

**DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM  
FOR INDANG MUNICIPAL HEALTH CENTER**

**THESIS**

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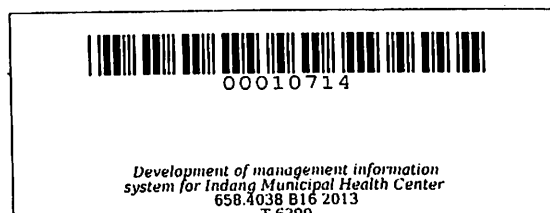
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**DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM FOR  
INDANG MUNICIPAL HEALTH CENTER**

Undergraduate Thesis  
Submitted to the Faculty of the  
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In partial fulfilment  
of the requirements for the degree of  
Bachelor of Science in Information Technology



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## **ABSTRACT**

**BAJAN, JERRY JOHN C. and TONGSON, PATRICK G. Development of Management Information System for Indang Municipal Health Center.** Undergraduate Thesis. Bachelor of Science in Information Technology. Cavite State University, Indang, Cavite. March 2013. Adviser: Vanessa G. Coronado.

The study was conducted at the Indang Municipal Health Center to develop a management information system for the organization. Specifically, the study aimed to: 1. identify the problems of the health center; 2. analyze the problems of the health center; 3. design a management information system; 4. develop the designed system using Visual Basic 10; 5. test the system and, 6. evaluate the system with the participants.

Structured evolutionary prototyping model was used in the development of the system because of its feature where the data and information gathered can be used to refine the requirement of the system until it meets the expectations. Its phases included requirements analysis and gathering, program designing, prototype building, software testing, and customer evaluation. Furthermore the system was evaluated based on functionality, reliability, usability, efficiency, maintainability, portability, and output of the system. After the evaluation the software successfully met all the requirements needed by its intended users.

The results show that the system was judged to be “excellent” in general by all of the participants in terms of its functionality, reliability, usability, efficiency, maintainability, portability and output of the system. Mean and standard deviation were used in the statistical analysis of the data.

Management information system for Indang Municipal Health Center was developed to solve the problems of the traditional practice of information storage and retrieval at the

Indang Municipal Health Center. The system consisted of five modules, namely: Administrator Module which deals with the administering of security, data, and its users; Patient Information Module which has the information about the patients, Transaction Management Module which acts as the archive of the transactions that each patient acquires; Personnel Module which holds the personal information and work hours of the employees; and, Report Module which generates the reports in the Indang Municipal Health Center.

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# **DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM FOR INDANG MUNICIPAL HEALTH CENTER**

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## **INTRODUCTION**

Laudon (2009) stated that a management information system (MIS) provides information which is needed to manage organizations efficiently and effectively. It is distinct from other information systems in that they are used to analyse operational activities in the organization. Moreover, this involves three primary resources: people, technology and information. Initially in businesses and other organizations, internal reporting was produced manually and only periodically. Data was organized manually according to the requirements and necessity of the organization. As computational technology developed, information began to be distinguished from data and systems were developed to produce and organize abstractions, summaries, relationships and generalizations based on the data.

According to Bhargava (2009) information system and Information technology have become a vital component of any successful business and are regarded as major