

Why App Developers Are Not Migrating to Flutter

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ABSTRACT: This study has been undertaken to lighten the Flutter among android developers. It consists our own experience of using Flutter and research with the help of internet and our teachers. Nowadays where ease of using is priority of us, then why not developers also focus on this. As in the era of android ease is key factor for an app to be successful. But we have seen that most app developers are not satisfied with flutter, there must be some reason, that is where our study is concentrated.

KEYWORDS: Flutter, Android

I. INTRODUCTION

Currently there are two types of mobile platform is available which is Android and IOS, and both have different skill set, conditions, working environment, supported language, such as IOS app is built with Objective-C or Swift where

Android app is built with Java or Kotlin. Due to this difference every developer must make two types of programming for same UI and functionality which is all kind of boring and somehow frustrating also. So here Flutter comes with solution, Flutter is cross platform application development capable of making Web application, Android application and IOS application from a single codebase, well it is more focus on Android and IOS.

[2]. So, we know the capacity of flutter of solving our greatest problem for development purpose, but we have seen that most of developers are not recognizing it. They still don't adapt it. There must be two reason either flutter has some lack of ability somewhere or they have their own personal reason, Here we will only focuses on lack on Flutter and try to measure and understand how it is going to affect us.

II. FLUTTER



Flutter was introduced by Google as an open source technology for coding and creating native apps for Android and IOS. Flutter is relatively

new as it was officially presented in December 2018 as the first stable version.

Flutter combines ease of development with performance like native performance while

maintaining visual consistency between platforms. Flutter's programming language, Dart was initially intended as a replacement for JavaScript. Most importantly, Flutter is open source and completely free.

III. BENEFITS OF USING FLUTTER

When talking about app development, there are two options every start-up thinks of native app development and cross platform app development. There are many benefits of having an application that is compatible with both IOS and android devices. Using flutter, we can have benefits are less development cost: single codebase is used to build applications that functions well on various platforms., faster code development: by using single codebase developers can save time from by reusing the code written earlier, less time in testing: using flutter we don't have to monitor the app's efficiency on two platforms, QA experts will have to test only one version of the app, fast development: flutter makes mobile app development easy, it also increase efficiency and productivity.

IV. LACK IN FLUTTER

After knowing the benefits of flutter and we must also know whether flutter has lack of ability or not if it is then what, well we found some and it is **lack of third-party libraries**: third party libraries and packages play a big role in automating software development for programmers and relieving the need to code everything from scratch. These libraries are mostly open source, easily available, and pretested in different environment. Flutter has only 15k+ libraries till now which is not so good number but sufficient, but the main reason is this flutter is evolving and due to this some of it's third party libraries are not compatible and some don't work properly on both devices. **Dart language**: a new language before flutter almost all developers don't know about dart language, and when it comes in light after launch of flutter dart is unknown and new language for all developers which are leads to lower the morality of developers, well dart is not so bad it is easy to understand and get it while working, we suggest don't afraid of new language just give a shot. **larger app size**: in app development we all developers try to reduce the size of app but somehow in flutter it is not so great, well flutter took care of that by introducing a app shrink feature, we can use it when building apk or aab file it really helps in reducing app size but the problem sometimes it is not remain compatible for all

Google uses Flutter for various Google Assistant and Google Home hub user interface. Moreover, there are already 50,000 flutter apps available in the google play store and this number is increasing at a high rate.

devices and some libraries can't functions properly, so sometimes it is not good to shrink the app size

V. REASON

After knowing benefits and lack of flutter we come to some solid reason why developers are not trying flutter instead they want to stick with java, Kotlin, Swift and Objective-C. Here it is **fear of learning new language**: it's fine to be afraid of new language but not giving a shot won't change anything after all we learn by trying, in our own experience don't be afraid dart is not as complex as Java you will get it easily. it is similar to JavaScript and super easy if you know JavaScript. **Lack of libraries**: we agree that flutter's third-party libraries are not so rich but in future we would have vast libraries. as flutter is growing magnificently. **Old app is still in java or Kotlin**: some of developers we seen they are not migrating to flutter because their old app is already been made by old ways and they don't like to build it again from scratch.

So, after these reasons, these are not so big problem to solve and about libraries it is growing and what we have today is also more than enough.

Talking about supports from flutter developers' team and stack overflow and other platforms are active and doing great for us, we can get help on anything regards code easily.

VI. CONCLUSION

After this study only one conclusion is been made which is it depends on their situation and requirement what they need and what is the thing which can fulfil their need. Flutter is great alternative for IOS and Android devices app building platform, but somehow it lacks on big apps which will be removed soon and we can have a bug free flutter in future, that doesn't mean that now we can't use flutter, of course a big yes we can use it without hesitation. Soon it is going to dominate the app building platforms so, be ready.

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