# Xamarin Cross Platform, Part 1 of 2: PCL and Razor

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Meet the expert: Wallace McClure specializes in building applications that have large numbers of users and large amounts of data as well as user interface specific technologies such as AJAX, iPhone, and Android. He is a Microsoft MVP, ASPInsider, and a partner in Scalable Development, Inc. Wally has authored books on iPhone Programming with Mono/MonoTouch, Android Programming with Mono for Android, application architecture, ADO.NET and SQL Server, and finally AJAX.

Prerequisites: This course assumes that students have some programming background and experience using Visual Studio 2013. In addition, the course assumes knowledge of Visual C#, Xamarin.iOS, and Xamarin.Android in the Windows and MAC environment. An understanding of XML is also required. It would be helpful to have viewed these other LearnNowOnline courses; Xamarin Tool with Various Mobile Platforms, Xamarin Mobile and Web Services, and Xamarin Cross Platform and File Linking, before viewing this course.

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Course description: In this course we'll cover cross platform mobile development using Xamarin. First we'll cover Portable class libraries (PCLs). PCLs are tools provide .NET developers a way to share code between platforms with one library. PCLs help developers reduce the time and costs of development and testing code. With a PCL project, one library can be used by multiple platforms. Then we'll move onto Mobile web apps. Mobile web apps are a very popular mechanism to target mobile devices. Unfortunately, there are times that a mobile web app cannot access device specific features. Xamarin provides a mechanism to host an ASP.NET MVC Razor Web Template/Page within a native application. This provides the cross platform capabilities of the web while still allowing applications to access native features of device.

#### Course outline:

## Compilation

- Introduction
- .Net Compilation
- iOS Compilation
- Android Compilation
- API Support Two Platforms
- API Support Three Platforms
- Solution
- Benefits
- Disadvantages
- Platforms Supported
- Feature Support
- Nuget
- Supported Platforms
- IDE Support
- Demo: Create PCLs Create
- Demo: Create PCLs Nuget
- Demo: Creating PCLs Detail
- Demo: Create PCLs Android
- Summary

#### **VB** and Info

- Introduction
- Visual Basic Support
- Demo: VB PCL Project
- · Compared to File Linking
- Issues

- Licensing
- Urls of Interest
- Previous Courses
- Summary

#### Web in the UI

- Introduction
- Agenda
- Mobile Web
- Problem
- Solution
- Initial Setup
- Demo: Mobile Web iOS
- Demo: Mobile Web Android
- Summary

## **Razor Templating**

- Introduction
- ASP.NET Razor Template
- Initial Concept
- General Concept
- Pass Data In
- Add Files iPhone
- · Add Files Android
- Pull Data Out
- Android Call C# from JS
- Demo: Razor Template iOS
- Demo: Data Pullback
- Demo: Loading Local Content

Demo: Razor Template –

Android

· Demo: Load Data

Summary

