

A Mobile Based Women Safety Application (I Safe Apps)

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Abstract-- Many unfortunate incidents have been taking place in woman's case. Problems may come from any direction such as women walking on the road after the work, going to super market or many other reasons for which they go alone. People at home are not sure of their return safely. Another factor is woman die without knowing the reason as they attend excursions and industrial trips conducted by the organizations. It happens due to attacks on woman but not suicides. In 2013 there happened an incident which is a gag rape in New Delhi in the case of 23 year old woman in bus at 9:30 PM. Another incident that has taken place at Mumbai in the case of woman who is leaving her native place after Christmas holidays has been kidnapped and killed. These are some of the problems that have taken place in the day to day life of women. In order to overcome such problems faced by women the I Safety (women security apps) mobile based application is not only necessary to use but also plays a pivotal role with android software.

Women's security is a critical issue in today's world and its very much needed for every individual to be acting over such an issue. In today's world women security has emerged as a major challenge all around the globe.

It has become topics over the past few years. Android (OS) is one of the solutions which could address this problem. This project aims to bring forward the role of android in women's security and describes several WSAs which can prove to be a game changer in this scenario. Women can get these apps in their phone and make their close ones alert of the situation in need by passing the SMS to their near ones by just a click of button with the help of such apps.

Keywords – apps, android, mobile, safety, Women, SMS (Short Message Service);

I. INTRODUCTION TO STUDY

In this male dominating society women are facing lots of problems. In today's world by the surveys made we find that women are not safe in any section of our society be it office, school, college, road, or either in their home.

Today android is being used by most of the people to get connected with their friends or relatives at distance. It also provides a lot of facilities for the safety and betterment of women such as women's safety apps such as VithU App, Circleof6 App etc. helps women to feel safe and to communicate to their relatives or friends in need on just click of button.

II. OBJECTIVES OF THE STUDY

- To aware women about the Apps available for their safety and betterment.
- To provide a brief knowledge of how to use these apps in need.

III. HYPOTHESES

We will have to prove the hypothesis through our observations:-

- i. Gender comparison use of Android.
- ii. Use of women's safety apps by women.
- iii. Through this research project we came across several android apps which play a vital role.

IV. METHODOLOGY USED

➤ *Area of Study:* A survey was conducted amongst different sections of people in Patna to study the present trend and future prospect of safety apps. Different websites related to android and women security in this man dominating society, and android sites.

➤ *Sample size and sampling method:* Data was collected from various people of different age groups in Patna through questionnaire and PIs. Few websites will be considered in this survey.

➤ *Tools and Techniques for data collection:*

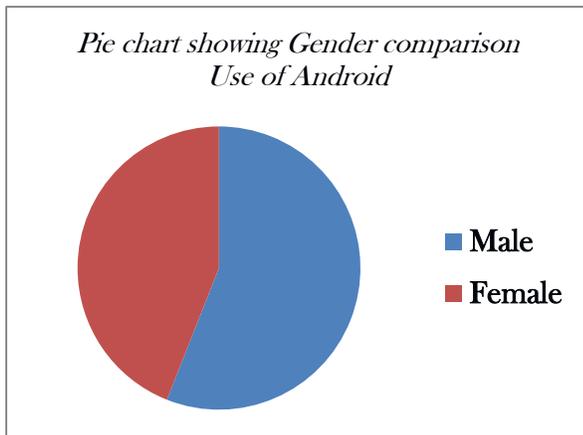
1. Personal Interview
2. Questionnaire

➤ *Method(s) of Data Analysis:* We completed the total research work on the basis of tools of Ms.Office i.e., Word & Excel, we modified the contents of our research and finding in the form of a research paper and made a PowerPoint presentation using Ms.PowerPoint.

V. OBSERVATIONS

The impression drawn from this research study specifies and highlights the following facts:-

i.



ii. According to survey we found that it is very unfortunate that not a single woman uses any safety apps in spite of having android phones with them. It is due to unawareness of these women's safety apps among women.

VI. OBSERVATIONS

iii. Through this research project we came across several android apps which play a vital role. Some of these Apps are:

- *VithU App*

After installing this app on the phone, the user just has to click twice on the active button. Once done, the app will automatically send alert messages to the prime registered contacts, along with the link of the location. Messages will be sent from the phone after every two minutes. We can also choose to get updates on the Crime Scenes in India and a 'Tips Feed' option that gives safety tips in emergency situation.

- *PanicGuard*

From the time when we install PanicGuard, we are under surveillance of it. If we were not managed to send messages, this app will keep record of the places we have gone and the audio, visual information of our trip will reach our friends and relatives. So it is a very useful app both for protection and investigation.

