



Comprehensive ASP.NET Core 8 Development

Course ID #: 7000-920-ZZ-Z

Hours: 35

Course Content

Course Description:

This in-depth ASP.NET Core 8 training course teaches developers how to build modern, high-performance web applications using Microsoft's .NET 8 framework. Attendees learn how to create dynamic web interfaces with MVC and Razor Pages and build interactive real-time web apps with Blazor.

Course Objectives:

Upon successful completion of this course, students will be able to:

- Understand the goals and benefits of ASP.NET Core 8.0
- Learn to make good decisions about application architecture and data access technology
- Use ASP.NET's routing system to achieve a REST-style architecture
- Learn how to build a compelling and maintainable HTML user interface using the Razor view engine and client-side JavaScript
- Gain experience building a service that makes data available via a modern web API
- Understand the advantages of the new Minimal API Framework
- Learn best practices for employing unit testing, logging, and error handling
- Understand different authentication choices for securing a web API
- Get an introduction to Blazor, Razor Pages, and gRPC
- Understand the different cross-platform deployment options available including via Docker containers

Prerequisites:

Experience with the C# programming language and object-oriented programming concepts. Some knowledge of HTML, CSS, and JavaScript concepts.

Software Requirements:

- .NET 8.0 SDK
- Visual Studio 2022 (17.8 or later), VS Code, or Rider
- Lab file bundle provided with the course



Comprehensive ASP.NET Core 8 Development

Course ID #: 7000-920-ZZ-Z

Hours: 35

Topics:

Lesson 1: Introduction

Lesson 2: .NET 8.0 SDK

Lesson 3: Modern C# and What's New in C# 12.0

Lesson 4: ASP.NET Core Application Architecture

Lesson 5: Application Configuration

Lesson 6: Request Routing

Lesson 7: Models

Lesson 8: Controllers

Lesson 9: Views

Lesson 10: HTML Forms

Lesson 11: Input Validation

Lesson 12: Application State

Lesson 13: Web APIs

Lesson 14: Error Handling

Lesson 15: Logging

Lesson 16: Testing

Lesson 17: Security

Lesson 18: Remote Procedure Calls (gRPC)

Lesson 19: Blazor

Lesson 20: Deployment

Lesson 21: Conclusion

Register for this class by visiting us at:

www.tcworkshop.com or calling us at 800-639-3535