

Testing Report

CentroGeo Interactive Dashboard, Team 27

Front-end Testing

Essential functionality of the application was tested using Selenium as well as manual testing. (These tests can be found in test/java/seleniumTests directory)

Note: Thus these tests were not conducted using browser extensions however the selenium library was used within Java.

Selenium tests cover the ability to delete a simulation that has been uploaded into the database as well as the ability to edit simulations metadata using the provided interface and make use of the Gecko (firefox) driver (as the system is said to be running on linux is more likely that firefox will be used as its main web-browser).

That said, the main functionality of the system largely depends on the visuals that it produces (charts) thus manually testing the application becomes the only viable option in that case, as it was considered not feasible to be able to generate test conditions for charts that could be matched against the charts that were generated by the application.

Back-end Testing

We attempted to adhere to the principle of test-driven development where it was possible. (In other words the test suite was developed before a particular functionality was coded). However, since our application heavily relied on receiving correct data from the database it is difficult for us to say whether we have received the “right” piece of data as we do not hold any standard or expectation of what this data should look like.

As the project was moving forward a large amount of changes to the database and design of the system were made in a very short period as one of the consequences a large number of tests were deleted in a rather short period of time.