IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.67
Volume 5, Issue 2, March 2025

Attendance Management System

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Abstract: *Efficient attendance management is a crucial aspect of organizational and educational institutions. "Attendance Management System: A Web-Based Smart Attendance Monitoring Solution" is an innovative approach that automates attendance marking through real-time data processing and centralized record management. The system utilizes a web application built with PHP and MySQL database to maintain and manage attendance records. The user-friendly web interface allows teachers, administrators, and employees to mark, view, and generate attendance reports. This solution minimizes manual effort, reduces errors, prevents proxy attendance, and enhances data accuracy. Future enhancements may include AI-based analytics, cloud integration, and mobile app support for seamless accessibility..*

Keywords: Attendance Management, Web Application, PHP, MySQL, Online Attendance, Dashboard, Real-Time Monitoring, Software Solution, Attendance Reports

I. INTRODUCTION

Attendance management methods involve manual attendance registers or Excel sheets, leading to inefficiencies, human errors, and data loss. To address these issues, the Attendance Management System integrates web-based technology to monitor and manage attendance records in real-time. The system employs PHP for backend development, a MySQL database for data storage, and a web interface for interaction. The web application allows users to log in, mark attendance, generate reports, and analyze data efficiently. The implementation of this system enhances accuracy, reduces manual workload, and enables smart digital attendance management for institutions.

II. PROBLEM STATEMENT

- Manual Attendance Handling: Traditional methods are time-consuming and prone to human errors.
- Data Inaccuracy: Paper-based records are susceptible to manipulation and loss.
- Proxy Attendance: Manual systems make it difficult to prevent fraudulent attendance.
- Lack of Centralized Data: Institutions lack a centralized system for easy record access and reporting

III. LITERATURE SURVEY

Research in web-based attendance systems has explored various solutions for effective attendance tracking. Previous studies have implemented mobile apps and biometric systems for attendance marking. Some systems focus on integrating IoT and RFID, while others rely on manual entries. Our approach eliminates the need for hardware or biometric devices by developing a fully web-based platform, reducing operational costs while ensuring real-time monitoring, secured login, and data analytics through a responsive web interface and a robust backend system.

IV. METHODOLOGY

Web Components

- Frontend (HTML, CSS, JavaScript): User-friendly interface for interaction.
- Backend (PHP): Processes requests, handles authentication, and communicates with the database.
- MySQL Database: Stores attendance records, user data, and reports.
- Admin Dashboard: For administrators to manage users, attendance, and reports.

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Software Development

- User Login System: Role-based access for admin, teachers, and employees.
- Attendance Module: Interface to mark and manage attendance records.
- Report Generation: Generates daily, monthly, and custom reports.

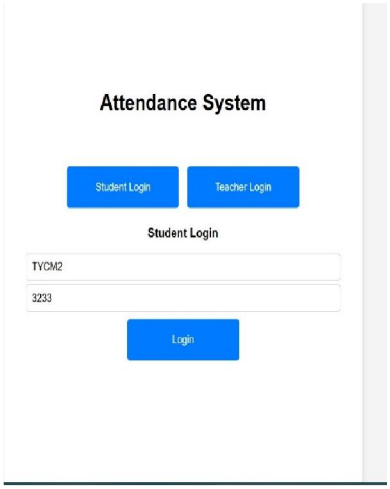
V. SYSTEM FLOW

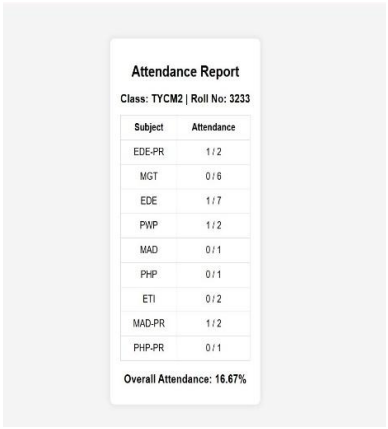
1. User Login: Teachers and employees log in using credentials.
2. Attendance Marking: Teachers mark attendance through the web interface.
3. Data Storage: Attendance data is stored securely in the MySQL database.
4. Real-Time Monitoring: Admin can view real-time attendance status via the dashboard.
5. Report Generation: System generates automated reports based on stored data.
6. Decision Making: Management can take decisions based on analyzed attendance data.

