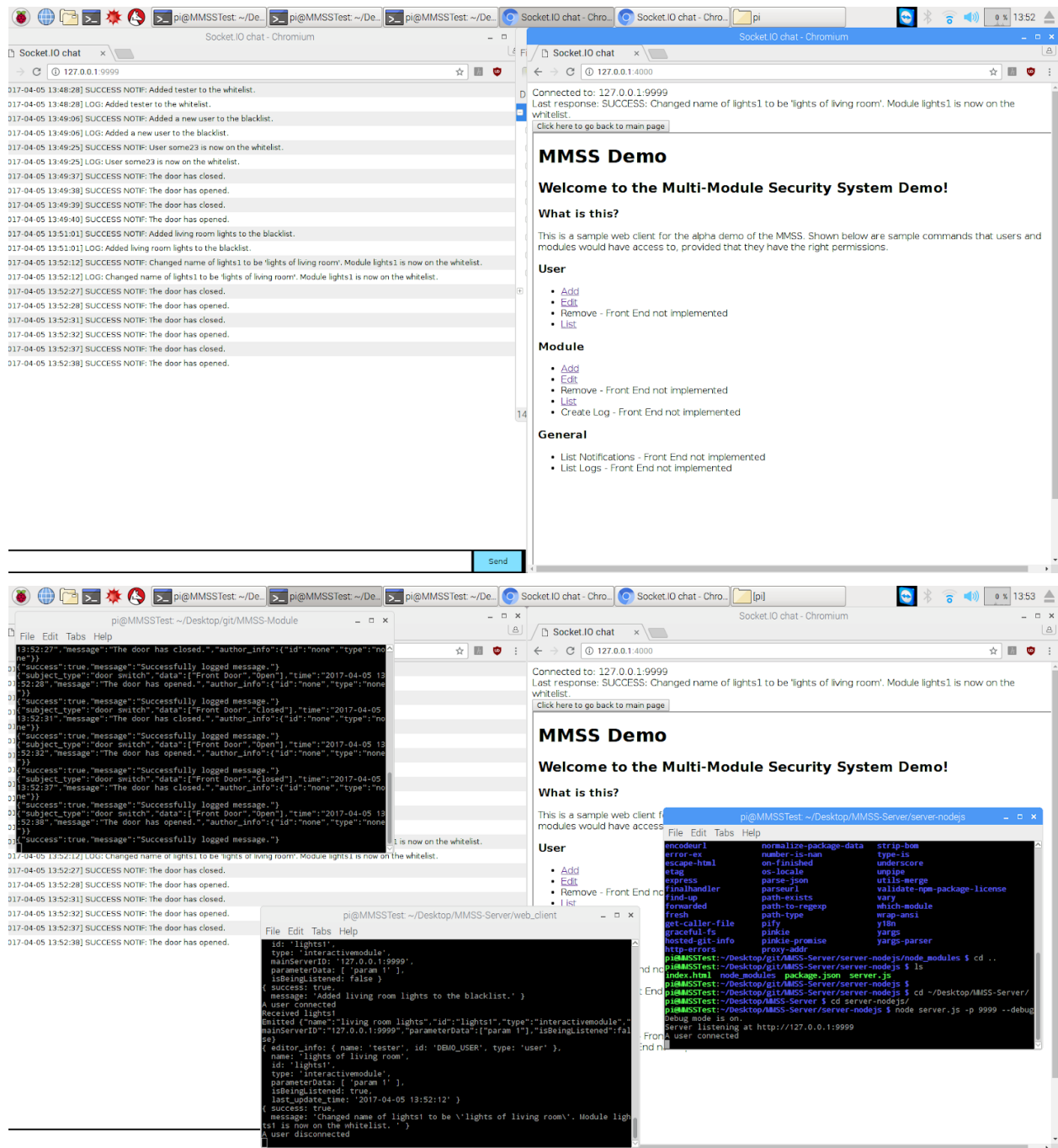


## Alpha Release

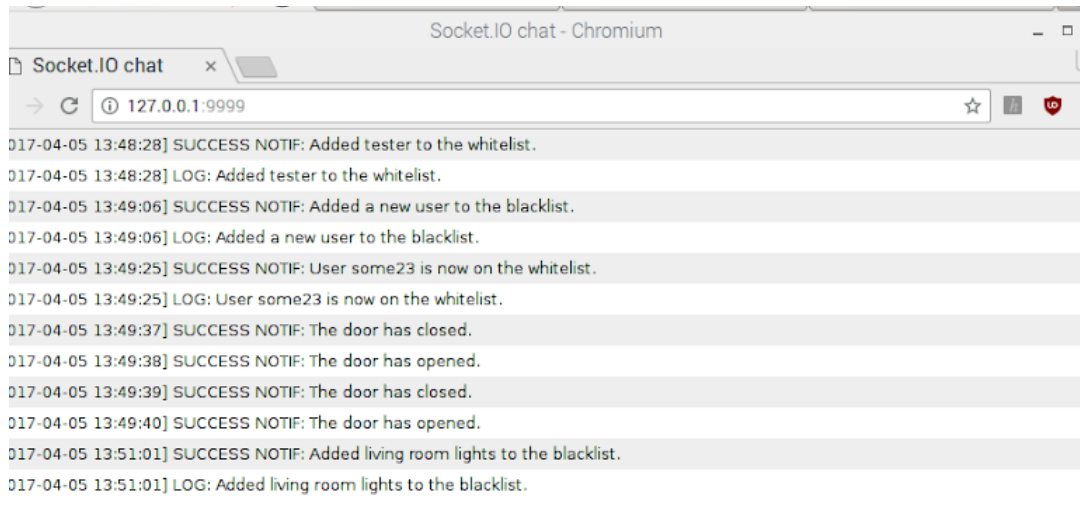


- Nearly all of the deliverables were met for the Alpha Release; that is, we had a functioning server and we had basic I/O between the server and a single module, which was a door sensor. What wasn't finished up to the desired point was the Android Application. Not much was done in regards to the app due to certain extraneous complications. However, what we were able to present in place of that was a small web front-end for the server.

