

2023.06

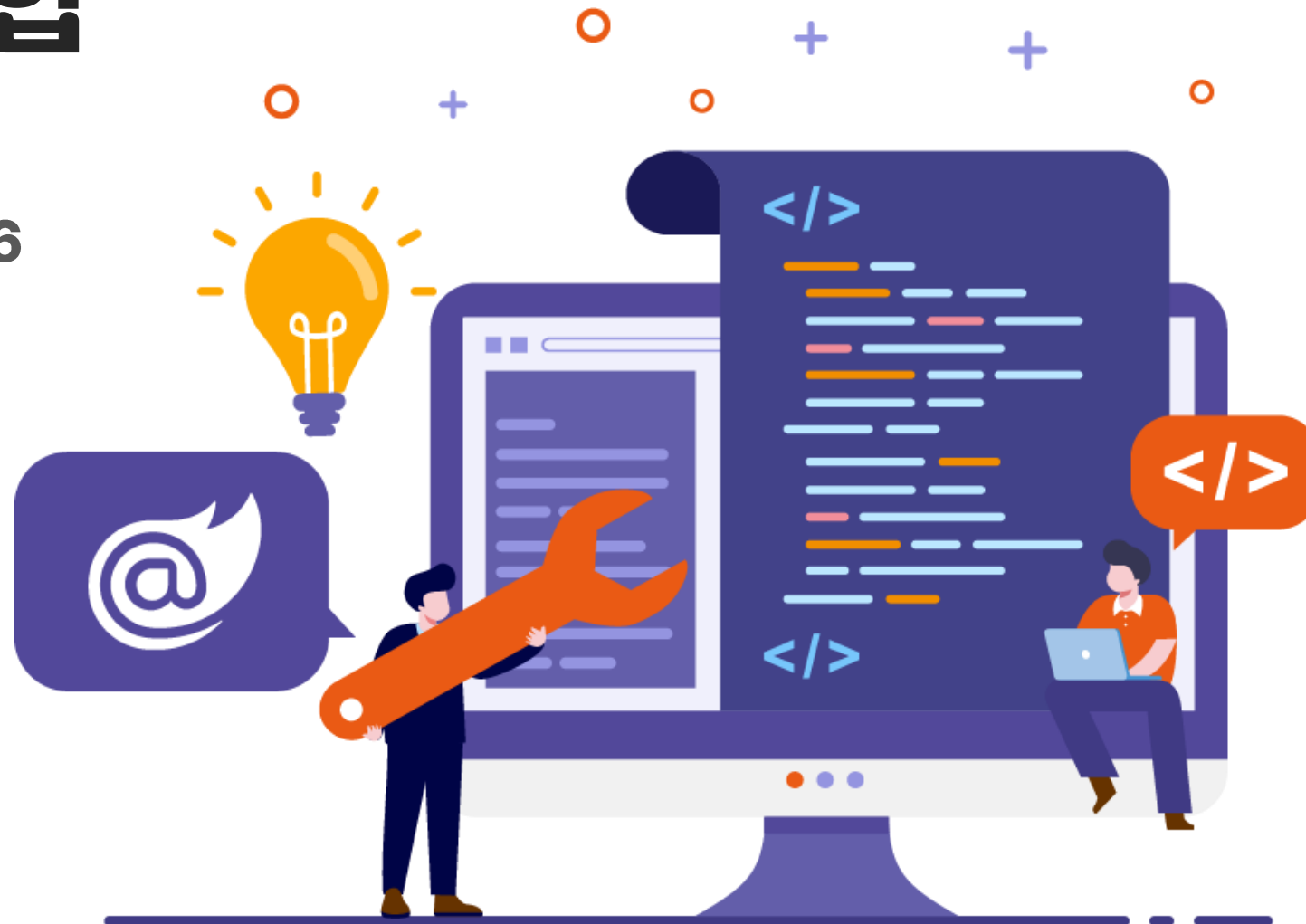
# BLAZOR 밋업

Wi-Fi : Blueport\_Edu

PWD : BLUEport#\$56




## Sessions

- Follow-up
- Review & Extensions





## Speaker

-  김 진석
-  (주)케이에이치시스템즈 대표이사
-  [facebook.com/iamjinseok.kr](https://facebook.com/iamjinseok.kr)

