Object Existance Monitoring Application on Android-Based Mobile Device

Student Name : Iqbal Dwiki Kurniawan
NRP : 5110 100 070
Major : Teknik Informatika FTIf-ITS
Advisor 1 : Dwi Sunaryono, S.Kom., M.Kom
Advisor 2 : Adhatus Solichah A., S.Kom., M.Sc.

ABSTRACT

At this time, applications that utilize GPS on a mobile devices in determining a particular place have been much known and used by the public. One of the utilization of the GPS is to monitor objects. In daily life can be taken as examples of when a child permission to the school, turned out to be incompatible with the fact that the child has to say. By using the application Object Existance Monitoring Application on Android-Based Mobile Device he existence of that child can be known.

Application made by utilizing GPS, Google Maps and short message service. By utilizing the method of reverse geocoding and broadcast receiver, short message senders will be able to know the position of the holder of the Android mobile device by sending a command message and will be replied to.

From the results of testing on the field with the user indicates that 100% of users agree this application which implements a reverse geocoding methods can determine the location of the object in the form of an Android mobile device appropriately whether through text messaging or through the application itself. While 100% of users agree this application can update your location history the user into the database when the user switch places.

Keywords: Android, Reverse Geocoding, Short Message Service, Google Maps API.