- *Scream Alarm!*

As a woman, we might feel insecure while we are alone in a place. So, then we can tap the app button to make loud enough noise to catch attention from nearby people.

The sound is so loud that it will reach up to hundred meters. What do you do when you're walking home alone at night and think someone is following you? Scream out loud! But what if you have a soft-voice or are terrified? Let your phone do it for you. This app does nothing other than emit a loud scream. Though we admit that it is not necessarily the best security measure, it might distract our pursuer and give us those precious few seconds.

- *HIMMAT APP*

Through this app in case of an emergency, the user can send an alert by shaking her phone or by pressing the power button/soft button. As soon as the distress button is pressed, it will trigger a 30-second audio and video recording on the phone which will be relayed to the Police Control Room and the victim will get a call back from the PCR (Police Control Room).

An SMS alert will also be sent to minimum of five friends and relatives of the user and a status will be posted on his Facebook and Twitter timeline which will be connected to the App.

- *CIRCLE OF 6*

Circle of 6 is an iPhone app for college-aged students and their friends to stay close, stay safe, and prevent violence before it happens.

We believe that staying connected to a small group of people is critical to keep us and our friends informed and safe. Circle of 6 is a mobile app that makes it quick and easy to reach our circle and let them know where we are, and what we need. It's a fast, easy-to-use and secure way to look out for each other.

The design is simple. It takes two touches to get help, so no fumbling or digging around for the right number. We use icons to represent actions, so that no one can tell what we are up to if they see our phone. The design ensures safety, speed and privacy. GPS is integrated (using Google maps), and is only activated by you, and sent to your own Circle of 6.

- *bSafe – Personal Safety App*

When we are in a situation that seems dangerous, we can tap on the app button. A message will be send to all our relatives that we had previously added in a list in the application. Additionally a call will be automatically made to one of the person who we chose. Also it will send a map of our current position. Paid version supports emergency call to 3 numbers. Also in this app, we can set to enable fake incoming calls in various time intervals in case if we need.

bSafe can help in all situations:

- Set up our own social personal safety network of friends, family and coworkers.
- Share locations to find each other more easily (optional).
- Ask friends to walk us home with Follow Me's live GPS trace, or help friends stay safer by walking them home from wherever we are.
- Use Timer Mode to program an automatic alarm that will trigger if we have not checked in, in time.
- Use I'm here to tell selected people where you are right now.

Thus the entire hypotheses are proved mentioned above.

- *Comparison Of Different Apps*

In our research on this topic we come to know that women are, still in this day and age, being subjected to violence, domestic abuse and rape. The countless rape cases reported in recent years by the international media and the reactions of politicians, police authorities, victims, offenders, as well as the people who read these stories speak volumes about where we stand in the issue of personal safety for women. At times, women seem to be on their own when it comes to fighting against rape.

But now a days thankfully there are a lot of personal safety apps are developed to help women to tackle these issues. Having these apps on a phone may be more important and helpful than having any other game of the week.

But there are some drawbacks we come across when we go through these apps:

- Most of these apps are free; a few have paid premium features that may help save a life.
- Some require Internet connection which is not available at all places and all the time.
- Only some apps have the feature to take videos also which is very helpful.
- These apps are fail in case of zero balance.
- These apps are available only in android phones and not available in all other phones.

- *Future scope*

Women's security is a critical and social issue in today's world.

The crime (molestations, robbery, sexual assault, rape, domestic violence) against the women can be now brought to an end with the help of these android apps. These mobile applications are very much helpful for any woman. Because when a woman is in danger position then she simply be in touch with these apps and alert their guardians that the woman is in danger. By simply touching these apps it sends the call for the first added guardian number and sends the message that she was in danger and sends the location message to the all saved guardian contacts. Through these mobile apps we can alert the people at home that a woman belonging to their house is safe or not.

Future Enhancements:

- This mobile application is helpful in future when any problem arises in travelling or any kind of situations.
- As the technology emerges, it is possible to upgrade these apps and can be adaptable to desired environment.
- Because it is based new technologies, any further changes can be easily adaptable.
- Based on the future security issues, security can be improved using emerging technologies.

Convergence issues with various agencies:

- For using these apps internet connection is required.
- These apps can only run in smartphones.
- For these apps GPS tracing device must be present in the phone.
- Phone must be in working condition.
- There must be a good network coverage.
- These apps can only work if there is balance in the phone in case of zero balance it is of no use.
- User must have knowledge of how to use these apps.
- There is no feature of self protection.

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