

# ASP.NET - Application development in Blazor

Course code: ASPNET\_BLAZOR

ASP.NET Core Blazor, as the full name of Blazor sounds, allows C# developers to create web application user interfaces without having to use javascript. In the course, we will get acquainted with the Blazor Server and Blazor WebAssembly host models, and explain the fundamental differences between them. We will answer the question for which scenarios which model is suitable. We will show how the user interface is created using components and how these components can work together, we will learn how to create forms with user input validations. We will also look at the possibility of creating multiple language versions of the application. Although we will show how we can work with javascript in C # code, its knowledge is not needed for the purposes of the course or for the development of applications in Blazor.

Affiliate	Duration	Course price	ITB
Praha	2	10 800 Kč	20
Brno	2	10 800 Kč	20
Bratislava	2	460 €	20

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
06.02.2025	2	10 800 Kč	Online	CZ/SK	GOPAS Praha online
06.02.2025	2	460 €	Online	CZ/SK	GOPAS Bratislava online
14.04.2025	2	460 €	Presence	CZ/SK	GOPAS Bratislava prezenčne
16.06.2025	2	460 €	Online	CZ/SK	GOPAS Bratislava online
16.06.2025	2	10 800 Kč	Online	CZ/SK	GOPAS Praha online

The prices are without VAT.

## Required input knowledge

- Knowledge of C# programming at the GOC2125 course level
- Basic knowledge of
- ASP.NET
- Core (middlewares, dependency injection)

## Teaching methods

Expert explanation with practical examples, exercises on computers

## Course syllabus

Introduction to Blazor, hosting models

- Introduction to Blazor Server and Blazor WebAssembly hosting models
- Blazor application structure

Component creation

- Introduction to Razor files
- Difference between components and elements
- Passing parameters between components
- Events - publishing messages from the component
- Code behind
- Writing components without razor files
- Component localization

Forms

**GOPAS Praha**  
Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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- EditContext, a form model
- Validation of forms and display of results
- Form localization

## Component life cycle

- Basic component life cycle
- Tricks hidden in the life cycle
- Using Dispose and DisposeAsync

## JavaScript Interop

- Calling javascript code from .NET
- .NET calls from javascript code

## Handling HTML header

- PageTitle and HeadContent

## Error handling

- ErrorBoundary

### **GOPAS Praha**

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

### **GOPAS Brno**

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

### **GOPAS Bratislava**

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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