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# Security analysis Report

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### General Unit Testing

For now, our unit tests cover approximately 45% of the server logic. Mostly, those tests are related to format validation, file converting from XSSF to Event instances, and dao testing. However, we also want to understand how to work with resource testing and will surely experiment with that idea.

Nevertheless, our goal is to increase the coverage to at least 70% and be confident that our tests ensure application reliability.

### Dao Testing

For the testing of the dao classes, the JUnit tests will mainly focus on the dao class, that has a direct connection through the database since that is the class that is used by all other dao classes. The JUnit tests are not finished because of the lack of time and a lot of tests fail since there are buggs in them. So it is a good thing to test now since now we find those buggs.

### RESTful Resource Testing

For now, we have not implemented any java tests related to RESTful services as we are struggling to understand in which format that should be. Nevertheless, we test the servlet resources manually using the Insomnia app by configuring and sending HTTP requests with predefined data. There was an option to use automated testing by checking the results using JavaScript, but we estimated that it would cost more than bring benefits.

### User Story Testing

We have only tested User stories that are connected with the authentification, login, and booking creation process. Most of the tests were passed successfully, however, some things should be fixed for the signup process. We could not test all user stories as we have not finished the project yet. Moreover, we have been focusing more on the backend part rather than on the frontend, that is why we still need to finish the frontend before the full testing.