OTP Based Device Control System

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Abstract*: OTP based wireless system is the advanced version of key based locking system the problem with the earlier key-based locking system is that every time need to carry a key to unlock the lock there is a high risk of losing a key if key is lost then, break the locking systemwhich also result in wastage of money and for old people it is difficult to open the key basedlock and there can only be one unique key for different locks having different keys. In project advanced version OTP based lock is used with high security. In project there is 3 layers security system. If someone tries to access it will generate a random OTP which was send toowner mobile & display for fraction of seconds. If the person entered a wrong OTP, it will bealert alarm buzz & generate a new OTP again. After successful enter the correct OTP will enter in 2nd layer protection which was asking us to enter password. Finally, we need to verifyour RFID tag at 3rd layer protection. So, by this way our project was very highly security system able to use at bank locker, Data rooms in companies, confidential areas etc.*

Keywords: OTP

REFERENCES

[1]. Kaustubh Dhondge Kaushik Ayinala Baek-Young Choi Sejun Song, "Infrared Optical Wireless Communication for Smart Door Locks Using Smart phones", 12th International Conference on Mobile Ad-Hoc and Sensor Networks, 2016.

[2]. Abdallah Kassem and Sami El Murr, "A Smart Lock System using Wi-Fi Security", 3rd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA) 2016.

[3]. 'Uno Revision 3", http://arduino.cc/en/Main/arduinoBoardUno, 2016.

[4]. M. Roland, "Software card emulation in nfc-enabled mobile phones: great advantage or security nightmare", in Fourth International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use, 2012.

[5]. Edoardo Persichetti, "Secure and Anonymous Hybrid Encryption from Coding Theory", Springer-Verlag Berlin Heidelberg 2013.

[6]. "Access systems", https://www.security.honeywell.com/me/documents/Acces s Systems2011.pdf, 2011.