

# ALERT FOLKS: A WOMEN SECURITY APP WITH AN ENHANCED PROTECTION

Mr. Rajasekaran T<sup>1</sup>, Dakshnamurthy S<sup>2</sup>, Deepan Surya Raj S V<sup>3</sup>, Durga S P<sup>4</sup>

*Assistant Professor, Department of Computer Science and Engineering<sup>1</sup>*

*UG Scholar, Department of Computer Science and Engineering<sup>2</sup>*

*UG Scholar, Department of Computer Science and Engineering<sup>3</sup>*

*UG Scholar, Department of Computer Science and Engineering<sup>4</sup>*

*SRM Valliammai Engineering College, Chengalpattu, Tamil Nadu, India*

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**Abstract** - The aim of the project is to develop an Android application that lets its users to send notifications in case of an emergency or a panic situation. The users can automatically send emergency messages and make a call. The phone numbers can be set from within the application. The text messages, along with last known location of the user is sent to the guardians and the admin. Smart phones are getting popular in this advanced world. Android is a powerful OS supporting many applications in smart phones. These apps make life more comfortable and advanced for the users. Hence, a smart phone can be used efficiently for personal safety or various other protection purposes especially for women. In today's world, it is not safe for a person to travel alone at night especially for women. Every day and every minute some women of all walks of life (a mother, a sister, a wife, young girls, and girl baby children) are getting harassed, molested, assaulted, and violated at various places all over the country. Areas like streets, public spaces, public transport, etc. have been the territory of women hunters. Our project is mainly focused on safety-oriented achievement using the android application. Our app helps a person who need help from strangers or unknown people who tries to attack or misbehave to them. By pressing an alarm button an inbuilt alert message with the current GPS location will be send to the victim's registered contact and these features can be triggered by audio controller. The key feature of this app is to send the alert message through the WhatsApp and making a call to the primary guardian's phone number. So, we can quickly save the victim. Our goal is to increase social awareness and to encourage each individual person to travel safely.

**Key Words:** Alert folks, SOS, Audio controller, Local police station, Emergency video

## INTRODUCTION

Though there were several apps originally developed for students to reduce the risk of assault on women, they are suitable for all women in the light of recent outrage which shook the nation and woke us to the safety issues for our daughters and all the women, people are gearing up in different ways to fight back. new apps have been developed to provide security systems to women on their phones, so that they can use when they are in need. Android is an ideal

platform for mobile development. Android is a mobile operating system developed by the Open Handset Alliance, led by Google, and other companies. Android is an open source and Linux-based Operating System for mobile devices. Android's user interface is mainly based on direct manipulation, using touch gestures that loosely correspond to real-world actions, such as swiping, tapping and pinching, to manipulate on-screen objects, along with a virtual keyboard for text input.

## EXISTING SYSTEM

To date it is identified that the following Android Apps of women security are good and are offering relatively similar service. The key features of the app are the user must save some details. These details include Email address and password of the user. Then, the app is loaded as a "widget," so that when the user touches the app, it alerts the recipient. Another key feature of the app is that text message containing the location coordinates of the user is sent to the recipient's mobile number. GPS positioning is not the most accurate but is in vicinity. Only the emergency message is sent to the helper, there is no conformity of receiver seeing the message. If your organization's contact list is not maintained then the emergency notification system is not going to be effective in a critical incident. Recipients may not take the alerts seriously enough if they have not been trained in understanding why they are being sent and why they need to act.

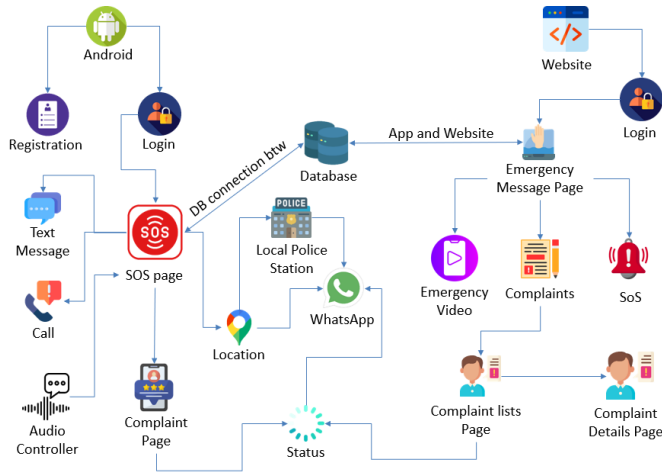
## 1. PROPOSED SYSTEM

The user is permitted to press the SOS button in our project, which will send an emergency message to the registered phone numbers with the live location and this also can be triggered by the audio controller. Through this Android app, the user may file a complaint. This project also includes a web application for the admin side. The admin website is updated with victim live location and if the SOS button is triggered by audio, he will receive the 10 seconds video of the victim and complaint notifications. Additionally, the admin can respond to the user right away. Additionally, the complaint's status and the admin's response are updated on

the android application and through WhatsApp at the same time.

