

**BARANGAY TALTAL INFORMATION AND SERVICE MANAGEMENT
SYSTEM (BTIASMS)**

**A Thesis
Presented to
The Faculty of the College of Communication and Information Technology
Ramon Magsaysay Technological University
Masinloc, Zambales**

**In Partial Fulfilment
Of the Requirement for the Degree
Bachelor of Science in Information Technology**

**By:
Adrian Roi E. Alop
Frederick I. Morado
Frederick C. Navarro
Augustine E. Pacumio
Boyeth E. Rocellosa**

March 2018

APPROVAL SHEET



**Republic of the Philippines
College of Communication and Information Technology
Ramon Magsaysay Technological University
Masinloc, Zambales**

COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

A research study presented to the faculty of the College of Communication in Information Technology in partial fulfilment of the requirement for the degree Bachelor of Science in Information Technology:

**BARANGAY TALTAL INFORMATION AND SERVICE
MANAGEMENT SYSTEM (BTIASMS)**

Has been prepared and submitted by
Who are hereby recommended for oral examination on February 23, 2018

N. L. Javier
NERISSA L. JAVIER, MSCS
Adviser

Approved by the Committee of Oral Examiners:

M. C. Marave
MELOJEAN C. MARAVE, MSIT
Chairman

G. Sepillo
GEOFFREY SEPILLO, Ed. D.
Member

M. E. Bisquerra
ENGR. MARK E. BISQUERRA
Member

Accepted as requirement for the Degree of Bachelor of Science in Information Technology

4-2-18

Date Signed

N. M. Nacana
NELSON M. NACANA, Ed.D.
Campus Director

ABSTRACT

This study aimed to develop a Barangay Information And Service Management System to improve the barangay services to the clientele. Specially, it sought to answers the respondents' evaluation on the software quality of the Barangay Information and Service Management System using the ISO/IEC 25010 in terms of: functional suitability, performance efficiency, compatibility, usability, reliability, security, maintainability and portability. It assessed the level of acceptability of the respondents Barangay Information and Service Management System in terms of: content, accuracy, ease of use and timeliness. Lastly, the economic feasibility of the Barangay Information and Service Management System was determined.

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.

Concept deals with the identification of potential projects, prioritize potential projects, develop initial vision and consider project feasibility. Inception deals with the stakeholders' participation obtain funding and support. It is the time to organize the development learns, initial requirement envisioning, set up environment and initial architecture envisioning.

Based on the findings, the researchers concluded that the IT Experts' Evaluation on the software Quality of the Barangay Information And Service Management System in terms of: Functional Sustainability. Evaluated as Very Good (VG) with an average weighted mean of 4.3.

Performance Efficiency. Evaluated as Very Good (VG) with an average weighted mean of 4.3. Compatibility. Evaluated as Very Good (VG) with an average weighted mean of 4.2. Usability. Evaluated as Very Good (VG) with an average weighted mean of 4.2.

Reliability. Evaluated as Very Good (VG) with an average weighted mean of 4.3.

Security. Evaluated as Very Good (VG) with an average weighted mean of 4.3

Maintainability. Evaluated as Very Good (VG) with an average weighted mean of 4.16.

Portability. Evaluated as Very Good (VG) with an average weighted mean of 4.4.

The summary of the IT experts' evaluation on the software quality of the Barangay Information And Service Management System using the ISO/ IEC 25010 Metrics evaluated as Very Good (VG) with an average weighted mean of 4.3. Level of Acceptability of the Respondents on the Barangay Information And Service Management System. Content Evaluated as Acceptable (A) with a weighted mean of 3.9. Accuracy. Evaluated as Acceptable (A) with a weighted mean of 3.9. Ease of Use. Evaluated as Acceptable (A) with a weighted mean of 4.12. Timeliness. Evaluated as Acceptable (A) with a weighted mean of 4.28. Security. Evaluated as Acceptable (A) with an average weighted mean of 3.8. The summary of the respondents' evaluation on the Level of Acceptability of the Barangay Information And Service Management System for Barangay Taltal, Masinloc, Zambales perceived as Acceptable (A) with a total grand mean of 4.02. The development of Barangay Information And Service Management System is cost effective and reasonable. In light of the findings and conclusions, the following are hereby recommended: Implement the Barangay Information And Service Management System in Barangay Taltal, Masinloc, Zambales in their office procedures. Conduct orientation and trainings to the Barangay Chairman, Secretary and Treasurer as

the end-users of the System. Maintain the system to ensure the smooth operation in the office procedures in barangay. The system can be used for further study to improve its present features.

TITLE PAGE	AEAR
APPROVAL SHEET	MIF
ACKNOWLEDGEMENT	NCF
ABSTRACT	PEA
TABLE OF CONTENTS	REB
LIST OF TABLES	
LIST OF FIGURES	
CHAPTER	
1. INTRODUCTION	
Background of the Study	
Statement of the Problem	
Scope and Limitation of the Study	
Significance of the Study	
2. FRAMEWORK OF THE STUDY	
Review of Related Literature	
Theoretical Framework	
Conceptual Framework	