



De La Salle University – Dasmariñas

**The Development of an Automated Sales and Inventory System
for Iglesia Shell Service Station**

An Undergraduate Research

Presented to

The Faculty of 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

Megia, Vincent G.

Nario, Julie Ann B.

Villalobos, Hodieronna R.

March 2002

03 MAY 2002

AKLATANG EMILIO AGUINALDO ARCHIVES



ABSTRACT

The automated Sales and Inventory System of Iglesia Shell Service Station will serve as a tool in accessing and maintaining files. The study aims to lessen the job they are working on like tabulation of sales, generation of different reports and help the company in knowing the critical products. The system meets the objectives through the application of the theories and concepts in the study. This will be beneficial to the user and the owner of Iglesia Shell Service Station because it has capabilities of providing their needs. It will lessen paper works, and the manual process of computing daily sales and they will have a complete control that will eliminate the shortage of remittances. The designed system uses Visual Basic 6.0 and waterfall method which provide an orderly sequence of development steps and helps to ensure the adequacy of documentation and design reviews to ensure the quality, reliability, and maintainability of the developed software.



TABLE OF CONTENTS

Title Page
Approval Sheet
Acknowledgement
Abstract
Table of Contents
List of Appendices
List of Figures

	Page
1.0 Introduction.....	1-1
1.1 The Problem and its Background	1-1
1.2 Statement of Objectives.....	1-2
1.2.1 General Objectives	1-2
1.2.2 Specific Objectives	1-3
1.2.3 Project Deliverables	1-3
1.3 Significance of the Study.....	1-4
1.4 Scope and Limitation	1-4
1.5 System's Methodology	1-5
1.5.1 Methodology Used.....	1-5
1.5.2 Method of Data Collection.....	1-7
1.5.3 Method of Analysis.....	1-8
2.0 Review of Related Literature.....	2-1
3.0 The Existing System.....	3-1
3.1 Current System Overview.....	3-1
3.2 Administrative Setup.....	3-2
3.3 System Coverage.....	3-4
3.4 System Inputs.....	3-4
3.5 System Outputs	3-5
3.6 Problems and Difficulties with the Current System.....	3-7
4.0 The Proposed System	4-1
4.1 Description	4-1
4.2 Scope of the Proposed System.....	4-2
4.3 System Objectives	4-3
4.4 System Justification	4-3
4.5 System Design	4-3
4.5.1 Inputs	4-3
4.5.2 Processes	4-4
4.5.3 Outputs	4-7
4.6 Architectural Design.....	4-7
4.7 Database Design.....	4-10
4.8 Project Schedule.....	4-12
5.0 Summary Conclusion and Recommendation	5-1
Appendices	
Bibliography	



LIST OF APPENDICES

	Page
Appendix A	DFD of the Existing System..... A-1
Appendix B	DFD of the Proposed System..... B-1
Appendix C	Ishikawa Diagram..... C-1
Appendix D	Process of Normalization..... D-1
Appendix E	Data Dictionaries..... E-1
Appendix F	Entity Relationship Diagram..... F-1
Appendix G	Dialogue Tree..... G-1
Appendix H	Screen Design..... H-1
Appendix I	Input Forms..... I-1
Appendix J	Report Forms (Existing System)..... J-1
Appendix K	Report Forms (Proposed System)..... K-1
Appendix L	Certification of Panel Approval..... L-1
Appendix M	Special Problem Clearance..... M-1
Appendix N	Certification from the Editor..... N-1
Appendix O	Certification from the CRC Representative..... O-1
Appendix P	Certification of Approval from the Adviser..... P-1

LIST OF FIGURES

	Page
Waterfall Methodology.....	1-6