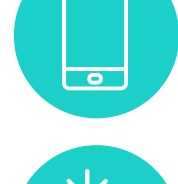


MOBILE APPLICATION TESTING

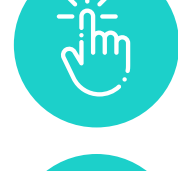
Insights into testing platforms and challenges



Multiple touchpoints:



Device variety:
Mobile phones, tablets, smartwatches, other wearables



Input variety:
Finger touch, stylus, physical keyboard, virtual keyboard, switches, etc.



OS variety:
All versions of iOS, Android, Windows, Safari



Connectivity:
Mobile network, WIFI, airplane mode

Reasons mobile apps fail:

- ◆ Poor user experience
- ◆ Lagging performance
- ◆ Extended loading time
- ◆ Difficulty in accessing features
- ◆ App crashes



Stats to mind:

58% of iOS-based devices suffer from performance failures like apps crashing or components shutting down.

25% of users abandon mobile apps after facing just 3 sec of delay

44% of the app defects are found after application release by customers



An overview of mobile testing tools and its parameters

Testing tool	App under test	Platform	App type	Pricing	Mobile recording
Appium	Mobile	IOS, Android	Native,Hybrid, Web	Open source	No, But possible with APIs available out of the box
Ranorex	Mobile/Web/ Desktop	IOS, Android	Native,Hybrid, Web	Commercial	Yes
Test complete	Mobile/Web/ Desktop	IOS, Android	Native,Hybrid, Web	Commercial	Yes
Experitest) See test	Mobile/Web/ Desktop	IOS, Android	Native,Hybrid, Web	Commercial	Yes
Monkey talk	Mobile	IOS, Android	Native,Hybrid, Web	Open source	Yes
Calabash	Mobile	Native, hybrid	Native, Hybrid	Open source	No

Testing tool	Configuration	Parallel execution on multi-platform	Programming language	Same script for all platforms	Gestures supported
Appium	Complex to use, require extra setup	Yes	Java, PHP, C#, Python, Ruby, javascript with node.js, and others	Yes, with minimal changes	Supports extensively
Ranorex	Easy to use, no extra setup needed	Yes	C# and VB.NET	Yes, with minimal changes	Yes
Test complete	Moderately easy to use. No extra setup needed	Yes	Javascript, jscript, python, VBscript, Delphi script, C#, C++	Yes, with minimal changes	Yes
Experitest) See test	Moderately easy to use. No extra setup needed	Yes	Javascript	Yes	Yes
Monkey talk	Moderately easy to use. No extra setup needed	Yes	Javascript	Yes	Yes
Calabash		Yes	Ruby, Gherkin language	No	Supports extensively

About ZUCI

Zuci is a digital organization focused on the craft of assuring quality to software which we have perfected over the years. A perfect blend of test planning, engineering perfection, and customer-centricity in our DNA has enabled us to help small, medium and large organizations with superior quality engineering solutions. [Learn More.](#)

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