Abstract

Motorcycles is a public transportation that is widely used among the people of Indonesia because it has efficient and practical properties used especially when in a crowded area of traffic, and affordable prices. But there are still many motorcycle users who ignore the importance of safety on motorcycles.

With the growing technology, a security system called "Locomoto" serves to prevent the occurrence of curanmor action, especially motorcycles. This system consists of Arduino Uno, Relay 5v, GSM Module and SIM 800L. Smartphone user installed Locomoto application. Users can submit a command via the Locomoto application. Then the command will be sent over the internet network and will be accepted by Arduino Uno. Then Arduino Uno will forward as per user command to relay or GSM module. In this system, user can give command to system through application. Then the system can execute commands such as knowing the location of a motorcycle, tracking a motorcycle, and turning off the motorcycle engine. Applications can provide notification to the user if a motorcycle is detected carried by another person and can track the location of the location of the motorcycle. With this application, the user can prevent his motorcycle vehicle being carried by others without permission.

Keywords: Arduino Uno, Theft, Motorcycle, Location, Internet.