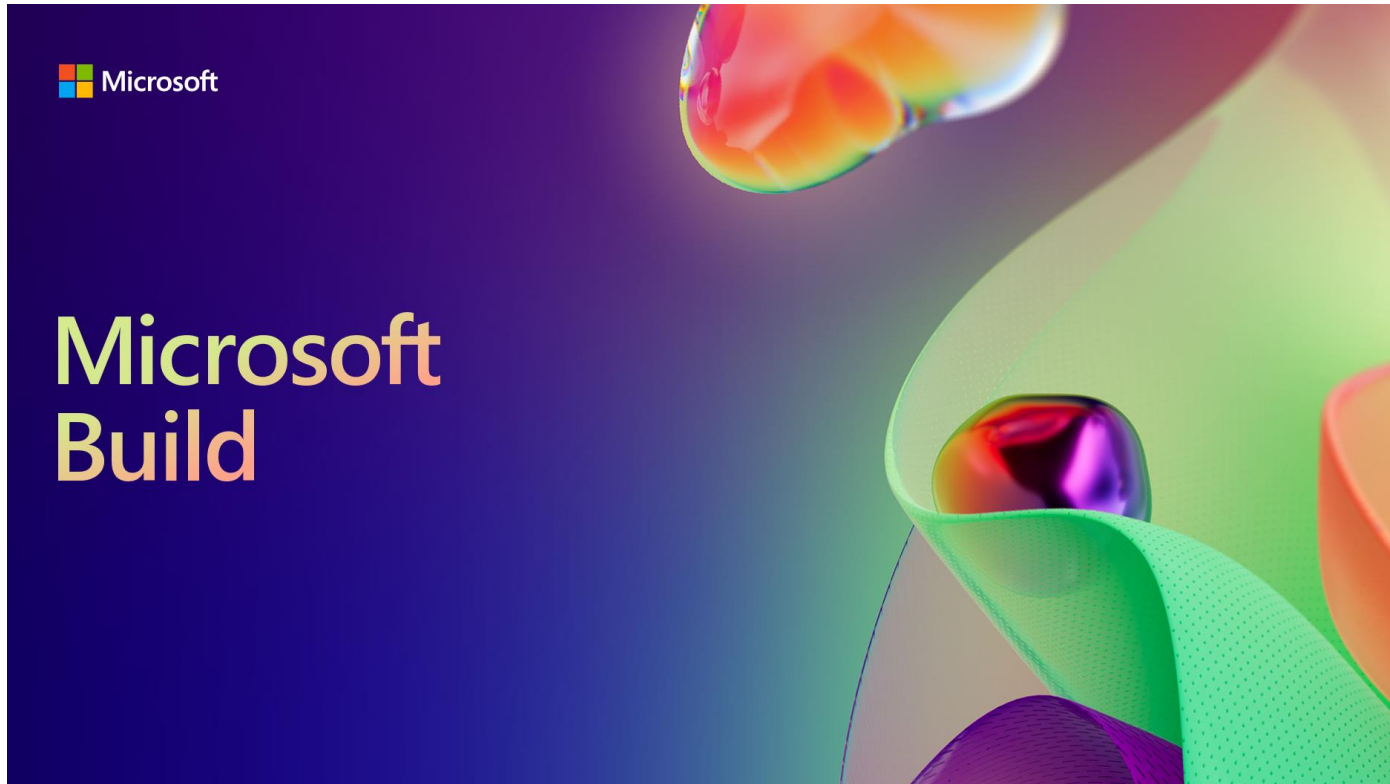
# Follow-up

## Blazor Korea 임의단체 설립 추진



- 2023년 6월 임의단체 설립
- 한국블레이저개발자모임
- Blazor Korea
- Blazor에 대한 정보 및 기술 공유
- 스터디 및 컨퍼런스 지원
- 상호간의 친목도모

