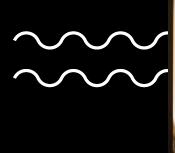






WHO WE ARE



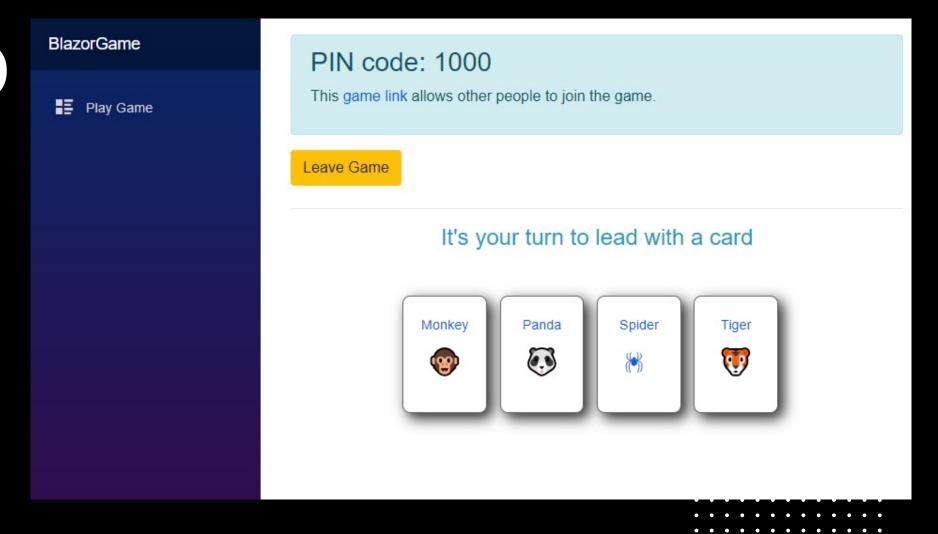




GITHUB REPO



DEMO





Overview



WHAT IS BLAZOR?



BLAZOR FORMS



JS INTEROP



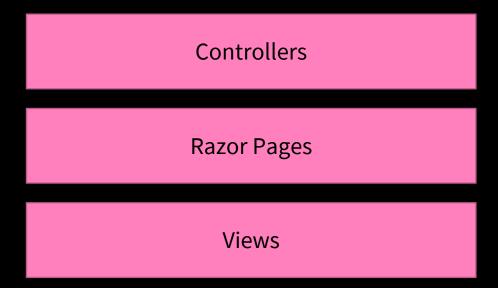
WRAP UP



ASP.NET Core Refresher

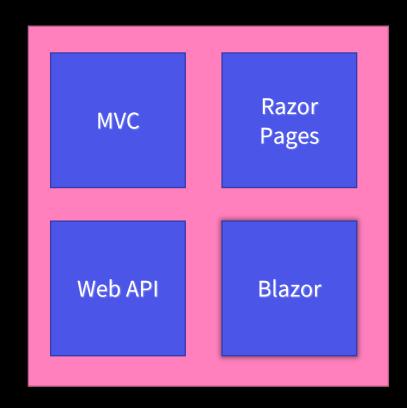
Shared Services

- Hosting CreateHostBuilder
- Middleware
- Dependency Injection
- Routing
- Configuration
- Razor page compilation





