



De La Salle University - Dasmariñas

The Orchard Golf and Country Club, Inc.'s Billing System

(TOGCC – Billing System)

1999

An Undergraduate Special Problem

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

Loyola, Rechie A.

Solis, Dorothy Rose S.

March 2000

05 APR 2000

AKLATANG EMILIO AGUINALDO ARCHIVES



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 Objectives	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	1-6
1.6 Methodology of the Study	1-6
2.0 Review of Related Literature	2-1
2.1 Foreign Literature	2-1
2.2 Local Literature	2-3
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 Processes	3-2
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 Definition of Data Capture	4-2
4.3 Inputs	4-2
4.4 Processes	4-3
4.5 Files	4-4
4.6 Outputs	4-6



De La Salle University - Dasmariñas

4.7 Data Flow Diagram	4-7
Level 0	4-7
Level 1	4-8
Level2	4-9
4.8 Problem Areas	4-10
5.0 The Proposed System	5-1
5.1 System Overview	5-1
5.2 System Objectives	5-1
5.3 Scope	5-2
5.4 System Justification	5-2
6.0 Design	6-1
6.1 Inputs	6-1
6.2 Processes	6-2
6.3 Files	6-3
6.4 Outputs	6-4
7.0 Implementation	7-1
7.1 Resource Requirements	7-1
7.1.1 Software Requirements	7-1
7.1.2 Hardware Requirements	7-1
7.1.3 Human Resources Requirements	7-1
7.2 Installation Plans	7-2
7.2.1 System Installation	7-2
7.2.2 Training Plans	7-2
7.2.3 Conversion Plans	7-2
7.2.4 Testing	7-3
8.0 Cost Benefit Analysis	8-1
8.1 Intangible Benefits	8-1



