

Kotlin Android Instrumentation Test

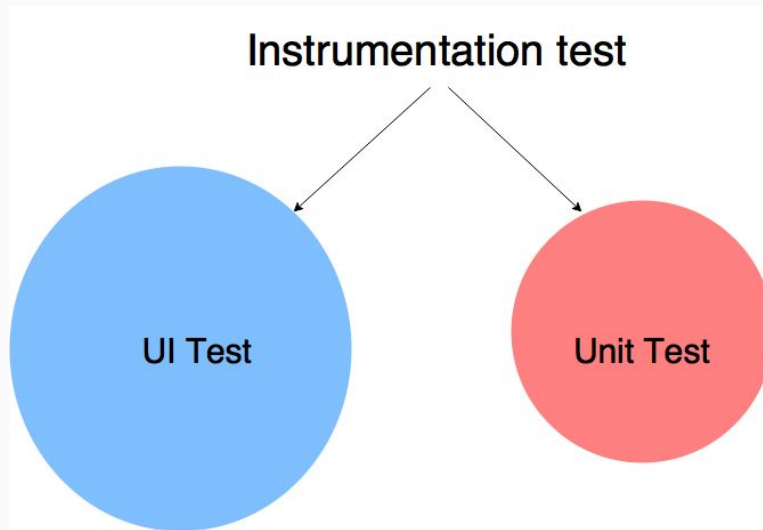
Thuy

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- What is an instrumentation test?
- When we should implement instrumentation tests?
- Implement instrumentation test in Workhiro Android application (Kotlin)

What is an instrumentation test?

- Run on device or emulator, app will be installed and then execute a test
- Especially useful when you need to test code dependency on Context



When we should implement instrumentation tests?

- Instrumentation UI Testing

- Suited for checking values for UI components when an activity is run
- More costly than implementing a unit test
- Most popular drivers are Appium, Espresso

- Instrumentation Unit Testing

- Loader, Content Provider, SharedPreferences, etc
- More costly than a local unit test

Implement instrumentation test in Workhiro Android application

- Instrumentation UI Testing

- Screen: Login, Message List, Conversation Candidate
- Espresso
 - [Setup](#)
 - Default: assert one screen per section
 - For test switches activities, should test that capability
 - Implement Idling for background things (network loading)
 - Find an item in listview is supported by default

- Unit testing

- DateTimeUtils

References

- [Android test driven](#)
- [Advanced Espresso](#)
- [Kotlin Espresso Document](#)
- [Basic Instrumentation Test](#)

Thanks!

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