PROJECT: BOGOR – JAVA ENVIRONMENT FOR ECLIPSE

DELIVERABLE: SQA PLAN

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1. Purpose

This SQA plan is used to ensure the high quality of the product during the project lifecycle. This document follows the format of the IEEE Standard for Software Quality Assurance Plans [5].

2. Reference Documents


3. Management

3.1. Organization

**Committee**
- Dr. Robby
- Dr. John Hatcliff
- Dr. Daniel Andresen

**Major Professor**
- Dr. Robby

**Developer**
- Yong Peng

**Formal Technical Inspectors**
- Matthew Hoosier (the Bogor full-time developer)
- Todd Wallentine (the Bandera full-time developer)

3.2. Responsibilities

**Committee**: Committee member will be attending presentations and giving feedbacks after each presentation.

**Major Professor**: The major professor is responsible for meeting with the developer to evaluate progress, give suggestions, and provide valuable guidance during the project.

**Developer**: Developer prepares all required documents, implements the product, and gives presentations to the committee.

**Formal Technical Inspectors**: The technical inspectors will review the project architecture artifacts and submit a formal report.
3.3. Tasks

All tasks are documented in project plan document. See section#2 for the referred document.

4. Documentation

MSE portfolio requirement website defines all required document for completing the project. All documents are saved at MSE project portfolio website. See section#2 for the referred document and website links.

5. Standards, Conventions, and Metrics

**Standards**: Documentation shall follow IEEE standards wherever applicable. Design and coding shall use object oriented analysis and design methods.

**Conventions**: Coding styles shall follow java program conventions.

**Metrics**: COCOMO II is used for effort estimation

6. Reviews and Audits

The committee member will review the documents and the executed prototype. Comments and suggested changes will be provided to developer for adjustments.

7. Test and Problem Reporting

Time log on the project website records each test along with its results. A report shall be provided to committee members for all unresolved problems.

8. Tools, Techniques, and Methodologies

The following tools will be used for coding, testing, and documentation.

- Eclipse V3.1
- SWT
- JFACE
- JUnit
- MS Word
- MS Project
- CVS

9. Media Control

All project materials are available on developer’s website. Source code is available on CVS: robbys.user.cis.ksu.edu
10. Records collection, maintenance and retention

Entire source code, documentation and web pages for the project website will be submitted to the Major Professor. Source code is also available in CVS. The developer retains those materials.

11. Deliverables

**Phase I:**
- Vision Document
- Project Plan
- Demonstration (prototype)
- Software Quality Assurance Plan

**Phase II:**
- Vision Document
- Project Plan
- Formal Requirements Specification
- Architecture Design
- Test Plan
- Formal Technical Inspection
- Executable Architecture Prototype

**Phase III:**
- User Manual
- Component Design
- Source Code
- Project Evaluation
- Formal Technical Inspection Letters
- Executable project