De La Salle University - Dasmariñas

Center for Indigenous Medicine Archives Library Management System

2002

An Undergraduate Special Problem

Presented to

The Faculty of Mathematical Sciences and Computer Studies Department

De La Salle University – Dasmariñas

Dasmariñas, Cavite

In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Computer Science

by

Ganzon, Stoeker C.

Reyes, Michael Angelo R.

March 1999

AKLATANG EMILIO AGUINALDO
ARCHIVES

TABLE OF CONTENTS

1.0 Introduction	1
1.1 Background of the Research Problem	1
1.2 Statement of the Research Problem	3
1.3 Statement of Objectives	3
1.3.1 General Objective	3
1.3.2 Specific Objectives	4
1.4 Significance of the Study	4
1.5 Scope and Limitations of the Study	5
1.6 Methodology	6
2.0 Review of Related Literature	11
3.0 Theoretical Framework	25
3.1 Statement of Assumptions	25
3.2 Operational Definitions	25
3.2.1 Definition of Terms	25
3.2.2 Definition of Processes	26
3.3 Theories used in the Study	26
4.0 The Existing System	33
4.1 Description of the System	33
4.2 Definition of Data Capture	33
4.3 Inputs	35
4.4 Processes	35
4.5 Files	36
4.6 Outputs	36
4.7 Data Flow Diagram	37
4.8 Problem Areas	38
5.0 The Proposed System	39
5.1 System Overview	39
5.2 System Objectives	39
5.3 Scope	40
5.4 System Justification	40
6.0 Design	41
6.1 Inputs	41
6.2 Processes	41
6.3 Files	43
6.4 Outputs	44
7.0 Implementation	45
7.1 Resource Requirements	45
7.1.1 Software Requirements	45
7.1.2 Hardware Requirements	45

GEN. EMILIO AGUINALDO - INFORMATION RESOURCE CENTER
University of Dasmariñas • Since 1977 • Dasmariñas, Cavite, Philippines

7.1.3 Human Resource Requirements 45
7.2 Installation Plans 45
7.2.1 System Installation 45
7.2.2 Conversion Plans 46
7.2.3 Testing 46

8.0 Cost and Benefit Analysis 47
8.1 Resource Requirement 47
8.2 Operational Setup 47

9.0 Conclusions and Recommendations 48

AKLATANG EMILIO AGUINALDO - INFORMATION RESOURCE CENTER
De La Salle University-Dasmariñas • Since 1977 • Dasmariñas, Cavite, Philippines

List of Figures

Figure 1-1	Components of Information System
Figure 1-2	Prototyping Cycle
Figure 2-1	Card Catalog
Figure 2-2	DBMS Approach
Figure 3-1	Three Major Steps in Normalization
Figure 3-2	Symbols Used in Data Flow Diagram
Figure 4-1	Physical DFD (Existing system)

APOLINARIO GUINALDO - INFORMATION RESOURCE CENTER
De La Salle University-Dasmariñas • Since 1977 • Dasmariñas, Cavite, Philippines

Appendices

Appendix A – Questionnaire
Appendix B – Answers to Questionnaire
Appendix C – Data Dictionary
Appendix D – Normalization
Appendix E – Entity Relationship Diagram (Existing System)
Appendix F – Entity List
Appendix G – Screen Layout
Appendix H – Data Flow Diagram-Top Level (Proposed System)
Appendix I – Certification from Special Problem Review Panel
Appendix J – Certification for an Official Special Problem Clearance
Appendix K – Certification from the Editor
Appendix L – Certification from CRC Representative
Appendix M – Certification from SP Adviser
Appendix N – Curriculum Vitae' of Michael Angelo R. Reyes
Appendix O – Curriculum Vitae' of Stocker C. Ganzon

ARELLANO GENERAL EDUCATION RESOURCE CENTER
De La Salle University-Dasmariñas • Since 1977 • Dasmariñas, Cavite, Philippines

ABSTRACT

Center for Indigenous Medicine Archives
Library Management System

The Center for Indigenous Medicine Archives Library Management System (CIMA-LMS) is a library management system built for the Center for Indigenous Medicine (CIM). CIM Archives houses, books, journals, loose-leaf articles, videotapes, and instructional materials such as slides and posters. It covers books only. (CIMA-LMS was built in Visual Basic). The objectives of the system are the following: to eradicate the traditional approach of searching in the Center for Indigenous Medicine Archives, give information on the status of the book whether in or out, available or not, and others, provide information on the book and monitor checking in/out of books.