

ONLINE CLASS ATTENDANCE AND RECITATION MONITORING SYSTEM

**A Capstone Project
Submitted to the faculty of
Department of Computer Studies
Cavite State University - Imus Campus
Cavite**

**In partial fulfilment of the
Requirements for the degree
Bachelor of Science in Computer Science**

**Armenta, John Aivan G.
Payomo, Jerrico O.
Somido, Aljon
January 2022**

ABSTRACT

ARMENTA, JOHN AIVAN G., PAYOMO, JERRICO P. and SOMIDO, ALJON., ONLINE CLASS ATTENDANCE AND RECITATION MONITORING SYSTEM. Undergraduate Thesis, Bachelor of Science in Computer Science. Cavite State University – Imus Campus. January 2022. Adviser: Mr. Ricky Tepora.

The present COVID-19 affects the schooling of students and teachers. The implementation of online classes for the students and teachers has good and bad sides in monitoring of attendance and performance of the class. The online class attendance and recitation monitoring system was created to help the teachers to monitor the attendance and participation including the recitation of a student to the class.

The created system got evaluated and the system is very effective in terms of its functionality and usability in monitoring attendance and recitation of the class. The said system was created using JavaScript as their main scripting language, CSS as their styling tool for the website's front-end design, and JavaScript that allows them to implement complex features on web pages. Also, Firebase for hosting with database, JSON for implementing the system to the browser extension. Finally, the system was improved by the researchers by including various features and characteristics that made it easier to use, as well as incorporating some approaches to their methodologies. Thirty-one (31) teachers, seventeen (17) students, and three (3) IT specialists who completed the system's effectiveness evaluation questionnaire are the primary sources of data for the study. Based on the satisfaction of respondents, the system is effective because it is functional, portable, usable, reliable, and efficient. The researchers came to the

conclusion that the system is extremely useful and effective in terms of its functionality.

INTRODUCTION

The present Covid-19 epidemic is affecting many aspects of life, including schooling. One is fundamental education and materials, which necessitates the use of teachers for online learning. The online class has a good and bad effect because it's new to us and we are adjusting to the new system. In every classroom, ensuring active student participation is difficult. However, this year's shift to primarily online instruction has provided significant challenges and opportunities for educators in terms of encouraging virtual participation and evaluating students' contributions (Israeli, 2020).

Google forms, google classroom and other platforms for online classes are all relatively new. Checking on missing pupils, recitation, and other difficulties is inefficient for professors. Instead, the professors must physically monitor attendance to identify absentees for follow-up, as a result, time management in class is inefficient.

The goal of this study is to complete a monitoring system for teacher service work on the prevention and management of in-class attendance and recitation of the students to their education. In this new context, a robust and effective system for data collection is essential. It is necessary to monitor, verify, and ensure that students attend the online scheduled sessions, and is important in evaluating their academic achievement.