HOME APPLIANCES AUTOMATION USING IoT

SMART LOCK

Team Name : proud engineers

TEAM MEMBERS: COLLEGE:

1. M. Aishwarya Sri venkateshwara college of engineering
2. R. Deepika St joseph college of engineering
3. T. Dhivyaa Easwari engineering college
4. Jasi Grace I Sri venkateshwara college of engineering
5. M .Gokul nath Sri venkateshwara college of engineering

**Abstract—Smart locks are an easy way to increase the security of your home. Allow a sales person to enter the house without having to leave instructions for a hidden key. This extends to allowing family and friends to enter the home while you’re away, to feed the fish or check the fridge is running. Also, because you no longer have to worry about needing a key to enter your home, it’s easier to get inside quickly and out of rain or bad weather.**

**The range of applications available allow for many other bonuses: you can check that you’ve locked the door for sure, record who is coming or going from the home, or receive notifications when someone has returned home.**

**Introduction**

Application services based on information and communication technology has been actively investigated in the knowledge information society. In particular, the most rapid growth can be observed in convergence services which combines more than two elements for the same purpose. Convergence services prove to represent Internet of Things (IoT) technology, as it enables all objects to provide intelligent service and interactive communication through wired or wireless networks. Furthermore, the IoT industry is deemed the core industrial field of the future. IoT provides convenient and effective services in any place at any time, beyond the technical and economical restrictions, as well as the temporal and spatial limits by providing services required in various kinds of fields. It also aids the distribution of intelligent terminals which includes smart phones, in conjunction with the advancement of information and communication technology.

## **How Do they work**

Smart locks use a Bluetooth connection to control the lock, which is accessed through an application on a smart device such as any android or iPhone. When the registered user approaches the door, the smart lock

Can be opened by detects the Bluetooth signal and unlocks the door by passwords. User only have 3 attempts then an alert msg will be sent to the user. Each smart lock has its own application, allowing the user to control a wide variety of options. These vary between competing manufacturers, so be sure to do careful research before you purchase a smart lock. These options can be anything from granting access to specific people at specific times and dates, to monitoring who is coming and going from the home.

* 1. **Advantages**
* **Secure and safe**
* **Cost efficient**
* **monitors home all the time**
* **easily handle the home place**
* **extra safe besides our physical lock**
* **the master device has the capability to control temporary devices**

