Online Billing and Reservation System for Circle Island Resort

A Capstone Project

Presented to the Computer Studies Department

College of Science and Computer Studies

De La Salle University – Dasmariñas

In Partial Fulfilment

of the Requirements for the

Degree of Bachelor of Science in

Information Technology

Bebe, Marvin G.

Calaunan, Ian Paul O.

Villacarillo, Kyle G.

April 2014

TABLE OF CONTENTS

Acknowledgements i

Table of Contents iii

Abstract v

Chapter 1– Introduction

1.1 Background of the Study 1

1.2 Statement of the Problem 4

1.3 Research Objectives 7

1.4 Significance / Justification 8

1.5 Conceptual Framework 9

1.6 Scope and Limitations 11

Chapter 2 - Literature Review

2.1 Local Literature 13

2.2 Foreign Literature 17

Chapter 3 - Methodology

3.1 Process Model 20

3.2 Process Model Diagram 21

Chapter 4 - Presentation of Result / Findings

4.1 Project Description 25

4.2 Project Structure 26

4.3 Project Capabilities and Limitations 28

4.4 Project Evaluation 30

Chapter 5 - Discussion / Conclusion of Result / Findings

5.1 Summary of Findings 35

5.2 Conclusions 36

5.3 Recommendation 37

List of Figures 38

Appendices

- Appendix A(Existing System) 43

- Appendix B (Proposed System) 46

- Appendix C (Entity Relationship Diagram and Normalization) 50

- Appendix D (Sample Forms) 56

- Appendix E (Screenshots) 58

Bibliography 64

Curriculum Vitae 65

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

ABSTRACT

The Online Billing and Reservation System was proposed to solve a problem commonly experienced by resorts nowadays: the difficulty of dealing with reservations using the existing manual system. The study aimed on how the manual system performs throughout the entire process of reservation. The importance of the procedures of the manual system was made in order to create a system that will be a solution to the problem stated.

The proponents used Data Flow Diagrams to analyze the existing system to create the proposed system that will eliminate the problem regarding the difficulty of handling reservations. Also, the existing system or the manual system covered the entire reservation process of the resort which includes updating and adding reservation request, and the billing process. Based on the research made by the proponents, some problems were identified, such as vulnerability of data to error, weak data security, and difficulty in reservation endorsement. The proposed system implemented the process similar to that of the existing system, but user inputs were made much easier and faster compared to that of the manual system.

The security of the data is also reinforced, and the real-time manipulation of data greatly improved the process of reservation. Since the study includes proper data manipulation and handling, an evaluation of the manual system was needed and performed. Overall, the proponents gathered necessary data that helped in the process of enhancing the existing system of the company through the proposed system.