De La Salle University - Dasmariñas

INFORMATION SYSTEM ON XYZ COMPANY EDUCATIONAL SUPPORT PROGRAM (ESP)

C5 102

An Undergraduate Special problem

Presented to

The Faculty of Mathematical Study and Computer Science

De La Salle University-Dasmariñas,

Dasmariñas, Cavite

In Partial Fulfilment

of the Requirements for the Degree

Bachelor of Science in Computer Science

by

De Guzman, Joner Malia

Nave, Jan David Pineda

March 1999

AKLATANG EMILIO AGUINALDO
ARCHIVES

Table of Contents

1.0 Introduction	1
1.1 Background of the Study	1
1.2 Statement of the Research Problem	7
1.3 Statement of Objectives	8
1.3.1 General Objective	8
1.3.2 Specific Objective	8
1.4 Significance of the Study	8
1.5 Scope and Delimitation	9
1.6 Methodology	10
2.0 Review of Related Literature	14
3.0 Theoretical Framework	27
3.1 Statement of Assumption	27
3.2 Operational Definition	27
3.2.1 Definition of Terms	27
3.3.3 Definition Processes	27
3.3 Theories Used in the Study	29
4.0 The Existing System	37
4.1 Description of the System	37
4.2 Definition of Data Capture	37
4.3 Inputs	38
4.4 Processes	38
4.5 Files	41
4.6 Outputs	41
4.7 Data Flow Diagram	42
5.0 The Proposed System	43
5.1 System Overview	43
5.2 System Objectives	43
5.3 Scope	43
5.4 System Justification	44
5.5 Data Flow Diagram	44
6.0 Design	45
6.1 Inputs	45
6.2 Processes	45
6.3 Files	46
6.4 Outputs	47
7.0 Implementation	48
7.1 Resource Requirements	48
7.1.1 Software Requirements	48
7.1.2 Hardware Requirements	48
7.1.3 Human Resource Requirement	48
7.2 Installation Plans	49
7.2.1 System Installation	49
7.2.2 Conversion Plans	49

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

7.2.3 Testing 49

8.0 Cost and Benefit Analysis 50
8.1 Resource Requirement 50
8.2 Operational Setup 50

9.0 Conclusions and Recommendations 51

List of Appendices

Appendix A – Organizational Chart 53
Appendix B – Organizational Codes and Capsulized Function 54
Appendix C – Normalization 58
Appendix D – Data Dictionary 60
Appendix E – Existing System Data Flow Diagram 62
Appendix F – Proposed System Data Flow Diagram 64
Appendix G – Prototype 66
Appendix H – Certification from Panelist 72
Appendix I – Certification from CRC Chair 73
Appendix J – Certification from Editor 74
Appendix K – Certification from CRC Representative 75
Appendix L – Certification from Adviser 76

ABSTRACT

The ESP information system is designed to automate the Educational Support Program (ESP) of XYZ company's Human Resource Center using Visual Basic version 5.0 as front-end and MS Access '97 as back-end. At present, there are three installed information systems, namely, Library Information System (LIS), Training Information System (TIS) and the Career Development Information System (CaDIS). No attempts have been made to develop an automated system for ESP until now.

The proponents used the prototyping method in developing the information system. The proposed ESP information system focuses on updating of ESP grantees' records, monitoring of tuition fee reimbursements/payments, and report generation. Disbursement of funds (preparation of check payments) will not be covered since another department handles this.