

ABSTRACT

Along with technological advancement, student attendance record majorly doesn't use paper anymore, but it uses RFID (Radio Frequency Identification) as its tool. However, this method has several weaknesses. From the university side, RFID incriminates university in terms of cost and the complexity of tools installation, while from the student's perspective, it is less flexible because sometimes student forgets to bring RFID card when lectures are held.

Utilization of QR Code (Quick Responses Code) can replace RFID method as lecture attendance recorder. QR Code is an evolution from a barcode that was modified to provide larger storage capacity. Result of this final task is an application that recorded student attendance. Lecturer provided a website to generate a QR code. Students use the application in their smartphone to scan a QR code from the lecturer that connected to the database.

From the test results, the overall functionality of the system can running well according to the expected results, both on the application and the web. The application with the Android platform has a data size of 3.4 MB and the optimal scanning distance of the QR Code based on the test is 2-3 meters with an optimal tilt angle of 90°.

Keywords : *QR Code, student attendance, application, website*