Women Safety Application Using FirebaseDatabase: A Survey

Sakila Sultana

School of computer Science and IT, Jain University (Deemed-to-be University), Bangalore Karnataka, India

Dr.Murugan R

School of computer Science and IT, Jain University (Deemed-to-be University), Bangalore Karnataka, India

ABSTRACT

The use of advanced cells outfitted with GPS route units have expanded quickly from 3% to over 20% in the last few years. Henceforth, an advanced cell can be utilized effectively for individual wellbeing and different other security purposes, particularly for ladies. This application can be initiated by a solitary snap when the client feels she is facing any potential risk. This application sends the client's location to the enrolled contacts at regular intervals in form of message. In this way, it behaves like a sentinel following behind the individual till the client feels she is safe. This paper presents an examination of a special element of this application to send the message to the enrolled contacts ceaselessly until they are squeezing the 'HELP' button. The nonstop location following data through SMS assists with finding the location of the casualty rapidly and can be safeguarded securely. This application expects to guarantee ladies' wellbeing. This is accomplished by tending the conditions that compromise the security of ladies in the present days. This application guarantees ladies are not placed into such circumstances through different highlights presented by our framework.

• Keywords: Smart Phone, Android, Registered Contacts, GPS location, Firebase Database (Cloudbase Database)

INTRODUCTION

Currently, it isn't safe for an individual to travel solo during late evening time, particularly for ladies; In general women are not as physically strong as men to safeguard herself from antisocial elements. The great method for diminishing possibilities in turning into a casualty of rough wrongdoing (burglary, rape, assault, abusive behavior at home) is to distinguish and approach assets to help you out of hazardous circumstances. Regardless of whether you are in moment of inconvenience or got isolated from companions during the night and don't know to arrive at home, having Applications like this on your mobile can decrease our risk and bring help when it is required. In this paper, we present a security Alert application for PDAs working over the android stage. Public Crime Records Bureau of India, detailed episodes of wrongdoing against ladies expanded 6.4% during 2012, and wrongdoing against a lady is carried out at regular intervals. 42.6% of Indian men accept that ladies ought to endure brutality to hold the family together, and ladies here and there are beaten. In January 2011, the International Men and Gender Equality Survey (IMAGES) Questionnaire announced that 24% of Indian men had submitted

sexual savagery eventually during their lives. Our witticism in fostering this application is to give a protected climate to ladies through PDA as today the vast majority of individuals are conveying PDAs to any place they go. The Delhi Nirbhaya case forced the Government to improvise the regulations and make sure it's strict implementation, however even the sexual crime percentage in India has not diminished. Along these lines, it is smarter to go to our wellbeing lengths rather than turn into a survivor of those wrongdoings.

SURVEY MOTIVATION AND METHOD

As a piece of writing review, we explored a few uses of ladies' security that as of now exists in market. The point is to see the way that these available application work and to perceive how they can be improved and how unique they are. To date, it is distinguished that the accompanying Android Apps of ladies' security are great and are offering moderately comparable help.

Shaking option: By this feature a person can activate the app by shaking the mobile to and frown very fast. This can be done by activation the motion recognition feature. But this will not be confused with the normal shaking of mobile in women purse or in clothes pocket, as both the motion is different.

This will trigger the emergency alert feature of the app, as the motion sensor of the mobile will detect the motion and give an input to the app.

Global access: The app will be having global access as it can be used globally. This means if the user of the app and their emergency contact are not in the same nation then irrespective of this emergency message and alert will be triggered and the emergency contact will receive the notification.

Mobile number authentication: Mobile no will be required at the time of making account on the app(login) after installation, for better, if you enable mobile number authentication (like mob no OTP for login) you must give instant received OTP on your mobile no. to login which will prevent the duplication of one account.

Offline accessible: Offline accessibility is also one of the best security features that can be enabled in this app, this feature will help the app to serve its purposes even if there is no network in the mobile.

