

**DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM  
FOR BARANGAY KAYTAPOS, INDANG, CAVITE**

**THESIS**

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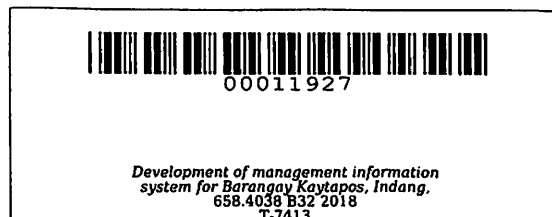
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# **DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM FOR BARANGAY KAYTAPOS, INDANG, CAVITE**

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## **ABSTRACT**

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The study, Development of Management Information System for Barangay Kaytapos Indang, Cavite, was conducted from August 2017 to April 2018, at Cavite State University and Barangay Kaytapos, Indang, Cavite to provide a secure and more manageable barangay records such as residents and barangay officials' information. Specifically, it aimed to: 1. develop a computerized management information system for the client barangay which included a profiling module that provided a more detailed and updated information about the residents. Thereby, it guaranteed the client of a more reliable, accurate and easy to retrieve records; 2. manage the data properly and secure confidential files of the barangay and the residents by having a backup database of all the records; and 3. disseminate information and announcements to the residents and officials through SMS notification module. The system was made up of 10 modules namely, account management module, barangay officials module, resident profiling module, finance management module, health and sanitation module, peace and order module, clearances and forms, communication module, special projects and report generation module.

Iterative development model was the methodology used by the researchers which consist of seven phases: planning phase, requirement and analysis design phase, implementation phase, software testing phase, testing phase, evaluation phase and

deployment phase. Hypertext Preprocessor (PHP), My Structured Query Language (MySQL), Hypertext Markup Language and Apache as the server were among the application used during the development of the software.

The software was evaluated and tested using unit, integration and system testing. Wherein, 10 IT experts from the College of Engineering and Information Technology and 10 barangay officials of barangay Kaytapos Indang, Cavite evaluated and gave their feedbacks towards the system. It was evaluated according to its functionality, reliability, usability, efficiency, maintainability, portability and user-friendliness. The result of the evaluation showed that the system met all the requirements and expectations of the organization.

## TABLE OF CONTENTS

	Page
<b>BIOGRAPHICAL DATA</b> ... ..	iii
<b>ACKNOWLEDGEMENT</b> ... ..	v
<b>ABSTRACT</b> ... ..	vii
<b>LIST OF TABLES</b> ... ..	xi
<b>LIST OF FIGURES</b> ... ..	xii
<b>LIST OF APPENDIX FIGURES</b> ... ..	xiii
<b>LIST OF APPENDICES</b> ... ..	xv
<b>INTRODUCTION</b> ... ..	1
Statement of the Problem ... ..	3
Significance of the Study ... ..	4
Objective of the Study ... ..	5
Time and Place of the Study ... ..	5
Scope and Limitation of the Study ... ..	6
Definition of Terms ... ..	10
Theoretical Framework ... ..	12
<b>REVIEW OF RELATED LITERATURE</b> ... ..	17
<b>METHODOLOGY</b> ... ..	33
Materials ... ..	33
Methods ... ..	33
Planning ... ..	33

Requirements and analysis design ... ..	34
Implementation ... ..	35
Testing phase ... ..	35
Evaluation phase ... ..	36
<b>RESULTS AND DISCUSSION ... ..</b>	<b>38</b>
Technical Evaluation ... ..	51
Non-technical Evaluation ... ..	59
<b>SUMMARY, CONCLUSION AND RECOMMENDATION ... ..</b>	<b>64</b>
Summary ... ..	64
Conclusion ... ..	65
Recommendation ... ..	66
<b>REFERENCES ... ..</b>	<b>67</b>
<b>APPENDICES ... ..</b>	<b>68</b>

