

# Application Testing Report

## Group 22

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For any project in order to make sure the code works properly some testing is required. With testing we can find vulnerabilities in the pieces of our code and make appropriate changes until the moment when it works in the way that we want it to work. In our project JUnit and Postman testing were used.

- JUnit testing

Our method regarding application testing is JUnit testing. We have paid attention to delete each insertion that we have made during the JUnit testing in order not to make any change in the database. We have tested only our DAO classes since it makes possible to test also the object model classes.

We have skipped to test PageDAO class since the only method that uses that class is the GET method and all the insertions would be preferred to be done through the database itself. All the other DAO classes which have the delete function in it are tested. We have tested the functions that have been used in POST, DELETE and GET methods.

In each execution of JUnit tests, new data object models are created and inserted into the database. As the second step we have checked each data that has been inserted into the database by JUnit testing if they are the same as the ones that have been created by JUnit testing and if there are any modifications. Then we have tested other functions that are different than save and delete functions such as `getAmountObject()` function etc. At the final step, we have tested the delete functionality and deleted all the insertions that have been done by JUnit testing.

- Postman testing

In order to make sure all data from the database is taken properly back-end wise, then caught properly front-end wise and finally shown for the user in our website in the proper way, the Postman testings were done. For this connection between back-, front-end and database the controller classes were implemented respectively for every model (DAO) class.

Then in Postman all GET, POST and DELETE functions in controller classes are tested. The problems we encountered while this testing showed that there is the problem either in the back- or front-end side. These can be the problems with the connection to the database due to some database modifications, or with wrong reference to database. Back-end and front-end wise problems could be regarding errors in methods, so further debugging required.