

## **SENG 300 Group Iteration 1 Writeup**

Our Java application was made with technical people in mind, so it was built in such a way that more or less assumes that users would know and understand what Java types are, and which ones they are looking for.

The program we created takes two arguments, a directory path, and a javatype to be detected and counted. To find files in a directory, we concatenated the file name to the path and “looped” through each file in the given directory. This allowed us to pass the file path to the ASTParser, which could then traverse the specified files, and perform its visits whilst collecting the needed information required to detect and count the java type declarations and references. We used methods associated with ASTParser, this helped a great deal in finding and counting type declarations and references. Essentially we create a parser to visit different “nodes” which represent the various java types that our program detects and counts. These methods are very effective and useful, and provide much more functionality than we had originally thought. The program uses these methods in such a way that it will loop while they function, in order to find each declaration/reference. We then set a counter, which would keep track of declarations and references. This is in essence, how the program works.