Help Button: Call to top adds number connected and rather that a text message with the location of user will be send to all contacts.

Reliability: This application will handle the GPS Tracking, Calling and Messaging in a perfect manner.

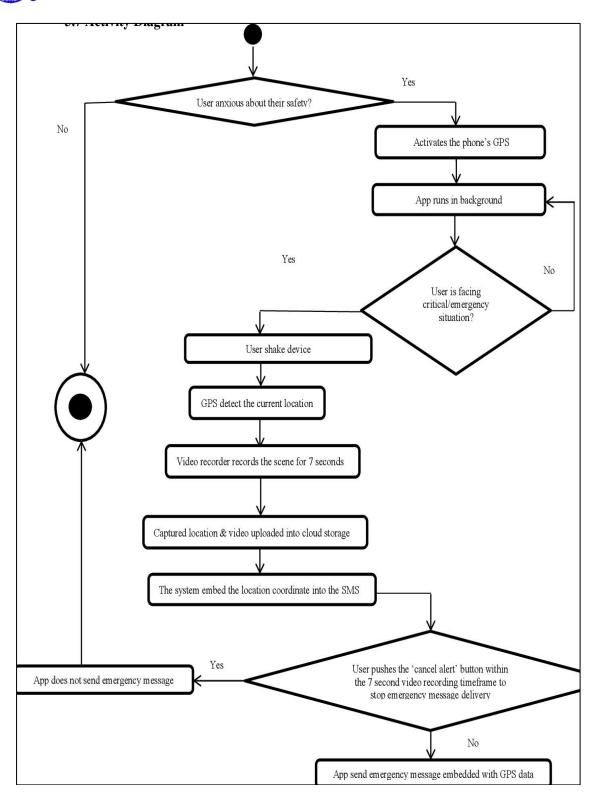
No Lagging: This app will have the highest priority which means all other app will be on hold if the emergency button of this app is triggered

SURVEY OUTCOME

- A. Women's Security: This application is created by AppSoftIndia. The critical highlights of the application are, the client needs to save a few subtleties. These subtleties include: Email address and secret word of the client, Email address and the versatile number of the beneficiary, and an instant message. Then, at that point, the application is stacked as a "gadget", so when the client contacts the application, it cautions the beneficiary. One more key element of the application is that it records the voice of environmental factors for around 45 seconds and this recorded voice, the instant message containing area directions of the client is shipped off the beneficiary versatile number.
- B. **POLICE NEARBY:** This application is created by Big Systems in 2013. The police, close by scanner android application are worked with the plan to associate residents and understudies to their closest police headquarters city savvy at a single tick and will allow the local area to turn out to be additional elaborate right from your Android Smart phone. Any neighborhood, state, or school, College police division as well as other regulation authorization offices can utilize the Police scanner Android App to give you upgraded administration and improve correspondence. Police close-by application can download without information exchange.
- C. **Application will send SMS as well as mail to the saved contacts:** As all information cannot be send on SMS, mail will also be triggered with many addition information's which can be processed if any unwanted scenario has happened.
- D. **User Friendly:** This is a user-friendly application that can be accessed by anyone who has installed it in their smart phones. So even a lady who is not much educated or feel difficulty in operating different app can use it easily. Our intention is to provide you with fastest and simplest way to contact your nearest help
- E. Shout ALARM: Scream Alarm, an android application created by Go Pal App Maker in November 2013. By clicking this application, it produces an exceptionally high-volume shout amid misery when the lungs of an individual fall flat in shouting in a difficult situation. The produced shout is in a lady's voice is seriously useful in putting the potential solid miscreants down. The main work done by this application is the point at which the individual pushes or contacts the application, the mobile produces a very loud lady's voice. The applications referenced above work on various stages, some applications work on Android, Windows, IOS yet some just in android or windows. Be that as it may, this application's Security Alert is planned uniquely for the android stage yet in the future it tends to be reached out to work over Windows and IOS stages. The android stage is open source and was constructed involving open Linux Kernel to empower the designers in making interesting portable applications that will exploit the handset offers. A Virtual Machine is planned and used by Android to enhance the memory and equipment assets of portable climate. Android can be amplified sufficiently to consolidate the new state-of-the-art advances as they arise. Subsequently, the android stage will continuously keep on being advanced as a designer local area to fabricate inventive applications for portable climate, in todays world, individuals utilizing PDAs have expanded quickly, and consequently, an advanced mobile phone can be utilized productively for individual security or different other assurance purposes. The terrible episode that shocked the whole country has aroused us to go for the wellbeing issues thus a large group of new applications has been created to security frameworks to ladies utilizing their mobile. This paper presents, an Android Application for the Safety of Women, and this application can be enacted this application by a solitary snap, at whatever point need emerges. A solitary snap on this application recognizes the area of spot through GPS and communicates something specific containing this area URL to the enrolled contacts and approaches the principal enlisted contact to help the one in hazardous circumstances.

