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Women Well-being Application

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Abstract: ***Safety and security of girls is one of the most serious issues of our time; the crime rate is rapidly rising, and female wellbeing has become a greater concern than ever before in today's world. Many studies show that the majority of crimes occur late at night, but women are unable to shut themselves in from twilight till dawn. Women can't expect to work exclusively the day shift in metropolitan places, where offices, convenience stores, gas stations, and other businesses are open 24 hours a day, seven days a week. In the last five years, the use of smart phones with GPS navigation systems has risen significantly. So, if mobile phones are used for so many other purposes, why not women's security? As a result, a smart phone can be effectively employed for personal safety or a variety of other protection objectives, particularly for women. This application alerts the guardians with just a single click. SMS with the user's live location is sent to the preconfigured contact. An alarming siren goes on when the user activates the app. This application also enlists the nearby hospitals and police stations. As a result, this app has the potential to significantly assist in the rescue of women from dangerous situations.***
Keywords: Smartphone, Android, GPS (Global Positioning System), Alert Message, Panic Button, Safety Tips, Women Security

I. INTRODUCTION

Due to women's increased exposure in every sector of life, the level of crime against them has increased by a factor of ten. Women were traditionally constrained to the four walls of their homes, but thanks to globalization, women now have the opportunity to compete in all areas on an equal footing with men.

Women are more powerful than ever before in today's globe. However, accidents and crimes against women continue to occur. As a result, this application serves as a lifesaver for women's safety.

The elements of the personal protection application for women are described in this study. This software has a variety of features to provide women with the security they require, from SOS alerts and contact details to geolocation sharing and safety suggestions. The structure of this document is as follows: The application's suggested system is described in Section II. Alert messages, a panic button, a live location, and other features are highlighted in Section III. The evaluation of the entire system is presented in Section IV. As a result, the system's workflow diagram is shown to provide a better understanding of the application. Section V shows the application's outcome, which appears on the cellphone after it has been installed. Finally, Section VI provides a quick review of the system to bring the study to a close.

II. PROPOSED SYSTEM

This system has been developed for android users that will help women be safe. If the woman is in danger she can long press the emergency button which is the very first module of our system and is displayed once the user opens the app. This system has ‘instructions’, ‘nearby places’, ‘is place safe’ and ‘safety tips', which will help the user to understand the app better and track nearby hospitals and police stations. This system can be divided in three module:

1) *Emergency Button:* One long press will indicate the user is in danger and this button will make an alarming sound that will alert other people around.
2) *GPS System:* This module of the system will send a message to the contact the user has chosen while registering for this app. The message will contain the link of the GPS location of the user along with the message that the user is in trouble.
3) *Main Features:* This system has various other features such as it will display all the instructions that the user needs to know, along with this a important feature is the user can locate all the nearby hospitals and police stations. This is done using GPS and internet for which users' internet should also be switched on. Another feature ‘is place safe’ will give a rating/score out of 10 on the basis how safe the current place of the user is. This system has the feature of safety tips which will help the user to deal with emergency situations effectively.

III. FEATURES

A. *'Instructions'*

The 'Instructions' button will display a generalised set of instructions for new users to give a brief idea about the steps to follow for using the application.

B. *'Emergency' Button*

When the 'Emergency' button is pressed, the user's current position is notified to the guardian by SMS. When you push the 'Emergency' button for a long time, a loud siren (alarming noise) will sound, drawing the attention of everyone close.

C. *'Nearby Places'*

On pressing the 'nearby places' button it will use GPS to enlist the nearby hospitals and police stations according to the user's current location.

D. *'Is Place Safe'*

The app has an 'is place safe' button which will rate the user's current location out of 10 with the help of GPS on the basis of google map reviews.

E. *'Safety Tips'*

The system has a 'safety tips' button which will display a list of dangerous situations and measures against those situations so that the user can take steps to ensure safety.

IV. EVALUATION

The entire evaluation can be completed in three steps. The first major step is to install an emergency button that, when pressed repeatedly, emits an alarming sound to alert anyone nearby. The user can send an SMS including his or her current position as well as the message "I am in difficulty." Family, friends, and relatives can be among these contacts. During the registration process for the app, the user can choose and pick the contacts. The aforementioned contact information must be provided when the app is first loaded on the smartphone. The information you enter will be saved by the application. In the system's map view, the user can also look for nearby hospitals and police stations. In case of an emergency situation the user can also look for safety tips given in the system. When the gadget has built-in GPS and a compatible mobile network is also accessible, the entire procedure of these steps can be completed.

