A Mobile based Women Safety Application (I Safe Apps)
Omkar Bhosale1 Amol Yadav2 Sanket Jejurkar3 Prof Pallavi Chandratre4
1,2,3,4 Shivajirao S. Jondhale College of Engineering, Dombivli, Maharashtra

Abstract— Many unpredictable occurrences have been taking place in woman’s case. Problems may come from any ways such as women walking on the street after the service, going to market or many other reasons for which they go alone. People at home are not assured of their return unassailable. Another factor is woman die without knowing the reason as they conduct journey and industrial trips conducted by the federation. It happens due to assaults on woman but not suicides. In 2013 there happened an occurred which is a gang rape in New Delhi in the case of 23 year old girl in bus at 9:30 PM. Another occurrence that has taken place like in Mumbai, in the case of woman who is leaving her native place after Christmas holidays has been kidnapped and murdered. These are some of the problems that have taken place in the day to day life of women. In order to defeat such problems faced by women, the Women Safety (women security apps) mobile based application is not only compulsory to utilize but also plays a pivotal role with android software.

Key words: I Safe Apps, Women Safety Application

I. INTRODUCTION
Ban Ki-Moon, the assistant general of United Nations stated that “There is one universal verity, relevant to all countries, cultivation and communities: violence against women is never adequate, never forgivable, and never tolerated”. Violence against women is a important public health problem, as well as a elemanty violation of women’s human honour. There are three reasons why mobile technology will minimized violence against women in local places. They are easily accessible, crowd sourcing and affordable scalability. A rape incident catches the attention of the entire human kind that occurred on 16th December 2012 at a place Munirka, a neighborhood in south Delhi which was a fatal trash. A 23-year-old woman physiotherapy (intern) was hit and abused by a gang at 9:30 PM when she was suffered in a private bus with a male correlative. They were returning after watching the film “Life of Pi” in saket, south Delhi and boarded an of fidelity charger bus at Munirka to Dwaraka, which was driven by joy riders at that time.

II. RELATED RESEARCH
Nicole Westmarland et al [4] discussed on protecting women's security? The main aims of their study is to explore the needs of smartphone's in relation to domestic and sexual violence. In report [2] brutality against women is a global public health muddle, 35% of women worldwide have experienced either physical and/or sexual intimate partner brutality or non-partner sexual violence. The report also component the effects of violence on women’s prerogative and mental health. In [5] the authors seek to place query of inspection technologies into a notional structure that forepart the challenges that new surveillance technologies pose to ant brutality movements. Specifically they localized the impact of surveillance technologies in the practice of violence and some proposed feedback, and assumed the ways that surveillance technologies are used inordinate in the criminalization of marginalized crowd. By placing violence against women at the centre of analysis goal to complicate concerns related to inspection technologies. In [6] the author analyzed that the technology is cast-off in set of condition of intimate assault. It will analyzed how technology is used as a batterer's tool in exerting coercive domination over a stooge. It will also look at the possibility in the laws as the lawful system strives to keep pace with the fast improvement of technology. In distictly, the recent use of GPS monitoring of intimate terrorists will be analyzed. This analysis will deduce some of the problems integrated with the on-going legal changes. However, the similar advancements may also permit enforcer to adapt and/or escalate their offending bearing [7] Vodafone on Connected Women, How mobile can assist women's economic and general empowerment. The use of mobiles enhances the women's access to literacy, banking, health, empowerment and business chances.

III. METHODS & MATERIALS
There might be a condition in which the woman(girl) has to travel singly a long distance at an unusual hour and possibly even by public ferry and may aspect some danger. At such a time, a personal security app might not only be clever to have easy access to, it might also give you a lot of assurance needed. There might be a condition that when women(girl) had an accident in the late night and there are no one to relieve and to take awareness of them. In such situations the person will not be able to tell the condition that she facing. To avoid from the un-wanted meetings we do not know the way to avoid from that meeting because we do not know the fake calls working. There are no such mobile applications for the woman's (Self) safety, if the woman is in danger the people have to make a call to his partner or relatives and have to be explaining the location and problem and generally we do not know the assistant details. Some disadvantage in the existing system is argue below: The woman who is in danger (she) can't explain and show her position and situation.

