

ABSTRACT

Parents or Guardian need to know how childrens behave on their everyday acitivity. When they are playing or doing something, occasionally their parents or guardian would go bored and do another activity so they do not keep an eye on their childrens. In the end, parents or guardian would use their smartphones to pass the time.

In this Final Project, an application has been made to be used on Android smartphone. The Application has a feature that can detect childrens location and also control a safezone radius so that children are safe and can be observed. React Native is being used to build this application and Google Firebase is used in addition to provide realtime database service. On the other hand, the interface are created from Google Maps library.

Children location monitoring application is being made based on location tracking test, realtime location tracking can be achieved with 1-6 seconds delay time. Then, safezone radius can be set using the Slider component that comes within Menu button. Also, the output from the application if the device or children are going outside the zone then a notification will be sent to the smartphone device.

Keywords : Monitoring, Guardian, Parents, Android Application, React Native