

**To:** Jason Hemann's Manager

**From:** Jason Hemann

**Date:** September 10, 2018

**Subject:** Programming Language for Super-Hot Project

After discussion with my team, we have determined that implementing the upcoming project in Java 8 will be the best course of action. Below, I will discuss how the language can be used to complete the project and how it adheres to the project constraints.

Java's standard library comes with support for many of the project requirements, including: Unix-style standard I/O support ([java.io](#)), TCP/IP sockets handling ([java.net](#)), dynamic code loading (java.lang package, specifically ClassLoader) and GUI construction ([javax.swing](#)). In addition to the Java standard library, there are also additional packages that will be useful in fulfilling other project requirements, including: JUnit package for unit testing and coverage, org.json for JSON parsing, which also comes with additional support for XML writing or parsing. The project can also be designed with a modular approach through creating packages. To satisfy the Linux deployment constraints for this project, we can create and deploy an executable java archive of the Java project. We have chosen IntelliJ IDEA as our IDE of choice, as the built-in console and tools for testing and debugging will be beneficial for writing exploratory code.

As you can see from the outline above, Java is more than sufficient for the upcoming project and is compliant with the given project constraints. Please do not hesitate to contact me if you have any questions or concerns.

Best,

Jason Hemann