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What is native data handling in mobile app development?

* Native app development means **creating a mobile application that is tailored and dedicated to a specified platform like iOS, or Android**.
* Because native applications are built specifically for the operating system, they provide higher user engagement than hybrid apps
* What is native in mobile app?
* Native mobile apps are **applications developed to target either Android or iOS**. Depending on which operating system you are developing for, your applications are usually coded in a specific programming language.
* You write native Android applications using Java or Kotlin programming languages.

5 Benefits Of Native Mobile App Development

**1. Native Apps Have The Best Performance**

With native mobile app development, the app is created and optimized for a specific platform. As a result, the app demonstrates an extremely high level of performance. Native apps are very fast and responsive because they are built for a specific operating system and are compiled using the platform’s core programming language and APIs. As a result, the app is much more efficient. The device stores the app which allows the software to leverage the device’s processing speed. As users navigate through a native mobile app, the contents and visual elements are already stored on their phone. This results in quick load times.

**2. Native Apps Are More Secure**

Web apps rely on different browsers and underlying technologies such as JavaScript, HTML5, and CSS. Developing a native mobile app is a great way to guarantee your users reliable data protection.

**3. Native Apps Are More Interactive And Intuitive**

Native mobile apps run more smoothly, especially when it comes to user input and output. These types of apps inherit their devices’ OS interfaces, which makes them look and feel like an integrated part of the device.

The biggest benefit to native mobile apps is the superior user experience. Because native apps are created for a specific operating system, they can stick to guidelines that enhance and align the user experience with the operating system. As a result, the flow of the app is more natural. Adhering to specific guidelines eliminates the learning curve and allows users to interact with apps using actions and gestures they’re already familiar with.

**4. Native Apps Allow Developers To Access The Full Feature Set Of Devices**

Since native apps are developed for their particular platform, they take full advantage of the software and the operating systems’ features. These apps can directly access the hardware of the device, such as the GPS, camera, microphone, etc. That means they offer faster execution, which ultimately results in better user experience.

Push notifications are another huge advantage to choosing native app development. Push notifications go through the iOS server (APNS) which means you need your app bundle ID. The same goes for Google’s Cloud Messaging (GCM).

**5. Native App Development Tends To Have Fewer Bugs During Development**

It’s much more difficult to maintain two different applications in *one*codebase than it is two applications in *two*codebases. With native app development, you have fewer dependencies for bugs to occur. This is because you’re not relying on a cross-platform tool such as Xamarin or Cordova. Hybrid apps access hardware through a bridge which often slows development down and can amount to a frustrating user experience.

This problem is prominent when new versions of Android and iOS are released. Native app developers have access to new SDKs. This means they can start building their applications with the most recent features. Because of this lead time, users of native applications have access to new platform features the moment they update the operating system.

With hybrid app development, developers are dependent on a cross-platform development tool such as Xamarin or Cordova. Every time new features are released in the UI kit, you need to wait for the tool to support it. When you develop a hybrid app, there’s an added layer that you don’t have control over which can increase the chances of bugs occurring. Bugs are a huge concern for hybrid app development when working with the latest features that have been released for a particular operating system. This is an essential and often overlooked part of generating loyalty among users.

**Other Native Mobile App Development Considerations**

Although the initial cost may be higher with native mobile app development, you’ll save time and money in the long run by doing it well the first time. With a great user experience, better performance, and the ability to leverage device features, you’re able to offer your users a more personalized and rewarding experience in the long-term. The combination of native mobile app advantages will result in higher conversion rates and will ultimately boost customer loyalty.

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**The Ultimate User Experience**

Technical and functionality shortcomings aside, non-native apps cannot compete with the responsiveness and user experience of the native approach. If a business intends their app to be a central tool for interacting with customers and stakeholders, it must deliver an excellent user experience that supports mobile app retention. Dissatisfaction, even in the slightest, can lead to poor retention rates and high uninstallation.

Native app development gives developers considerably more control over the user experience. What’s more, it allows them to design their apps for easy support. We believe it’s best to stick with native and not sacrifice the design elements that are unique to each platform.

Introduction to Naïve Data Handling Device File I/O, Shared preferences,