

UNIVERSITI TEKNOLOGI MARA

ONLINE STUDENT ATTENDANCE  
MANAGEMENT SYSTEM

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## ABSTRACT

In an age of increased accountability, academic institutions face the need to manage a growing amount of student data. As a result, many of them are upgrading their student information systems (SIS) to meet specific requirements for reporting. There is, however, a large untapped benefit for faculties with regard to online student information systems - use of real-time information from the classroom to target students in need of additional assistance (intervention). Therefore, the purpose of this project is to design a web - based Online Student Attendance Management System for Universiti Teknologi MARA (UiTM). Manually, lecturers need to bring with them a piece of paper that contains information of students related to that particular class. During the class, lecturers tend to pass around a sign-up sheet for students to fill up the attendance details. This project however, is about making changes on how information being recorded and managed, from manually to automatically digital. Identifying students in time to make a positive change is the goal of real-time information. Real-time attendance means that administrators may perform attendance searches at the very instance that lecturer record attendance from the classroom. This offers a significant advantage over the systems using paper-based attendance collection. Beyond the obvious advantages of modern databases (i.e. large amounts of storage, high performance, and web-based access), real-time systems also mean that a whole new tool set is emerging to monitor students. The potential now exists to monitor faculty of all sizes on a daily basis. In order for the application to work, students' matrix card that have been integrated with unique information, need to be in range with the smart card reader. Data that had been captured will then be saved and organized automatically into the database. Furthermore, all the information can be retrieved and edited in a real-time environment, as long as there is an Internet connection. Hence, these functionalities are expected to help in reducing administration cost in managing a busy campus environment while offering multiple benefits to the users.

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