

ABSTRACT

Security is the absolute first thing that must be considered in terms of comfort and security in a home. But the security of the house is also important in addition to the security of the occupants themselves, where security is needed to protect the property of the owner of the occupants in the house from the threat of bad people. However, door access with conventional locks used today is still vulnerable to break-ins.

In this research, to overcome the problem as above, a system for home door access security is made to ensure the security of the house itself. The supported door access security system also uses the Internet Of Things system to make it easier for residents to open the door. QR Code users will later replace conventional keys, so the door will only be opened if the QR Code can be recognized. If there is a break-in or forced unlocking, the system will notify the boarder through the application.

Testing in this study resulted in the smallest data delay of 0.1302 s with a throughput of 4842 Bytes/s.

Keywords: Smart door lock, QR Code, Solenoid door lock, NodeMCU ESP32.