

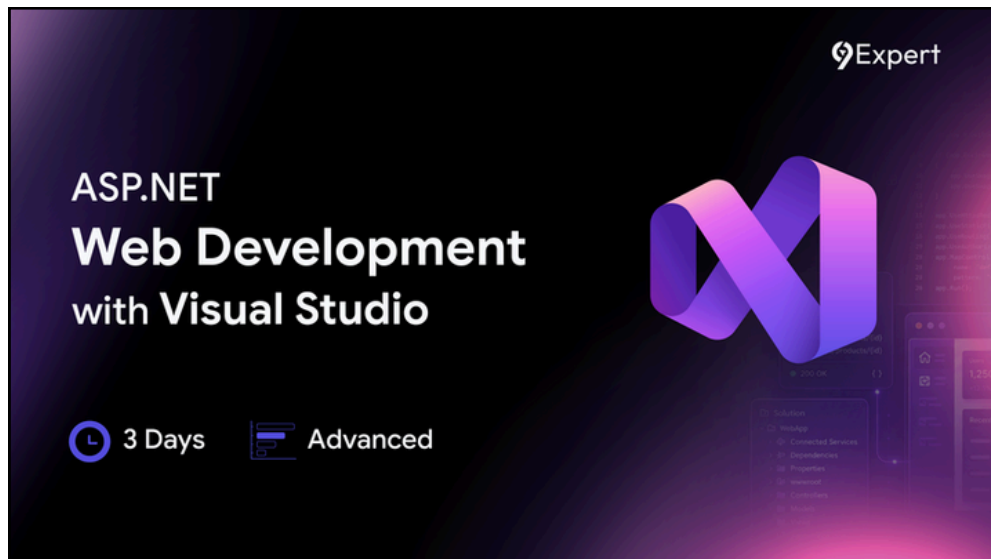


ASP.NET WEB DEVELOPMENT WITH VISUAL STUDIO

Course ID : DEV-VS-02



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Category: Development

This course focuses on developing web applications using the latest .NET technologies. Participants will learn how to build web applications with Microsoft Visual Studio by incorporating technologies such as AJAX, LINQ, and Web Controls. The course also covers the development of database-driven web applications using Microsoft SQL Server, as well as testing, deployment, and optimization for production environments.



Duration: 3 Days

(18 Hours) 09:00 AM – 04:00 PM



Price: Call

* In-house training only

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Objectives

1. Build web application projects using the ASP.NET framework
2. Create web pages using Web Server Controls
3. Develop web pages that perform CRUD operations with databases
4. Use AJAX to enhance user interactivity
5. Deploy ASP.NET web applications to production environments

Target Audience

1. Developers who want to build web applications using ASP.NET
2. Professionals who seek to improve or maintain existing ASP.NET applications

Prerequisites

1. General familiarity with the Windows operating system
2. Basic programming knowledge in any language (e.g., C#, VB, or Java)

System Requirements

1. Windows 10 or Windows 11
2. Microsoft Visual Studio (Community, Professional, or Enterprise edition)
3. Microsoft SQL Server (Express or Developer edition)

TRAINING TOPICS

DAY 1 Morning Session 9:00 AM – 12:00 PM

1. Introduction to Microsoft ASP.NET Web Applications

- What is ASP.NET?
- How web applications operate
- Key technologies used in modern web development

DAY 1 Afternoon Session 1:00 PM – 4:00 PM

2. Creating and Developing Web Applications

- Types of web applications supported in Visual Studio
- Understanding the file and folder structure
- Key configuration files, including web.config and global.asax

3. Building Microsoft ASP.NET Web Forms

DAY 2 Morning Session 9:00 AM – 12:00 PM

4. Using Web Server Controls

5. Error Handling Techniques

6. Data Validation Techniques

DAY 2 Afternoon Session 1:00 PM – 4:00 PM

7. Creating Master Pages and Themes

- Developing and applying themes
- Understanding HTML5 theme structures
- Styling pages using CSS

8. Creating Web User Controls

- Overview: What is a Web User Control?
- Benefits, use cases, and implementation scenarios

9. Database Connectivity with ADO.NET

- Database connection models and patterns
- Essential ADO.NET classes for web database development
- Case study: Integrating Microsoft SQL Server

10. Managing Data with LINQ

11. Using AJAX and AJAX Control Toolkit

- What is AJAX?
- Benefits, capabilities, and practical advantages

12. State Management in ASP.NET

- Types of state management methods
- Handling state on the server side and client side

13. Configuration and Deployment of ASP.NET Web Applications

- Website compilation and pre-deployment preparation
- Deploying applications to production servers

14. Case Study: ASP.NET Web Application Development

- Website customization techniques
- Web server configuration and setup

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