ABSTRACT

Security system on key lockers are mostly security system manuals in the form of a conventional key. The use of a key like this besides looks old-fashioned in its use also was not effective to ensure the security of goods inside the lockers . The research aims to create a prototype alternative security systems at key lockers by leveraging technology. This research uses the Arduino microcontroller as the driving force of servo motor and Android as the Arduino controller. Programming the arduino IDE either using the Arduino. Pincode on Android is created using App Inventor. This application requires your E-mail to get the pincode as access open lockers. Android and the Arduino will be linked with the bluetooth on your Android smartphone. This research is done by testing several versions of android, such as Nougat 7.1.0 and Oreo 8.1.0. Testing shows all components of the hardware and software work fine. This research resulted in the Smart lock locker is more efficient compared to the other locker cabinets.

Keywords: lockers, Arduino, Bluetooth, Android