

WEEK 14 – Testing



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1. May 2021 <
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Testing is an essential part of software engineering. Because of that, we will implement different types of tests in our project.

In the first semester we already implemented UI tests with Cucumber (see [Blog Post 5 < https://plandora51897980.wordpress.com/2020/11/01/week-5-feature-files/ >](https://plandora51897980.wordpress.com/2020/11/01/week-5-feature-files/)). The feature files make it easy for customers to understand the behavior and the expectations of each test.

In order to test the logic of our app we will implement JUnit Tests. Our goal here is to achieve at least 50% test coverage. In addition to further UI Tests we will also implement so called Instrumented Unit tests. Instrumented Unit Tests are tests that run exclusively on physical devices and emulators and are used to test against the behavior of a real device. You can find more information on testing in Android [here < https://developer.android.com/training/testing/fundamentals >](https://developer.android.com/training/testing/fundamentals).

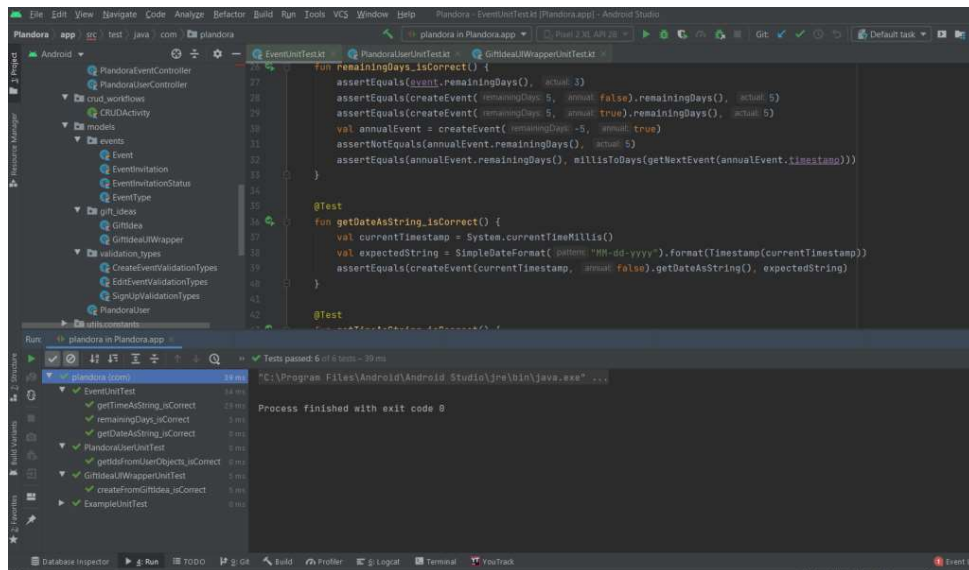
The test code will be included in our GitHub-Repository.

[Unit Test Folder < https://github.com/nf3lix/Plandora/tree/master/app/src/test/java/com/plandora >](https://github.com/nf3lix/Plandora/tree/master/app/src/test/java/com/plandora)

[Instrumented Unit Tests, UI Tests and Feature Files < https://github.com/nf3lix/Plandora/tree/master/app/src/androidTest/java/com/plandora >](https://github.com/nf3lix/Plandora/tree/master/app/src/androidTest/java/com/plandora)

Since we implement three different test-types and support Cucumber feature files, we are dependent on a relatively large number of test libraries. Those can be found in the [gradle file <https://github.com/nf3lix/Plandora/blob/master/app/build.gradle>](https://github.com/nf3lix/Plandora/blob/master/app/build.gradle) of our project and are tagged as “testImplementation” or “androidTestImplementation”.

An exemplary test run of our unit tests is shown in [this video <https://www.youtube.com/watch?v=iCXLXriRBZI>](https://www.youtube.com/watch?v=iCXLXriRBZI).



You can find more detailed information in our [test-plan document <https://github.com/Honrix/PlandoraDocumentation/blob/main/RUP%20Test%20Plan/RUP%20Test%20Plan.md>](https://github.com/Honrix/PlandoraDocumentation/blob/main/RUP%20Test%20Plan/RUP%20Test%20Plan.md). Since it is a living document, some information might change in the future.

As always, feel free to leave a comment! If you have any questions or suggestions, let us know!

Best regards


Plandora Team


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