

ABSTRACT

The vehicle's security system is very minimal even though the vehicle features an alarm that does not guarantee the vehicle is safe, and because it's a lot of cases of theft of vehicles that sometimes can not be avoided. Despite reporting to the police but sometimes it is very difficult to find a vehicle that has been stolen.

By putting the device on the vehicle, where the device has a GPS module to get the coordinates of the location, the Device works when the car is turned on and will send information in the form longitude and latitude every duration that has been specified. This device can serve as a tracking vehicle when the vehicle is in a state of flame, so the car can be monitored by the owner of the car and the car owner can know the position of the car in real time database using GPRS communication module.

From the results of testing the device with the application, shows that the results of data information that is on a smartphone has a value of 100% equal to the information data that is in the database without any difference, so this smartphone application can display accurate results that contain information about longitude and latitude, and can display information data on a map, With this device, the car owner can find out the coordinates of a vehicle from a smartphone application and can track the vehicle. So that it can be known the time and route of the vehicle, from the start of the vehicle start until vehicle stops.

Keywords: GPS, Real-time Database, Vehicle Tracking