Testing a Flutter App: Integration Tests

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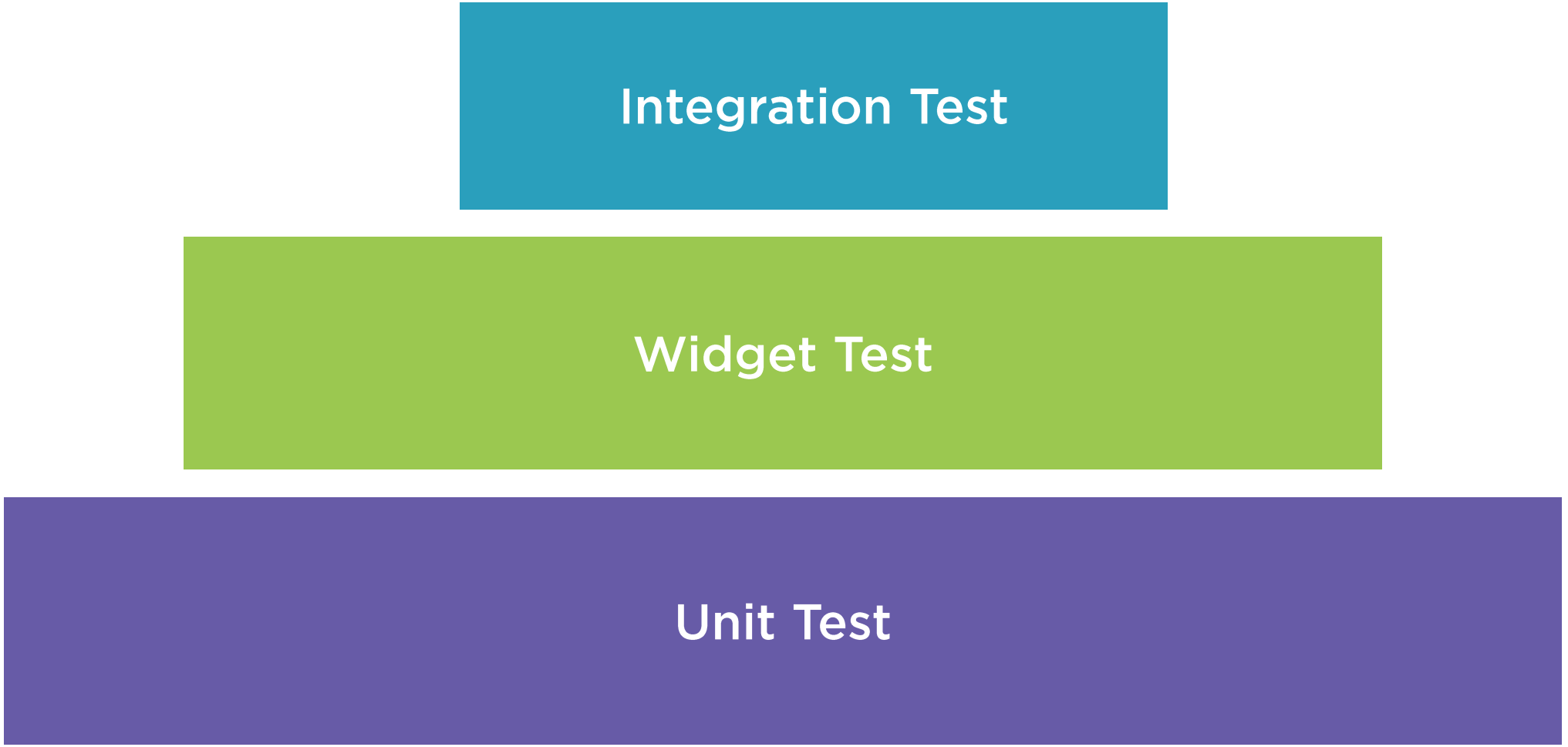
Overview

- Integration test
- Flutter integration test fundamentals
- Complete integration test scenario for login screen page
- Running test on different devices
- Best practices

Testing Flutter Apps



Integration Test

- Test complete app or part of it
- Real device or OS emulators
- App functions correctly as a whole
- Measure performance
- Slowest execution
- Highest maintenance cost

Integration Test

Packages

flutter_driver

Integration_test

integration_test

Simpler to write test

Similar to widget tests

Compatible format with flutter drive and native Android instrumentation testing

Android and iOS device testing

Firebase Test Lab

Demo

User can login with correct username and password and see menu page

Firebase Test Lab

Demo

Setup Firebase Test Lab and run integration tests

Summary

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- Integration test
- Flutter integration test fundamentals
- integration_test package
- Write a test scenario
- Run tests on emulators or physical devices
- Run test on cloud-based devices
- Best practices