

ABSTRACT

Technology has a great influence on human life and society. One example is the development of attendance systems. Manual attendance has been replaced by various modern technologies to make the attendance process more efficient, accurate and accessible. Examples include fingerprint presence and face recognition presence using a microcontroller.

The digital employee attendance system has an impact on aspects of data management, time recording and analysis of employee attendance which are collected automatically by a presence system that is connected to a database. Enable managers to access employee attendance data and manage employee work time more effectively. With ever-developing technology, innovation has the effect of providing convenience in the attendance process and managing employee work time. Currently PT. Fiberhome Technologies Indonesia Regional III does not yet have a radio frequency identification presence system where the presence system still uses the manual method. Therefore in this final project a presence system is designed using radio frequency identification which is equipped with an administrator application. This system consists of several main components, namely Tag and Reader which functions to read information regarding employee attendance. RFID Reader has 100% tag reading accuracy, therefore with this system attendance will be more accurate based on time attendance, so as to optimize employee attendance to be more controlled and improve employee discipline.

The purpose of this research is to develop effective and efficient employee attendance services using radio frequency identification technology and integrated with applications. The results of this planning show that an application-based radio frequency identification system can make attendance efficiently and easily accessible. Based on its function, RFID serves as an attendance identification tool that can increase the effectiveness of employee attendance and more easily controlled in carrying out attendance. Users can see employee attendance directly through the web application and the admin can monitor employee progress online. Based on the results of attendance testing, it shows that the system as a whole can run well.

Keywords: *Employee Attendance System, Radio Frequency Identification (RFID), Android Application.*