'RAKSHA' WOMEN SAFETY ANDROID APPLICATION

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Abstract —Women safety is a prime concern in this modern era. Women empowerment should be prioritized most for development of a country like India where Women are treated equally. It is often said that the country's future lies in hands of women where women are equally competing with men globally. Women safety is a major growing concern these days. In today's society women are being harassed, tortured and traumatized. To overcome these problems and concern government have launched protection schemes. Taking this concern into notice application are being developed using the modern technology. Government has started serious actions and strict norms for the people caught in the act. Still then the crisis is not in control, it was mean to be decreasing but since no such signs are seen. For the purpose, It is necessary to provide an application regarding to women safety, Here Woman safety and empowerment app comes in to the picture, we've developed an app with android studio for android smartphone devices that will easily able to assure maximum safety of the women's who will use it, the app includes many different types of methods like self-defense and call any police officer this app will teach the target audience many different types of self-defense techniques and includes a whole lot of contact list of nearby police and officers that they can call anytime they want. This will lead to more security to the women's and they will be able to protect them without anyone's help.

Keywords — SOS-Save Our Souls, Women Empowerment schemes, Emergency contacts, Defense tactics, Women Safety [1].

I. INTRODUCTION

`Safety is always look as of the most important aspect of once life, especially in case of women. Also, women safety is not the concern of any single individual but of the society. Women are not safe although the government has taken many solid actions regarding women safety but the crimes are increasing day by day at glance, one should be aware and protective. For that reason, we propose the development of an application for Android users. Whenever the user encounters any misbehaving activity, the user can press the emergency contact numbers which one can dial-in. Also incorporated with the facility of defense tactics which will help to protect herself. Also, the application provides all the information related to woman empowerment facilities provided by state government as well as central government.

Following is the statistics of all the cases of registered crimes against women leading to harassments and offensive acts:

- Everyday 88 and more women are raped in India.
- Rajasthan according to NCRB makes the count of highest rape cases. This was followed by states such as Madhya Pradesh, Uttar Pradesh, Haryana, Chhattisgarh & Mumbai.
- In 2019 total of 15,556 cases victims were in the age group of 18 to 30 years.
- Total number of crimes committed against women on account of kidnapping and abduction cases in between year 20017 to 2021 is 427394.
- About 16% of crimes were committed when victim was either travelling or living in a remote area.

II. LITERATURE REVIEW

There are two research papers which are based on Women safety app. In 2017, a research paper is written titled as "Research and Development of a mobile based women safety application." This research paper is published by Dantu Sai Prashanth, Gautam Pate and Dr. B. Bharati. In this research paper their methodology was to use dynamic GPS and tracking. User can manually input emergency contacts to whom the location is sent. But the drawback was that in poor network areas, tracking system will not work properly and will disable. In 2021, another research paper is written titles as, "Android app for woman safety." This research paper is published by Dr. K. Srinivas, Dr. Suwarna Gothane, C. Saisha Krithika, Anshika and T. Susmita. In this research paper their methodology was to write an emergency message. The user writes the emergency message which is to be sent to user selected contacts in danger situation in one tap. But the drawback was if the mobile phones of the emergency contacts of user are switched off then the message will not be received.

III. METHODOLOGY / EXPERIMENTAL

A. *Materials/Components/Flowchart/Block Diagram/Theory*

- Collecting the addresses and phone numbers of CP and SP offices.
- Providing information related to government-based women empowerment schemes.
- Self-defence training programs and courses.

