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SMART DOOR LOCK SYSTEM FOR HOME

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ABSTRACT

Internet of Things (IoT) has become a phenomenon in many recent researches. A smart digital automated system based on IoT plays major role which helps in reducing human work by applying interaction technology in daily life. This thesis introduces the IoT enabled door access system project. This project is to design a prototype of a door access system that able to be automatically controlled and monitored remotely. The system is an integration of IoT technologies with Blynk application that base of the Node MCU. Generally, the door system is connected to WiFi connection and the user can control and monitor the door status whether it is lock or unlock from their personal device such as smartphone in real time. For the keypad, the system controlled by the Arduino Uno. The main purpose on the design is to prevent the situation where the user is unable to unlock the door when the key is missing also to give a solution for users to monitor the door status when they forget whether the door has been locked or not. This system aims also to eliminate the use of keys to access the door, where the daily struggle faced to bring along a bunch of keys anywhere. The prototype of system is successfully done, and the procedure also the software and hardware requirement has been compiled in this thesis report. The result discussion and future improvement of the system are discussed in last two chapters.

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