



Mobile Sequence Diagram



Practice

In order to start performing test automation on Android apps, we need to fully understand how to design a scalable, maintainable, and usable framework for our automated tests.

For this practice first, we need to install the WDIO dummy app on an Android device, you can use an emulator created using Android Studio, or use your own Android device if you have one. The APK is available for download here <https://github.com/webdriverio/native-demo-app/releases> (Make sure to use the .apk file). We won't start doing test automation right now, however, we need to use this app in order to understand how it works, how it's organized, and its related business terms.

Consider we will automate a regression testing suite on the application, meaning all functionalities should be tested at a not-so-deep level. Create a document describing the approach for test automation on the app, including:

1. Definition of testing approach, specifying how the test cases should be defined and including the scope (What will be automated and what won't be automated)
2. Architectural Class Diagram of the framework architecture, considering screens, test files, external data, configuration, and Utils. Architectural layers should be specified. No specific format is required, however common formats such as UML are recommended. Feel free to make your own architectural decisions, however, they should be properly justified according to software and automation best practices.
3. Explanation of the architecture of the framework, including detail on how different layers behave, what they include, and how they interact with each other.

The implementation of the framework is not required, however, it is useful in case you would like to improve your test automation skills.

Here you can find some examples of architectural diagrams. Take into account that these diagrams are not related to the business or technologies required for this practice.



