

From: your manager's name  
To: your manager's manager  
Date: September 9, 2019  
Subject: Programming language for CCIS Khoury project

To whom it may concern,

I believe that my team should use Java as the language to implement the upcoming CCIS project.

Because of the nature of the language, the code that they write will run identically on both local machines and on the client's machines without any changes. Its packaged libraries are flexible enough to accommodate all of the project requirements, including network functionality, constructing a graphical or command-line user interface, and processing common machine communication formats. Additionally, the language allows programmers to load external libraries. Many mature libraries are available for Java, including a vast array of testing frameworks to save programmer time when writing and maintaining the system.

We also chose this language because of the excellent documentation that it ships with. Many of the built-in functions are thoroughly documented, and many of the third-party libraries available for Java also have comprehensive documentation. Furthermore, there are many integrated development environments commercially available that shorten the amount of time required by the developers to produce the code. The static typing also helps reduce the man-hours spent debugging type errors, and allows them to spend more time on design. Moreover, the ability to intermix Java, Scala, and other JVM languages allows the developers flexibility to choose the right language for the right task.

Lastly, many of the developers are already familiar with Java and have used it for prior projects. There are many online resources available to assist the developers with this project. This familiarity will remove a learning curve, and reduce the number of man-universe-lifetimes dedicated to developer training.