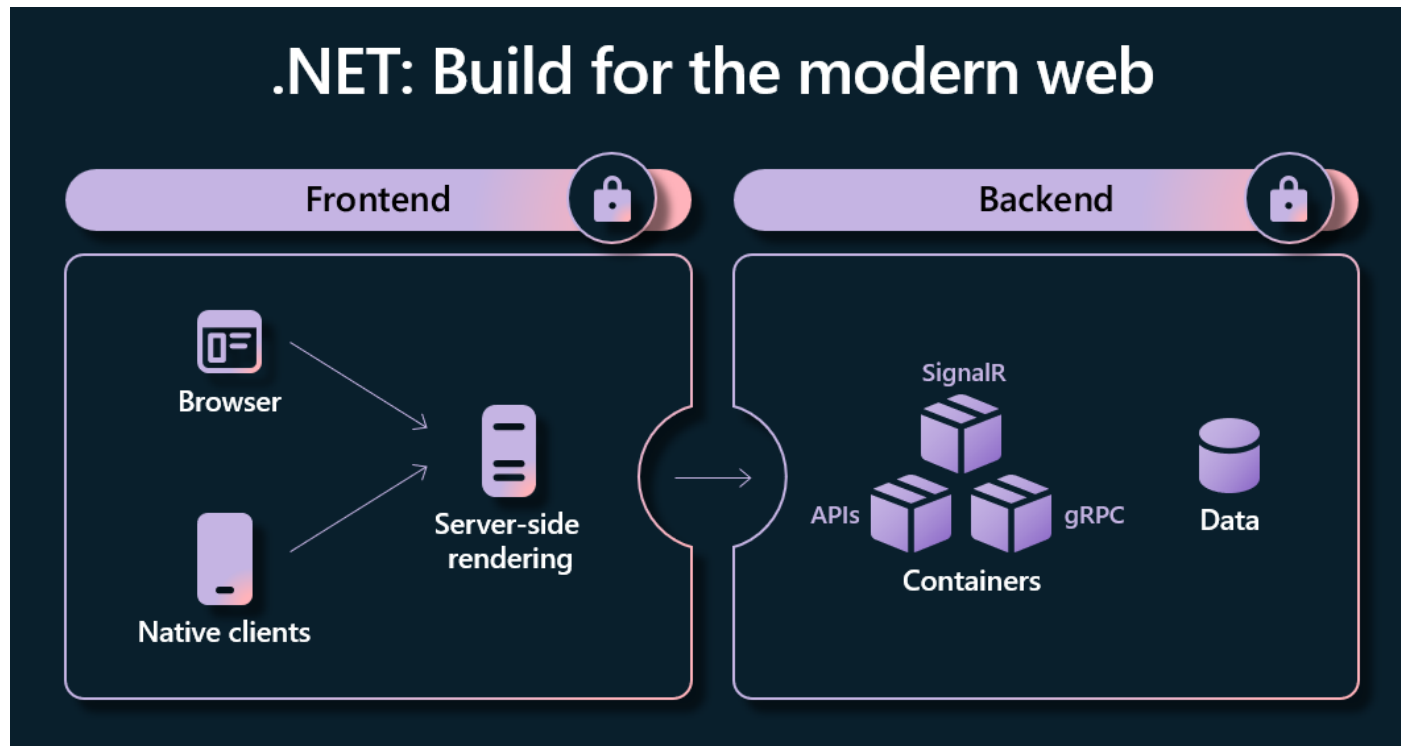
# Microsoft Build 2023



- What's new in .NET 8 for web, frontends, backends, and futures?
- ASP.NET Core and Blazor futures, Q&A

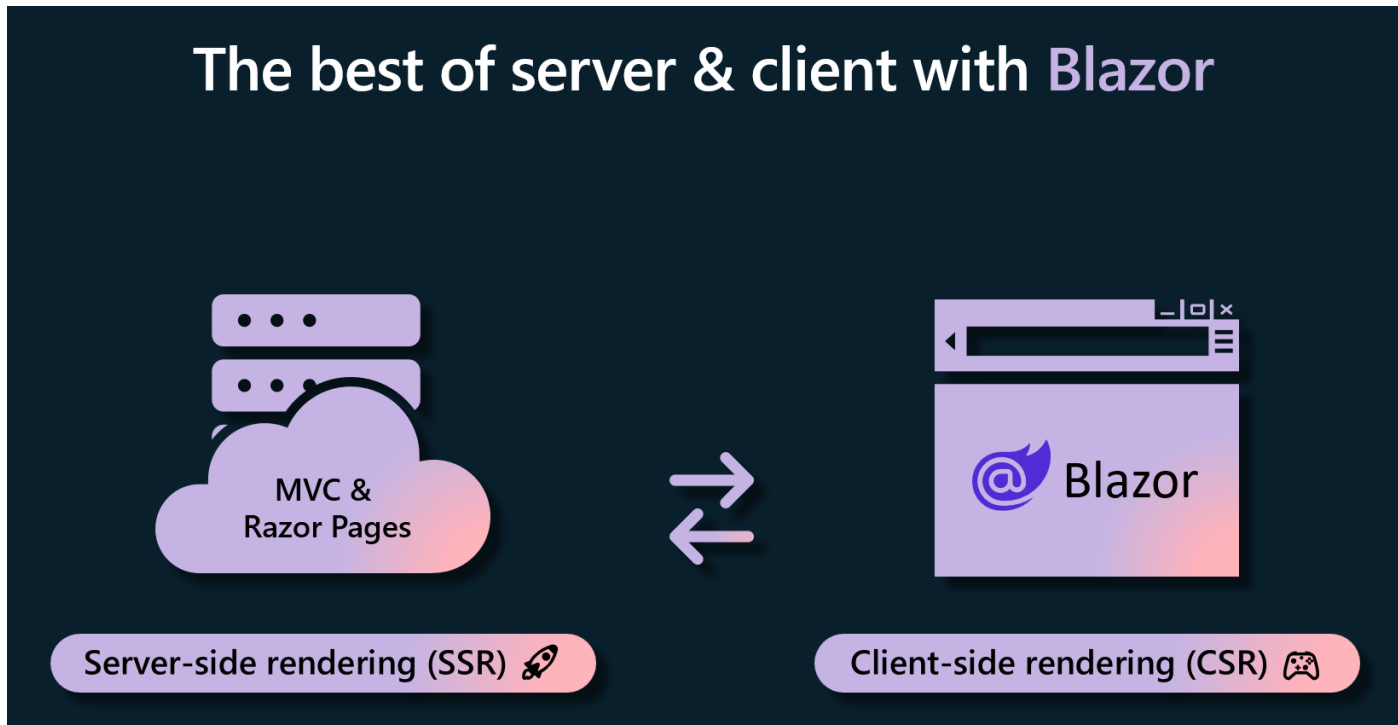
<https://build.microsoft.com/en-US/home>