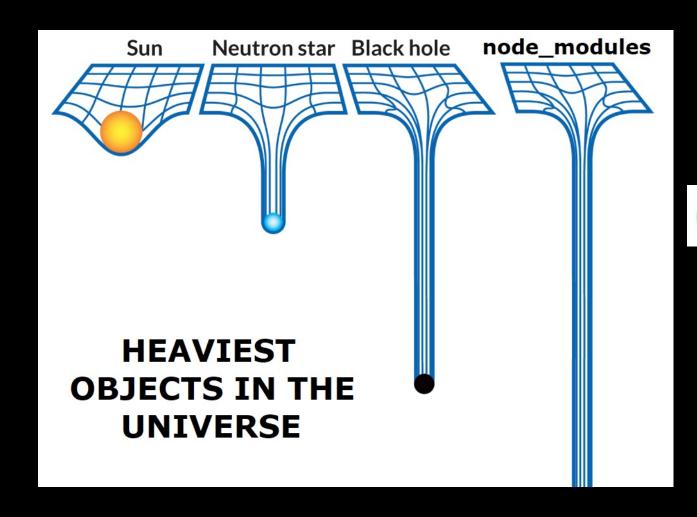
ASP.NET Core Project Types



Blazor Server App	blazorserver	[C#]	Web/Blazor
Blazor WebAssembly App	blazorwasm	[C#]	Web/Blazor/WebAssembly
ASP.NET Core Web App (Model- View-Controller)	mvc	[C#], F#	Web/MVC
ASP.NET Core Web App	webapp, razor	[C#]	Web/MVC/Razor Pages
ASP.NET Core Web API	webapi	[C#], F#	Web/WebAPI



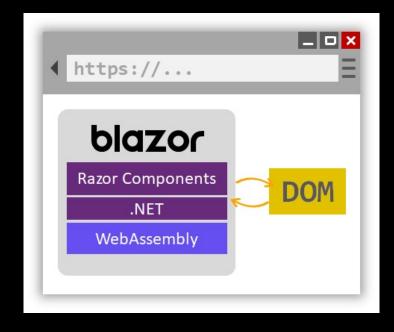
A typical SPA application...



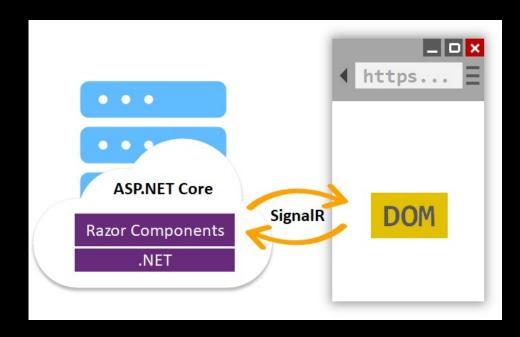


Zach Leatherman @zachleat · Feb 26 the javascript bundles will continue loading until morale improves

What's Blazor?



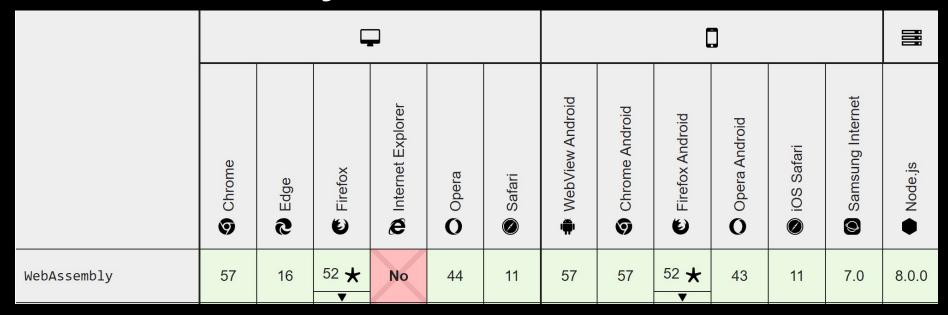
Blazor WebAssembly



Blazor Server



WebAssembly (WASM)





World Wide Web Consortium (W3C) brings a new language to the Web as <mark>WebAssembly</mark> becomes a W3C Recommendation

Following HTML, CSS and JavaScript, WebAssembly becomes the fourth language for the Web which allows code to run in the browser

