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| University of Pretoria |
| Testing Information |
| COS301 - Zeon |

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# Introduction

To run the unit tests, go to the Zeon\Code\Tests folder for Unit and Integration tests and the use the command ant to execute the test. The test results will appear under console output “compile-test:”

# Unit Testing

Unit test was done on the network communication, getting it to work with sending messages via the netty framework

# Integration Testing

The netty tested framework was integrated and tested with all message object for the project, whether or not they are relayed correctly without breaking or becoming corrupt.

# Non-functional Testing

Performance testing was done on the networking framework with regards to message transmission speed and message size for main message types

# Usability Testing

A group of 20 volunteers were gathered to partake in the usability testing of the application anonymously. Testing happened in groups of 3 and users provided feedback on any bugs and errors found during their usage of the application. Users were given a set of 10 questions to rate the application on from 1 to 6 after the testing. Questions are below, with the testing results in the graph below.

Questions

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| 1 | I think that I would like to use this system. |
| 2 | I found the system unnecessarily complex. |
| 3 | I thought the system was easy to use. |
| 4 | I thought that I would need the support of a technical person |
| 5 | I found the various functions of the system were well integrated. |
| 6 | I found there was too much inconsistency in the system. |
| 7 | I would imagine that most people would learn to use this system very quickly. |
| 8 | I found the system very cumbersome to use. |
| 9 | I felt very confident using the system. |
| 10 | I needed to learn a lot of things before I could get going with this system. |

Graph Analysis