ABSTRACT

Bus is one of the public transportation which often used by society for transportation between city or inter province for certain distance. Most people choose to use public buses as they are considered more efficient and reduce traffic density. However, the lack of an easily accessible information system causes many people who can not predict the existence of bus locations in real time and bus service providers are difficult to control the existence of the bus.

With this final project, the website information system will be connected with bus that has GPS tracker installed. Furthermore, the server processes data from a GPS tracker that transmits coordinate point location information to the bus over the cellular network. The location of the coordinates of the bus will be visualized on digital maps and information tables so that bus and admin users can see it on the website.

This information system can be a solution as an effective and modern system in the development of digital world and transportation that benefit the wider community. Test fuctionality results show that the server is able to visualize the position of the bus in the form of markers on digital maps and tables of accurate information. According to website performance testing standards, this server is said to be good with accessed by 600 users within total click user is 10 times and error rate 0.27% with average page response time is 2,857 seconds. Meanwhile in subjectivity test this website have MOS score 4,4076 (good) obtained from 93 respondents.

Keywords: Information System, GPS, server, website