

ABSTRACT

With the advancement of current technology, the most effective method for vehicle security is by using GPS tracking technology to inform the vehicle owner of the vehicle's location. This final project will focus on creating a web-based GPS tracking application for securing rented vehicles. This website is built using web servers like Xampp and text editors like Visual Studio Code, using programming languages such as Php, Javascript, Leafletjs, Html, Css, and a MySQL database. Vehicles equipped with GPS tracking devices will send accurate location coordinates and timestamps to the database server (soft-realtime). This website also allows for remotely starting and stopping the vehicle's engine through the web and managing audio recordings. The results of a series of tests indicate that the performance of this web-based GPS tracking application is excellent and meets expectations, aligning with the author's anticipated outcomes.

Keywords: GPS Tracking, Cut Engine, Soft-Realtime, Recording, Website