

ABSTRACT

Locker is a facility that people usually use to store their belongings. Lockers are usually found in lecture buildings, office buildings, tourist attractions and other public places. Usually lockers that are commonly found still use conventional keys, resulting in security of goods inside the locker that are still not guaranteed security (Based on the results of the questionnaire the author made, 64.7% said conventional lockers "May be Safe" and 25.5% said "Unsafe"). In addition, conventional locks also allow the lock from the locker to be lost

In this final project, Locker or storage uses a QR Code (Quick Response Code) as a security system that is integrated with the microcontroller as hardware, *website* and android as the software. The *website* is useful for seeing which lockers are not used and login as a admin. To open a locker, it is required to scan the *QR Code* attached to the locker using an android application, after the *QR Code* matches or correctly it will be processed on the microcontroller (NodeMCU ESP8266). Solenoid serves as an opening and closing door locker. The advantages of the QR - Code itself, besides being safer, can also be scanned using a smartphone, where smartphone is always being carried anywhere and everywhere so there is little chance that it will be lost.

Based on the results of the tests that have been done, the hardware and the MyLocker Website are running well. Locker can open using the available QR Code. And this MyLocker website works well, such as being able to see the number of registered users, viewing revenue and monthly locker usage, validating top up users, viewing MyLocker user data and the last being able to see current orders and order history. All functions on the website works fine.

Keywords : *E – Locker, Solenoid, Mikrokontroler, NodeMCU, QR-Code, Website*