

















Tareq Aziz

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Master ASP.NET Core in 30 Days

Day 1: Introduction to ASP.NET Core

- What is ASP.NET Core?
- Key Features of ASP.NET Core
- Setting Up ASP.NET Core Development Environment
- Creating Your First ASP.NET Core Application

Day 2: ASP.NET Core Basics - Part 1

- Understanding ASP.NET Core Project Structure
- Middleware in ASP.NET Core
- Configuring the Startup Class

Day 3: ASP.NET Core Basics - Part 2

- Dependency Injection in ASP.NET Core
- Built-In and Custom Services
- Scoped, Transient, and Singleton Lifetimes

Day 4: Working with Controllers and Actions

- Introduction to Controllers in ASP.NET Core
- Action Methods and Action Results
- Using ApiController Attribute

Day 5: Routing in ASP.NET Core

- Introduction to Routing
- Attribute Routing vs. Conventional Routing
- Defining Route Parameters

Day 6: Creating REST APIs with ASP.NET Core - Part 1

- Introduction to REST APIs
- Creating Controllers with HTTP Verbs (GET, POST, PUT, DELETE)
- Returning JSON Responses

Day 7: Creating REST APIs with ASP.NET Core - Part 2

- Handling Query Strings and Route Parameters
- Working with IActionResult and ActionResult<T>
- Exception Handling in REST APIs

Day 8: ASP.NET Core and Databases - Part 1

- Introduction to Entity Framework Core
- Configuring a Database Context
- CRUD Operations with EF Core

Day 9: ASP.NET Core and Databases - Part 2

- Writing LINQ Queries
- Pagination and Sorting with EF Core
- Working with Migrations

Day 10: ASP.NET Core and Databases - Part 3

- Managing Relationships in EF Core
- · Lazy vs. Eager Loading
- Transactions and Unit of Work

Day 11: Securing ASP.NET Core Applications - Part 1

- Introduction to ASP.NET Core Identity
- Securing REST APIs with Basic Authentication
- Configuring ASP.NET Core Identity

Day 12: Securing ASP.NET Core Applications - Part 2

- Role-Based Authorization
- Policy-Based Authorization
- Custom User Authentication

Day 13: JWT Authentication in ASP.NET Core

- Introduction to JSON Web Tokens (JWT)
- Implementing JWT Authentication in ASP.NET Core
- Refresh Tokens and Token Expiry

Day 14: Testing in ASP.NET Core - Part 1

- Introduction to Unit Testing in ASP.NET Core
- Using xUnit for Unit Testing
- · Mocking Dependencies with Moq

Day 15: Testing in ASP.NET Core - Part 2

- Integration Testing in ASP.NET Core
- Testing Controllers and Services
- Testing Middleware Logic

Day 16: Testing in ASP.NET Core - Part 3

- Mocking HTTP Context with MockHttpContextAccessor
- Using TestServer for Integration Testing
- Testing Authentication and Authorization

Day 17: ASP.NET Core MVC

- Understanding the Model-View-Controller Pattern
- Working with Views and Razor Syntax
- Handling Forms and Model Binding

Day 18: ASP.NET Core and Razor Pages

- Introduction to Razor Pages
- Creating and Handling Razor Pages
- Using Tag Helpers for UI Development

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#ASPNetCore #DotNet

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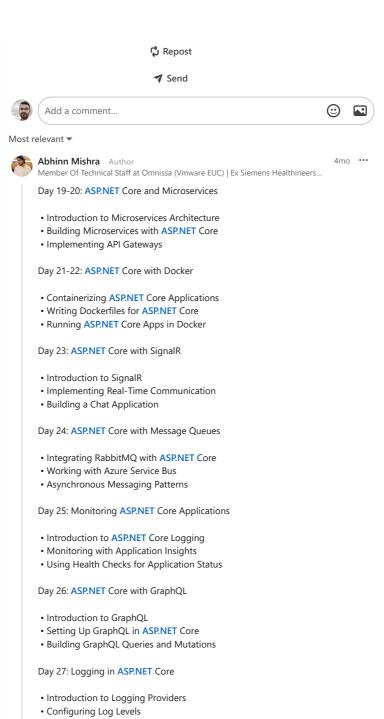








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• Structured Logging with Serilog

Day 28: Performance Optimization in ASP.NET Core

- Optimizing Middleware Pipeline
- Using Response Compression
- Profiling and Diagnosing Performance Issues

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Day 29: Deploying **ASP.NET** Core Applications

- Deploying to Azure App Service
- Configuring CI/CD Pipelines with GitHub Actions
- Deploying ASP.NET Core Apps with Docker

Day 30: Best Practices and Project Development

- Following Best Practices in ASP.NET Core
- Designing Clean and Maintainable Applications
- Starting Your Own ASP.NET Core Project

This plan ensures a solid grasp of ASP.NET Core, covering fundamental concepts, advanced features, and real-world application.

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