Tools And Technology

Java

Android Studio

Technology: App development

IV. RESULTS AND DISCUSSIONS

The following are the screenshots of our application after the successful installation and running.
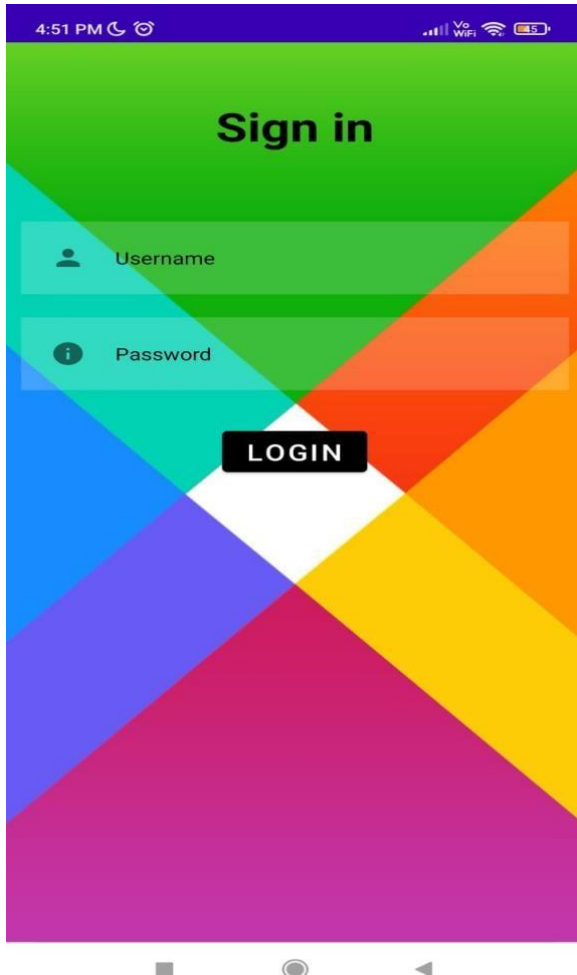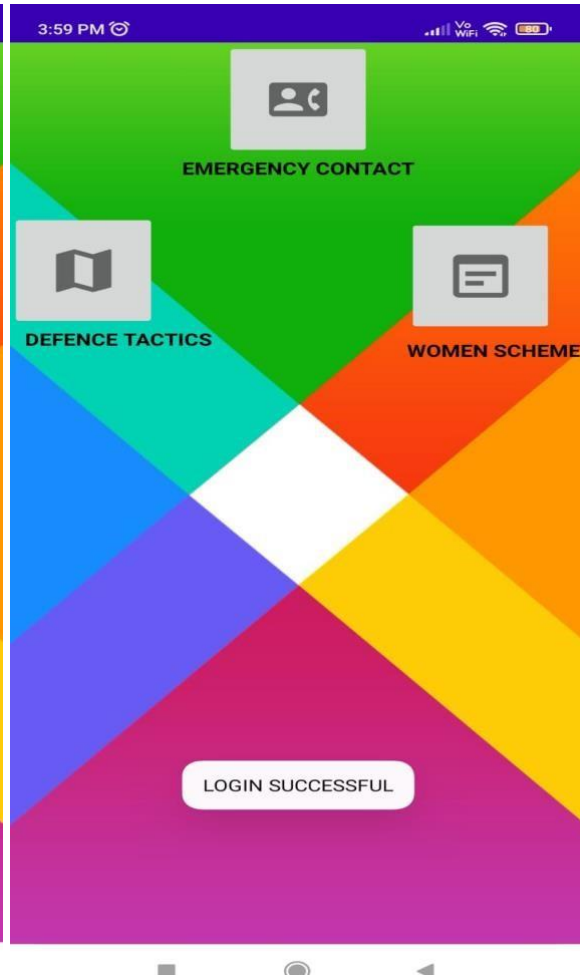

Fig.1. Login Screen   Fig.2. Tab Page

Fig. 1 shows the login page of the application in the user's device. Our application supports 98.9 % devices according to the android application software. After Successfully entering the correct Login ID and Password the next page or the next interface of our application will be displayed on the User screen.

