



**COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY**

**EMPLOYEES ATTENDANCE MONITORING AND MANAGEMENT  
SYSTEM FOR PHILIPPINE NATIONAL POLICE  
MUNICIPAL POLICE STATION  
STA. CRUZ, ZAMBALES**

**Arcillas, Jessa C.  
Arizala, Shaina C.  
Macam, Vangelina M.  
Villahermosa, Arner M.**

**STA. CRUZ CAMPUS  
COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY**

**RECEIVED**  
BY: **JANNIE M. ESCOBAR**  
DATE: **JUN 29 2023**

**A Thesis  
In Partial Fulfillment of the Requirements  
for the degree of Bachelor of Science in Computer Science  
College of Communication and Information Technology  
President Ramon Magsaysay State University  
Sta. Cruz, Zambales**

**June 07, 2023**



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY



Republic of the Philippines  
**PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY**  
 College of Communication and Information Technology  
 Sta. Cruz, Zambales



**APPROVAL SHEET**

This study entitled **EMPLOYEES ATTENDANCE MONITORING AND MANAGEMENT SYSTEM FOR PHILIPPINE NATIONAL POLICE MUNICIPAL POLICE STATION** prepared and submitted by **JESSA ARCILLAS, SHAINA ARIZALA, VANGELINE MACAM and ARNER VILLAHERMOSA** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.

**ANALYN H. EDAÑOL**  
 Adviser

Approved by the Panel of the Oral Examiners on June 7, 2023 with a grade of \_\_\_\_\_.

**CHARLIE Z. RANCE**  
 Chairman

06/12/23

**ELEMAER. LINGA**  
 Member

**JING JING GONGORA**  
 Member

**MC JULUIS D. IMPERIAL**  
 Member

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

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

06-29-23  
 Date Signed

**NOEL B. MERIN**  
 Campus Director



### EXECUTIVE SUMMARY

The researcher conducted the study to enabling awareness of the features of the attendance monitoring system using the QR code its obtaining features of scanning are becoming a popular tool in modern office it also intended to determine the level of acceptability of QR code attendance monitoring system as perceived by particular on the employees of PNP-MPS Sta. Cruz, Zambales as participants of the study is designed to automate the process of recording employee's attendance.

Quantitative analysis was used in determining the software quality, level of acceptability and readiness of Employees Attendance Monitoring and Management System for PNP-MPS Sta. Cruz, Zambales. Dulock (1993) defines research design as a blueprint or plan specifically created to answer the research question and to control variance.

The respondent's perception towards the software quality of the Employees Attendance Monitoring and Management System for PNP-MPS Sta. Cruz, Zambales in terms of ISO/IEC 20501 metrics: (a) functional sustainability, obtained an average weighted mean 3.96 and interpreted as Excellent; (b) performance efficiency, obtained an average weighted mean 3.78 and interpreted as Excellent; (c) compatibility, obtained an average weighted mean 3.97 and interpreted as Excellent; (d) usability, obtained an average weighted mean 3.95 and interpreted as Excellent; (e) reliability, obtained an average of 3.95 and interpreted as Excellent; (f) security, obtained an average of 3.78 and interpreted as Excellent; (g) maintainability, obtained an average of 3.94 and interpreted as Excellent; and (h) portability, obtained an average of 3.98 and interpreted as Excellent.

The respondent's perception towards the level of acceptability of the respondent's perception towards the software quality of the Employees Attendance Monitoring and



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Management System for PNP-MPS Sta. Cruz, Zambales in terms (a) functionality, obtained an average of weighted mean 3.94 and interpreted as Highly Acceptable, and (b) performance, obtained an average weighted mean 3.94 and interpreted as Highly Acceptable.

The respondent's perception towards the level of readiness of the respondent's perception towards the software quality of the Employees Attendance Monitoring and Management System for PNP-MPS Sta. Cruz, Zambales in terms (a) facility, obtained an average weighted mean 3.95 and interpreted as Very Ready, and (b) technical personnel, obtained an average weighted mean 3.97 and interpreted as Very Ready.

The following key recommendations are proposed for the Employees Attendance Monitoring and Management System for PNP-MPS Sta. Cruz, Zambales: (1) The researcher recommend the future researcher to develop and implement an effective attendance monitoring system using QR codes. The system should be user-friendly, accurate and reliable while also addressing privacy and security concerns and providing adequate training and support to users; (2) The researcher recommends to the future researcher to focus on the maintainability of this Lan-based application to enhance it for the long-term execution of said Lan application; (3) The researcher encourages the users and admin to familiarize the flow of the system; (4) The researchers also recommend to PNP-MPS Sta. Cruz, Zambales to implement the system for better security and storage of the information; and (5) The researchers also recommend to the to continue the study so it will be apace with the changing trends of QR code and Lan-based or mobile based technology.