V. WORKFLOW DIAGRAM

The application's workflow diagram is provided in this segment, which displays the app's primary features and explains how each component is related to the others, as seen in Figure 1.

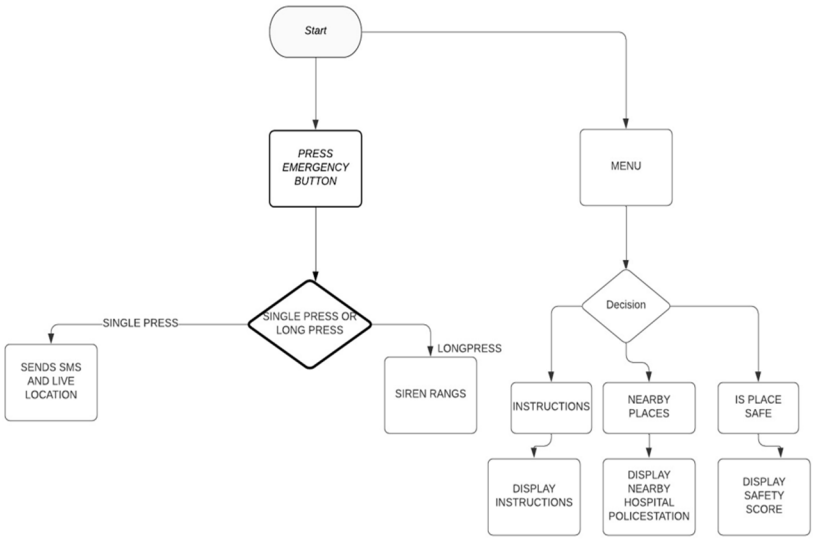

Figure 1. Workflow Diagram of the application

VI. RESULT

A. A couple of the app's result pages, as well as its primary features, are displayed in this part.

B. The red 'emergency' button is displayed on the First Screen, along with the logout button in the upper left corner of the page, as seen in Figure 2..

C. As illustrated in Figure 3, the Home Page is a screen that displays the app's main features such as 'instructions,' 'nearby places,' 'is place safe,' and 'safety tips.'

D. A list of neighbouring hospitals appears as soon as the user clicks on the 'nearby hospitals' option, as seen in Figure 5.

E. A list of neighbouring police stations appears as soon as the user clicks on the 'nearby police station' option, as seen in Figure 6.

F. When the 'is place safe button' is pressed, the user's current location is rated on a scale of one to ten for safety. The rate is 7.6 out of ten, as shown in Figure 7.

G. As soon as the user presses the 'emergency' button, an SMS will be sent to an emergency contact number that the user has saved, along with the user's live location link, as shown in Figure 8.