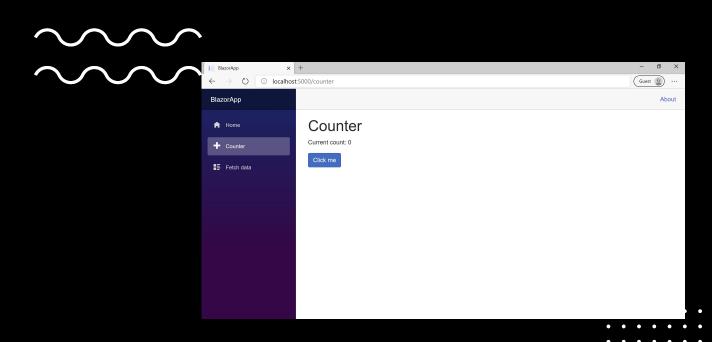
Productivity

Enhance Existing Unstructured Capabilities Innovation/ Experimentation Manage Complexity Add New Capabilities Add New Capabilities **Enhance Existing** Capabilities Unplanned Work / Interruptions Manage Complexity Unplanned Work / Interruptions Unplanned Work / Interruptions Do this ... Not this ... or this will happen









https://github.com/sahan91/BlazorTalk-ADNUG/tree/main/Demo-1-SimpleCounter

Recap

- C# and .NET Framework
- Single auth model
- 1 Framework
- 1 build system and package manager
- Shared code e.g. Types, HttpClient, IOptions
- xUnit tests

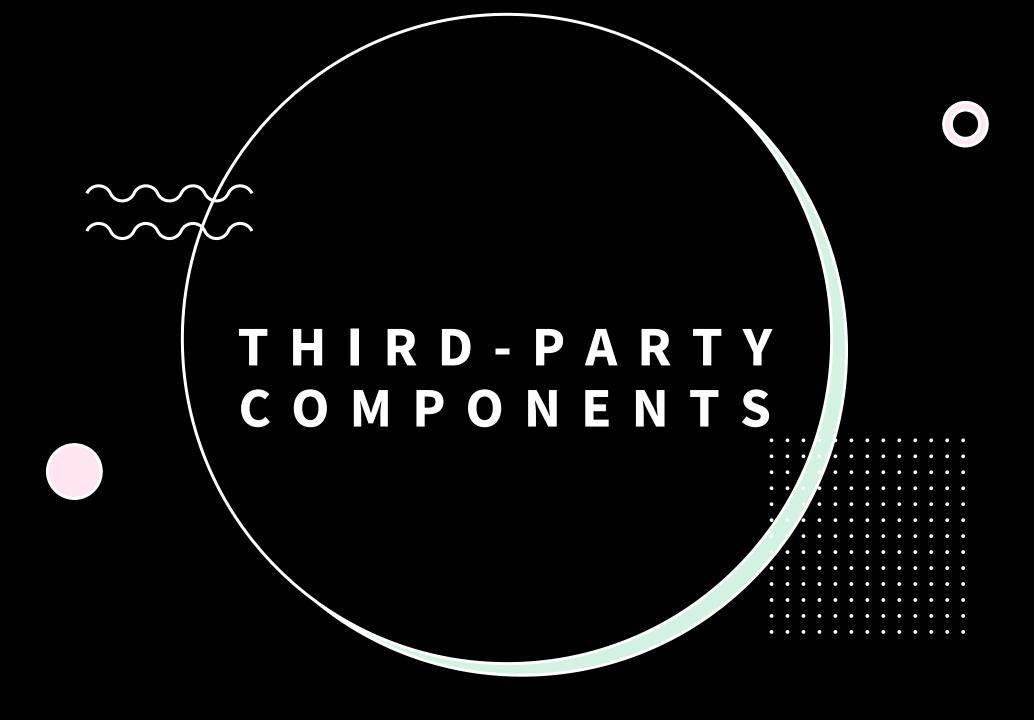


D E M O

BLAZOR FORMS & VALIDATION

	A
Country	
Select country	<u> </u>
Email	
name@example.com	
Confirm Email	
name@example.com	
Password	
	(9)