## What's new in .NET 8 for web, frontends, backends, and futures?



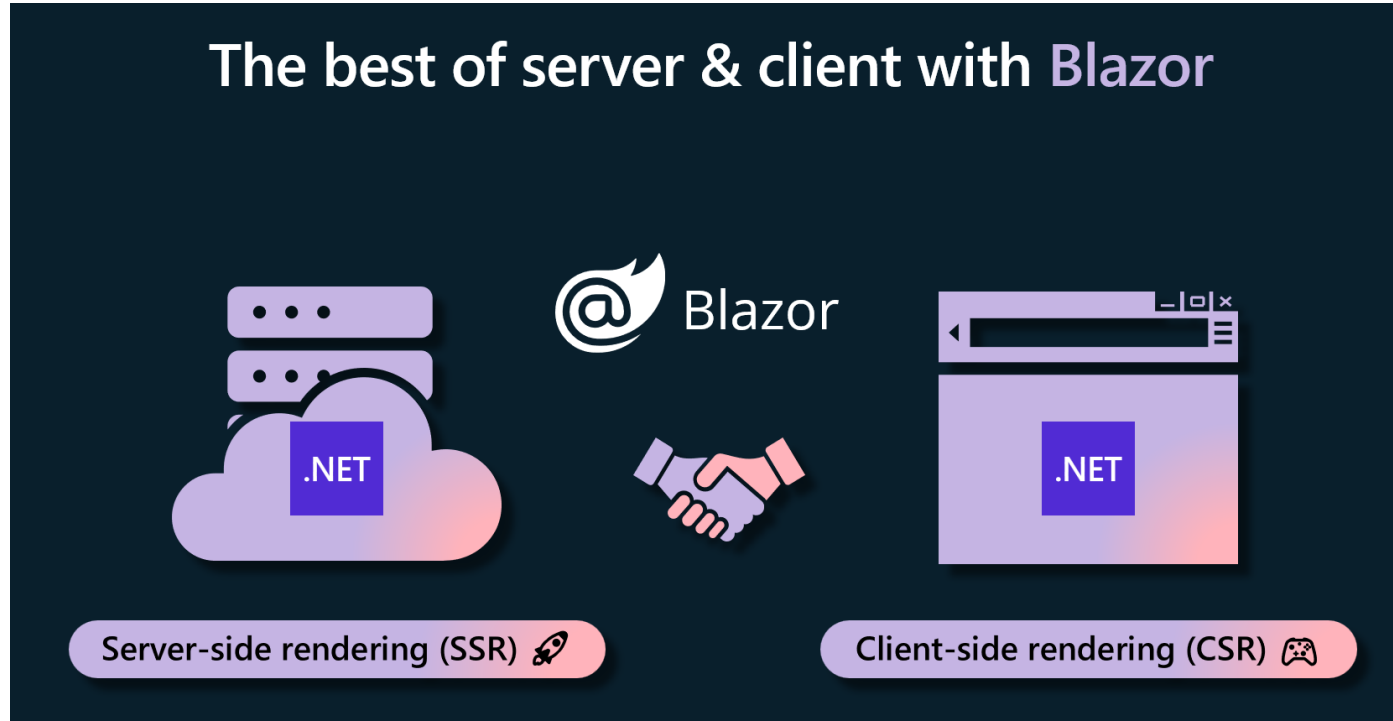
- .NET으로 Web을 개발하는 현재 방법
  - .NET 만으로 개발하는!
- .NET의 강력한 Backend
  - 다양한 Cloud Service와 연동
  - Microsoft Teams : .NET 6
  - Bing : .NET 7

## What's new in .NET 8 for web, frontends, backends, and futures?



- SSR
  - ASP.NET Core WebApp
  - ASP.NET Core MVC
- CSR
  - Blazor Webassembly

# What's new in .NET 8 for web, frontends, backends, and futures?



- Blazor로 통합
- Full stack Web UI
  - Blazor United에서 명칭이 변경?



