0 3 APR 2000

De La Salle University - Dasmariñas

Transaction Processing System of Manik's Inc.

TPS-MI

An Undergraduate Special Problem
Presented to the Faculty of
The Computer Studies Department
College of Science
De La Salle University-Dasmariñas
Dasmariñas, Cavite

In Partial Fulfillment
Of the Requirements for the Degree of
Bachelor of Science in Computer Science

by

Condez, Cleofe M.
Vizcarra, Rowena M.

March 2000

AKLATANG EMILIO AGUINALDO ARCHIVES

ABSTRACT

The Transaction Processing System of Manik's Inc. is an automated system designed for the usage of Manik's Inc. This system is developed, since for the last twenty-five years in the brokerage business, Manik's Inc. was operating through manual procedures. Because of this, the personnel in charge of documentation often encounter problem, some of these were data inconsistencies, difficulty in finding a specific record in the filing cabinet that leads to the delay in accomplishing a specific task, etc.

The Transaction Processing System of Manik's Inc. serves as a solution to these problems. Through this system, it will be easier for the personnel of the said company to make the processing of their transactions faster and minimize tons of paperwork, which usually cause errors in the execution of their operation. By having an automated system, Manik's can have a reliable data without the hassle of errors.

During the system development, Spiral Methodology was used, since this method helps improve the system development productivity and has verification process that is vital for the development of the system. The system was built in the Microsoft Visual Basic 5.0 because it is an object- oriented language and easy to use.

TABLE OF CONTENTS

1.0 Introduction 1-1

1.1 Background of the Study 1-1
1.2 Statement of the Research Problem 1-2
1.3 Statement of Objectives 1-3
1.3.1 General Objective 1-3
1.3.2 Specific Objectives 1-3
1.4 Significance of the Study 1-4
1.5 Scope and Limitations of the Study 1-5
1.6 Methodology of the Study 1-5

2.0 Review of Related Literature 2-1

3.0 Theoretical Framework 3-1
3.1 Statement of Assumptions 3-1
3.2 Operational Definitions 3-1
3.2.1 Definition of Terms 3-1
3.2.2 Definition of Process 3-3
3.3 Theories Used in the Study 3-3

4.0 The Existing System 4-1
4.1 Description of the System 4-1
4.2 Description of Data Capture 4-2
4.3 Inputs 4-10
4.4 Processes 4-11
4.5 Files 4-13
4.6 Outputs 4-18
4.7 Data Flow Diagrams 4-20
4.8 Problem Areas 4-20

5.0 The Proposed System 5-1
5.1 System Overview 5-1
5.2 System Objectives 5-3
5.3 Scope 5-3
5.4 System Justification 5-5

6.0 Design 6-1
6.1 Files 6-1
6.2 Process 6-5
6.3 Output 6-10

7.0 Implementation 7-1
7.1 Resource Requirements 7-1
7.1.1 Software Requirements 7-1
7.1.2 Hardware Requirements 7-2
7.1.3 Human Resource Requirements 7-2

7.2 Installation Plans 7-4
7.2.1 System Installation 7-4
7.2.2 Training Plans 7-5
7.2.3 Conversion plans 7-6
7.2.4 Testing 7-9

8.0 Cost Benefit Analysis 8-1
8.1 Intangible Benefits 8-1
8.2 Tangible Benefits 8-2

9.0 Conclusions and Recommendations 9-1

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

LIST OF TABLES

Table 7-1	Users of the Transaction Processing System of Manik's Inc.	7-5
Table 7-2	System Installation Schedule	7-5
Table 7-3	Training Schedule	7-7
Table 7-4	Roles in Testing system and Software	7-9
Table 7-5	Transaction Processing System of Manik's Inc. Acceptance Testing Schedule	7-10

LIST OF FIGURE

Figure 1-1 Spiral Model 1-10

LIST OF APPENDICES

Appendix A	Panel's Certification	A-1
Appendix B	Special Problem Clearance	B-1
Appendix C	Editor's Certification	C-1
Appendix D	CRC Representative's Certification	D-1
Appendix E	Adviser's Certification	E-1
Appendix F	Organizational Chart	F-1
Appendix G	Entity Relationship Diagram	G-1
Appendix H	Entity List	H-1
Appendix I	Normalization	I-1
Appendix J	Data Dictionary	J-1
Appendix K	Data Flow Diagram (Existing)	K-1
Appendix L	Data Flow Diagram (Proposed)	L-1
Appendix M	Certificate of Installation	M-1
Appendix N	Certificate of Training Completion	N-1
Appendix O	Certificate of Acceptance Testing	O-1
Appendix P	Sample Output	P-1
Appendix Q	Existing Forms	Q-1
Appendix R	Screen Design	R-1
Appendix S	User's Manual	S-1