

ABSTRACT

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DESIGN A SMART DOOR LOCK SYSTEM USING RFID (RADIOFREQUENCY IDENTIFICATION) ON THE DOOR HOME AND INTEGRATED WITH NODEMCU BASED ON BLYNK

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(xii + 48 + Attachments)

The application of smart lock door technology using Radio Frequency Identification (RFID) has become a focus in various efforts to improve home security. This research aims to design and develop a smart locked door system that utilizes RFID technology on the door of the house, and integrates it with the NodeMCU-based Blynk platform to remotely control and monitor the status of the door. The system works by utilizing an authorized RFID card to unlock the door. When a valid RFID card is attached to the RFID reader, the NodeMCU will receive the signal and send the data to the Blynk server. The result of this research is a smart locked door system that is successfully implemented using RFID technology and integrated with NodeMCU-based Blynk platform. The test results of the smart door lock that was successfully implemented using RFID technology and integrated with the NodeMCU-based Blynk platform, with a success rate of 100%. Users can easily control door access and monitor door status in real-time through the Blynk application.

Bibliography (2014 – 2023)