

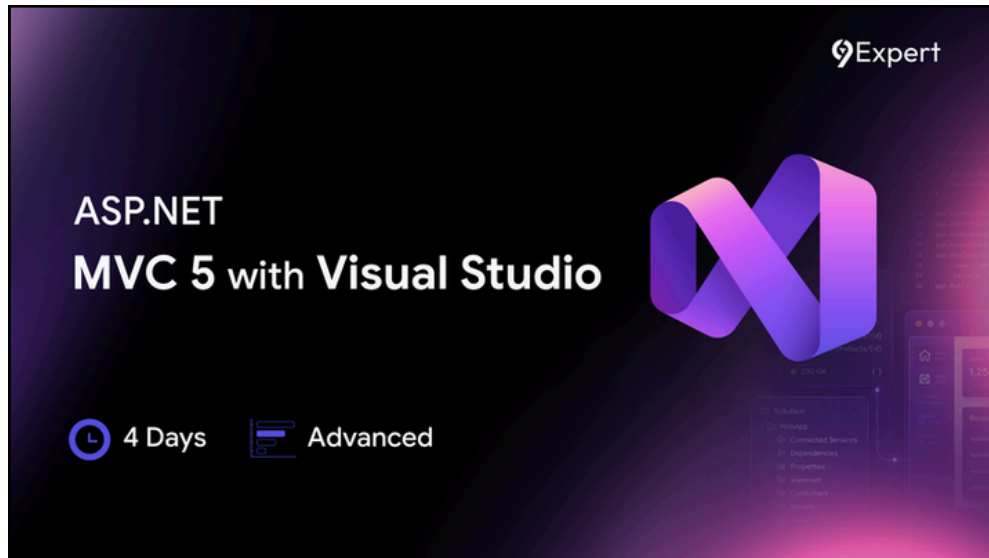


ASP.NET MVC 5 WITH VISUAL STUDIO

Course ID : DEV-VS-03



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Duration: 4 Days

(24 Hours) 09:00 AM – 04:00 PM



Price: Call

* In-house training only

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Development

This course introduces participants to ASP.NET MVC 5, a modern web application development framework built on the Model-View-Controller (MVC) design pattern. It emphasizes Object-Oriented Programming (OOP) principles and provides a structured approach to developing scalable and maintainable web applications.

- Model : Represents the business logic and data layer
- View : Handles the presentation and user interface layer
- Controller : Manages application logic and coordinates interactions between the Model and the View

Objectives

1. Develop web applications using the MVC framework
2. Create data models using ADO.NET and the Entity Framework
3. Build controllers to manage core application logic
4. Design user interfaces using the Razor View Engine
5. Configure routing to support page navigation and content rendering

Target Audience

1. Developers who aim to build web applications using the MVC framework
2. Professionals who want to refactor existing applications into a more maintainable and standardized architecture

Prerequisites

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

System Requirements

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

TRAINING TOPICS



DAY 1 Morning Session

9:00 AM – 12:00 PM

1. Web Application Development Foundations

- ASP.NET WebForms
- Web standards and RESTful principles
- JavaScript and Ajax
- MVC design pattern basics



DAY 1 Afternoon Session

1:00 PM – 4:00 PM

2. ASP.NET MVC Architecture

- Controllers, models, and views
- URL routing concepts
- Controller actions and execution flow
- Razor View Engine overview



DAY 2 Morning Session

9:00 AM – 12:00 PM

3. Controllers and Actions

- Creating controllers and defining actions
- Using action selectors and filters
- Returning values using ActionResult
- Model and parameter binding

4. Creating Views

- Overview of view engines
- Using ViewData and ViewBag
- Templates, scaffolding, and code generation
- Integrating the Bootstrap framework
- Working with layout pages

5. Building Models

- Using ADO.NET for data access
- Working with Entity Framework 6

6. Routing and URL Configuration

- Understanding the routing workflow
- Defining and configuring custom routes

7. HTML Helpers

- Types of HTML Helpers
- Basic and Strongly-Typed Helpers

8. Data Validation

- Implementing validation using HTML Helpers
- Client-side validation techniques and best practices

9. LINQ (Language Integrated Query)

- Understanding LINQ
- Benefits of LINQ
- Query-based and method-based syntax

10. Entity Framework

- Introduction to ORM (Object-Relational Mapping)
- Creating ORMs with .NET EF6
- Advantages of Entity Framework

11. Database Migration, Stored Procedures, and Functions

- Code First Migrations with Entity Framework
- Updating databases upon model changes
- Calling stored procedures and functions
- Code First with existing databases

12. Deployment

- Deploying web applications to a server

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