

ABSTRACT

Child safety and security is the most important thing for any parent. The rise of cases of missing children and abduction requires parents to increase their attention and supervision of their children. When in a public place or in a crowd for example, parents are sometimes negligent when their children have gone too far or out of reach and only realize after their children are lost somewhere. This problem is the background of the author to create a system consisting of Android devices and applications that are connected to each other to prevent the increasing number of cases of child loss. A device planted with a microcontroller, bluetooth, GSM and GPS modules is in the child's position and is connected to the application on his parents' Android smartphone via a Bluetooth connection. At a certain distance, parents can monitor the distance to the child with the value that appears on the screen of the Bluetooth connection-based application and if the Bluetooth connection between the two is broken then the parent can monitor the child's location through the Google Maps menu on the application on the smartphone.

Keywords: detection, missing child, bluetooth, GPS, GSM.