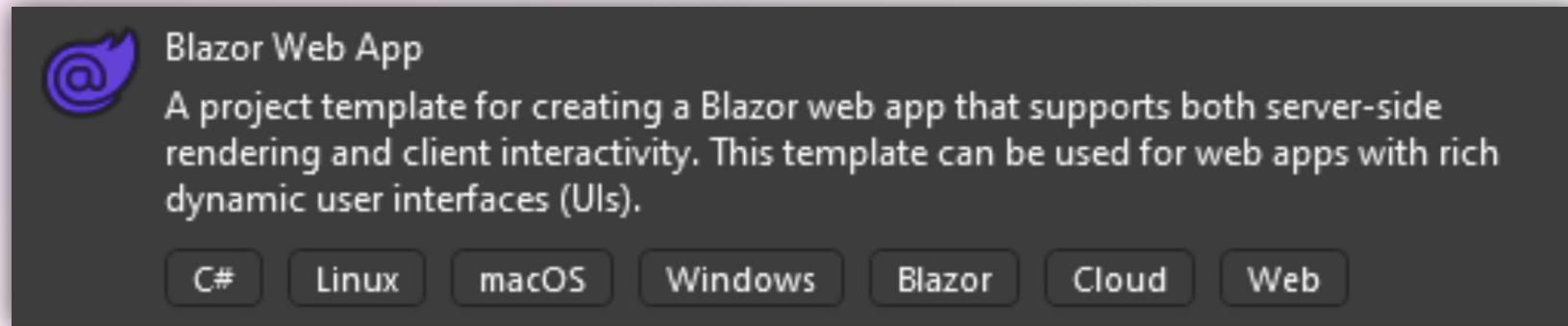
1. Interactive Server-Side Rendering (Blazor Server)
2. Download in Background e Caching di .NET runtime e bundle
3. Client-Side Rendering (Blazor WebAssembly)



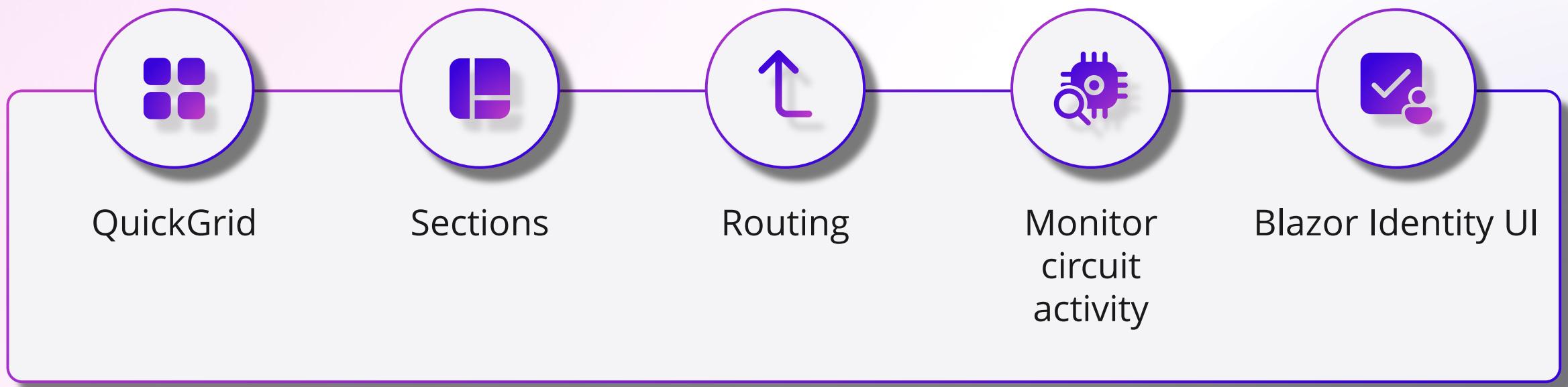
# Demo

Full stack web UI con Blazor

# Template “Blazor Web App”



# Altre novità in .NET 8



# .NET WebAssembly



Jiterpreter

**20% faster UI rendering**

**2x faster JSON deserialization**

Hot reload  
improvements

Web-friendly  
packaging (Webcil)

SIMD & exception  
handling

CSP compatibility

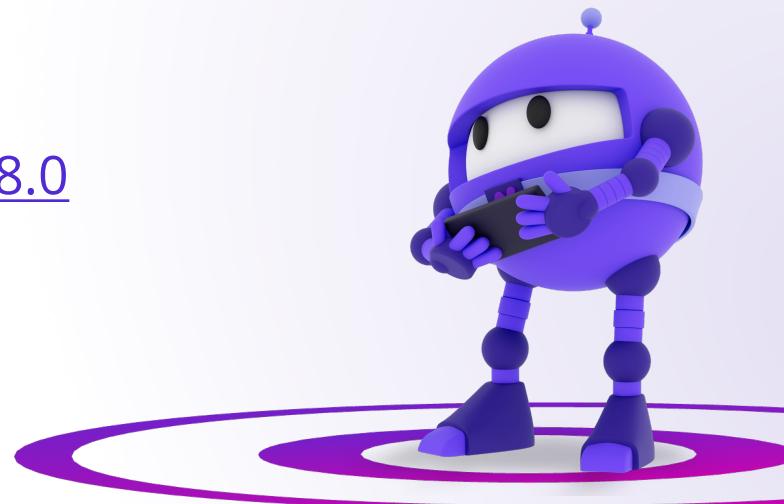
# Resources

Download .NET 8  
[aka.ms/get-dotnet-8](https://aka.ms/get-dotnet-8)

Get started with Blazor  
[blazor.net](https://blazor.net)

What's new in ASP.NET Core 8.0  
[learn.microsoft.com/en-us/aspnet/core/release-notes/aspnetcore-8.0](https://learn.microsoft.com/en-us/aspnet/core/release-notes/aspnetcore-8.0)

Full stack web UI with Blazor in .NET 8  
[youtube.com/watch?v=YwZdtLEtROA](https://youtube.com/watch?v=YwZdtLEtROA)



# Grazie!



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