

**"CONTACTLESS"- BARANGAY AMUNGAN SK E-LIBRARY QR CODE  
BASED LOG SYSTEM**

**Besa, Leomar L.**

**Cruz, Piolo O.**

**Garimbao, Adrienne F.**

**Santos, Bryan Russel S.**

**A Capstone Project**

**In partial Fulfillment of the Requirements**

**for the degree of Bachelor of Science in Information Technology**

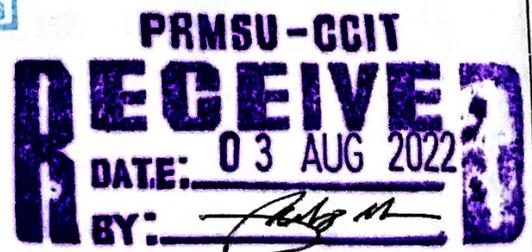
**College of Communication and Information Technology**

**President Ramon Magsaysay State University**

**Iba, Zambales**



**February 2022**



**COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY**

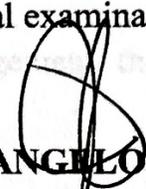


Republic of the Philippines  
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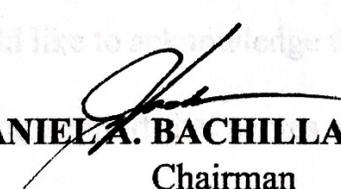


**APPROVAL SHEET**

This, study entitled **“iContactless“- Barangay Amungan SK E-Library QR Code Based Log System”** prepared and submitted by **ADRIENNE F. GARIMBAO, BRYAN RUSSEL S. SANTOS, LEOMAR L. BESA** and **PIOLO O. CRUZ** in partial fulfillment 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 February 2022 with a grade of \_\_\_\_\_

  
**DANIELA A. BACHILLAR, MSCS**  
Chairman

  
**DARYL JOHN C. RAGADIO, MSCS**  
Member

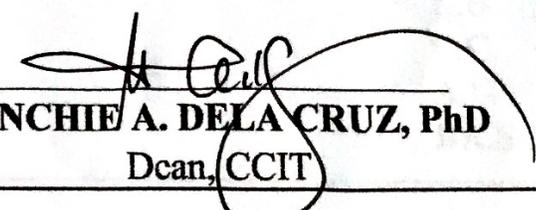
  
**JOHN APRIL M. MARPA, MSCS**  
Member

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

**02 AUG 2022**

Date Signed



  
**MENCHIE A. DELA CRUZ, PhD**  
Dean, CCIT

**EXECUTIVE SUMMARY**

This research focused on the design, testing, and analysis of a Barangay Amungan SK E-Library QR Code Based Log System to reduce the spread of infection and reduce long queues by using QR Code Technology.

The main objective of the study was to eliminate the risk of virus transmission when compared to the pen and paper manual log system. The design of this system allows provides contactless and convenient entry for Visitors and Residents of Amungan by removing direct contact with physical objects like desk, pen and paper when filling out logbooks. This system allows Visitors and Residents of Amungan to generate QR Code using smartphone that can be scan into scanner and also allows authorized personnel (e.g., admin, security personnel) to transcribed information into digital format from generated log reports easily.

To analyze the system's usability, the thirty-three (33) randomly selected participants completed the System Quality Scale questionnaire after using the system.

Finally, the residents of Barangay Amungan Iba, Zambales specially students who uses the library evaluated the software quality using the ISO/IEC 25010:2011 metric with a total of 33 respondents. Based on the overall results, the respondents assessed the system's quality of "iContactless"- Barangay Amungan SK E-Library QR Code Based Log System as "Excellent" with a mean rating of 4.21.