



## STUDENT ATTENDANCE SYSTEM

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## **ABSTRACT**

Based on the leading technology of microwave band long range radio frequency identification, this system is designed to monitor attendance and control the access system using RFID system. Development in attendance taking at universities still do not improved, even there are new technologies that can be adopted, lecturers still using sheet containing students name, then sign it every time in every class. This can sometime distract the student while paying attention to the class. Student Attendance System can provide much convenient method to take attendance. This system can completely control the access to the area with automatic identification process and automatic attendance record system, with each vehicle is equipped with an active sticker/ tags which is previously registered on the system. The active sticker will send microwave signal constantly to the reader, but some prerequisites has to be done before start using the program. This project will store student's data in database, when RFID reader read the particular student data, it will record the attendance. The simulation of the project shows that student data can be stored, attendance can be recorded, and lecturers can manipulate the data for the student attendance. In conclusion, when the project completed, hopefully the project can make the attendance taking of students faster and convenient, and also help lecturers to manage attendance automatically and take actions on student according to UiTM regulation for attendance.

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## CHAPTER 1

### INTRODUCTION

#### 1.1 Background

Nowadays, there are lot of institutions that been growing in Malaysia. One of it is UiTM. As a student of UiTM, we realized that attendance taking in this University is still traditional. What I mean by traditional here is lecturers using attendance sheet to take the attendance. Lecturers give the attendance sheet at the beginning of the class and take it back in the end. It can be seen that all lecturers still using this method to take attendance.

In a developing country like ours, lot of latest technology that has been developed. Therefore, these technologies can be adopted to improve our daily routines. Universities should try adopting these technologies. Besides not being left behind in latest development, it will also be an example for future graduates to strive for advanced technology in the future. Attendance taking in universities should be done in more advanced method. Not only to make it easier, but at the same time to help lecturers to manage student attendance in more effective method.

As for system development and implementation, it should be able to help the lecturers. It must have database that contains student information, it must be able to help lecturer manipulates data, update database, alert lecturers accordingly, and also nice interface. Finally, it must be user friendly for commercial purpose.

This is one of the reasons why we come up with the idea to develop Student Attendance System. Believing it can help lectures to manage the attendance of students more smoothly and conveniently. This final draft will focus on UiTM regulation about attendance to class, and implement it to develop the system that will do all the attendance management automatically.