

## Faculty Attendance Management System (FAMS)

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**Abstract :** This research project focused on the development of an application that aids the university administrators to establish an efficient and effective system in managing faculty attendance and discourage unnecessary absences. The Faculty Attendance Management System (FAMS) is a web based and mobile application which is proven to be efficient and effective in handling and recording data, generating updated reports and analytics needed in managing faculty attendance. The FAMS can facilitate not only a convenient and faster way of gathering and recording of data but it can also provide data analytics, immediate feedback system mechanism and analysis. The software database architecture uses MySQL for web based and SQLite for mobile applications. The system includes different modules that capture daily attendance of faculty members, generate faculty attendance reports and analytics, absences notification system for faculty members, chairperson and dean regarding absences, and immediate communication system concerning the absences incurred. Quantitative and qualitative evaluation showed that the system satisfactory meet the stakeholder's requirements. The functionality, usability, reliability, performance, and security all turned out to be above average. System testing, integration testing and user acceptance testing had been conducted. Results showed that the system performed very satisfactory and functions as designed. Performance of the system is also affected by Internet infrastructure or connectivity of the university. The faculty analytics generated from the system may not only be used by Deans and Chairperson in their evaluation of faculty performance but as well as the individual faculty to increase awareness on their attendance in class. Hence, the system facilitates effective communication between system stakeholders through FAMS feedback mechanism and up to date posting of information.

**Keywords :** faculty attendance management system, MySQL, SQLite, FAMS, analytics

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