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jShark
Network Protocol Analyzer for Android

Quality Assurance Plan

Version <1.0>

jShark<Project Name>	Version: <1.0>
Quality Assurance Plan	Date: 11/08/2013

Revision History

Date	Version	Description	Author
11/08/2013	1.0	Initial Quality Assurance Plan	Arukgodu J.S.

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Quality Assurance Plan

1. Introduction

1.1 Purpose

1.2 Scope

This document describes the complete quality assurance plan for jShark.

1.3 Definitions, Acronyms, and Abbreviations

- [1] Q.A. – Quality Assurance
- [2] ADT – Android Development Toolkit
- [3] IDE – Integrated Development Environment
- [4] RUP – Rational Unified Process

1.4 References

- [1] Software Requirement Specification, Version 1.0, @Arukoda J.S.

1.5 Overview

This document provides details about the quality assurance plan of project jShark. It describes the management, documentation, standards and guidelines, metrics, review and audit plan, evaluation and test, etc.

1.6 Quality Objectives

jShark should absolutely satisfy all requirements in the Software Requirement Specification.

2. Management

2.1 Organization

Since this is an individual project, testing will be done not by an independent test team but by myself.

2.2 Tasks and Responsibilities

- Audit / review of project plans to ensure they follow the defined process for the project
- Audit / review of the project to ensure the work performed is following the project plans
- Approval of deviations from the project plan
- Project improvement assessment

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3. Documentation

- Project Development Case
- Software Requirement Specification
- Software Architecture and Design Document
- Test Plan
- Integration Plan

4. Standards and Guidelines

- Documentation: RUP standards and best practices are to be adapted
- Coding: Industry level best practices are to be adapted

5. Metrics

Metric	Use
Number of code lines	Project Progress
Number of functional requirements implemented	Project Progress
Number of test cases for each module	Software quality
Number of bugs per 1000 codes	Code quality

6. Review and Audit Plan

- Requirement Review: During requirement analysis and elicitation
- Architectural Review: During elaboration phase
- Weekly Review :During every week of construction phase

7. Evaluation and Test

- Unit Testing
- Integration Testing

8. Tools, Techniques, and Methodologies

- Eclipse IDE with Android ADT bundle
- JUnit for unit testing testing
- Beta testing

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9. Training

System Requirement Specification document states that no training should be needed for an average user to use jShark. Therefore no training will be provided.

10. Risk Management

Risk should be prioritized and dealt accordingly. Please refer to Risk Management Documentation