

Abstract

Smartphones have become part of daily modern human life in various activities. Some of these activities may involve information which is privacy. Because of that, smartphone user requires a system that maintains privacy. Unfortunately, the more secure a system is, more difficult it is to use. So that a security aspect that still able to provide convenience for the user is use of security feature is necessary. Ease of use stated here are effectivity and efficiency including the amount and duration of interaction between users with the system required to authenticate. In this research, has been built a lock screen application that utilizes context data. Context data mentioned before is such as location based on GPS data and Mac Address of Wi-fi. This system will determine whether the smartphone needs to perform authentication or not based on the analysis of this context data. In addition to not reducing mobility and usability of smartphones, the system still handles user privacy when out of the recognized context.

Keywords: Android, Lock Screen, Context data, Ease of use