

My Child- A Child Monitoring and Tracking Android Application

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Abstract— Android based child monitoring and tracking system is very important mobile-phone android application, which provide parental control over the use of mobile phone by a child. A recent survey concluded by finding the fact that most parents request for an aid that can track the activities of their children. Through this application a parent can see the call log list, sim change logs, website visited logs, calendar logs, GPS location logs and messages sent and received in the child's mobile phone. Also parent get alerted when the child cross boundary set by parent or whenever the SIM is changed in child's mobile. Whenever the parent want to see the activities of the child, parent only need to open their app. The app make a request to web server and get all the details from the server using jax-rs web service (rest). In child part every message, call, browser events will trigger a content observer. This causes the changes to be updated in the server. So the parent will always have a control over their child's phone. Even though child can delete the call log and SMS details manually, this application stores all the deleted data in the server. Content of the message and log can be viewed by their parents even if their child changes the number. Thus the application provides immense potential in monitoring and safeguarding children.

Key words: Monitor, Track, Android, Logs, Block

I. INTRODUCTION

The main objective of this application is aid to track the activities of the child. The application also immense potential in monitoring and safeguarding children. It means that the parent can see the call log list, sim change logs, website visited logs, calendar logs, GPS location logs and messages sent and received in the child's mobile phone.

The sim log mainly contain the details about the sender's mobile number, recipient's mobile number, the sms date and the time and the message text details. Another main feature is that the call history log. This mainly contain The number of the incoming caller, The numbers child is calling it means the outgoing calls and the detailed time of all incoming and outgoing calls are made by the child.

The GPS location Logs mainly contain the information's about the child's position constantly and the application will alert when child cross a certain area and parent can also set the boundary. If parent don't want to get alert for few days he can also d isable the alert. It will also give information about the calendar logs like date, time that are made by chide mobile phone. This application also provides information about the gallery image details with the help of content provider. Another main feature is that the web site log information. It means that it contain detail about time of visit to each web site by the child.

II. OVERVIEW

Initially two different applications are install in parent and the child mobile phone. The application that are install in child mobile phone is unidirectional it means that the child can't be access the parent mobile information but the application that are install in parent mobile phone is bidirectional it means that the parent can access the child information's.

The app may look like as above shown figure. Here we can see that the each information of child like the image history, calender logs, web history, block log, call log, sim change log, sms log and the location log can be easily view by the parent by a single click on the corresponding link that shown in the app.

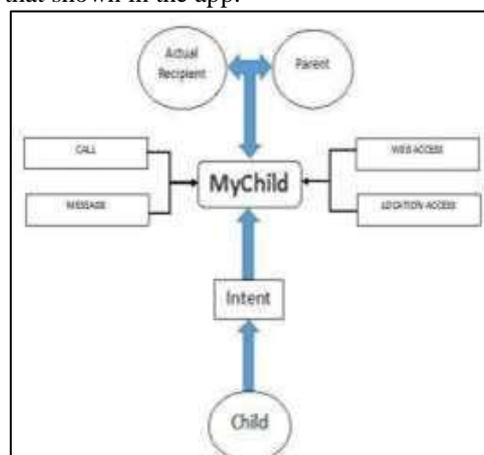


Fig. 1: Block Diagram

The app will also give the location access of child with the help of the google map. Here we can see that initially the parent will set the child location on his mobile phone then if the child is overcome the boundary then the app will give information to the child with the help of google map. It means that the content provider is always check the details and this content provider will give the information to the parent mobile.



Fig. 2: My Child user interface

This app will also give the details about the calendar logs that are done by the child mobile phone. The major advantage of this app is that the parent can access or track the child at any moment by a single click on the app. The app will also provide the access to the gallery of the child mobile phone with the help of the content provider. The parent can not only access the images but also it can access the songs, videos etc.. that are stored by the child mobile phone.

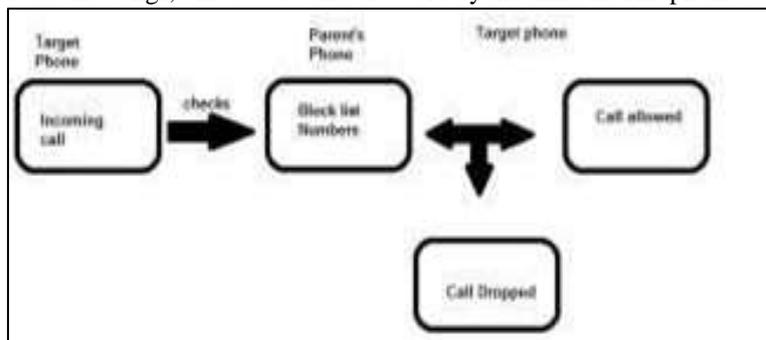


Fig. 3: Call Blocking Block Diagram

Another main advantage of this app is that the parent can possibly block some particular mobile numbers. The blocked numbers can't be by the child. The app initially checks that this number is included in the blocked list that are done by the parent. If the number is in the blocked list then the call will be blocked without knowing by the child otherwise the call will be allowed.

III. CONCLUSION

My Child can overcome the drawbacks of the currently existing system. In this system, we can provide an overall parental control over the child's phone. It aims at children who are prone to technical know-hows and misusing the same. And this system helps the parent to know the activities of their child and peer pressure they undergo in their life. As our application is mainly focused on children under adolescent age, so that the application will be a solution to the problems related with using mobile phones by the children in that age. Thus, the system can fulfill all the objectives identified and is able to replace.

IV. RELEVANCE

The Relevance of the project are

- Existing systems are not powerful enough to prevent crimes against children.
- Total monetary power over child's activity in phone.
- Several features are included under a nutshell.

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