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Smart Door Lock using IoT

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Abstract: Along with products like Google Home and Alexa from Amazon, a smart lock is a new line of home security and the next step in building the smart homes of the future. In a nutshell, it's an electronic lock that you can remotely lock or unlock with your fingerprint or smartphone. By using a biometric system to secure your home, smart locks eliminate the need for physical keys, which are easily misplaced or forgotten. The goal of this project is to create a smart door lock with an Arduino and ESP32 module. It will also incorporate a fingerprint sensor to unlock the door lock and a camera that is integrated with the ESP32 to operate the door lock wirelessly. Power for the door lock will come from 12 Volt DC supply. The door lock is wirelessly controlled by Blynk application. This is smart and cost-effective approach to make a smart door lock system.

Keywords: IOT, smart door lock, ESP32, Arduino, Home security

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