# What's new in .NET 8 for web, frontends, backends, and futures?

## Full stack web UI with Blazor



Server-side rendering

Enhanced navigation & form handling

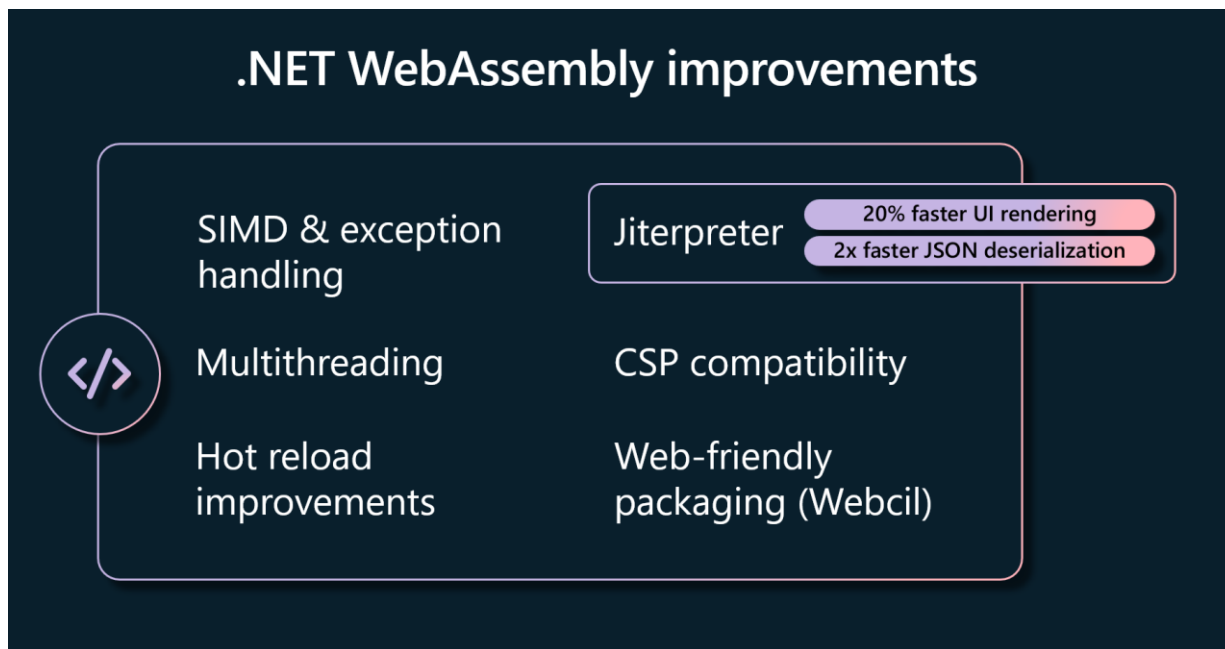
Streaming rendering

Add client interactivity per component or page

Choose component render mode at runtime

- 03:53 / WASM, JS 다운이 없음
- 05:35 / 서버에서 form handling
- 06:19 / SPA스러운 SSR!
- 08:00 / Streaming rendering
- 11:46 / 페이지별로 렌더링 모드 설정

# What's new in .NET 8 for web, frontends, backends, and futures?



- .NET WebAssembly 개선
- 멀티스레딩
- 핫리로드!

## What's new in .NET 8 for web, frontends, backends, and futures?

### Additional Blazor enhancements in .NET 8



QuickGrid



Sections



Route to  
named  
element



Monitor  
circuit  
activity



Improved  
authentication

- 지난 번 Preview에서 언급
- 21:20 / QuickGrid

# What's new in .NET 8 for web, frontends, backends, and futures?

## Frontend web development with Blazor in .NET 8



### Full stack web UI

- Server-side rendering
- Enhanced navigation & form handling
- Streaming rendering
- Add client interactivity per component or page
- Choose component render mode at runtime



### Enhancements

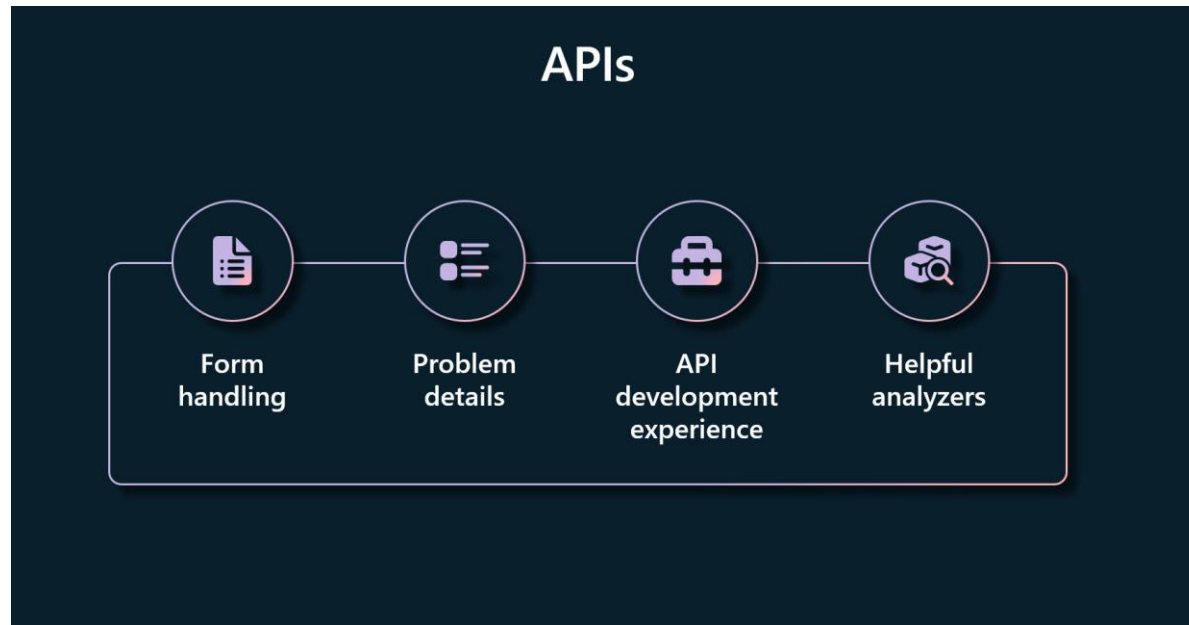
- Generate static HTML content with components
- QuickGrid
- Sections
- Route to named element
- Monitor circuit activity
- Improved authentication



### WebAssembly

- Multithreading
- Interpreter
- Hot reload improvements
- SIMD & exception handling enabled by default
- CSP compatibility
- Webcil packaging

