

Open Source Project Name and Link:

java-client - <https://github.com/appium/java-client>

Commit hash of project I used:

e337d12

Number of tests passing before refactoring:

44 of 44 tests passed

Code Smell and Refactor methods:

Set - 1

A) Long Identifier

Location: src/main/java/io/appium/java_client/android/options/adb
contained in 3 methods

Desc: the length of the field CLEAR_DEVICE_LOGS_ON_START_OPTION is 33.

Solution/refactoring: changed field name in 4 locations using built in refactor function

B) Complex Method

Location: src/main/java/io/appium/java_client/pagefactory/AppiumFieldDecorator.java

Method: decorateWidget

Desc: Cyclomatic complexity is 8

Solution/refactoring: compartmentalized the if statements into separate methods
getWidgetType(), createWidgetListProxy(), and createWidgetProxy() to reduce the complexity of
the original method. Method is much easier to read and comprehend now.

Completed 2 refactors total.

Number of tests passing after refactoring:

44 of 44 tests passed

Number of smells in CSV file went down 4

Before and After of CSV files included in submission folder.

The repository I used is <https://github.com/Tklyne5/java-client>