

# A NETWORK-BASED PAYROLL SYSTEM FOR DIGITIZED DATA WITH BIOMETRIC TECHNOLOGY

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 Bachelor of Science in Information Technology

Bustamante, Aaron James M.
Borromeo, Marvin Z.
Giray, Bryan E.

September 2010



#### **ABSTRACT**

The proponents have designed network-based payroll system for digitize data with biometric technology which creates an easier way for the HR department to summarize attendance, Accounting department to compute payroll and the company to handle management and reports. The proposed system lessens work to save time which makes it convenient. Each department has its own module: In the HR department it can check and update attendance and in the Accounting Department the main payroll module is found where in the computations and deductions take place. The proposed system stores all data, accounts, information and computations done on the ordering module on the database provided. The proposed system has security features which are installed on the system to ensure data integrity and protection. The proposed system provides easy maintenance which comes in three ways: adding, modifying, and deletion. Lastly, the proposed system generates reports like SSS report, PhilHealth report and Tax Contribution report semi-monthly, monthly, and annually.

# De La Salle University – Dasmariñas

## **Table of Contents**

Title Page	
Acknowledgements	i
Certification	· ii
Abstract	iii
Approval Sheet	iv
Table of Contents	v
Chapter 1: INTRODUCTION	1
1.1 Background of the Study	1
1.2 Statement of the Research Problem	4
1.3 Statement of Objectives	5
1.4 Significance of the Study	4
1.5 Scope and Limitations of the Study	6
1.6 Methodology of the Study	7
Chapter 2: REVIEW OF RELATED LITERATURE	11
Chapter 3: THEORETICAL FRAMEWORK	16
3.1 Statement of Assumption	16
3.2 Operational Terms	16
3.3 Theories Used in the Study	20
Chapter 4: EXISTING SYSTEM	25
4.1 Description of the System	25
4.2 Inputs	25
4.3 Processes	26

De La Salle University – Dasmai	rinas
4.4 Files	30
4.5 Outputs	32
4.6 Data Flow Diagram (See Appendix A)	
4.7 Problem Areas	33
Chapter 5: PROPOSED SYSTEM	34
5.1 System Overview	34
5.2 System Objectives	36
5.3 Scope	36
5.4 System Justification	37
Chapter 6: DESIGN	38
6.1 Inputs	38
6.2 Processes	39
6.3 Files	40
6.4 Outputs	42
Chapter 7: IMPLEMENTATION	44
7.1 Resource Requirement	44
7.2 Installation Plans	47
Chapter 8: CONCLUSIONS AND RECOMMENDATIONS	50
8.1 Conclusions	
8.2 Recommendations	

47



T	TOT	OF	AD	DE	IN	CES

Appendi	x A:	<b>DFD</b>	of	existing	system
---------	------	------------	----	----------	--------

Appendix B: DFD of proposed system

Appendix C: ERD of proposed system

Appendix D: Normalization of proposed system

**Appendix E: Sample Reports** 

**Table 1: System Installation Table** 

Appendix F: Screen shots of Proposed System

### **BIBLIOGRAPHY**

### **CURRICULUM VITAE**

### LIST OF TABLES

Table 2: Time Table for Training	48
Table 3: Time Table for Conversion	48
LIST OF FIGURE	
Figure 1.0: The V model	7