# What's new in .NET 8 for web, frontends, backends, and futures?



- Minimal API / 30:00
- Endpoints Explorer / 32:54
  - Blazor United에서 명칭이 변경된 것으로 보임

# What's new in .NET 8 for web, frontends, backends, and futures?

## Servers and Middleware

### Request timeouts

```
builder.Services.AddRequestTimeouts();  
//...  
app.UseRequestTimeouts();  
//...  
MapGet().WithRequestTimeout(timeout)
```

### Short-circuit middleware

```
app.MapGet("/", () => "Hello World").ShortCircuit();  
//...  
app.MapShortCircuit(404, "robots.txt", "favicon.ico");
```

HTTP/3

Named pipes

- API 별로 편리하게 설정
- HTTP/3 지원

# What's new in .NET 8 for web, frontends, backends, and futures?

## Authentication and Authorization Improvements

### Enhancements for Single Page Applications (SPA)



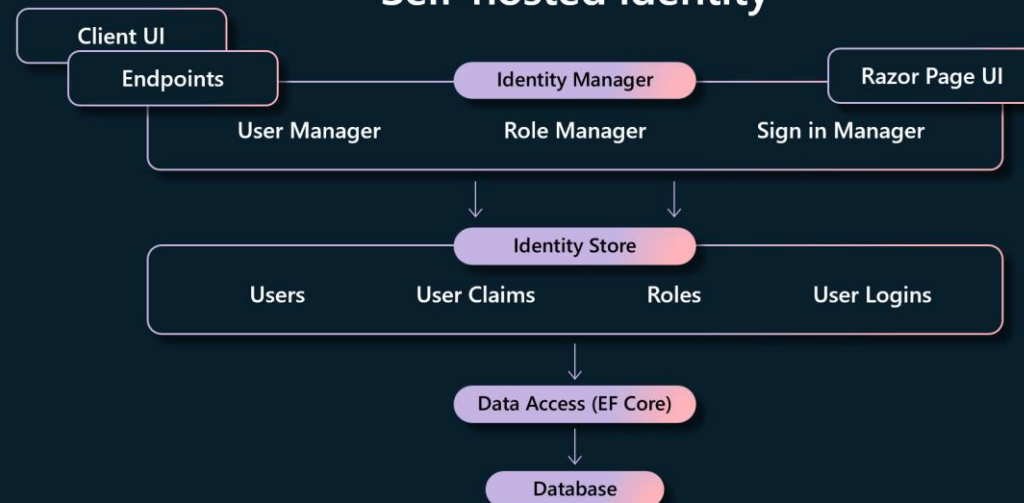
Client-friendly endpoints for identity management

Support for tokens in self host scenarios (without OIDC server)

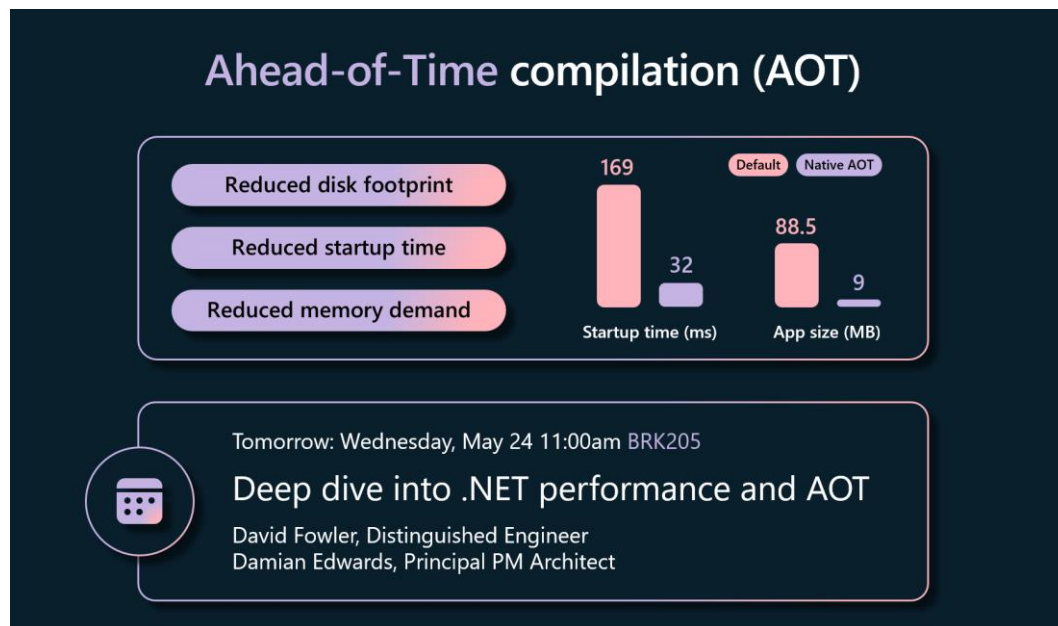
Remove IdentityServer from templates (option for OIDC)

