Plotter Software

*Iteration 6: Implementation of bug fixes and enhancements*

# 1 Objectives and Testing Goals

Originally, we had split up the three packages of the program up between the members of the team for testing, one package for each of us. We had planned on doing unit testing on each of them as much as we were able. After that, we had planned to do Functional Testing on the program to try and locate as many issues as we could. Since we didn’t really have any standards by which to measure any performance tests, we decided against doing any and obviously, there weren’t any regression tests to run except to make sure the program still ran after we had finished all the updates.

# 2 Testing Results

Include subsections as appropriate to your testing strategy.

**2.1 Unit Testing**

**2.1 Integration Testing**

xxx

**2.1 System Testing**

Xxx

**2.1 Performance Testing**

xxx

**2.1 Regression Testing**

xxx

# 3 Summary of Bug Fixes

Sub-section descriptions of individual bug fixes (one per enhancement) that were implemented. Include operational description of the bug fix, high level software impact of the bug fix to the code base, and amount/type of testing associated with the bug fix. Include screen shots if deemed desired/appropriate by the team.

**4.1 The program originally displayed a “-0” when you would try to calculate an integral from right to left. We added an error message to prevent the program from trying to calculate the integral this way.**

xxx

**4.2 Bug Fix 2**

xxx

**4.3 Bug Fix 3**

xxx

**4.4 Bug Fix 4**

Xxx

# 4 Summary of Enhancements

Sub-section descriptions of individual enhancements (one per enhancement) that were implemented. Include operational description of the enhancements, high level software impact of the enhancement to the code base, and amount/type of testing associated with the enhancement. Include screen shots if deemed desired/appropriate by the team.

**4.1 The ExportDataPanel save button originally seemed to do nothing even though it saved the data. We added code to display a confirmation message to the user that the data was saved and then exit the ExportDataPanel.**

xxx

**4.2 The Save Image button in the menu bar originally opened a dialog box whose confirmation button said “Open.” We changed the code for the dialog box to say “Save” instead.**

xxx

**4.3**

xxx

**4.4 Enhancement 4**

xxx

# 

# 5 Significant Challenges

One of the greatest challenges we faced as a group was to change our original plan to do any significant amount of unit testing. Some parts of the program were too complicated to understand either because there weren’t any comments to explain what certain data represented or what a method was actually doing or because the classes were too interconnected with the rest of the program to easily test independently.

Unfortunately, we didn’t understand this entirely before we developed our testing strategy and therefore wasted a significant amount of time trying to develop unit tests. However, once we redirected our efforts towards a more integration and system testing approach, it became a lot easier to identify bugs or potential enhancements in the program.

# 6 What We Learned

1 to 5 short paragraphs providing an introspective regarding what individual or team observations were experienced, specifically relating to concepts covered in this course (or the prior software development course (SER 215) in this series). These observations could be from either positive or negative experiences.

# 7 What We Would Improve

1 to 5 short paragraphs providing an introspective regarding team approach or development/administrative activities your team would/might do differently if you were starting over on (this or another) project again. These observations could be from either positive or negative experiences.