CMSC 345

Software Design and Development

Fall 2013

**Code to Joy**

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**Code Inspection Report**

Code to Joy – Map Maestro

Code Inspection Report

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1. **Introduction**

1.1 Purpose of This Document

The purpose of this document is to provide a well-documented analysis of the code written for this product. This analysis will include an examination of the coding standards used, any defects found within the current build and the methods of reviewing our code employed for this document.

* 1. References
* System Requirements Specification
* Software Design Document
  1. Coding and Commenting Conventions

Code Conventions for the Java Programming Languages is the list of standard conventions supported by UMBC. The group consulted these standards when writing the Map Maestro. Some standards followed included in-line curly braces, camel case variable names, and standard method headers in Java. These standards were followed to make easy to read, organized code.

* 1. Defect Checklist

Currently, the project has some methods that are not functioning as intended. These program defects include:

Functional Defects:

* Adding locations as an admin does not add locations
* Removing locations as an admin does not remove locations
* Modify locations as an admin does not modify locations
* Currently, there is no email function set up to email the user their trip
* Jar file does not function like the program does in Eclipse
* Email system unable to send trip as attachment
* If text files removed by users, program has no file to draw from
* Program does not notify user that user could not be created because an existing user has that name
* Program does not notify user that user could not be created because passwords do not match
* Help documentation is non-existent

Security Oversights:

* Text files easily accessible by users to change status to admin
* No way within program to change user status to admin
* Nonexistent security of usernames and passwords

Other Defects:

* Logout button is too close to Next button on Locations select panel
* 2. **Code Inspection Process**
  1. Description

As code was written, the software engineers behind the code unit tested it. Later, as a group, the team met and combined the various classes written and ran it to find any existing errors. Any and all defects found have been included in section 1.4. Many permutations of the location paths were selected and the shortest path was viewed within the Google Earth api. Additionally, the admin privileges were examined, but at the time are not completed, hindering inspection.

2.2 Impressions of the Process

This was an effective way of evaluating the code written. LoginGUI is the program most likely to contain erroneous code, and is filled with many of the section 1.4 defects. The modules least riddled with defects were ShortestPath and GoogleMail. These functions have been tested and confirmed to perform successfully, and do not require much input from other modules, meaning they are likely to be free from defects.

* 1. Inspection Meetings

3. **Modules Inspected**

4. **Defects**

Appendix A – Team percent contributions, Team sign off, Customer acceptance

**Team Review Signoff**

I agree that I have read the above document and reviewed its content. If I do not agree with anything pertaining to the content or format of the document, I shall write it in the comments section below.

**Members of the Team: Signatures: Date:**

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