Abstract

Security is very important factor nowadays. Every person in the world wants his home, industry or bank to be secured. Home security is becoming very necessary now days as the intrusion possibilities are increasing. In this paper, smart system appliance has been designed that has a special feature which always makes a contact with the owner of the house each time that his/her house has been hacked or risky. Arduino card was used, which is considered as the main microcontroller. This paper aims to develop a prototype of a smart security system using RFID system (Radio frequency identification) to lock home doors, thus achieving a simple home security system. A GSM board (Global System for Mobile) also is used for more security and reliability. When the person allowed to enter the house then the house's devices will operate automatically thus the proposed model provide secure and smart house application.

RFID system continuously transmits its data to Arduino Uno board which act as microcontroller unit. If the person has the right card, then he will be able to enter the house whereas the person with the wrong card will be denied. A message will be send to the owner about the stranger
If the owner lost its card then he/she will be able to open/close the house by sending messages to the GSM system.

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Index Terms

Computer Science         Automated Systems
Keywords

RFID, GSM, Arduino Uno.