Top 5 Test Automation tools for Android apps

There is a wide array of test automation tools which we can use for testing android applications. Some of them are here since a long time and some have just arrived in the market. Each of them having unique features and characteristics make is difficult to choose one for a particular project. There are different parameters, which comes into action, when such decisions are to be taken. Nonetheless, let's take a look at some of the test automation tools which has been widely accepted for testing android apps.

1. Robotium

It is a free android UI testing tool and one of the first and frequently utilised one. It is often known as Selenium for android. It is really simple to write a test in Robotium using Java language. On the flip side, it is not suitable to interact with system software. Also, it doesn't provide Record and Play functions.

2. MonkeyRunner

Unlike Robotium, one doesn't have to deal with the source code. The tests are written in Jython (an implementation of Python using Java language) and it provides with a recording tool as well. This tool is specifically designed to test applications at the functional level. It includes multiple device control and screen capture feature.
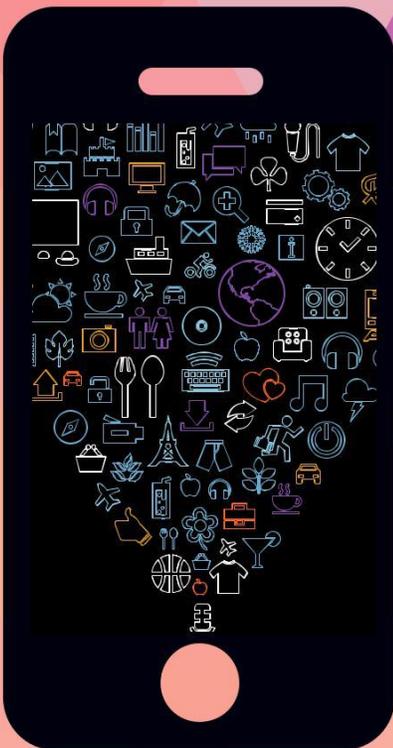
3. Ranorex

Ranorex framework supports test automation across all the mobile platforms – windows, iOS & android. There is no need to write any code and we can directly record the tests on the device. It provides an object based app testing, wherein different objects in combina-tion with action items simulates a real user. It's very easy to deploy and doesn't require any device modification. Apart from record and play, it supports both keyword driven testing and data driven testing.

4. Appium

It's a free tool which can be used to test in iOS and android platforms. It supports a lot of programming language like java, C#, ruby, Python, etc. It aims to automate any mobile app from any language and any framework, with full access to backend APIs. Since the standard automation APIs work on all the platforms, there is no need to recompile the app. It actually provides a true cross-platform mobile automation.

5. UI Automator

It lets you to test your user interface by creating automated functional test cases. It is even able to interact with the system applications of the devices which allow it to utilise exter-nal buttons for various actions. UI Automator can be integrated with TestNG to generate detailed reports. The flip side is it supports only android platform.

ABOUT ZADO

Zado is an independent QA Solution provider with specific focus on testing web, mobile and cloud applications. Our framework-driven approach to test automation ensures reliability and performance of your applications in diverse environments and complexities.

Our Center of Excellence works towards ensuring the success of every test automation initiative of our customers, irrespective of the stage that they are in – startup, transitional or mature. We have successfully helped Startup, e-Commerce and Independent Software Vendors with their automation needs. Our goal is to ensure quality of your software using test automation optimally.

We are open to doing POCs and Pilots that prove our credibility. We also have an innovative engagement model, Enhance – Optimize – Transfer (EOT), where we implement automation testing and transition it to your local teams. Our points of intervention after that, will be only towards enhancing the automation framework.

Zado automation frameworks help manual testers write their own test scripts without the necessary automation expertise. This qualifies manual testers into automation testers, providing better economies of scale and faster ROI of your automation efforts.

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