H. On pressing the ‘safety tips’ button a list of safety measures are displayed as shown in Figure 9.

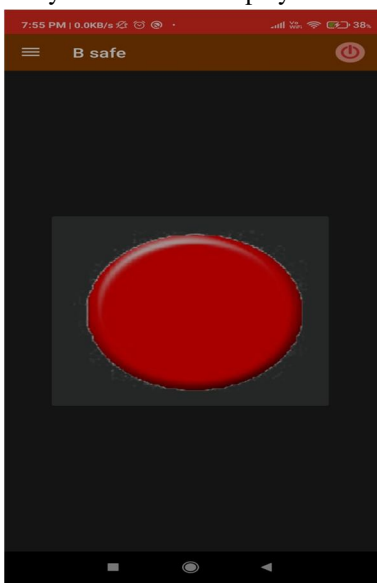

Figure 2. Emergency Button

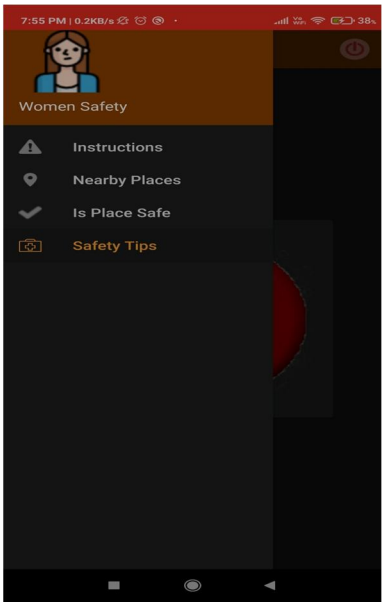

Figure 3. Available options in the application

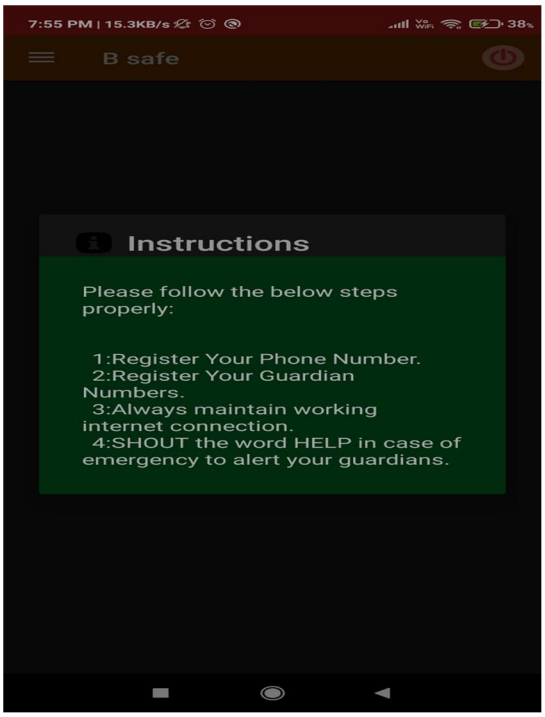

Figure 4. Instructions

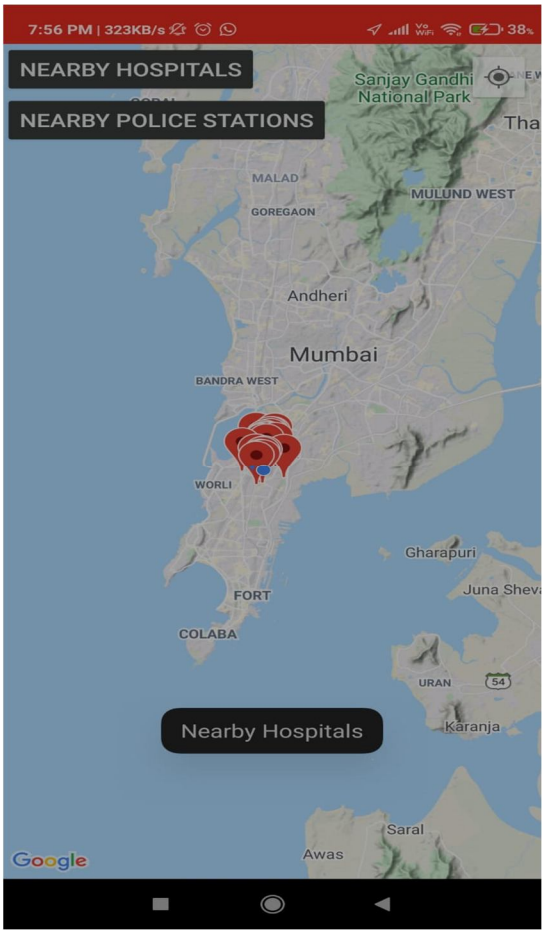

Figure 5. Nearby Hospitals

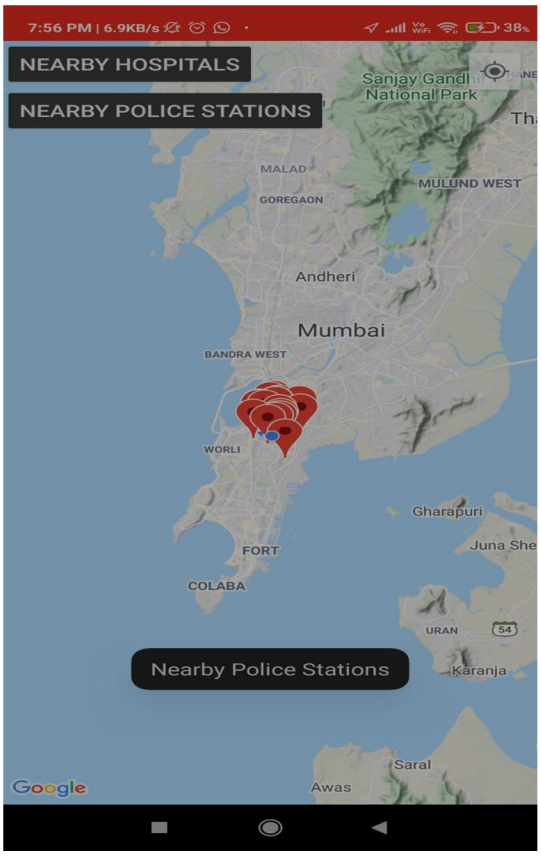

Figure 6. Nearby Police Stations

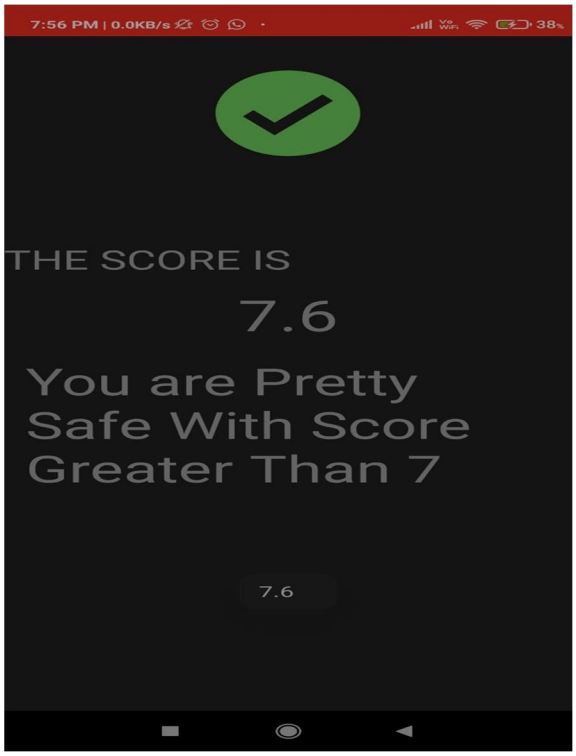

Figure 7. Is Place Safe

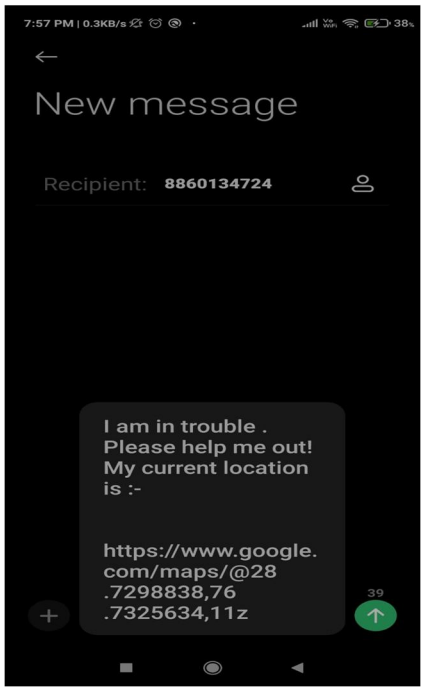

Figure 8. SMS with live location link

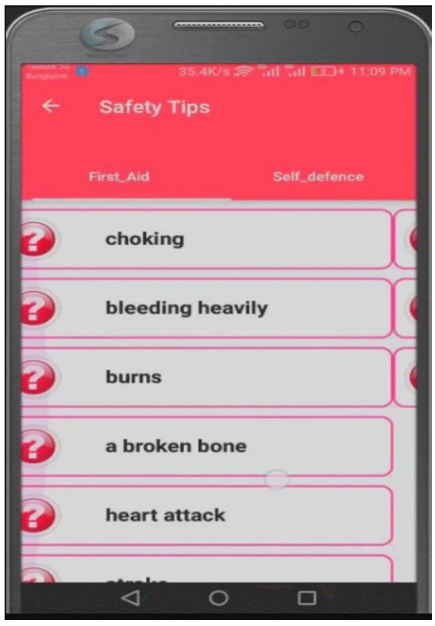

Figure 9. Safety Tips

VII. CONCLUSION

With the help of current advancements in mobile technology, this article explains an application created in the Android platform for the protection of women. This software was created with the idea of personal safety in mind. It has all of the necessary capabilities, such as Tracking devices, emergency contact information, and directions to safe locations, among others. It assigns a level of safety to the user's present location. The software has a button that displays local hospitals and police stations to ensure the user's safety. With a single press of the emergency button, it will communicate all pertinent information about your position. The app will send an SMS containing your geolocation and a link to Google Maps to a pre-configured number.This app provides both safety and security, which is critical in today's environment. This android application is useful in today's society because women often travel alone at night, especially in cities, due to employment, therefore it can be quite useful in times of crisis.

