

ABSTRACT

Parents desire to oversee their children everyday cannot be done because of the bussiness from their own activity. The urge came from bad society issue both in school and at home. It would be better if parent can monitor their children without need to leave their workplace. Therefore, an application that letting parents to see their children location.

The Application designed to be able to tell parents about their child location. Parents will be notified if the children ditching school or they entering a place that is not permitted. Android-based smartphones were selected as a base for the application seeing the result of the survey that said Android has the greatest demand.

We could know the child location using GPS, but knowing the location alone is not enough. So an analysis is needed to that location. An analysis of an area refering to Geographic InFormation System (GIS). Analysis were conducted in child location and to the area that can be created by parents. Due to analysis for child ditching school or entering a prohibited area were decided programmatically, so parents no longer have to monitor their child thorough. Parents only need to wait a notification from the application. With a lack of coming notification, parents can say that their children not breaking the rule that have been made before.

Key words: GIS, GPS, android, monitoring, child, location