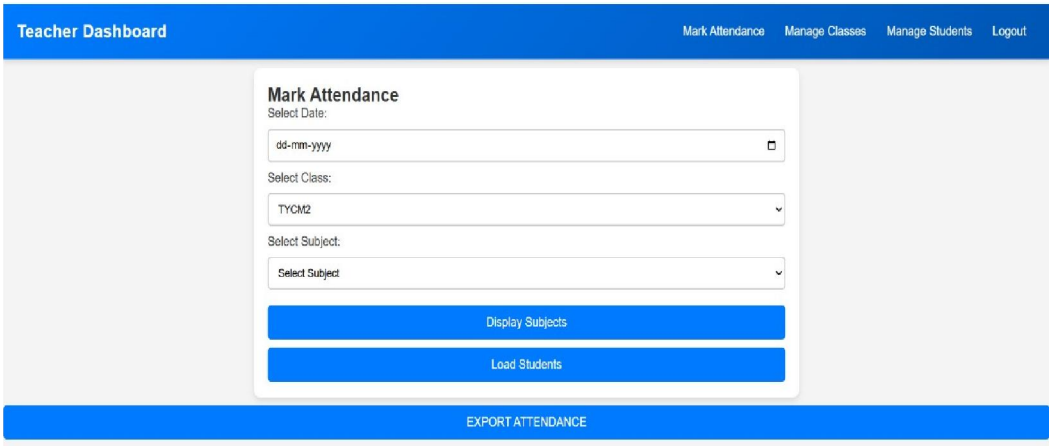
VI. RESULTS AND DISCUSSION

- The system successfully enables teachers and administrators to mark attendance online.
- Attendance records are stored and retrieved efficiently through the MySQL database.
- The PHP backend ensures secure and smooth data processing.
- The web dashboard allows real-time monitoring and effective decision-making.

Overview :







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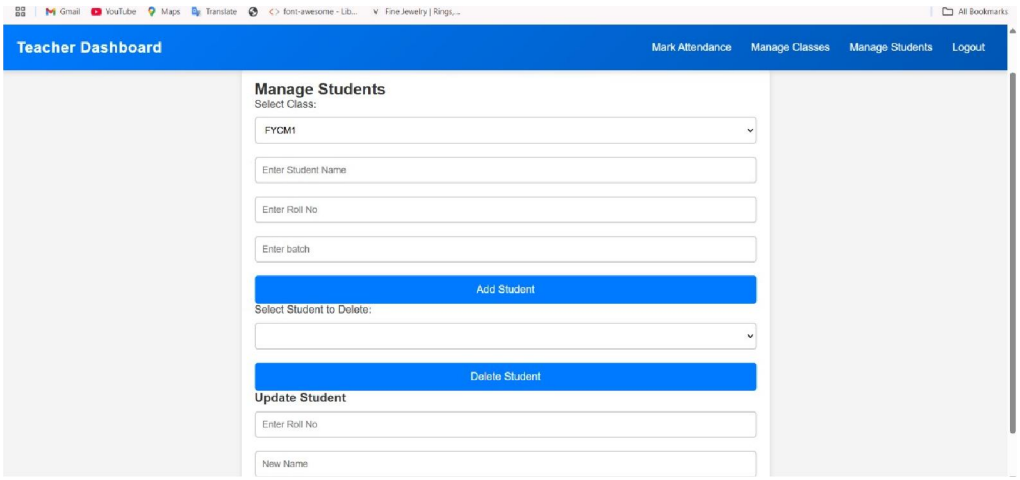

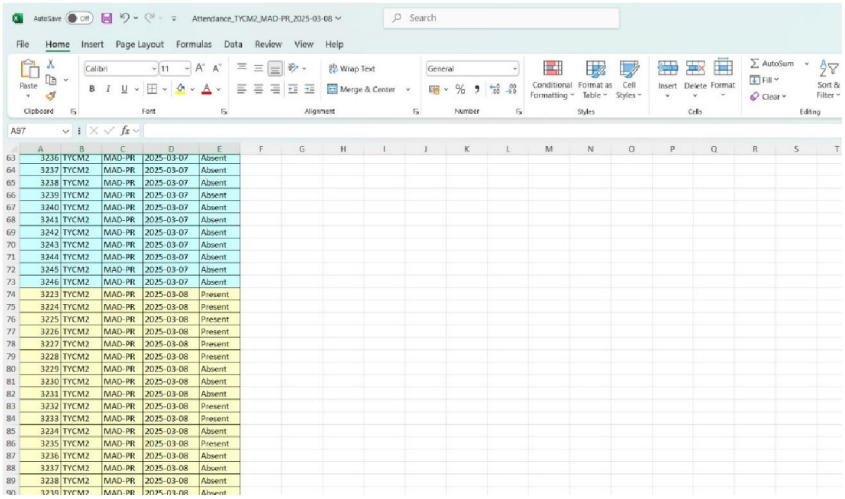

VII. FUTURE SCOPE

- Mobile App Integration: For marking and viewing attendance on the go.
- AI-Based Attendance Analytics: Predictive analytics for absenteeism patterns.
- Cloud Deployment: For scalability and remote access.
- Integration with LMS: Linking attendance with learning management systems for holistic monitoring.

VIII. CONCLUSION

Attendance Management System offers an efficient and scalable solution for web-based smart attendance management. By integrating real-time data processing, secure authentication, and automated report generation, the system enhances attendance tracking efficiency, reduces manual workload, and promotes accurate record keeping. The use of PHP and MySQL improves reliability and flexibility, making attendance management smarter and optimized.

REFERENCES

[1]. Sharma, R., & Verma, P. (2022). Web-Based Attendance System for Universities. International Journal of Computer Applications, 184(20), 1-5.
[2]. Gupta, M., & Singh, A. (2023). Online Attendance Management Using PHP and MySQL. Journal of Emerging Technologies, 11(4), 210-215.

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[3]. Kumar, S., & Roy, D. (2021). Digital Attendance System for Institutions. International Journal of Engineering Research, 10(3), 78-85.
[4]. Patel, J., & Mehta, R. (2023). Cloud-Based Attendance Monitoring System. International Journal of Computer Science and Applications, 13(6), 99-106