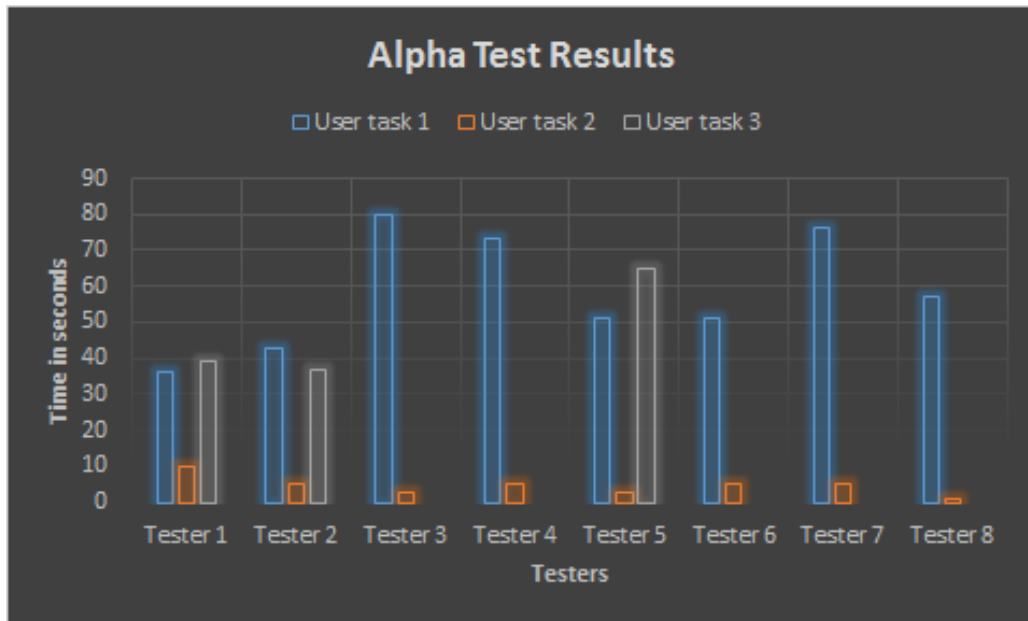
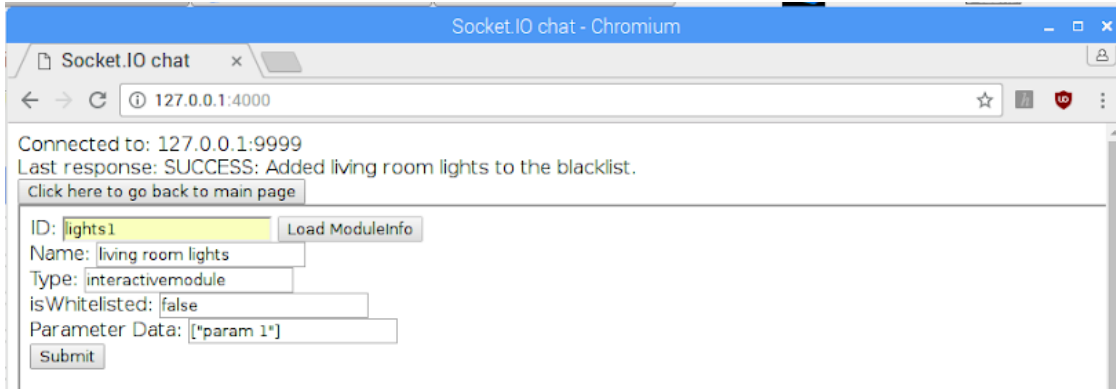
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- For the testing of the alpha release, we had three main tasks, though usually only two were done due to time constraints. The first task, which will be referred to as the User Task, was to have the tester create a user, edit that user, and then list the users on the server to show that the correct changes were made. The second task, which will be referred to as the Door Task, was to have the tester simulate a sensor trigger event by manipulating a sample module. The third task, which will be referred to as the Module Task, was similar to the User Task, but dealing with the creation and manipulation of modules instead. After the tests, we would ask the tester for feedback on the experience of each test along with anything they think we should change or improve on. We also asked if there was anything they wanted clarification or more information on in regards to our project.



- For the User Tasks, finish times ranged from around 36 seconds to 1 minute and 20 seconds. Module Task finish times ranged from 39 seconds to 1 minute and 5 seconds. The finish times for the Door Task were fairly short, all around 10 seconds or less. Some of the errors encountered across the User and Module tasks were the server not accepting changes for invalid input (as expected) and the server accepting changes for invalid input in some cases (unexpected); this shows that we need to add more error checking in the manipulation of users and modules. A common piece of feedback we received was to make the UI simpler; the web front end was a little vague and didn't really reflect too well of how it would be done on the application. We'll make sure that we keep the instructions simple as to not confuse users. The short times for the Door Tasks are expected because the task was to showcase how responsive the system is to updates from the sensors.