Hybrid and Cross Platform Mobile Application Development

Type: Learning Oriented
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Abstract
Currently there are three prominent mobile OS platforms namely, iOS, Android and Windows. In addition to having a presence on Web; Businesses, App Developers and Content Providers must make their applications and services available on all the mobile platforms to garner maximum users and drive customer satisfaction.

One approach to have mobile apps on all platforms is to use the SDK provided by Apple, Google and Microsoft and go about building native applications for all the platforms. This will work, however, there will be multiple codebases, divergent product timelines and teams. For maintenance and collaboration, it will be arduous and inconvenient.

A better approach is to create what is called a hybrid or cross platform app. Such apps share the same codebase for apps running on all platforms. There are some very powerful frameworks which help in making hybrid/cross platform apps. Building apps with such frameworks offers significant advantages over native app development like shared codebase, synchronized updates and consistent user experience to name a few.

With this review, we intend to learn, review and compare the trends in hybrid and cross platform mobile app development. We will gain knowledge of different frameworks like Xamarin and ReactNative which currently offer the best tools for building robust and fast mobile apps.

References
Other References

[1] React Native: Bringing modern web techniques to mobile  

[2] Cross-Platform Mobile with Xamarin  
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