Submit



What's out there

Authentication

- BlazorBoilerplate Stars 1.3k last commit march. Real World Admin Dashboard / Starter kit with IdentityServer4 Material Design. Demo.
- BlazorWithIdentity stars 247 last commit murch
 A sample project showcasing a Blazor app using EF Core with Identity authentication.
- Authentication with client-side Blazor stars 149 last commit January 2020 Authentication with client-side Blazor using WebAPI and ASP.NET Core Identity. Blog post.
- TheldServer stars 194 last commit yesterday OpenID/Connect server base on IdentityServer4.
- Blazor and Identity Server Istans 77. Inst commet pay 2000. This project demonstrates how to secure a Blazor
 WebAssembly application with a standalone Identity Server instance and use it to acquire a token for a protected
 API.
- Blazor-WASM-Identity-gRPC stars (3) last commit february Blazor WASM, IdentityServer4 & gRPC with roles authorization.
- BlazorGraphApi stars 25 last commit october 2020. Blazor Server App with AD Authentication, that calls the MS Graph API on-behalf of the signed-in user using Microsoft Identity Web.
- Blorc.OpenIdConnect last commit yesterday The right way to use OpenID Connect on Blazor.
- Blazor-WASM-Azure AD-gRPC last commit november 2020 Blazor WASM, Azure AD, REST & gRPC.
- Blazor-WASM-Auth0-gRPC last commit July 2020 Blazor WASM, Auth0, REST & gRPC.
- Blazor WebAssembly and Azure Active Directory last commit Inovember 2020 Blazor WebAssembly application secured with Azure Active Directory. This source code is related to an article on Medium: Securing a Blazor WebAssembly application with Azure Active Directory.
- Blazor Authentication Extension for Azure Static Web Apps last commit july 2020 Blazor Authentication Extension for Azure Static Web Apps.
- Quiz manager secured by Auth0 last commit July 2020. This repository contains a Blazor WebAssembly application
 implementing a sinple Quiz manager secured by Auth0. The implementation details are described in the
 following article: Securing Bazor WebAssembly Apps.
- Blazor-WASM-Identity-gRPC-Alexa last commit January
 Blazor WASM, IdentityServer4 , gRPC with roles authorization & Alexa Skill Backend

Cloud

- BlazorFile2Azure stars 19 last commit april 2020 Upload a file from Blazor WebAssembly to Azure Blob Storage.
- Blazor WASM Deployment Last commit acoust 2000 Sample repo for showing Actions to deploy a Blazor app to Azure services.
- Blazor JobBoard last commit July 2020 Blazor WebAssembly based jobboard application deployed to Azure Storage Static Site. Demo.
- EventGrid Viewer Blazor stars 12 last commit july 2020. Blazor Server app that displays EventGrid messages in realtime & allows the ability to secure the app using Azure AD. KevVault & Managed Identities.

CMS

- Blogifier stars 799 last commit last friday ASP.NET Core Blogging application with Blazor Admin Dashboard.

 Damo
- eShopOnBlazor stars 208 last commit december 2020 Migration of a traditional ASP.NET Web Forms app to

 Plazor

 Plazor

 The plazor
- RapidCMS stors 150 last commit merch A code-first, extensible Blazor app that generates a CMS for your own database.
- JHipster.NET stars 145 last commit. Today. JHipster is a well-known platform for generating modern application in
 java world. JHipster provides a blueprints system that allows to override the default behavior of the generator.
 JHipster.NET is a blueprint that overrides the back-end part, originally generated in spring boot, by back-end in
 asp.net core. For the front-end all the common language can be used (angular, react), including Blazor.
- BlazorForum stars 60 last commit november 2020 Forum application built with Blazor.
- BlazorShop stars 112 last commit november 2020 Simple shop application built with Blazor WebAssembly.
- Atlas stars 90 last commit march A forum software built with ASP.NET Core Blazor WebAssembly.
- Gitter stars 36 last commit June 2020 A Blazor Gitter client.
- AcBlog stars 22 last commit inovember 2020. A blogging PWA that can be hosted as a full static website or as a server-prerender dynamic website. GitHub Pages Demo.
- BlazingOrchard 1849 48 best commit Invommer 2020. Blazing Orchard is a modular application framework that turns your Blazor project into a CMS-powered Blazor application by leveraging Orchard Core as a decoupled backend/CMS server using its REST & GranbOL APIs.
- BlazorGhost last commit september 2020 A Blazor frontend for Ghost blogs.
- BlazorWPBlog last commit november 2020 Wordpress blog with Blazor.

loT

PresenceLight : Hasts 274 last commit last tuesday PresenceLight is a solution to broadcast your various statuses to a Phillips Hue or LIFX light bulb. Some statuses you can broadcast are: your availability in Microsoft Teams, your current Windows 10 theme, and a theme or color of your choosing. Blog post. Demo video.

