*ADMIN-q-Analyzer*

Test Plan

Version *<1.0>*

*01/14/2016*

VERSION HISTORY

This plan will be reviewed and updated on iterative basis every week, by team members.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | *Serge T* | *01/14/2016* |  |  | Test Plan draft |
| 1.1 | Serge T | 02/20/2016 |  |  | Final plan |
|  |  |  |  |  |  |

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# Introduction

## Purpose of The Test Plan Document

The document documents and tracks the necessary information required to effectively define the approach to be used in the testing of the project’s product. Its intended audience is the project manager and project team. Some portions of this document may on occasion be shared with the client and other stakeholder whose input/approval into the testing process is needed.

## Hardware Assumptions

##### The following hardware will be used for executing test cases:

##### Intel I5 processor, 8gb of Ram, Solid State Drive

##### Screen Resolution: 1080p

# Functional Testing

During this stage of testing application will be tested to ensure that it conforms to all business requirements

## Test Risks / Issues

There are 3 core components to be tested:

* Header File parser
* Log File Parser
* GUI

Risks associated with above components:

* Header file contains unmapped data elements
* Inability to generate more test files
* Objects delivered not on schedule
* Objects delivered do not compile or compile with exceptions
* Objects delivered didn’t pass sample unit test

## Items to be Tested / Not Tested

The following items/features/functions to be tested and within the scope of this test plan:

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Responsibility** |
| Header File Parser | Test to make sure op codes names map to their structs ( data mapping correctness) | 02.10.2016 | Serge T |
| Header File Parser | Test for missing header file | 02.10.2016 | Serge T |
| Header File Parser | Test for corrupt / invalid header file | 02.10.2016 | Serge T |
| Header File Parser | Test for a good/complete header file ( positive test) | 02.10.2016 | Serge T |
| Log File Parser | Test for a good/complete log file ( positive test) | 02.10.2016 | Serge T |
| Log File Parser | Test for missing log file | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid format log file | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid OP Code | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid date | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid flags | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid datalen | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid retval | 02.10.2016 | Serge T |
| Log File Parser | Test for invalid AQ Buffer values | 02.10.2016 | Serge T |
| Log File Parser | Test for missing columns | 02.10.2016 | Serge T |
| Log File Parser | Test for missing data | 02.10.2016 | Serge T |
| GUI | Test for basic functions ( that GUI can handle of processing and displaying parsed log file) | 02.10.2016 | Serge T |

## Test Approach(s)

All the tests will be run manually and results will be posted to Team’s Wiki and Test Results document.

## Test Pass / Fail Criteria

Test cases will be group by items(objects), and thus if any of the subtests fail, the whole group will be considered as failed.

## Test Entry / Exit Criteria

Entry: Object compiles successfully and handed off officially from designated group.

Exit: All test cases have been successfully executed

## Test Deliverables

Team Wiki will be updated with the testing progress

Test Result document will be posted for each object tested.

# Performance Testing

During this stage of testing application will be tested for speed and effectiveness.

## Test Risks / Issues

* Objects delivered not on schedule
* App not stable enough for performance testing

## Items to be Tested / Not Tested

Performance testing will concentrate on running actual Log files of different sizes via GUI.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Responsibility** |
| GUI | Run small file through the app | 02.20.2016 | Serge T |
| GUI | Run average sized file through the app | 02.20.2016 | Serge T |
| GUI | Run large file through the app | 02.20.2016 | Serge T |
| GUI | Determine maximum size file to break the app | 02.20.2016 | Serge T |

## Test Approach(s)

All tests will be executed manually and on the same hardware

## Test Pass / Fail Criteria

Test will be considered a success if processing of the average sized file is acceptable to Shannon.

## Test Entry / Exit Criteria

Entry: Functional Testing is complete

Exit: All test cases have been executed

## Test Deliverables

Team Wiki will be updated with the testing progress

Test Result document will be posted for each object tested.

# USABILITY Testing

During this stage of testing application will be tested for usability and friendliness of the GUI

## Test Risks / Issues

•GUI delivered not on schedule

• App not stable enough for performance testing

## Items to be Tested / Not Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Responsibility** |
| Normal Use | The test will recreate average user behavior | 02.20.2016 | Serge T |
|  | Check all scroll bars | 02.20.2016 | Serge T |
|  | Check all buttons | 02.20.2016 | Serge T |
|  | Validate row number mapping | 02.20.2016 | Serge T |
|  | ~~Check tree view functionality~~ | ~~02.20.2016~~ |  |
| ~~DPI Check~~ | ~~Check for different DPI settings: 96/120/144~~ |  |  |
| Resolution Check | Check for different resolution: 1280\*800, 1680\*1050 | 02.20.2016 | Serge T |
| Operating System | Repeat usability tests under Linux Ubuntu OS | 02.20.2016 | Serge T |

## Test Approach(s)

Test will be executed manually on the described hardware

## Test Pass / Fail Criteria

Test cases will be group by items(objects), and thus if any of the subtests fail, the whole group will be considered as failed.

## Test Entry / Exit Criteria

Performance and Functional Tests complete

## Test Deliverables

Team Wiki will be updated with the testing progress

Test Result document will be posted for each object tested.

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