

**ANDROID-BASED CLASSROOM ATTENDANCE MONITORING
SYSTEM USING QR TECHNOLOGY WITH
SMS NOTIFICATION**

KENNETH N. GENOBISA

**CAPSTONE PROJECT SUBMITTED TO THE FACULTY OF THE
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ABSTRACT

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Adviser: RAZEL ANN G. AGUILAR, MIT

This paper introduces an innovative Android-based classroom attendance monitoring system aimed at overcoming the limitations of traditional manual tracking methods within educational environments. By harnessing SMS notifications and QR codes, the system seeks to enhance both accuracy and efficiency.

The system utilizes individual QR codes assigned to students to streamline attendance recording, eliminating the need for manual data entry and reducing errors. Furthermore, automatic SMS notifications promptly update parents on their student's attendance status, thereby promoting transparency and communication between home and school.

The study outlines the developmental objectives of various modules, including storing attendance data, scanning QR codes, managing user accounts, and generating reports. It emphasizes functionality, usability, and reliability in system design.

The research's significance lies in its potential to enhance the effectiveness and transparency of attendance monitoring, benefiting school administrators, students, parents, and future researchers alike. Deployed initially at Alfredo Eugenio Sr. Elementary School, the system addresses challenges such as mobile network stability and device reliability, thereby contributing to advancements in educational technology and attendance management.

Keywords: *Facial Recognition Attendance System, Internet of thing Attendance System(IoT), Biometric Attendance System, SMS notification, RFID Attendance Tracking System, Android-based Attendance Management System, Web-based Attendance Management System.*