Simplified custom policies with `IAuthorizationRequirementData`

## Self-hosted identity



# What's new in .NET 8 for web, frontends, backends, and futures?



- Native AOT로 좋은 성능



## What's new in .NET 8 for web, frontends, backends, and futures?

# Backend Development with ASP.NET Core in .NET 8



### Servers and middleware

- Native AOT
- Request timeouts
- Route short-circuits
- Metrics
- Named pipes
- HTTP/3 by default



### Client-friendly identity

- Identity endpoints
- Token support
- Remove IdentityServer
- Simplified custom authorization policies



### API productivity

- Route tooling
- Analyzers
- Form binding
- Endpoints explorer
- ProblemDetails
- .http support

## ASP.NET Core and Blazor futures, Q&A



- .NET에 기여? .NET을 쓰는 것과 만드는 것은 매우 다름
- .NET Standard 2.0 is useful
- Blazor는 여전히 많은 부분에서 기능이 필요하고 개선의 여지가 있음
- MVC & Razor Pages에 추가적인 노력을 쏟지는 않을 것
- .NET is really strong on server(36:36)

## .NET 8 Preview 5

### .NET 8 preview 5



- New Blazor Web App Project template
- Blazor router integration with endpoint routing
- Enable interactivity for individual components with Blazor Server
- improved packaging for Webcil files
- Blazor Content Security Policy(CSP) compatibility



*break  
time*

# Review & Extensions

## Review & Extentions



- Blazor Server
- Blazor WebAssembly
  - ✓ PWA
- Blazor Hybrid
- Blazor Native

<https://en.wikipedia.org/wiki/Blazor>

## Review & Extensions

오늘의 도전!

알림창을 구현해보자

# Review & Extentions

Blazor Notifications

About

Home

## Desktop Notifications! Basic

Supported By Browser?

Notifications are supported!

User has permission?

The user's permission is: Default

Notification Title

My Dummy Title

The title will show up at the top of the notification.

Notification Body

Lorem ipsum dolor sit ...

The body will show up below the title.

Notification Icon

images/github.png

The Icon of the notification, loaded from wwwroot/images/

Request Permission

Create Notification

- 알림창
- Nuget Package
- C# Only



# Review & Extentions



- Blazor WebAssembly 앱 프로젝트 만들기


# Review & Extentions

찾아보기


설치됨

업데이트 2


Append.Blazor. x ↻ ☐ 시험판 포함

**Append.Blazor.Printing** 작성자: Benjamin Vertonghen, 96.7K개 다운로드  
Print and Save files in Blazor using the native dialog box using JavaScript Interop.


6.2.0

**Append.Blazor.Notifications** 작성자: Benjamin Vertonghen, 13.7K개 다운로드  
HTML5 Notifications API implementation for Microsoft Blazor


1.1.0

**Append.Blazor.Sidepanel** 작성자: Benjamin Vertonghen, 11.8K개 다운로드  
A powerful and customizable Sidepanel implementation for Blazor applications.


6.3.3

**Append.Blazor.Clipboard** 작성자: Benjamin Vertonghen, 2.13K개 다운로드  
Clipboard API for Microsoft Blazor


1.0.0

**Append.Blazor.Fast** 작성자: Benjamin Vertonghen, 805개 다운로드  
A tiny wrapper around Fast and Fluent Web Components to integrate with Blazor.

1.0.2

**Append.Blazor.WebShare** 작성자: Benjamin Vertonghen, 221개 다운로드  
HTML5 Web Share API implementation for Microsoft Blazor

7.0.0

**Append.AntDesign** 작성자: Benjamin Vertonghen, 2.98K개 다운로드  
Ant Design for Blazor

1.2.1

- Install-Package Append.Blazor.Notifications
- 도구 > NuGet 패키지 관리자

<https://github.com/Append-IT/Blazor.Notifications>

# Review & Extensions

```
1 using Append.Blazor.Notifications;
2 using Microsoft.AspNetCore.Components.Web;
3 using Microsoft.AspNetCore.Components.WebAssembly.Hosting;
4 using NotiWasm;
5
6 var builder = WebAssemblyHostBuilder.CreateDefault(args);
7 builder.RootComponents.Add<App>("#app");
8 builder.RootComponents.Add<HeadOutlet>("head::after");
9
10 builder.Services.AddScoped(sp => new HttpClient { BaseAddress = new Uri(builder.HostEnvironment.BaseAddress) });
11
12 // Notification Service 추가
13 builder.Services.AddNotifications();
14
15 await builder.Build().RunAsync();
16
```

- INotificationService via DI
- Program.cs

# Review & Extentions

```
NuGet: NotWasm | Program.cs
@page "/"
@using Append.Blazor.Notifications
@inject INotificationService NotificationService

<PageTitle>Index</PageTitle>

<h1>Hello, world!</h1>

Welcome to your new app.

<SurveyPrompt Title="How is Blazor working for you?" />

<div class="row">
  <div class="col-md">
```

