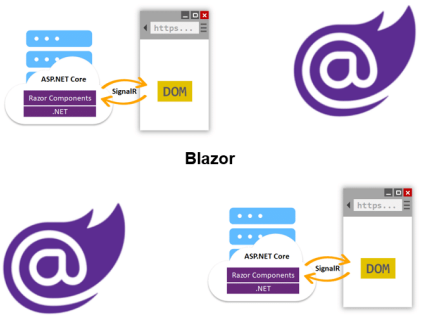
Blazor

Duration: 2 days Price: € 1399

Open Schedule



Audience Course Blazor

The course Blazor is intended for developers who want to create interactive client-side Web User Interfaces using C#, .NET and the Blazor Framework.

Prerequisites Course Blazor

Knowledge of .NET and C# and the basic architecture of Web and Single Page applications is required to participate in this course.

Realization Training Blazor

The concepts are covered on the basis of presentations. The concepts are further explained with demos in Visual Studio. Theory and exercises are interchanged. The course times are from 9.30 to 16.30.

Certificate Blazor Course

After successful completion of the course participants receive a Blazor certificate.

Content Course Blazor

In the course Blazor participants learn how the Blazor Framework can be used to create Single Page Applications with C# and .NET instead of JavaScript. With Blazor client-side C# code can be run directly in the browser through WebAssembly. And since real .NET code runs on WebAssembly, you can reuse server side code and libraries.

Blazor Intro

The course Blazor starts with a discussion of Blazor's role within ASP.NET which is an extension of the .NET Framework with tools and libraries for Web Applications. The Razor Markup is introduced as well and the SignalR library for real time functionality in web applications is discussed.

Data Binding

Next one and two way data binding between user interface elements and C# code and lambda functions are treated. And event binding, event propagation and validation are also covered.

Blazor Architecture

The Blazor Architecture is explained. Blazor is based on UI components and changes in the browser DOM are tracked via an in memory tree and the DOM is updated where needed.

Dependency Injection

Attention is paid to how centrally registered services in Blazor such as the HttpClient and the NavigationManager are made available to Blazor Components via dependency injection. Adding services to a Blazor Webassembly App and a Blazor Service App is covered as well.

Routing

Routing in Blazor Apps with the Router component is on the course schedule as well. Explained is how route information is found by scanning components with a RouteAttribute. And it is treated how RouteView components receive RouteData and parameters.

JavaScript Interoperability

Finally JavaScript Interoperability is covered. The course discusses how to invoke JavaScript from .NET code using an injected service that implements the IJSRuntime interface.

Modules Course Blazor

Module 1 : Blazor Intro	Module 2 : Data Binding	Module 3 : Blazor Architecture
What is Blazor?	One Way Data Binding	Blazor Components
C# Browser Apps	Attribute Binding	UI Elements
.NET Core	Conditional Attributes	C# and HTML
Blazor Components	Event Binding Syntax	UI Composition
Razor Markup	Event Arguments	Razor Templates
.NET Libraries	C# Lambda Functions	View and View Model
Using Visual Studio	Two Way Data Binding	Parent-Child Communication
Blazor Projects	Preventing Default Actions	Type Parameters
Server	Stop Event Propagation	Life Cycle Hooks
SignalR Connection	Reporting Changes	Cascading Properties
Client Side Blazor	Validation	Component Libraries
Module 4 : Dependency Injection	**Module 5 : Routing**	**Module 6 : JavaScript Interoperability**
Inversion of Control	Blazor Routing	Call JavaScript from C#
Container Injection	Navigation	Glue Function
Singleton Dependencies	Router Component	JSInvocable Methods
Transient Dependencies	Route Templates	Pass Reference to JavaScript
Scoped Dependencies	@page Directive	ILocalStorage Service
Disposing Dependencies	RouteAttribute	DOM Interaction
Adding Services	RouteView Component	Asynchronous Calls
Register Common Services	Navigation	Object Serialization
Service Lifetime	FocusOnNavigate	JavaScript Initializers
Constructor Injection	Route Parameters	Location of JavaScript
@inject Statements	Route Constraints	JavaScript Modules

SpiralTrain BV
Standerdmolen 10, 2e verdieping
3995 AA Houten

info@spiraltrain.nl
www.spiraltrain.nl
Tel.: +31 (0) 30 – 737 0661

Locations
Houten, Amsterdam, Rotterdam, Eindhoven, Zwolle, Online