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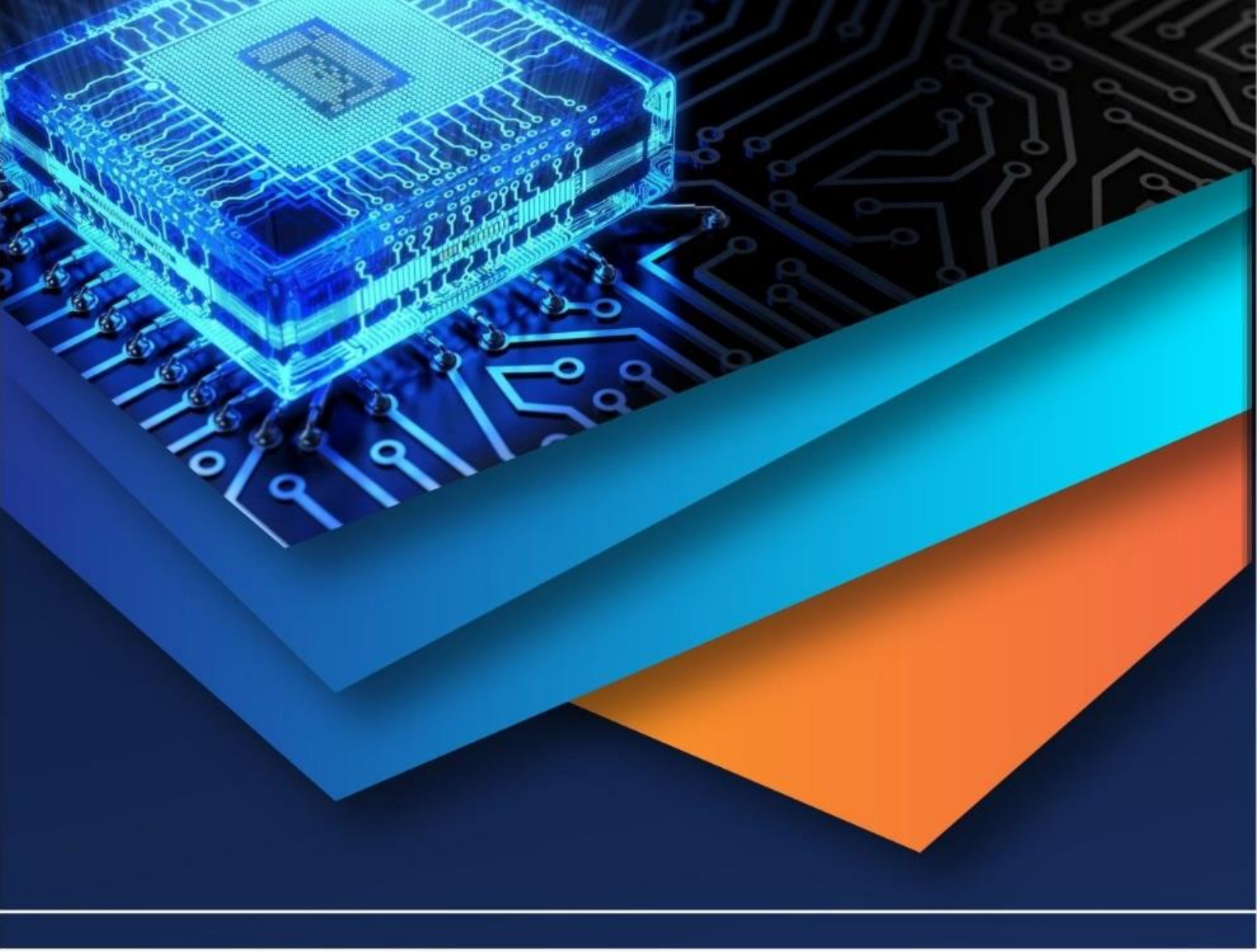

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