

# Xamarin : the future of mobile application development



## XAMARIN DEVELOPMENT

Xamarin is the best platform for native application development with code sharing on iOS, Android and Windows Phone platforms. It enables high-rate code sharing (60-75%), as well as the UI layer for each mobile platform. In this way, the look and feel of the applications is native. The key advantage of using Xamarin is that the user interface is used as native on every platform. Applications written in this way can not be distinguished from applications written with Swift or Java (iOS or Android).

Although Xamarin allows you to share the same business logic on multiple platforms and allows you to write your C # language and applications, the development in each application is different from the other. The written C # code is converted to a native application separately on every platform. Each operating system has its own specific needs and requirements. These requirements can be considered as follows:



### iOS

C # ahead-of-time (AOT) is compiled and translated into ARM machine language. .NET library is used to create the lowest application size by removing the unused classes and adding them to the application



### ANDROID

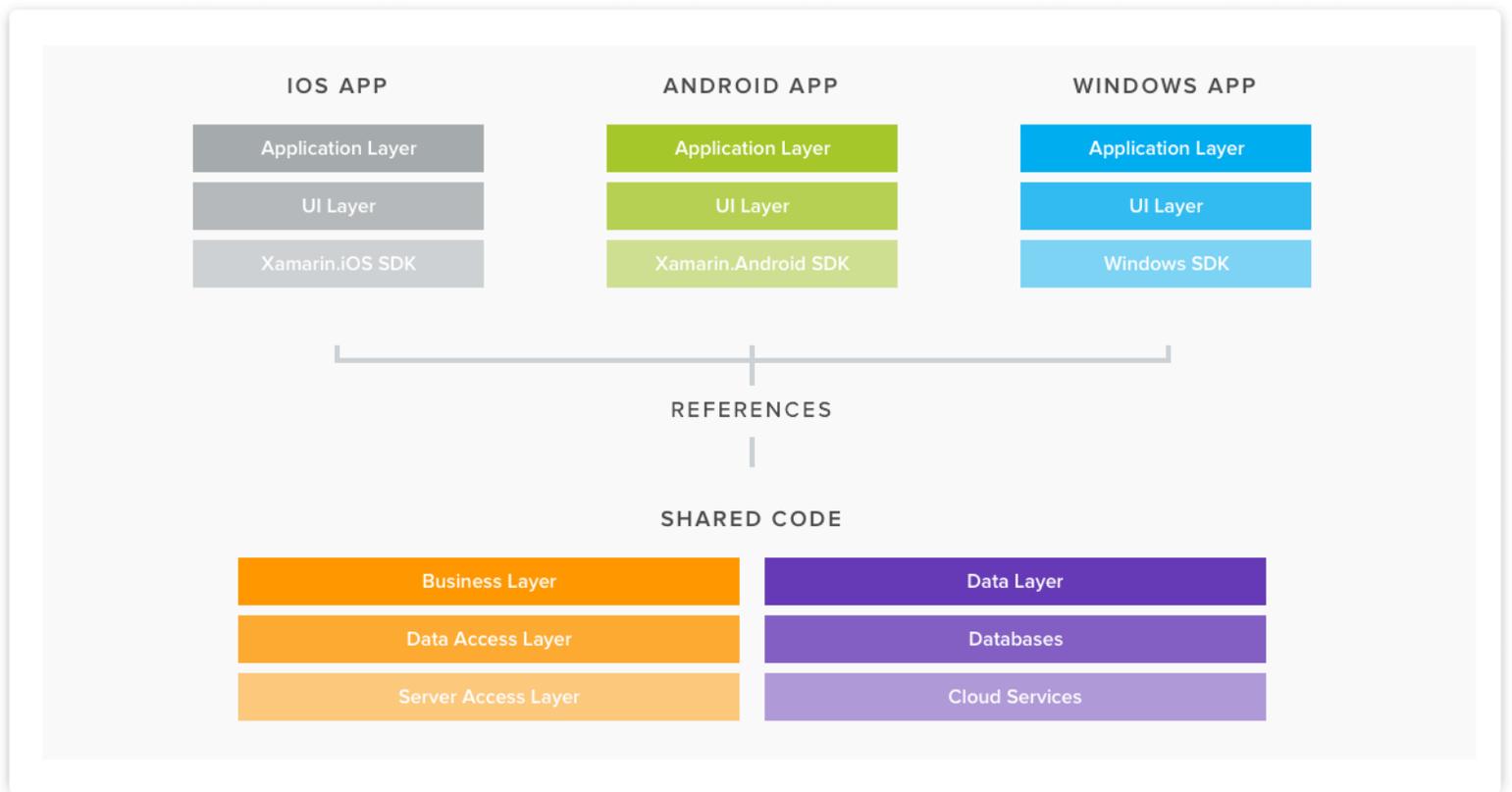
It is packaged in C # IL and packaged with MonoVM + JIT. The unused classes are removed and the .NET library is added. The application offers interaction with JNI by working side by side with Java / ART.



### WINDOWS

It is compiled from C # IL to .NET and does not need Xamarin. Using the Xamarin methods of Windows applications, the same code helps you share the code on iOS and Android. UWP also has the .NET Native option. This option is similar to the AOT compilation on iOS.

The most beautiful feature of Xamarin, despite the differences between them, iOS and Android, combined with Microsoft's Windows SDKs, offers a seamless experience with the C # code, which can be used on all three platforms. It is the perfect solution for businesses that already use C # and .NET as the programming language.



## CROSS PLATFORM APP DEVELOPMENT

When implementing your application, the code can be tested by using the Model-View-ViewModel architecture. With this architecture, you can benefit from platform-specific features at all levels without giving up the features specific to the devices. Unlike other cross-platform tools, Xamarin doesn't restrict you, everything you can do in Objective-C and Java can be done on Xamarin with C #. In fact, the hale binding 'can make your existing codes compatible with Xamarin.

As Xamarin Premier Partner, we support your cross-platform mobile strategies. While we understand the features of each mobile platform, we minimize the development cost and the transition time by using Xamarin. Our experience has shown us that some of the benefits of Xamarin is much better.

Do you wonder if your application can benefit from Xamarin? Contact us today for a free consultation.