Logging

Logging.Samples - last commit november 2020 Samples for .NET Core and ASP.NET Core logging using various logger frameworks.

Machine Learning

- Scalable sentiment analysis stars 3.1k last commit last tuesday. A sample ables to make sentiment analysis prediction/detection of what the user is writing in a very UI interactive app (Blazor based) in the client side and running an MLNET model (Sentiment analysis based on binary-classification) in the server side.
- optimizer.ml stars 36 last commit July 2020 A "server-less" general purpose optimization suite for algorithm parameters. Also provides offline optimization of Quantconnect Lean trading algorithms. Demo (https://optimizer.ml).
- Baseball Machine Learning Workbench | stars | 22 | last commit | march | A web application that showcases performing what-if analysis using in-memory Machine Learning models. Live demo.
- PropertyPrices last commit april 2020. A blazor front-end site that provides analysis and ensemble learning
 predictions (through SharpLearning) of property prices in the UK. Demo (https://propertyprices.org.uk).
- BlazorML5 last commit december 2020 ML5 Machine Learning for Blazor with JSInterop mechanism.
- BlazorChifoumi last commit may 2020 Exploring machine learning with a Chifoumi game.

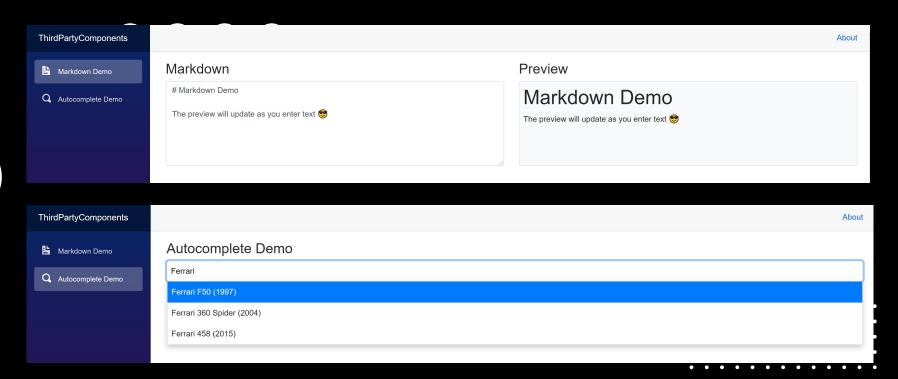
Mobile

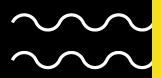
• Mobile Blazor Bindings - Experimental Mobile Blazor Bindings - Build native mobile apps with Blazor.



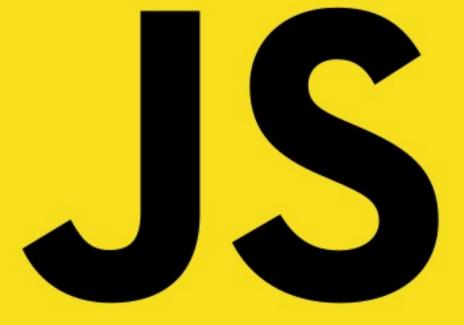


DEMO THIRD PARTY COMPONENTS





DEMO JSINTEROP



Summary

- Routing and Navigation
- Authentication Providers
- Cascading Parameters
- Forms and Validation
- Vendor Support <u>Telerik Stocks</u>, <u>MatBlazor</u>
- Themes of .NET
- https://github.com/dotnet/MobileBlazorBindings



Resources

- <u>awesome-blazor</u>
- Blazor Train
- GitHub repo for this presentation



T H A N K Y O U Q U E S T I O N S F E E D B A C K