Presented to the Industrial Engineering Department

De La Salle University – Manila Campus

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Student Attendance System

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EB4

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I. Introduction

The proposed Student Attendance System is a tool designed to help instructors keep track of and enter student attendance data. It offers information about attendance patterns, student involvement, and average attendance. The system makes adding, modifying, and removing attendance records easier and more efficient. Traditional manual procedures are time-consuming, prone to errors, and produce insufficient data. Implementing a computerized Student Attendance System helps instructors focus on teaching while monitoring attendance patterns efficiently.

The project's goal is to develop a dependable Student Attendance System with three main objectives:

1. Allow instructors to easily enter attendance data.
2. Obtain useful information on attendance patterns, class engagement, and average attendance.
3. Make it easier to add, update, and delete attendance data.

Functionalities:

1. A user-friendly interface for instructors to enter attendance data.
2. Data analysis that is automated to provide insights into attendance patterns and student involvement.
3. Capability to add, edit, or delete attendance records in real time.
4. Comprehensive reports are created to assess class attendance and participation patterns.

II. Methodology

The development of the Student Attendance System follows a structured process:

1. Requirement Analysis: Understanding the system's needs, including features like data entry, attendance pattern generation, and ease of record management for instructors.
2. Design: Creating a user-friendly system by establishing architecture and interface design based on established requirements.
3. Development: Translating the design into functional code for the system's features.
4. Testing: Ensuring system functionality through comprehensive tests such as unit, integration, and system testing.

III. Deliverables

Task	Date	End Date
Attendance Recording	November 20, 2023	November 22, 2023

- Attendance Data Entry - Add/Edit/Remove Records		
Attendance Data Analysis - Attendance Patterns Generation - Involvement in Class Calculation - Average Attendance Calculation	November 23, 2023	November 25, 2023
User Interface and Experience - Instructor Interface	November 26, 2023	November 28, 2023
Reporting and Analytics - Attendance Reports Generation	November 29, 2023	December 1, 2023
Testing and Quality Assurance - System Integration Testing - Bug Fixing	December 2, 2023	December 4, 2023

IV. Evaluation

Criteria for evaluating the Student Attendance System:

1. User-Friendly Interface: Assess the system's usability for instructors.
2. Attendance Data Precision: Determine the precision of attendance patterns, participation measures, and average attendance produced.
3. Reliability and Performance: Measure system stability, responsiveness, and speed.
4. Report Generation: Evaluate the precision and flexibility of generated reports.

V. Conclusion

In conclusion, the Student Attendance System is a significant project that solves a critical need in the educational sector. It not only improves efficiency but also provides vital insights into student engagement by automating the process of tracking and assessing student attendance. These findings can help to improve instructional practices and academic outcomes. As a result, this initiative is a useful contribution to educational technology by providing a practical answer to a real-world problem.

VI. References

GeeksforGeeks. (2023, September 11). Examination Management System in C. GeeksforGeeks. https://www.geeksforgeeks.org/examination-management-system-in-c/

Evangelista, A. (2022, August 10). Student Attendance Management System Project in C++. Itsourcecode.com. https://itsourcecode.com/free-projects/cplusplus-projects/student-attendance-management-system-project-in-c-with-source-code/