## LIST OF TABLES

Table		Page
1	Comparison of related studies ... ..	32
2	Scale of the evaluation used by the respondents ... ..	51
3	The respondents' assessment of technical evaluators to the functionality of the system .....	52
4	The respondents' assessment to the reliability of the system .....	53
5	The respondents' assessment of technical evaluators to the usability of the system .....	54
6	The respondents' assessment of technical evaluators to the efficiency of the system .....	55
7	The respondents' assessment of technical evaluators to the maintainability of the system .....	56
8	The respondents' assessment of technical evaluators to the portability of the system .....	57
9	The respondents' assessment of technical evaluators to the user-friendliness of the system .....	58
10	The overall assessment of technical evaluation .....	59
11	The respondents' assessment of non-technical evaluators to the functionality of the system .....	60
12	The respondents' assessment of non-technical evaluators to the reliability of the system .....	61
13	The respondents' assessment of non-technical evaluators to the usability of the system .....	61
14	Respondents' assessment of non-technical evaluator to user-friendliness of the system .....	62
15	The overall assessment of non-technical evaluation .....	63

## LIST OF FIGURES

Figure		Page
1	Theoretical framework of Management Information System for Barangay Kaytapos, Indang, Cavite ... ..	13
2	Iterative model (Larma & Basili, 2012) ... ..	34
3	The system's main homepage ... ..	40
4	The user's homepage ... ..	40
5	The resident profiling dashboard ... ..	41
6	The account module page .... ..	41
7	The forms and clearances module page ... ..	42
8	The health and sanitation module page ... ..	43
9	The peace and order module page ... ..	44
10	The finance management module page ... ..	45
11	The resident profiling module page ... ..	45
12	The announcement module page ... ..	46
13	The special projects module page ... ..	47
14	The barangay official module page ... ..	48
15	The report module page ... ..	48
16	Screenshot of the MySQL environment ... ..	49
17	The XAMPP control panel ... ..	49



## LIST OF APPENDIX FIGURES

Appendix Figure		Page
1	Fishbone diagram of data inconsistency and redundancy ... ..	69
2	Fishbone diagram of poor security of data ... ..	70
3	Fishbone diagram of difficulty in dissemination of information and engaging the residents in barangay activities ... ..	71
4	Gantt chart ... ..	72
5	Use case diagram of account module ... ..	73
6	Use case diagram of barangay official module ....	74
7	Use case diagram of finance module ... ..	75
8	Use case diagram of resident profiling module ... ..	76
9	Use case diagram of health and sanitation module ... ..	77
10	Use case diagram of peace and order module ... ..	78
11	Use case diagram of clearance and forms module ... ..	79
12	Use case diagram of special projects module ... ..	80
13	Use case diagram of communication module ... ..	81
14	Use case diagram of report generation module ... ..	82
15	Entity relationship diagram of account module ... ..	83
16	Entity relationship diagram of barangay official module... ..	84
17	Entity relationship diagram of health and sanitation module... ..	85
18	Entity relationship diagram of clearances and forms... ..	86

19	Entity relationship diagram of communication module... ..	87
20	Entity relationship diagram of Resident Profiling Module... ..	88
21	Entity relationship diagram of peace and order module	89
22	Entity relationship diagram of special projects module	90
23	Entity relationship diagram of report generation module	91
24	Entity relationship diagram of finance module	92

## LIST OF APPENDICES

Appendix		Page
1	Interview Report ... ..	94
2	Unit test ... ..	99
3	Sample code ... ..	109
4	Evaluation sheet and evaluation sample ... ..	120
5	Letters, certificates, forms, etc. ... ..	125

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## **INTRODUCTION**

Management Information System (MIS) is one of a number of different types of information systems that can serve the needs of different levels in an organization according to Turban, Mclean and Whetherbe (2007). It is a combination of men, machine and procedures for collection of consistent and right information from the internal and external source of an organization and processing this information for the purpose of facilitating the process of decision making. It gives a balanced coverage of the managerial and technical issues critical to controlling the information resources of an organization. Therefore, a management information system produces information that supports the management function of an organization.

Barangay is the native Filipino term for a village, district or ward and is the smallest administrative division in the Philippines. It is formerly referred to as barrio.