

ABSTRACT

Taxi is one of the means of transport that is still loved by the people because of its practicality and comfort. Although the rates offered are relatively expensive, but people are willing to pay a little more expensive because of seeking comfort. But the trouble is finding an empty taxi for traveling is not easy. In addition to its presence can not be predicted by the passengers, the waiting time is also too long if passengers book a taxi by phone because conventional taxi driver assignment system still uses Radio Broadcast technology.

From that problem, technology needed for helping the passengers to order the taxi easily and can use it anywhere and anytime. One of solution about this problem is build an online taxi ordering information system that can be used on mobile device and directly dispatching nearest taxi driver. This information system consists of two side, user side and driver side. This information system is web based on user side so that user can use it on cross-platform like Android, iOS and Windows Phone because just require a browser that support HTML5 and Javascript and have GPS sensor, wi-fi, internet connection or three of it. Users can also use their favourite internet browser on their computer to make order.

With this information system, passengers can book a taxi anywhere and anytime using a web app on a smartphone or computer easily. After testing directly to the 30 respondents, from 7 feature that attempted an average of 89.99% stated that this information system functionality has been going well. In total, 86.67% of respondents stated that the information system can help facilitate passengers to book a taxi and 80% said that the information system can help companies improve the taxi service provider quality of service in terms of booking system.

Keyword : Taxi, GPS, google maps API, GIS, Javascript, Arduino