- In proposed system with the push of one button, people can aware selected contacts that the warden is in danger and share the location. With this personal safety app, you'll never walk alone!! There might be a situation in which have you to travel alone a long distance at an odd hour and perhaps even by public transport and may face some danger. At such a time, a personal safety app might not only be wise to have easy access to, it might also give you a lot of much needed confidence. The personal safety application requires the name and number of the person who is to be contacted in times of emergency. Users can add multiple people in the emergency contacts list. These are the people who will receive notifications or SMS in case of an emergency. All it requires is the user's action to push an SOS button provided and it shoots messages as fast as the device can manage. Once the
SOS button is hit, the people in the emergency contacts will get a message like: I am in an emergency; followed by another message, which has the exact or approximate GPS location of the cell phone. The user can also make audio or video call. This app also provides necessary first-aid measures that should be taken at the time of emergency situations. Features:

- Let the family and friends know that you are in danger and where you are? Declare an emergency whenever you sense a danger, when you can disengage the emergency.
- Provides necessary medicine measures that should be taken at the time of some dangerous situations.
- Let your family and friends know your path to the destination.
- Creates emergency contacts that will be notified by default of all the actions you make in the application.
- Also display a list of detail contacts of the cops, firemen, hospitals etc., nearby your location.

IV. EXPERIMENTAL SETUP

The experiments were performed using a Intel(R) Core(TM) i3 M380@2.53GHz CPU with 4GB RAM and 80 GB hard disk, android mobile with the support of wifi. In the development of the I safety (woman security application) mobile app the software requirements are Front End is Android Application, Web Application is Servlet Java development kit 1.6.0 or above, Eclipse IDE for Android, My Eclipse IDE for java web Applications Android SDK 20.0.1, Connective wifi router software

![Fig. 1: Architecture Diagram](image)

By just touching the application from the mobile screen the options will appear and by choosing the particular options the appropriate function will take place. In Fig. 1, it is seen that the available options in the apps. By choosing the option “Add guardians” from the main screen then the screen navigates to the other screen and the other screen is having two options they are “Add from contacts”, “Add new contact”. If the option Add from contacts is selected then it retrieves from the phone contacts and then again it should be saved in JavaScript Object Notation (JSON) data base. After selecting the guardians from the phone contacts the selected mobile numbers are displayed is shown in Fig. 4 and the contact numbers are stored in the JBOS. It is nothing but memory used in the android based mobile phones. If the option Add new contacts is selected then it gives Father other popup box having the text boxes to enter the contact name and contact number and it also saved in JSON database. The call sending is done by simply touching the option SOS from main screen then it retrieves the contacts which are saved in the JSON database and it performs the action and at the same time it sends the location URL of the person through the message format where she/he used this application when they are in danger is By just touching the location URL got from the message then it gets the location where the person is in danger by showing us in blue color spot in the Google Map is shown in Fig. 3. By zooming the Map guardian can easily find out the accurate location of the unsafe woman is shown in Fig.4.

Another important option from main screen is Fake call. This option is very much helpful while the unnecessary conversations is going in between the people then to protect over self we think that if anybody calls then I can leave from this meeting. In such situations this option fake call is very much helpful. The functionality is just it gets ring tone just like getting incoming call through that person can easy to escape from the un-necessary conversations. When the Fake call is activated it means that a fake call is accepted then it stops the ringing and it also has another option that is Hang Up option just like call is cutting. There is another important option in the main screen is video call. This option gives the video of the person that he/she has taken. That is if the person is in danger position that is unable to tell the position then she/ can take the video and share via Email or Gmail. By clicking on the First aid option from the main screen only person can know the First-aid details for various problems like unconscious and not breathing, choking, bleeding heavily, burns, the heart attack, diabetes

![Fig. 2: Principle screen](image)

![Fig. 3: Text format](image)
V. CONCLUSION

This mobile application is very much helpful for any woman (girl). Because when a woman is in danger locality then she simply touch this I Safety mobile app and aware their warden that the woman is in not secure at the moment. By simply touching the app it sends the call for the first added warden number and sends the ping that she was in trouble and sends the location notification to the all saved warden contacts. Through this mobile app we can aware the warden at home that a woman among their house is secure or not.

ACKNOWLEDGMENT

We sincerely wish to thank our project guide Prof. Pallavi Chandratre for her ever encouraging and inspiring guidance helped us to make our project a success. Our project guide made us endure with her expert guidance, kind advice and timely motivation which helped us to determine about our project.

We also express our deepest thanks to our Head of our Computer Department Prof. P. R. Rodge whose benevolent helps us making available the computer facilities to us for our project in our laboratory and making it true success. Without his kind and keen co-operation our project would have been stifled to standstill.

Lastly, we would like to thank our college principal Dr. J. W. Bakal for providing lab faculties and permitting us to go on with our project. We would also like to thank our colleagues who helped us directly or indirectly during our project.

REFERENCES