

KOENIG SOLUTIONS · COURSE OUTLINE

Blazor Application Development Using .NET 6

Learn to build, secure and deploy Blazor applications with .NET 6, from Razor components to Entity Framework and gRPC services.

11

MODULES

46

TOPICS

COURSE OVERVIEW

This course covers the fundamentals of .NET 6 and the Blazor framework, including Blazor Server and Blazor WebAssembly hosting models. It looks at building applications with Razor components, form validation, and Bootstrap-based layouts. It then covers consuming REST and gRPC services, working with Entity Framework Core for data access, securing applications with authentication and authorization, and packaging shared functionality using Razor class libraries.

WHO THIS COURSE IS FOR

Blazor Developers

ASP.NET Core Developers

.NET Developers

Web API Developers

Full Stack Developers

LEARNING OBJECTIVES

- Explain the core features introduced in .NET 6
- Compare Blazor Server and Blazor WebAssembly hosting models
- Build Razor components with routing, binding and event handling
- Implement form validation using EditForm and input components
- Apply Bootstrap layouts for a responsive user interface
- Configure Web API services and consume them with HttpClient
- Implement data access using Entity Framework Core migrations
- Configure authentication and authorization to secure Blazor pages

11 Modules, 46 Topics

01

Introduction to .NET 6 | .NET 5 | ASP.NET CORE 3.1

TOPICS

Understanding Core form of .NET · Whats new with .NET 6

02

Overview to Blazor

TOPICS

Blazor as SPA -SINGLE PAGE APPLICATION · Blazor Architecture with ASP.NET Core | .NET · Intro to Blazor Server · Intro to Blazor Web Assembly · Lazy loading in blazor

03

Developing .NET Application with Blazor

TOPICS

Blazor as RAD · Installing Blazor using Visual studio 2022 · Creating your first Blazor Web Application · Creating Progress Web Application PWA

04

Razor Components

TOPICS

- Razor Syntax & Directives
- Pages vs Components
- Routing
- Rendering Components
- Binding
- Events and Event Call Back
- Communication between components & child components
- Passing parameters

05

Validation

TOPICS

Introduction to Validation · EditForm components · Input components · Validation components

06

Bootstrap in Blazor Application

TOPICS

- Using Bootstrap to provide a Responsive User Interface
- Layout using Bootstrap

07

Using Rest Services (Web API) - WebAssembly

TOPICS

Creating Web API services · Web API Controller · Implementing Controller Actions · Configuring and Injecting HttpClient · Implementing GET, PUT, POST and Delete

08

Using Entity Framework EF – BLAZOR SERVER

TOPICS

Introduction to Entity Framework Core · Migrations and Database creation · DataAnnotations · Adding Migrations · Creating a Database · Creating Web API controller

09

Securing MVC Based App Using Blazor

TOPICS

- Dealing with common security threats in Web Applications
- Authentication and Authorization
- Configuring Authorization
- Securing Pages and Components

10

gRPC Services in Blazor Application

TOPICS

Introduction to gRPC · Comparing gRPC and Web Api · Implementing gRPC service in Blazor App

11

Razor Class Library

TOPICS

Creating a Razor Class Library · Using Components from a Library · Routing to Pages in a Library

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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