Test v1.0.0 Summary Report

for the

Hotspotter Bug Prediction Software

CS 425 / CS 499 Senior Project

by

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Revision 1.0

As Of: 4 May 2016

1 INTRODUCTION

This document is the Test Summary Report for the Hotspotter Bug Prediction Software developed by Team HotSpotter.

1.1 PURPOSE

The purpose this document is to discuss and analyses the quality of testing done on the project during the release phase.

2 SUMMARY

2.1 TEST ITEMS

Test	Test Description
Git Cloner Test	A given repository that meets requirements is passed to the "Git Cloner" component of the system.
Metadata Parser Test	A repository that exists on the local disk is passed to the "Metadata Parser" component of the system.
Database Test	Parsed metadata is passed to the "Database" component of the system.
Hotspot Scoring Test	Metadata from a repository is provided to the "Hotspotter" component to be analyzed.
Visual Display Test	All relevant metadata and an existing local repository are provided to the "Web Frontend" component.

2.2 ENVIRONMENT

The application was testing by running on a Linux virtual machine for the backend server and chrome for the frontend GUI.

2.3 REFERENCES

1. QUALITY-PLAN rev 1.2
2. PROJECT-SPEC rev 1.2

3   VARIANCES

NA ?

4   ASSESSMENT

The testing covered the core component of the software system from a high level view. Although the test plan spanned all major components it did not have the detailed view which might have been more helpful during development.

5   RESULTS

The test proved useful when refactoring different section of the code. If a bug appeared, the spot could be pinpointed by the test cases. Over the course of the development the scoring algorithm changed and grew but the underlying scoring test kept the algorithm in check.

6   EVALUATION

1. Git Cloner Test
   Dependent on third party software so prone to failure if APIs change.

2. Metadata Parser Test
   Dependent on third party software so prone to failure if APIs change.

3. Database Test
   Dependent on third party software so prone to failure if APIs change.

4. Hotspot Scoring Test
   Core algorithm prone to failure if given bad data.

5. Visual Display Test
   Test failed due to last minute GUI changes but was quickly fix to client's specifications.

7   ACTIVITIES

1. GUI Changes
   During the last phase of development and verification the client asked for some major frontend GUI changes which caused some bugs and errors. The frontend was consolidated into one form so all previous separation of functionality was lost.

Reviewed and Approved by:

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