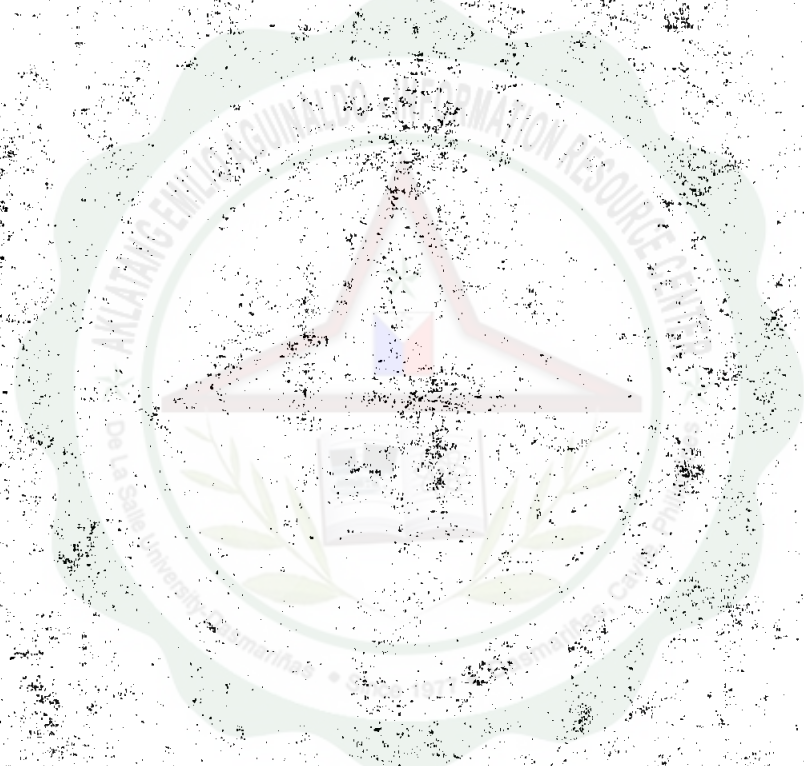
8.2 Tangible Benefits

8-1

9.0 Conclusions and Recommendations

9-1

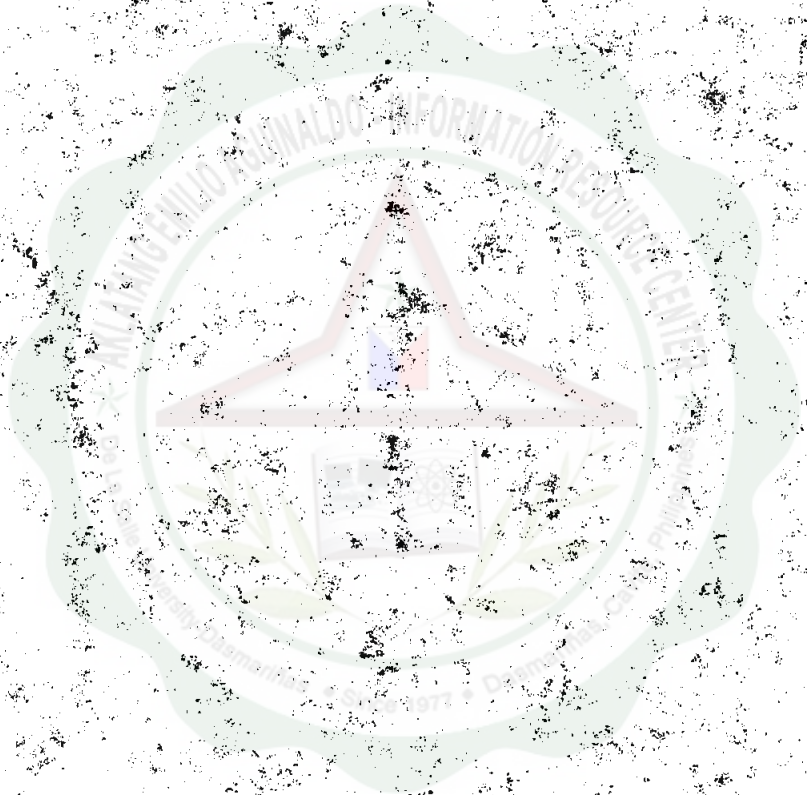
References





LIST OF TABLES

Table 7-1	Schedule of Installation	7-2
Table 7-2	Schedule of Training	7-2
Table 7-3	Software Testing	7-3





LIST OF FIGURES

Figure 4-1	DFD: Level 0 (Existing System)	4-7
Figure 4-2	DFD: Level 1 (Existing System)	4-8
Figure 4-3	DFD: Level 2 (Existing System)	4-9





LIST OF APPENDICES

Appendix A.	Certification of Panel	A-1
Appendix B.	Certification of CRC Chair	B-1
Appendix C.	Certification of Editor	C-1
Appendix D.	Certification of CRC Representative	D-1
Appendix E.	Certification of Adviser	E-1
Appendix F.	Data Flow Diagram (Proposed System)	
	Level 0	F-1
	Level 1	F-2
	Level 2	F-3
Appendix G.	Entity Relationship Diagram	G-1
	Entity Attributes	G-2
Appendix H.	Normalization	H-1
Appendix I.	Data Dictionary	I-1
Appendix J.	Orchard Passport	J-1
Appendix K.	Orchard Billing Statement	K-1
Appendix L.	Payment Instruction	L-1
Appendix M.	Certificate of Completion	M-1
Appendix N.	Screen Design	N-1
Appendix O.	Curriculum Vitae	O-1



Abstract

The Orchard Golf and Country Club, Inc. (TOGCC) is one of the first class golf clubs in the country. As of February 2000, the members of the said company has reached more than two thousand and still growing. The increasing number of members of the said company is an indication that its popularity is in its peak. In situations like this there are things that needed to be prioritized such as how to continue giving their members the highest degree of service. This is the reason why the proponents conducted a study which focused on the company's billing system. The proposed system is primarily focused on the revenues of the members of the said company. The revenues of the members include the following: their F & B Golf Charges, Miscellaneous, Christmas Funds, Handicap Charges, Maintenance Dues for 1st, 2nd, 3rd, and 4th Quarter, DROC (Dallas Reciprocal Operation Center) Charges, Golf Car Parking Charges, Tournament Charges, Meralco Charges, and Founder's Raffle Ticket and Late Payment Charges. It is capable of producing reports that are necessary. The methodology used in developing the system is prototyping. Prototyping typically involves the creation of some preliminary model or version of a major subsystem, or a small or scaled-down version of the entire system. Furthermore, the proponents recommend a direct connection between TOGCC and Far East Bank & Trust Company, which includes the decrypting and encrypting of data for the security of these data.