**Crypto Alert System**

Testing Report

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# 1.0 Introduction

## 1.1 Purpose

This Crypto Alert System Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0 Test Assessment

We met all of our goals as mentioned in the SRS. Although, we could have tested the program on different windows environments.

# 3.0 Test Results

Most test results were successful, however a handful of test results resulted in bugs and strange issues. The issues require more testing, and research before they are resolved.

## 3.1 Unit Testing

Test Case ID: 1

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Program failed to start when run from source code |
| **Summary of Defect** | When the program is Rebuilt, the ‘InitalizeComponent()’ method in the main class of the program automatically references the namespace when trying to create new objects of the UserControl classes |
| **Closed prior to Production Release?** | Partially |
| **Comments** | The bug was related to the way visual studio was building the project. Could not find a concrete solution. But does not impact the .exe file. |

Test Case ID: 2

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Dashboard chart failed to load |
| **Summary of Defect** | Upon running the program, the Dashboard chart came up blank |
| **Closed prior to Production Release?** | Yes |
| **Comments** | The bug was in the way the variables were defined. “Var” variables defined in the body of the class were not being detected in the constructor of that class |

Test Case ID: 3

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Could not create multiple objects of the same User Control |
| **Summary of Defect** | Was not able to create multiple objects of the CyrptoCurrency User control, in order to avoid repetition of data |
| **Closed prior to Production Release?** | Yes |
| **Comments** | Had to edit the main class of the CryptoAlertSytem namespace, and manually create objects for each cryptocurrency user control |

Test Case ID: 4

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Dashboard chart failed to load |
| **Summary of Defect** | Upon running the program, the Dashboard chart came up blank |
| **Closed prior to Production Release?** | Yes |
| **Comments** | The bug was in the way the variables were defined. “Var” variables defined in the body of the class were not being detected in the constructor of that class |

Test Case ID: 5

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Cryptocurrency chart was not accurate |
| **Summary of Defect** | The chart for the specific cryptocurrencies was starting from zero, hence the plotted values were not clear |
| **Closed prior to Production Release?** | Yes |
| **Comments** | Changed the setting for the chart, to not start from zero, but from the very first value that it got from the very first API call |

## 3.2 Integration Testing

System integration testing activities.

## 3.3 System Testing

### 3.3.1 Functional requirements testing The table below summarizes the results of system testing:

Test Case ID: 1

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Display Graph |
| **Summary of Defect** | Graph works and displays all currencies |
| **Closed prior to Production Release?** | Yes |
| **Comments** |  |

Test Case ID: 2

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Choose Cryptocurrency |
| **Summary of Defect** | Able to select crypto currencies |
| **Closed prior to Production Release?** | Yes |
| **Comments** |  |

Test Case ID: 3

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Set first trading rule |
| **Summary of Defect** | Able to select rules and currencies |
| **Closed prior to Production Release?** | Yes |
| **Comments** |  |

Test Case ID: 4

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Set second trading rule |
| **Summary of Defect** | Able to select rules and currencies |
| **Closed prior to Production Release?** | Yes |
| **Comments** |  |

Test Case ID: 5

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Set third trading rule |
| **Summary of Defect** | Able to select rules and currencies |
| **Closed prior to Production Release?** | Yes |
| **Comments** |  |

Test Case ID: 5

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Show alert |
| **Summary of Defect** | Alerts are shown as specified |
| **Closed prior to Production Release?** | Yes |
| **Comments** |  |

### 3.3.2 Non-Functional requirements testing Provide details on all non-functional requirements testing.

Test Case ID: 6

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Pass/Fail Severity of Defect: Application crash |
| **Summary of Defect** | Upon hitting the help button |
| **Closed prior to Production Release?** | Yes |
| **Comments** | Only happened the first time running the application |

Test Case ID: 7

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Alert System spam |
| **Summary of Defect** | When filling in a crypto currency alert then emptying the alert values |
| **Closed prior to Production Release?** | Yes |
| **Comments** | Unable to stop the alerts from the empty boxes, had to restart the application |

Test Case ID: 8

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Application running overnight |
| **Summary of Defect** | Seeing if the application was capable of running overnight without issue |
| **Closed prior to Production Release?** | Yes |
| **Comments** | Application ran as expected when left alone overnight |

Test Case ID: 9

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Application fetching data every 10 seconds |
| **Summary of Defect** | Crypto currency refreshed every 10 seconds instead of 15 |
| **Closed prior to Production Release?** | Yes |
| **Comments** | Worked as intended after refreshing the alert system |

Test Case ID: 9

|  |  |
| --- | --- |
| **Tester Pass/Fail Severity of Defect** | Computer RAM over 1GB |
| **Summary of Defect** | See if at any point RAM would intensify |
| **Closed prior to Production Release?** | Yes |
| **Comments** | RAM never went over 0.5 MB |

# 4.0 Test Instances

## 4.1 Resolved Test Incidents

|  |  |
| --- | --- |
| Test Incident ID | Resolution details |
| 2 | The bug was in the way the variables were defined. “Var” variables defined in the body of the class were not being detected in the constructor of that class |
| 3 | Had to edit the main class of the CryptoAlertSytem namespace, and manually create objects for each cryptocurrency user control |
| 4 | The bug was in the way the variables were defined. “Var” variables defined in the body of the class were not being detected in the constructor of that class |
| 5 | Changed the setting for the chart, to not start from zero, but from the very first value that it got from the very first API call |
| 6 | Just reset the application |
| 8 | No incidents occured |

## 4.2 Unresolved Test Incidents

|  |  |
| --- | --- |
| Test Incident ID | Unresolved incidents |
| 7 | Finding out why the alerts would not stop when fetching empty values |

# 5.0 Recommendations

There are no recommendations.

# Appendix A: Test Report Approval

The undersigned acknowledge they have reviewed the Crypto Alert System Test Report and agree with the approach it presents. Changes to this Test Report will be coordinated with and approved by the undersigned or their designated representatives.

Signature:

Date:

Print Name:

Title:

Role: Project Manager

# Appendix B: References

The following table summarizes the documents referenced in this document.

|  |  |
| --- | --- |
| **Document Name and Version** |  |
| **Description** |  |

# Appendix C: Key Terms

The following table provides definitions for terms relevant to this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
|  |  |