



ASP.NET CORE MVC

Course ID : DEV-VS-04



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Category: Development

This course equips participants with the knowledge and skills needed to develop web applications using ASP.NET Core MVC. The framework supports rapid, structured development of web applications that can be deployed on Windows or Linux servers.



Duration: 3 Days

(18 Hours) 09:00 AM – 04:00 PM



Price: 11,900 THB

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

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Objectives

1. Understand the architecture and core functionalities of ASP.NET Core MVC
2. Develop web applications following ASP.NET Core MVC principles
3. Create data models using Entity Framework Core
4. Build controllers to handle application logic effectively
5. Design user interfaces using the Razor View Engine
6. Configure routing to manage page navigation and view rendering

Target Audience

1. Developers looking to build web applications using the MVC framework on Windows, Linux, or macOS environments
2. Professionals seeking to refactor existing web applications into a more maintainable and standardized architecture

Prerequisites

1. Basic familiarity with Windows operating systems
2. Fundamental programming knowledge in any language (e.g., C#, VB, Java)
3. Some experience in web application development is recommended

System Requirements

- Windows 10 or Windows 11
- Microsoft Visual Studio (Community, Professional, or Enterprise edition)
- Microsoft SQL Server (Express or Developer edition)

TRAINING TOPICS

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

1. NET Core

- Introduction to the .NET Core platform
- .NET Core architecture and components
- Differences between .NET Core 1.0, 2.0, and .NET 6.0
- Cross-platform development capabilities
- Key advantages of using .NET Core

DAY 1 Afternoon Session

1:00 PM – 4:00 PM

2. ASP.NET Core

- Overview of the ASP.NET Core framework
- Key features, capabilities and benefits

DAY 2 Morning Session

9:00 AM – 12:00 PM

3. Model, View, Controller (MVC)

- MVC architecture , components, and workflow
- Types of Views in ASP.NET Core MVC
- Creating and managing controllers
- Understanding Actions and Non-Action methods
- Types of Action Results
- Interaction between controllers and views

DAY 2 Afternoon Session

1:00 PM – 4:00 PM

4. Routes & URLs

- Routing mechanisms in ASP.NET Core
- Defining and configuring custom routes
- Using attribute routing

5. Server-side Data Handling

- Using action parameters effectively
- Working with View Models and data objects
- Using IFormCollection for form data handling

6. ViewModel & Validation

- Creating and using ViewModels
- Validation mechanisms in ASP.NET Core MVC
- Server-side and client-side validation techniques
- Using Data Annotations for validation

7. LINQ (Language Integrated Query)

- Introduction to LINQ and its capabilities
- Key benefits of using LINQ
- Query syntax vs. method syntax

8. Entity Framework Core

- Understanding ORM concepts (Object-Relational Mapping)
- Creating ORM models with .NET
- Comparing EF6 and EF Core
- Benefits of using Entity Framework Core

9. Database Migration, Stored Procedures, and Functions

- Performing Code First migrations using Entity Framework
- Updating the database when models change
- Calling and executing stored procedures and functions
- Using Code First with existing databases

10. Deployment

- Deploying applications to IIS (Internet Information Services)

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