

Introduction to Web Development with Blazor

Duration 1 day (8 hours)

Module 1: Getting started with Blazor

Discover the key features of Blazor for building your next web app.

- What is Blazor?
- How Blazor works
- When to use Blazor

Module 2: Build your first web app with Blazor

Learn how to build your first web app with Blazor.

- Configure your development environment
- Exercise - Create and run a Blazor web app
- Razor components
- Exercise - Add a component

Build a to-do list with Blazor

Module 3: Learn how to build a to-do list with Blazor.

- Data binding and events
- Exercise - Create a to-do list

Module 4: Interact with data in Blazor web apps

Design user interface elements for a web app by using Blazor components. You'll also obtain data and display it to the user on dynamic webpages.

- Create a user interface with Blazor components
- Exercise - Create a user interface with Blazor components
- Access data from a Blazor component
- Exercise - Access data from a Blazor component
- Share data in Blazor applications
- Exercise - Share data in Blazor applications
- Bind controls to data in Blazor applications
- Exercise - Bind controls to data in Blazor applications

Module 5: Navigation in Blazor

Learn how to manage request routing by using the @page directive, Blazor routing, NavLink, and NavMenu components. Increase an app's flexibility by adding routing parameters in your Blazor components. Use layouts to improve your app by reducing duplicate code.

- Use the Blazor router component to control your app's navigation
- Exercise - Change navigation in your Blazor app by using the @page directive
- Explore how route parameters affect your Blazor app's routing
- Exercise - Use route parameters to improve your apps navigation
- Build reusable Blazor components using layouts
- Exercise - Add a Blazor layout to reduce duplication in your code

Module 6: Improve how forms and validation work in Blazor web apps

Learn how to use forms in Blazor, add event handlers, and validate the data a user submits. By using Blazor form components you can validate client-side forms without writing client-side JavaScript to handle the validations.

- Attach C# code to DOM events with Blazor event handlers
- Exercise - Create a Blazor event handler for onclick events
- Take advantage of the power of Blazor forms
- Exercise - Create an address form with Blazor components
- Validate user input implicitly without writing validation code
- Exercise - Add server-side and client-side data validation to the address form

Module 7: Build rich interactive components with Blazor web apps

Learn how to interoperate Blazor apps with JavaScript code, use templated components, and handle component lifecycle events.

- JavaScript interoperability with Blazor
- Exercise - Use a JavaScript library in a Blazor app
- Understand the Blazor component lifecycle
- Exercise - Improve app interactivity with lifecycle events
- Understand template components
- Exercise - Reuse components by creating a template

Module 8: Build reusable components with Blazor

By using Blazor components, you can reuse sections of HTML in your applications. Learn how to build a component, package it, and share it with other Blazor applications.

- Introduction to Razor class libraries
- Razor class library creation and concepts
- Create a Razor class library
- Package a Razor class library
- Create a NuGet package