- using 사용
- inject 서비스

# Review & Extentions

```
index.razor  X NuGet: NotiWasm Program.cs
32 <div class="row">
33   <div class="col-auto mr-auto"></div>
34   <div class="col-auto">
35     <button type="button" class="btn btn-light" @onclick="RequestPermission">Request Permission</button>
36     <button type="button" class="btn btn-primary" @onclick="CreateNotificationAsync">Create Notification</button>
37   </div>
38 </div>*@
39
40 @code
41 {
42   //private bool isSupportedByBrowser;
43   //private string body = "알림창 띄워요~";
44   //private string title = "Blazor Korea";
45   //private string icon = "https://devblogs.microsoft.com/aspnet/wp-content/uploads/sites/16/2019/04/BrandBlazor_nohalo_1000x.png";
46
47   //protected override async Task OnInitializedAsync()
48   //{
49   //   isSupportedByBrowser = await NotificationService.IsSupportedByBrowserAsync();
50   //}
51
52   //private async Task CreateNotificationAsync()
53   //{
54   //   var options = new NotificationOptions
55   //   {
56   //     Body = body,
57   //     Icon = icon,
58   //     Renotify = true // By default a notification is not overwritten, so there can only be one.
59   //   };
60
61   //   await NotificationService.CreateAsync(title, options);
62   //}
63   //private async Task RequestPermission()
64   //{
65   //   await NotificationService.RequestPermissionAsync();
66   //}
67 }
```

- Demo로 보시죠

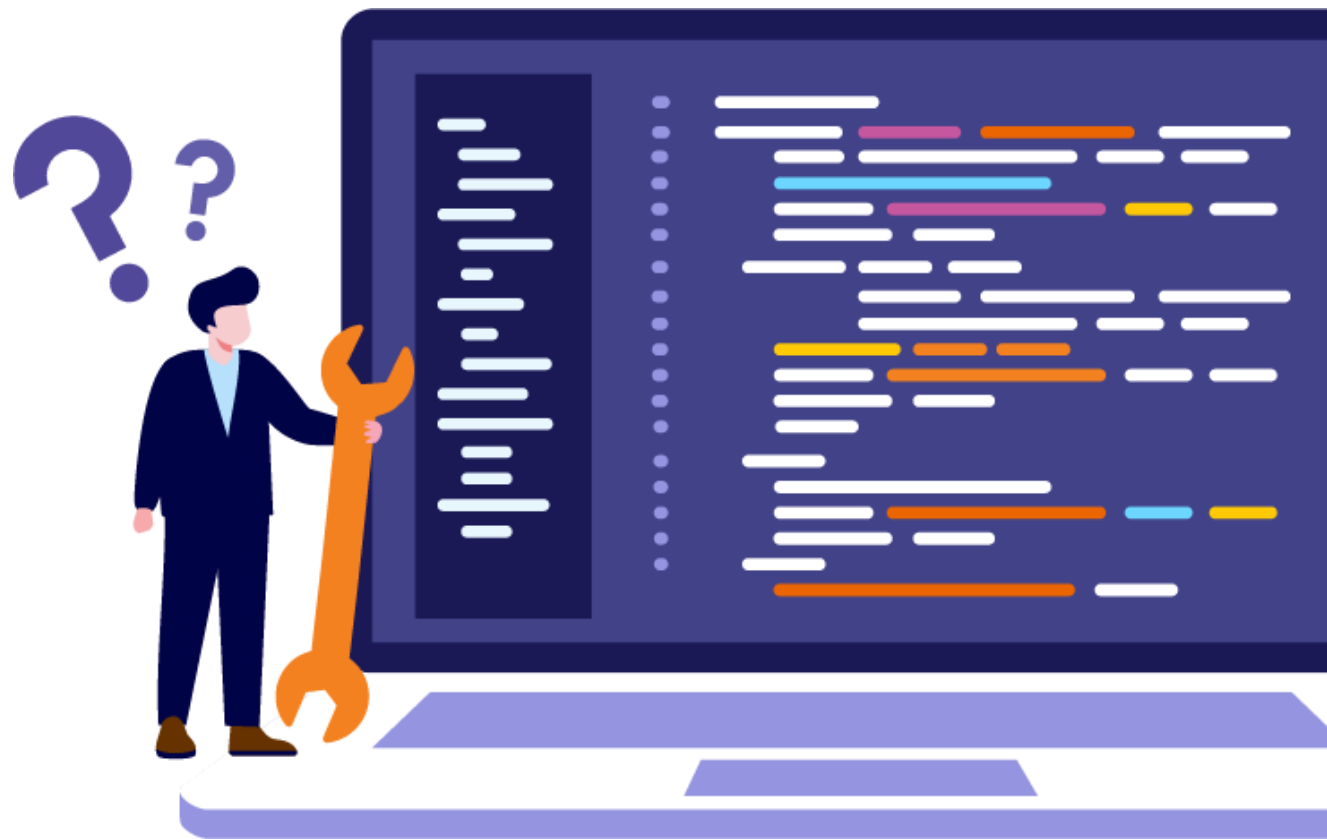
## Q&A

### Blazor Korea User Group

[facebook.com/groups/blazor.korea](https://facebook.com/groups/blazor.korea)

### GitHub

<https://github.com/blazor-meetup>



## 7월 일정



저도 해 보고 싶습니다.

**다음 달(7월) 일정**

**7월 27일(목)**



**THANK YOU**