

## ABSTRACT

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*The security system for private room door locks that exist today is mostly a manual security system in the form of conventional locks or locks. The research aims to create an alternative prototype of a security system on private room keys by utilizing technology and low cost. This research creates a security system using a QR Code where to be able to access the room you must have a QR Code that has been made in the system program data of the tool. When successfully entered and the QR Code used matches, the door will open and the room owner will receive a notification from the Telegram bot, and if the QR Code does not match then the room owner will receive a notification from the Telegram bot that someone is trying to enter the room. Testing shows all hardware and software components can work properly. This research produces a Smart Door Lock that is cheaper than the Smart Door Lock that is widely sold today.*

*Keywords: Microcontroller, NodeMcu, QR Code.*