De La Salle University - Dasmariñas

NETWORK BASED PAYROLL WITH BIOMETRICS FOR PAMANA MEDICAL CENTER

A Special Problem

Presented To

The Computer Studies Department

College of Science

De La Salle University – Dasmariñas

In partial fulfilment of the requirements for the

Degree of Bachelor of Science in

Computer Science

De Villa, Marvhie S.

Habana, Christian P.

Marfa, Gian Marvin O.

December 2010

ABSTRACT

The Proposed Network based payroll with biometrics for Pamana Medical Center is developed using VB.net and MS access

The proposed system is a network based payroll system that records the log time of the employee with biometrics scanner. The proposed system automatically computes and produces information needed for the generation of reports. The information recorded by the system is secured because it is password protected. The proposed system's user interface is simple in order to be user friendly.

The proposed system is developed to improve and enhance the current manual computation of payroll for Pamana Medical Center. The proposed system provides a better, fast and accurate data. It also provides solution to the problems encountered in the existing system.

Table of Contents

Title Page ..... **I**

Abstract ..... **II**

Table of Contents ..... **III**

List of Tables ..... **IV**

List of Figures ..... **IV**

Chapter 1 - Introduction **1**

Background of the Study 1

Statement of the Research Problem 3

Statement of Objectives 5

General Objectives 5

Specific Objectives 5

Significance of the Study 6

Scope and Limitations of the Study 7

Methodology of the Study 8

Chapter 2 – Review of Related Literature **12**

Local Literature 12

Foreign Literature 14

Chapter 3 – Theoretical Framework **16**

Statement of Assumptions 16

Operational Definitions 16

Definition of Terms 16

Definition of Processes 17

Theories Used in the Study 20

Chapter 4 – The Existing System 25
Description of the System 25
Definition of Data Capture 26
Inputs 28
Processes 30
Files 36
Outputs 39
Problem Areas 40

Chapter 5 – The Proposed System **41**
System Overview 41
System Objectives 42
Scope and limitations 43
System Justification 43

Chapter 6 – Design **45**
Inputs 45
Processes 48
Files 55
Outputs 59

Chapter 7 – Implementation **64**
Resource Requirements 64
Software Requirements 64
Hardware Requirements 64
Human Resource Requirements 65
Installations Plans 65
System Installation 65

Training Plans 66
Conversion Plans 67
Testing 67

Chapter 8 – Conclusions and Recommendations 68
Conclusions 68
Recommendations 68

Appendices 69
Appendix A: Data Flow Diagrams VI
Appendix B: Entity Relationship Diagram VII
Appendix C: Normalization VIII
Appendix D: Sample Forms IX
Appendix B: Screen Design X

List of Tables

Table 1.0 – Training Plan Schedule 66

List of Figures

Figure 1.0 – The Spiral Model 8

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