

.NET MAUI: NATIVE CROSS-PLATFORM APP DEVELOPMENT WITH C#

Course ID : DEV-VS-05



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Duration: 3 Days

(18 Hours) 09:00 AM – 04:00 PM



Price: Call (Inhouse training only)

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Web Development

Participants will learn to develop applications using .NET MAUI, a tool that enables the creation of mobile applications for multiple platforms with a single codebase. Applications can be deployed on Android, iOS, and Windows devices.

Objectives

1. Understand the core concepts and architecture of .NET MAUI.
2. Develop mobile applications using .NET MAUI.
3. Design and build user interfaces for native apps.
4. Integrate and display data using RESTful services.
5. Design and implement applications using the MVVM (Model-View-ViewModel) design pattern.

Target Audience

Individuals seeking to develop native mobile applications for iOS, Android, or Windows using .NET MAUI.

Prerequisites

1. Proficiency in using the Windows operating system.
2. Basic knowledge of C# programming.

System Requirements

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

TRAINING TOPICS

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

1. Introduction to .NET MAUI

- Overview of .NET MAUI
- Installation and setup
- Creating applications with Visual Studio

2. XAML

- XAML and code-behind integration
- Configuring data display components
- Managing elements in code-behind
- Data binding and BindingContext
- Handling device differences

- Property element syntax
- XAML compilation

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

3. Layout Management

- StackLayout
- Grid layout
- AbsoluteLayout
- RelativeLayout


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

4. Image Management

- Storing images
- Downloading images
- Image aspect modes
- Activity indicators
- Embedded images
- Platform-specific images
- Adding application images
- Managing image sizes

5. Lists

- Displaying lists
- Presenting list items using cells
- Customizing cells
- Grouping items
- Selecting items
- Handling list events
- Refreshing views
- Adding a search bar

 **DAY 2** Afternoon Session

1:00 PM – 4:00 PM

6. Navigation

- Navigation hierarchy
- Modal pages
- Master-detail (Flyout) pages
- Tabbed pages
- Carousel pages
- Popup pages
- Toolbars

 **DAY 3** Morning Session

9:00 AM – 12:00 PM

7. Forms and Display Settings

- Switch
- Slider
- Stepper

- Entry and Editor controls
- Picker
- Date and Time Picker
- TableView
- Custom cells

8. Data Connectivity

- Application settings
- File management
- Integrating SQLite
- Working with RESTful services

 **DAY 3** Afternoon Session

1:00 PM – 4:00 PM

9. Model-View-ViewModel (MVVM) Architectural Pattern

- MVVM overview
- BaseViewModel
- Domain and ViewModel structure
- Using the ICommand interface
- Using commands with parameters

10. Application Publishing

- Publishing applications to the Apple App Store
- Publishing applications to the Google Play Store



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