Fig 2 displays the page after the successful login. There are three tabs added to the second page of our application First one is the Defence Tactics Tab which includes Videos regarding women defence training. Second comes the Emergency Contacts Tab which contains the contacts of the CP and SP Offices. The Third gives the user information about the schemes related to women safety and empowerment launched by the Government of India.
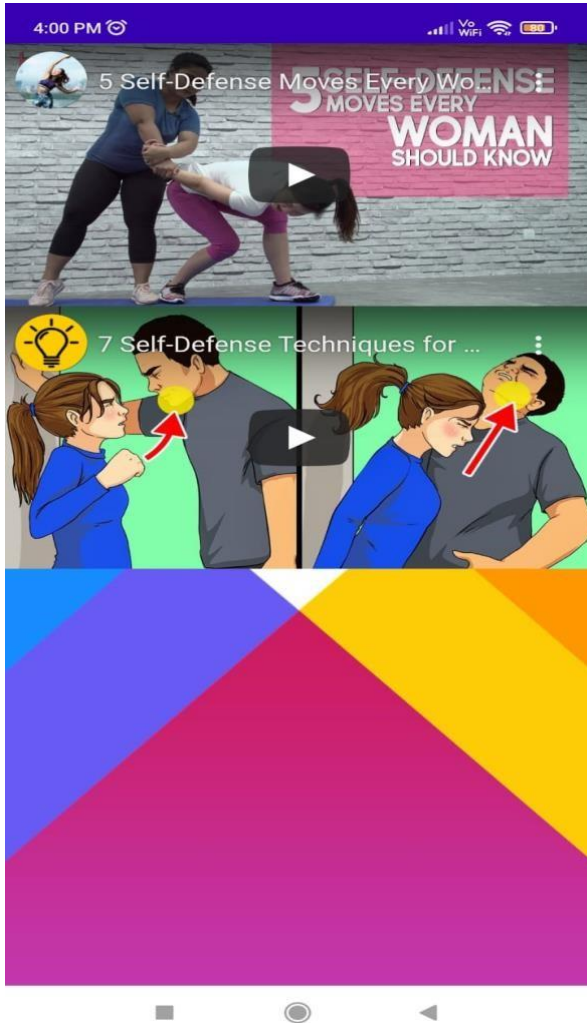
Fig.3. Defence Tactics Page   Fig.4. Women Schemes Page

Fig 3 displays the screen about the Defence Tactics Videos. After Clicking on the Video, the video will be automatically played. There will be 4 to 5 videos added after upgradation of the application which will give information about defence techniques and tactics when women face danger situations.

Fig. 4 gives a look at Women Schemes added in the application related to women empowerment and safety. The next Fig. will show the pages after clicking on any of the schemes.
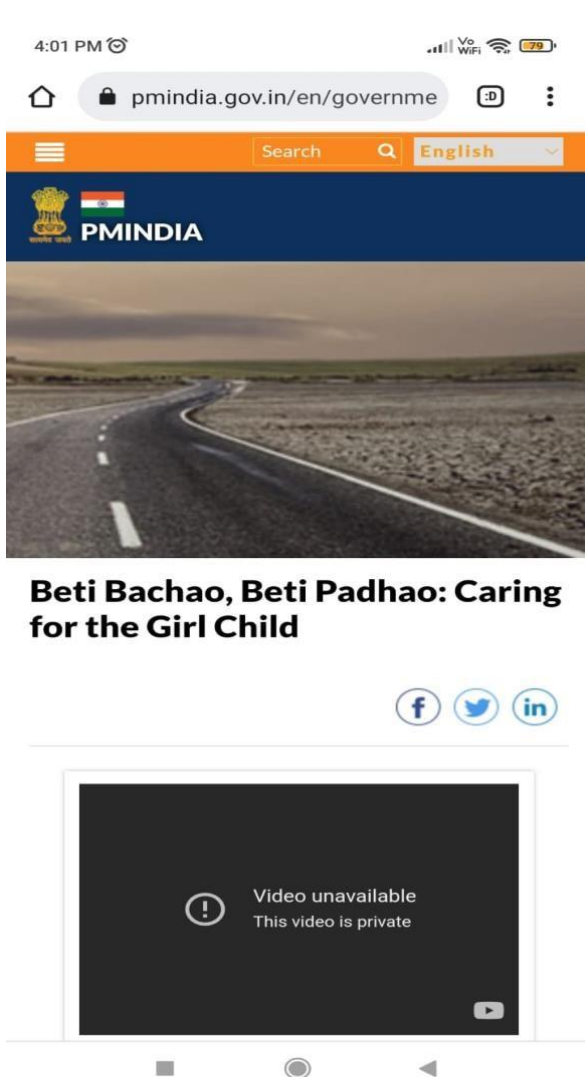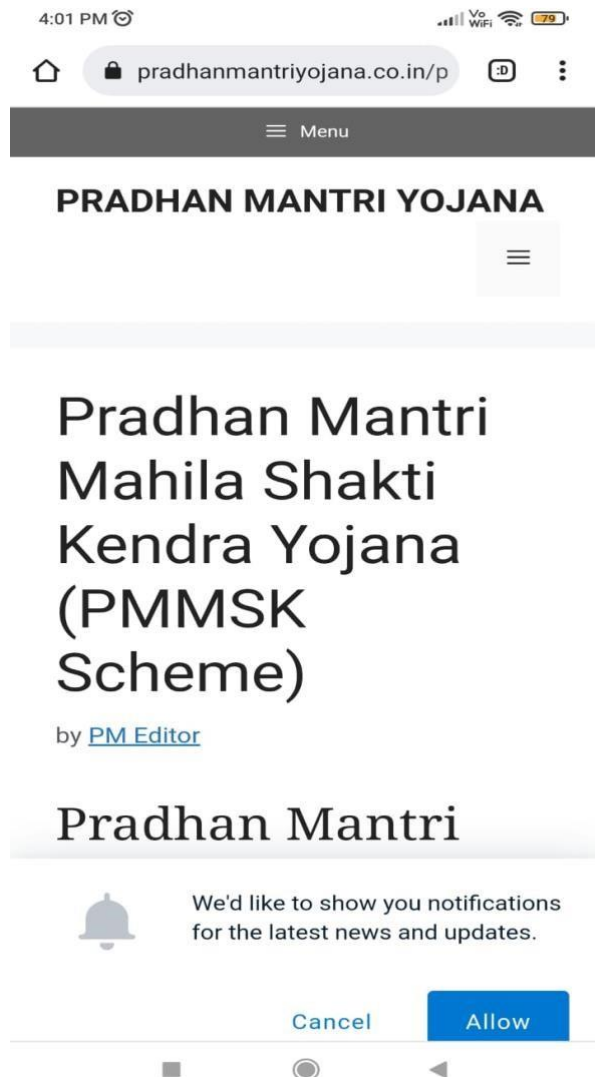
Fig.5. Google Page 1 For Scheme   Fig.6. Google Page 2 For Scheme