ACTIVITY DIAGRAM

Volume: 06 Issue: 03 | March - 2022



CONCLUSION

This paper portrays the application, Security Alert that is planned in the android stage for the wellbeing of ladies with the guide of ongoing upgrades in versatile innovation. This undertaking utilizes which is valuable for the client when she is in some issue or needs any assistance. At this point when the client opens this application, she can see a HELP button. Likewise, she can store a message and 3 contact numbers. Whenever the client is in some trouble or needs any assistance and the client opens this application, she can see a HELP button. Click that button to send SMS to the registered contact list.

REFERENCES

- 1. https://www.kdnuggets.com/2019/04/predict -age-gender-using-convolutional-neural-network- opency.html
- 2. https://levelup.gitconnected.com/a-small- gui-application-based-on-computer-vision-and-python-imaging-libraries-using-opency-e07b3f8c06c1
- 3. https://medium.com/ai-in-plain-english/an- approach-towards-building-a-gui-based-and-voice- controlled-security-lock-mechanism-based-on-f06b47d0426e
- 4. https://docs.python.org/3/
- 5. https://opencv.org/
- 6. https://wiki.python.org/moin/TkInter
- 7. https://learnopencv.com/read-write-and- display-a-video-using-opencv-cpp-python/
- 8. https://link.springer.com/article/10.1007/s10 610-017-9341-6
- 9. https://www.sinch.com/
- 10. T. &. G. E., 8. 2.-2. 1. Maasland, "A Surveyof Computer Vision-Based Human Motion Capture.," Computer Vision and Image Understanding, pp. 231-268.
- 11. M. M. M. Zoltan Balogh, "Motion Detectionand Face Recognition using Raspberry Pi, asapart of, the Internet of Things," Acta Polytechnical Hungarian, vol. 16, no. 3, 2019.
- 12. M. Piccard, "Background subtraction techniques: a review," IEEE International Conference on Systems, Man and Cybernetics, 2004.
- 13. SAĞLAM, "Adaptive Camera Tamper Detection For Video Surveillance," etd. lib. metu. edu. tr, p. 54, 2009.
- 14. S. a. A. Temizel, "Real-time Adaptive Camera Tamper Detection for Video Surveillance," Advanced Video and Signal Based Surveillance, 2009.
- 15. I. R. Molano, D. Betancourt, G. Gomez, "Internet of things: A prototype architecture usinga Raspberry Pi," Lecture Notes in Business Information Processing, Vol. 224, 2015, pp. 618-631
- 16. N. Sulman, T. Sanocki, D. Goldg of and R. Kasturi, how effective is human video surveillance performance? 19th InternationalConference on Pattern Recognition, Tampa, FL, 2008, pp.1-3R.
- 17. Y. Mano, B. S. Faiçal, L. H. V. Nakamura, P.