<Image Gallery>

Requirements Management Plan

Version <1.0>

Revision History

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| --- | --- | --- | --- |
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| <27/11/2020> | <1.0> | <Final Document> | Nguyen Tuan Hung |
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Requirements Management Plan

# Introduction

## Purpose

This Requirements Management Plan provides a full outline of requirements management activities for Image Gallery software and it also gives details of the requirement documents and requirement types set up process, and their respective requirement attributes and traceability.

## Scope

This Requirements Management Plan is to help the people who are deveeloping Image Gallery software.

## Definitions, Acronyms, and Abbreviations

IMG – Image Gallery.

## References

## Overview

[This subsection describes what the rest of the **Requirements Management Plan** contains and explains how the document is organized.]

# Requirements Management

## Organization, Responsibilities, and Interfaces

In our group:

* Ha – Business Modeling
* Hung – Requirements Definition
* Hoa + Hieu – System Analysis and Design and Prototype

## Tools, Environment, and Infrastructure

|  |  |
| --- | --- |
| **Tools** | **Purpose** |
| 1. MS Project | Task distribution for the group’s members. |
| 2. UML (StarUML, Virtual Diagram) | Draw usecase diagram to describe our IMG software’s function. |
| 3. Java, SQL, HTML | The enviroments are used to design the software. |

# The Requirements Management Program

## Requirements Identification

|  |  |  |
| --- | --- | --- |
| **Artifact**  **(Document Type)** | **Traceability Item** | **Description** |
| Stakeholder Requests (STR) | Stakeholder Request (STRQ) | Key requests, including Change Requests, from stakeholders  [If you use a Change Request Management tool, such as Rational ClearQuest, then stakeholder requests are often stored in that tool and not duplicated in the requirements management tool.] |
| Vision (VIS) | Stakeholder Need (NEED) | Key stakeholder or user need |
| Vision (VIS) | Feature (FEAT) | Conditions or capabilities of this release of the system |
| Use-Case Model | Use Case (UC) | Use cases for this release, documented in Rational Rose |
| Supplementary Specification (SS) | Supplementary Requirement (SUPP) | Non-functional requirements that are not captured in the use-case model |

## Traceability

Traceability matrix and traceability graph are made to help the users keeping track of every the requirements’ adjustment as well as locating the requirements’ origin.

## Attributes

* Status

+ Proposed: the period of proposing the attributes.

+ Approved: after the reviewing, the attributes will be approved if they are appropriate to the team.

+ Rejected: after the reviewing, the attributes will be rejected if they are inappropriate to the team.

* ****Benefit****

****+** Improve teamwork and team’s interaction.**

****+** Collaborate with multiple stakeholders.**

****+** Distributing functional units easier and accomplish milestones faster.**

* ****Effort****

The plan requires different tasks undertaken by specific members in the group, which improves the requirements management plan’s accuracy and effect.

+ Hoa and Ha are in charge of coding in 2 weeks.

+ Hung and Hieu are in charge of writing documents related to IMG software in 2 weeks.

* ****Risk****

It will divided into levels which are: high, medium, low.

* ****Stability****

Stability is always maintained at more than 60%.

* ****Target Release****

+ Release a perfect product to the users.

+ The product approved all the customer’s requirements and capable to adjust when there is any negative feedback.

* ****Assigned to****

In this project, the Requirement Definition including all of its contents is assigned to 2 members of our group at Hanoi University (HANU)

* Nguyen Tuan Hung
* Do Minh Hieu
* ****Reason****

The Requirements Management Plan is made for specific reasons including:

+ Be the reference for the other plans content.

+ Provide a full overview for the other plans as well as give extent details in this plan.

+ Adapt the document sections to cover only those areas that are not covered elsewhere.

## Reports and Measures

All the reports in this Requirement Definition are formatted as Rational Unified Process (RUP) specific documents.

As we know, the Rational Unified Process (RUP) is an iterative software development process framework created by the Rational Software Corporation, a division of IBM since 2003. RUP is not a single concrete prescriptive process, but rather an adaptable process framework, intended to be tailored by the development organizations and software project teams that will select the elements of the process that are appropriate for their needs. RUP is a specific implementation of the Unified Process.

## Requirements Change Management

### **Change Request Processing and Approval**

When customers want to change request, it has two cases:

+ Approved: make sure that we will have one more contract including new changes and terms. There will be 2 copies of the contract which will be kept by customers and our team.

+ Unapproved: not have contract

### **Change Control Board (CCB)**

When customers propose problems, the processing will be:

+ Meeting: to discuss and take note of the new changes, check wether the changes match the requirements and deadline.

+ Customer meeting: discuss with them about which functions are implemented, canceled…

+ Make contract: The contract contains new adjustments and it will be sent to 2 parties.

## Workflows and Activities

* Team leader is the one approving customer’s requests
* Review objectives: adjust requirements as soon as possible
* Time: Tuesday and Friday every week
* Procedure:

+ Show list of requirements

+ Meeting: Estimate cost, human resources, time…

+ Customer meeting: Discussing about customer’s request.

+ Contract.

# Milestones

|  |  |
| --- | --- |
| **Date** | **Tasks** |
| 10/11/2020 | Ideas on requirements were proposed |
| 15/11/2020 | Ideas were unified to make the official and ultimate requirements of this project. |
| 30/11/2020 | A Requirements Management Plan was set out. |
| 01/12/2020 – 13/12/2020 | The Requirements Management Plan was modified and completed. |

# Training and Resources

- Trainers: Our team leader is the trainer of our group.

- Tools for training: Visual Paradigm, StarUML are used to draw UML Diagram.