

# **QA(Quality Assurance) Plan**

**Group 7**

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# 1. Introduction

## 1.1 Purpose

The Quality Assurance is a very important part for the project to preventing mistakes or defects on products and avoiding problems when delivering product to customers. However, it is hard to organize the quality assurance without documentation for it. A Quality Assurance Plan can help the team to keep track on what quality assurance stage the team is on, how to prevent mistakes or defects on product and avoiding problems for each stage and it can also become a Quality Assurance check plan when delivering product to customer.

## 1.2 Scope

Due to the reason that project will be built as a web-based application; the quality assurance for the project must satisfy that the product server can be run 24 hours a day and 7day per week without some unexpected failure. The maintenance is very hard because students who are doing this project will possibly not be able to fix any critical bug after the product start serving. Therefore, the quality assurance also needs to make sure the product has no extra defect occur after a long period running on the environment it runs. Team members also need to satisfy the quality of the project if there are changes with requirements.

## 1.3 Definitions, Acronyms and Abbreviations

<i>Phrase</i>	<i>Definition</i>
Team or Group	Group 7
SEGP	Software Engineering Group Project
Cluster	Group 7 and Group 8
QAP	Quality Assurance Plan

<b>Ruby on Rails</b>	<b>A web application framework which use Ruby as a programming language</b>
<b>PP</b>	<b>Project Plan</b>
<b>TP</b>	<b>Test Plan</b>
<b>REQDOC</b>	<b>Requirements Document</b>
<b>GitHub</b>	<b>Versioning or Configuration Managing system</b>
<b>US</b>	<b>User Stories</b>

## 1.4 References

- Test Plan
- Requirements Document
- Project Plan

## 2. Quality Objectives

- Correct functionality
  - Test needed
- No or low defect on long time and frequently usage
  - Web-based application
- Less, simple or no maintenance needed

## **3. Management**

### **3.1 Organization**

The project will be takes as using agile process so that frequent tests will be recommend to organizing responsible of the Quality Assurance. Unit tests can be take every interaction and system test is also needed when combining units up.

### **3.2 Tasks & Responsibilities**

All members within the team should join tasks below to satisfy the Quality Assurance:

- Unit checks
- Joint review
- Process Audits
- Process review

And the customer will join the customer audits.

## **4. Documentation**

- Test plan
- Project plan
- Requirements document

## **5. Tools, Techniques and Methodologies**

Ruby on Rails and Git are needed for this project to build the application and code versioning.

## **6. Configuration Management**

Git system will be used to do the configuration management

- record the system used to implement code (some documentation files)
- record time stamp
- specification include inside commitments