SE 3XA3: Test Plan Q-aRt Code

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October 21, 2016

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Table 1: Revision History

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

1 General Information

1.1 Purpose

This document is an outline of the procedures intended to be used to verify that the software project currently under development, Q-aRt Code satisfies requirements as specified in the SRS document. This plan and the majority of the tests described within have been constructed prior to the completion of the project implementation. As such, the intention of the document is to be used as a reference during the implementation of the software, and during testing.

1.2 Scope

The software under development for this project, Q-aRt Code, can be decomposed into modules. This includes modules to:

- Encode binary strings from the input data .
- Generate error correction codewords from the binary strings.
- Structure data and error correction binary strings, including interleaving.
- Create a matrix using the generated data according to QR code standards.
- Combine generated QR Code with input image to create artistic QR code.

The majority of the project is encoding binary strings from the input data, therefore, the scope of the testing for this software will largely be ensuring correctness of these generated strings, but also includes readability of the final generated QR code, as well as image quality.

- 1.3 Acronyms, Abbreviations, and Symbols
- 1.4 Overview of Document
- 2 Plan
- 2.1 Software Description
- 2.2 Test Team
- 2.3 Automated Testing Approach
- 2.4 Testing Tools
- 2.5 Testing Schedule

See Gantt Chart at the following url ...

3 System Test Description

3.1 Tests for Functional Requirements

3.1.1 Area of Testing1

Title for Test

Table 2: Table of Abbreviations

Abbreviation	Definition
Abbreviation1 Abbreviation2	

Table 3: Table of Definitions

Term	Definition
Term1 Term2	Definition1 Definition2

1. test-id1

Type: Functional, Dynamic, Manual, Static etc.

Initial State:

Input:

Output:

How test will be performed:

2. test-id2

Type: Functional, Dynamic, Manual, Static etc.

Initial State:

Input:

Output:

How test will be performed:

3.1.2 Area of Testing2

. . .

3.2 Tests for Nonfunctional Requirements

3.2.1 Area of Testing1

Title for Test

1. test-id1

Type:

Initial State:

Input/Condition:

Output/Result:

How test will be performed:

2. test-id2

Type: Functional, Dynamic, Manual, Static etc.

Initial State:

Input:

Output:

How test will be performed:

3.2.2 Area of Testing2

...

4 Tests for Proof of Concept

4.1 Area of Testing1

Title for Test

1. test-id1

Type: Functional, Dynamic, Manual, Static etc.

Initial State:

Input:

Output:

How test will be performed:

2. test-id2

Type: Functional, Dynamic, Manual, Static etc.

Initial State:

Input:

Output:

How test will be performed:

4.2 Area of Testing2

. . .

- 5 Comparison to Existing Implementation
- 6 Unit Testing Plan
- 6.1 Unit testing of internal functions
- 6.2 Unit testing of output files

References

7 Appendix

This is where you can place additional information.

7.1 Symbolic Parameters

The definition of the test cases will call for SYMBOLIC_CONSTANTS. Their values are defined in this section for easy maintenance.

7.2 Usability Survey Questions?

This is a section that would be appropriate for some teams.