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Mobile Test Automation – Employing Right Strategy for Mobile App Testing Automation

Over the years mobile apps have become almost a core enterprise strategy. With the increasing competition, not just newest and most innovative ideas are found of great importance but also the user experience that these apps offer. Thus, to make your app completely bug-free has become important before you finally launch it. This need of making your app bug-proof has lead to the requirement of better testing strategy giving rise to the need of mobile test automation.

However, not all strategies are meant for every software type. This is why for different app type, a different strategy is needed. To pick the right strategy, it is important to consider certain factors.

Below you have the factors; a brief look at them will get you right decision.

Check if your test will do well for numerous or infinite permutation and combinations?

Most of the comprehensive strategies hold good for target devices that are relevant and special parameters for network infrastructure. For improving the testing strategies, any app maker needs to bring into use a combination of manual and automated testing tools that work effectively both for functional and non-functional areas. This increases the importance of choice of tools for getting your application well tested and then hit the market right on time without exceeding your budget.

Choosing Open Source Option for Mobile Test Automation

The best part about the open source tools is that they are most cost effective. The next important thing about these options is that they offer better functionality. Also, they can be used with several programming languages that include Java, Python, Ruby, and so on. This further provides better functionality and makes them highly customizable. But then there is a drawback too. They sometimes prove difficult for the automation engineers to handle as using open source tools are slightly trickier compared to proprietary tools. Another issue is with the support. When you use open source tools for support reasons, it doesn't work that effectively as you'd like them to be.

Choosing Right Proprietary Test Automation Tools

This is the area where you have hundreds of options. Since the field of automated mobile testing has become highly competitive over the years, there are multiple vendors working in the field providing you best of the options. Today there are multiple choices and each of these on the market offer some specific set of functionality making them fit for specific consumers or a particular target market. But again, when it comes to choosing apt tool, going across various different options is not a very good way of handling it. Of course, it helps a great deal in defining a proper criterion for the selection process, yet what is more important here to look for is the technology that is employed in the making of the tool. Technology decides a lot of things and also makes it clear if a particular tool is apt for your purpose.

What kinds of tools are available on the basis of technology? Which one to choose?

There are two main tools available on the basis of technology involved. These are – Object Based Recognition & Image Based Recognition

Object-based tools are great especially when the GUI of your app is not stable. But there is one important consideration here too. You'll need a really stable back end for using this tool. At the same time, an image-based tool will work differently. It will make it possible for you to have a special test framework that works independent of the platform. However, here too you'll need to have the GUI of your app to remain stable.

This is why it is highly recommended to check the status of the GUI of your app before you choose any automated testing tool.

How to overcome the challenges faced in mobile test automation process?

It is no difficult a task to overcome all kinds of challenges that one may have to face while conducting a mechanized testing process. Taking care of a certain factors can make things go smoothly. First on the list is to choose a powerful framework. This can be created if you simply optimize your choices for target devices by mixing simulators and real devices. Second, you'll need to have a proper support for the app mobile platform together with other factors such as script reusability, ownership cost, and other expenses.

About Verifaya

Our company was founded in 2005 and since our inception; we have delivered **automated software testing solutions** to companies of all sizes – from startups to Fortune 500 companies. Intel Capital invested with us in 2011 and in 2013 we launched **Verifaya Automation Platform – Verifaya Studio**, which allows customers to rapidly automate and run their automated test suites regularly, in a repeatable and economical way.

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