

**Barangay Management System
(BMS) for Barangay Baloganon,
Masinloc, Zambales**

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**A Thesis
Presented to
The Faculty of the College of Communication and Information Technology**

**In Partial Fulfillment
Of the requirements for the Degree
Bachelor of Science in Information Technology
Ramon Magsaysay Technological University
Masinloc Campus, Zambales**

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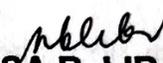
Republic of the Philippines
RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY
Masinloc, Zambales
COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY



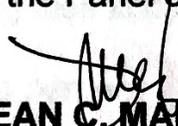
The study hereto attached entitled

**BARANGAY MANAGEMENT SYSTEM (BMS)
FOR BARANGAY BALOGANON, MASINLOC ZAMBALES**

has been prepared and submitted by **BEVERLY F. ECLARINAL, EZA A. ECLARINAL,
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who is hereby recommended for Oral Examination.


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Accepted as a requirement for the Degree
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

APPROVED:

March 15, 2017
Oral Date Presentation

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ABSTRACT

Title: **Barangay Management System (BMS)**

Researchers: **Eclarinal, Beverly F.**

Eclarinal, Eza A.

Molino, Michelle M.

Estrellado, Ian Lee

Florentino, Ralph Harren

Degree: **Bachelor of Science in Information Technology**

Institution: **Ramon Magsaysay Technological University-**

Masinloc Campus

Year: **2017**

Adviser: **Mrs. Nerissa Liban**

The Problem:

This study aimed to develop a Barangay Management System to improve the barangay services to the clientele. Specifically, it sought to answers the respondents' evaluation on the software quality of the Barangay Management System using the ISO/IEC 25010 in terms of: functional sustainability, performance efficiency, compatibility, usability, reliability, security, maintainability and portability. It assessed the the level of acceptability of the respondents Barangay Management System in terms of: content,

accuracy, ease of use and timeliness. Lastly, the economic feasibility of the Barangay Management System was determined.

Research Methodology

The study made use the descriptive method of research. The researchers presented demographic characteristics of the respondents and the perceived level on the evaluation of the software quality and level of acceptability.

Agile Methodology is a particular approach to project management that is utilized in software development. This method assists teams in responding to the unpredictability of constructing software. It uses incremental, iterative work, sequences that are commonly known as sprint.

A Use Case is a single unit of meaningful work; for example login to system, register with system and create order are all Use Cases. Each Use Case has a description which describes the functionality that will be built in the proposed system. A Use Case may 'include' another Use Case's functionality or 'extend' another Use Case with its own behavior. Use Cases are typically related to 'actors'. An actor is a human or machine entity that interacts with the system to perform meaningful work.

Summary of Findings

The significant findings of this study revealed the following:

1. IT Experts' Evaluation on the Software Quality of the Barangay Management System in terms of:
 - 1.1 Functional Sustainability. Indicator 1 and 2, "Set of functions covers all the specified tasks and user objectives." and " Provides the correct results with the needed degree of precision." garnered the highest rank and evaluated as Excellent (E) with a computed weighted mean of 4.47 (rank1.5). Indicator 3, "Functions facilitate the accomplishment of specified tasks and objectives." garnered the lowest rank and evaluated as Excellent (E) with computed weighted mean of 4.40 (rank3).
 - 1.2 Performance Efficiency. both Indicator 1 and 2, "Response and processing times and throughput rates of a product or system, when performing its functions, meet requirements" and "Amount and types of resources used by product or system when performing its functions, meet requirements." garnered the highest rank and evaluated as Excellent (E) with computed weighted mean of 4.47 (rank 1.5). Indicator 3, "Maximum limits of a product or system parameter meet requirement" garnered the lowest rank and evaluated as Excellent (E) with computed weighted mean of 4.47 (rank3).
 - 1.3 Compatibility. Indicator 3,"System, product or components can exchange information and use the information that has been exchanged." garnered the highest rank and evaluated as Excellent (E) with computed weighted mean of 4.20 (rank 1). Indicator 1,"System, product or component exchange