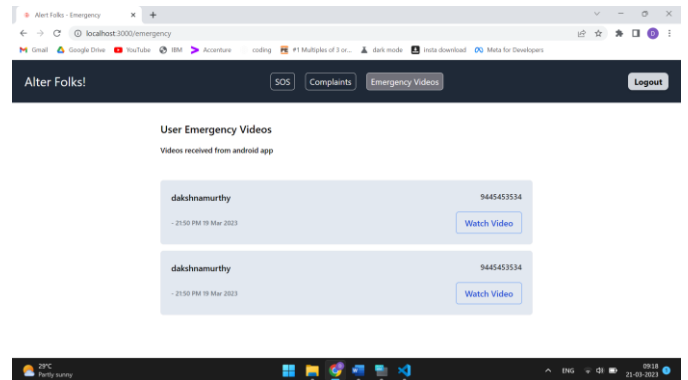
anonymously opens the rear camera to record the video for 10 seconds and sends this video to the admin.

**ARCHITECTURE DIAGRAM**



**1.4 EMERGENCY VIDEO**

Once the video is recorded for 10 seconds, this video is sent to the admin and displayed in the emergency video tab. The admin can see this and take necessary steps to prevent the victim and this can also send to the local police by the admin if it is needed. The video is sent to the admin from the user without delay with utmost quality irrespective of the file size.

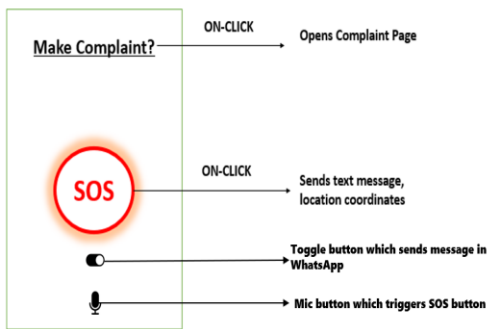


**1.1 SOS BUTTON PAGE**

After successful login, the user is taken the SOS button page. The page is designed with the SOS button and the mic button. Clicking on SOS button sends the emergency message with the live location as a normal message and WhatsApp message to the registered numbers. Once the SOS button is triggered the user location is received at the backend. Another feature is "Make a complaint."

**1.5 CALLING PRIMARY GUARDIAN**

On clicking the SOS button or triggering the SOS functionality by the mic button makes an emergency call to the primary guardian. This feature can be achieved by getting the permission from the user to use the phone's inbuilt call service. Then, the android studio's inbuilt dependency called "intent " is used to pass the receiver and primary guardian phone number and also passes the country code to the android calling app to make a call and could be answered by primary guardian.



**1.2 LOCAL POLICE STATION**

After triggering the SOS button, the nearest local police station with respect to the victim's location is fetched from the google maps and the police station details along with location of the police station is sent to the guardian numbers and also to the admin in a 20 second's delay.

**1.3 AUDIO CONTROLLER**

The mic icon is integrated in the SOS page which wakes up the google voice assistant which receives the command from the user. Once it receives the command "Emergency" it automatically triggers the SOS functionality and also

**FUTURE GOALS**

Nowadays the usage of smart watches is on trend so integrating such women security features in the smart watches is considerably a best option. So as a feature work make this application compatible with smart watches and these alerts can be viewed in the smart TV of the guardians. Though the local police station were sent to the guardians the patrolling cops are allocated with these crimes so we can improve this application by automatically contacting the cops who is on patrolling at that specific time. This project is small scale but has a large development scope and it can be extended and used by all common people so in totality this project is an initiative taken by the youth community to contribute to the betterment of the society in whatever way we can.

**CONCLUSIONS**

User Interface is designed in a manner that it can be adapted very easily by the user. The current work on the SOS app has a lot of essential features that would be used in case of an

emergency like sending text messages, making calls to the primary guardian from the app on tap of a single button. An app for such a purpose has a lot of scope for enhancement. Security Alert that is designed in android platform for safety of women with the aid of recent improvements in mobile technology. This project is useful for the user when the user is in some problem or needs any help. When the user opens this application, he can see a SOS button. When the user is in some difficulty or needs any help, it would be obtained by simply clicking a button, this will send an SMS and WhatsApp message to the registered mobile numbers. Unfortunately, the safety of women is in doubt and security is not concerned. Many headlines still coming across against women indicates that increasing trends of such sexual assault rapes still happening in today's generation. So, we are trying to contribute little efforts towards women which will ensure the safety and respect for women so that she can also have the right to grow equally like men.

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