



Harassment Monitoring Using Android System

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Abstract— Harassment monitoring system is essential software installed on phone which informs the security and dear ones with location details by using GPS system and location detection service seeking for help message. It posts the same details on server to notify public for help. Android is an open mobile platform developed by the Open Handset Alliance (OHA) led by Google. Android is a software stack for 3G mobile devices with an operating system, middleware and key application. Its SDK provides tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

Keywords—GPS, Location Detection, 3G, Android

I. INTRODUCTION

Its SDK provides tools and APIs necessary to begin developing applications on the Android platform using the Java programming language. An Android application is written with new and reusable application building blocks (example: activity); broadcast intent receiver, service, and content provider. After an application is written, it is deployed as .apk file (Android package file). .apk file contains codes, resources, and a special XML file called the Android Manifest file. To satisfy above requirements, the proposed system adopts 3G/4G communication function and collects user's information using Global positioning system. In addition, database is adopted for storing and retrieving user's details such as call and user's location. When the user calls the security (e.g. police) or a parent, an immediate alert message will be sent to the police's and parent's phone. With this system, it is possible for security and parents to track the location of the user. Android Platform consists of several layers: the Linux kernel, native libraries, virtual machine (VM), and an application framework. The Linux kernel provides basic operating system services and hardware abstraction for the upper software stacks. Native libraries support the miscellaneous functionalities of web browsing, multimedia data processing, database access, and GPS reception optimized for a resource-limited hardware environment. The register based VM runs Java code with low memory demand. At the top of the layers, Android provides a component based programming framework so that users can easily build their own applications.

II. PROPOSED WORK

2.1 System Modules:

1. Sending SMS:

In this module, the app will be providing a SMS facility, in which the user can send the SMS to the list of person he or she registers to send SMS in case of emergency.

2. Motion Sensing:

In this module, the user will be able to access the app by shaking the mobile phone the shake motion will be sended and the user will be able to access the app. This can be done using sensor.

3. Tracing Location:

When the user touch the send location button. The location of the device will be sent to the server. The parents and friend's will be able to trace the user is being harassed.

4. Profile:

When the user sends the message to the register number he or she may get a call from him in the case if the user mobile is in silent mode by this changing mobile sound profile the mobile will get into the general mode.

5. Audio Recording:

In this module, when the user will click the audio button the audio will be recorded.

2.2 System Architecture:

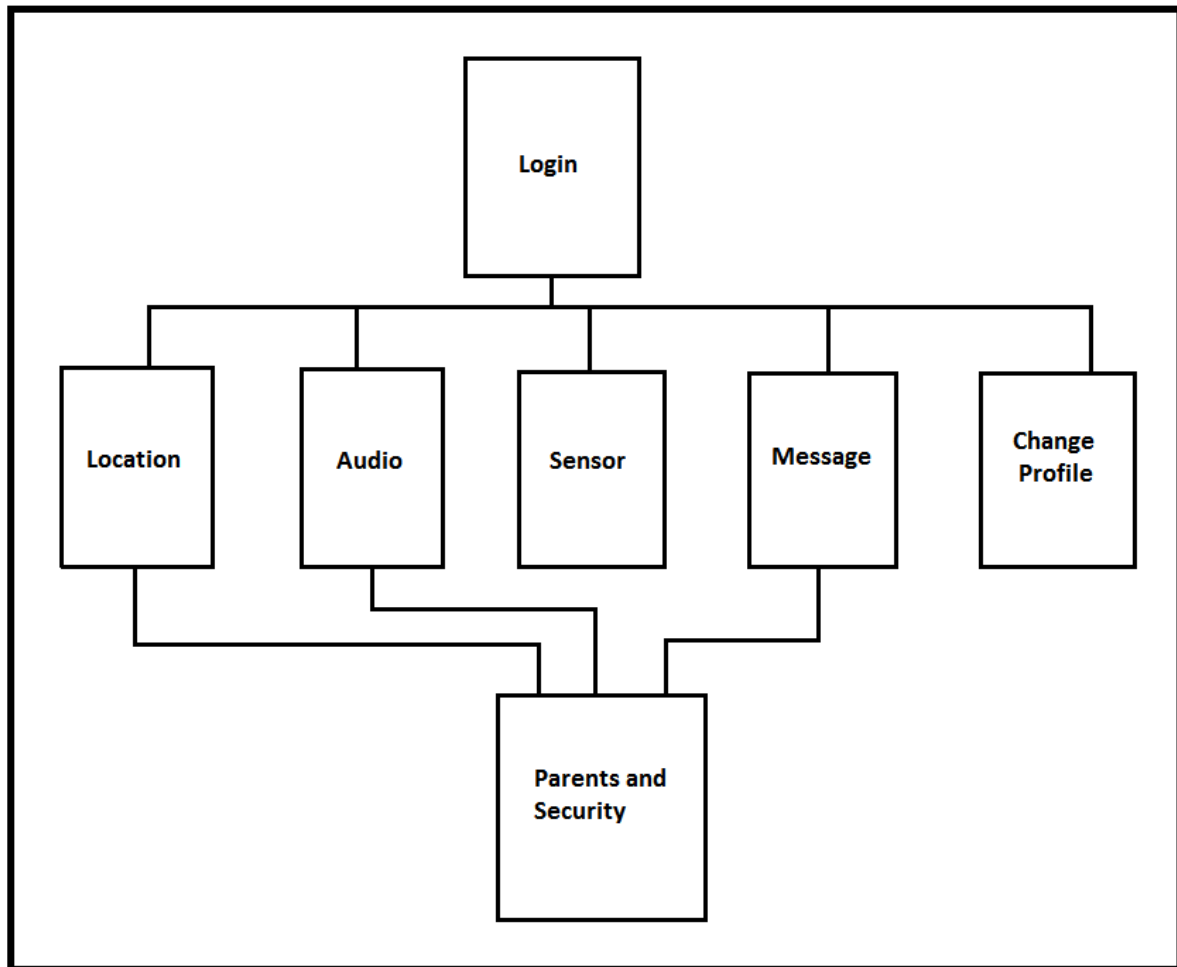


Fig. 1. System Architecture of Harassment Monitoring System

The Harassment monitoring system is basically to reduce the harassment that are going on. While being a witness/victim getting over or stopping the harassment is necessary. Here our application can be useful specially for women's. By using our application location and details of crime/harassment will be sent to police station and also to parents. This software will be useful for every person. Specifically, it is recommended for girls and women to use this application. Server is situated to monitor the overall system and retrieve location and details if request by the user. The main constraints of our project are that the all user should be connected in a network; User should be connected to the server to do send the location and details. For connecting to server, it should have a working internet connection.

III. CONCLUSION

The good foundation always leads to better structure. we have implemented the new generation harassment monitoring system and system features to meet the requirements. More importantly it is not necessary for the security to attend the call, the user just has to press the call button and the software starts its execution. Using telephony manager technique, the proposed new generation harassment monitoring system can adapt to various mobility of user by adjusting network.

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