

Implementasi *Context-Aware* Sebagai Kerangka Otentikasi Untuk *Smart Lock*

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Abstract

Technological advances that are increasingly developing, especially in the Internet of Things (IoT) are increasing, this increase occurs in security factors. The factor that causes an increase in security is the number of thefts that still occur frequently. Theft does not only occur in the outside environment, but many thieves enter the house to get valuable items. Maintaining home security from theft is an important matter. In overcoming this problem, researchers built a system that can improve the security of a particular lock on the door lock. This system is designed based on Smart Lock design with Internet of Things (IoT) by implementing Context-Aware as an authentication framework. By implementing Context-aware on smart lock, smart lock has the intelligence to automate opening or closing door devices based on the context of the user. Based on the authentication applied, this smart lock is used only for one user. This system uses the Naive Bayes classification method to provide predictive results of user habits along with the level of security used.

Keywords: : Thief, Context-aware, Internet of Things, Smart Lock, Authentication