



Your continuous testing cheat sheet

Here is a list of everything you need to do in order to build a mobile app test automation project that runs hands free as part of your CI.

Prerequisites:

- Mobile application
- Mobile devices — local or remote
- Mobile application test development tool (Appium Studio, Appium, XCTest, Espresso)
- Repository (Maven, Gradle...)
- Continuous integration tool
- Grid execution
- Test cases
- Device and OS coverage requirements

This cheat sheet uses Appium Studio, Eclipse, GIT, Jenkins, Jira, and Digital.ai Continuous Testing, formerly, Experitest SeeTest, Digital assurance lab.

1. Develop tests using a test development environment (Appium Studio)

- Connect to a real device or an emulator
- Record your tests or use a test editor
- Run your tests to validate them
- Export your code for use in an IDE

2. Create an automation project using your IDE (Eclipse/IntelliJ)

- Create a new Java class
- Create a GIT repository
- Clone your GIT and create Java Gradle project
- Add automation framework dependencies
- Build a basic framework
- Add Grid configuration to project — URL and access code (or check in Appium Studio to automatically include)
- Paste your tests in the project; define target platforms and devices
- Set up your automation (which tests to run; parallelization)
- Add build ID key to your tests
- Execute in your IDE Eclipse to validate

3. Set up your continuous integration tools to trigger automation (Jenkins)

- Configure GIT repository
- Create a Jenkins job
- Configure environment variables (ENV VARS)
- Configure parameterized build
- Execute from Jenkins and check reports

4. Run your continuous testing

- Set up job execution trigger (commit new code/procedural cron/web-hook execution)
- Check your triggering works and that reports are gathered, presented, and analyzed

5. Watch how your feedback time and quality KPIs improve!

Learn more about continuous testing at digital.ai/continuous-testing



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