

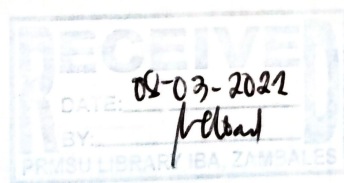


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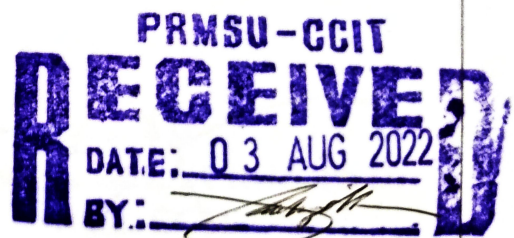
WEB-BASED PARKING LOT RESERVATION SYSTEM

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**A Capstone
In partial Fulfillment of the Requirements
for the degree of Bachelor of Science in Information Technology
College of Communication and Information Technology
President Ramon Magsaysay State University
Iba, Zambales**



February, 2022





COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY



Republic of the Philippines
President Ramon Magsaysay State University
Iba, Zambales



College of Communication and Information Technology

APPROVAL SHEET

This, study entitled **“Web-Based Parking Lot Reservation System”** prepared and submitted by **GELLI R. ANIS, JERBY D. BESO, JONNADEL A. CASIMIRO, LESTER B. METRAN, AND MARIEL M. MINOR** in partial fulfilment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** are hereby recommended for oral examination.


ENGR. CARL ANGELO S. PAMPLONA
Adviser

Approved by the Panel of the Oral Examiners on _____ with a grade of _____.


DANIEL A. BACHILLAR, MSCS
Chairman

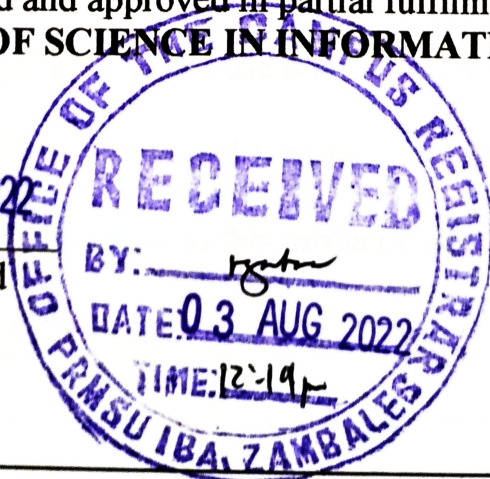

JOHN APRIL N. MARPA, MSCS
Member


DARYL JOHN C. RAGADIO, MSCS
Member

Accepted and approved in partial fulfilment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**.

02 AUG 2022

Date Signed




MENCHIE A. DELA CRUZ, Ph.D.
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EXECUTIVE SUMMARY

The population keeps on growing and the increasing of the vehicles in the country. Many countries had a problem regarding of the traffic issues. It leads to a traffic congestion and hard to locate a parking space.

In the Municipality of Sta. Cruz, Zambales, because of the congestion and collision of the vehicles, the proponents created a Web-Based Parking Lot Reservation System. The Web-Based Parking Lot Reservation System (WBPLRS) is a system that enabled customers/drivers to reserve a parking space. It also allows the customers/drivers to view the parking status at Magic Mall parking spaces. It was developed for Magic Mall located in Población South, Sta. Cruz, Zambales, therefore, the project aimed at solving such problems by designing a web-based system that will enable the customers/drivers to make a reservation of available parking spaces of the said mall.

The proponents used Rapid Application Development (RAD) for the development of the system. It helped the proponent's in building a well-published and functional system. The proponents identified the Software Quality of Web-Based Parking Lot Reservation System using the ISO/IEC 25010:2011 in terms of Functional Suitability, Performance Efficiency, Compatibility, Usability, Reliability, Security, Maintainability, Portability and to identify the level of acceptability of Web-Based Parking Lot Parking Lot Reservation System in terms of Functionality and Performance.

The system was found "Excellent" in software quality in terms of Functional Suitability, Performance Efficiency, Compatibility, Usability, Reliability, Security, Maintainability, Portability as evaluated by the customer and staff.



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The system was found “Highly Acceptable” in the evaluation of the Level of Acceptability in terms of Functionality and Performance as evaluated by the customer and staff.

The proponents recommended the use of the developed system for those students that will be interested in this study and if they would like to continue the research, further, it was recommended to further enhance the system. The proponents also advise the continuous improvement of the design of the web-based parking lot reservation system and create a mobile app that can track user transactions that are more user-friendly.