ABSTRACT

Fuel oil (BBM) is one commodity that is very important and needed by the community. But as we know that Indonesia's oil production cannot cover the consumption needs of domestic fuel. Moreover, this condition is exacerbated by the activities of theft of fuel by certain elements, namely the attempt to drain fuel from the fuel-carrying trucks illegally. In several cities, Pertamina has implemented a GPS system on their trucks. However, monitoring through GPS is still done manually so that it is not possible for all trucks to be monitored to the full. Therefore the author designed and created a Website-based system that is integrated with Raspberry and GPS.

This system allows automatic detection of attempts to steal BBM by a tanker truck driver who is then informed to the website. Here the author uses Firebase as a web database and the programming language PHP, CSS, and HTML to build user interfaces. On the website that the author designed this will display the database from the GPS to inform the location of the coordinates of the BBM truck. If a theft is detected, then the system will instruct a warning accompanied by the location coordinates of the theft at the Pertamina depot.

From the results of testing carried out on the website of the tracker device it is able to precisely monitor the location of the fuel truck that is distributing fuel, then be able to bring up a warning notification if the tool is opened outside the destination gas station and is able to generate open notifications when the tool is opened at the destination gas station. In addition, the author hopes that this system can help Pertamina to minimize the theft of fuel by irresponsible individuals.

Keywords: Website, Database, GPS, Fuel Oil Truck