Fig.5. Gives a look at the screen when the user clicks the scheme Beti Bachao Beti Padhao. The Google page appears on the user screen with the information related to the scheme name the user has clicked. Same goes for Fig.6 in which The page is for Pradhan Mantri Shakti Kendra Yojana.

The further figures are related to the Emergency Contact Tab. This tab contains Contacts Information About CP and SP offices all over Maharashtra. The Contact Information is limited and will be updated.
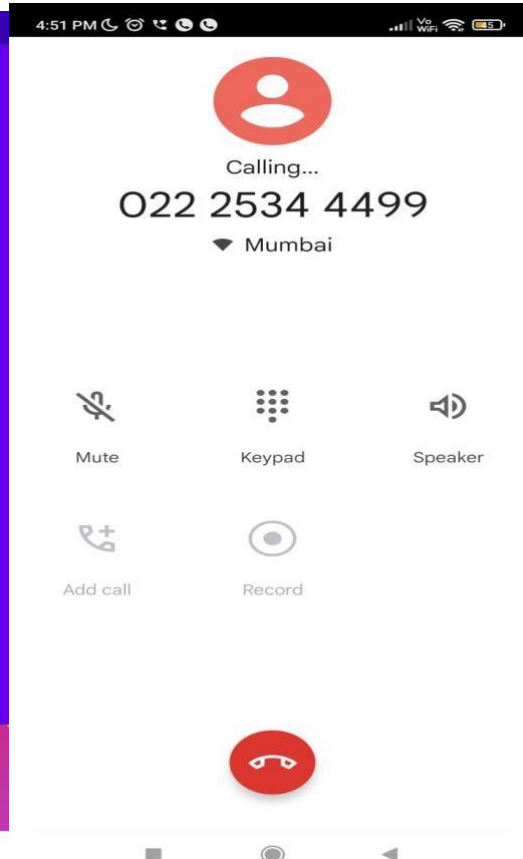
Fig.7. Emergency Contacts Page   Fig.8. Calling Screen

Fig.7 shows the contact information added in the application. Contacts available for the user in the emergency situation. We have added a direct calling facility to the application. After clicking on the number of CP or SP offices near to the user's location, the application directs to the calling mode as shown in Fig.8. With the help of true caller, we have also verified the contact numbers added to the application.

V. CONCLUSION

Aim of our team is to provide the safety and help to protect themselves from molestation, eve-teasing kidnapping, domestic violence and many more, we assure there safty by providing the contact list of all the CP and SP offices which one can dial incase of Emergency. Also, our moto is to provide all the information about Empowerment facility provided by government of India for women, we believe that no women should be dependent on anyone for help and also for her self defense for that purpose we also provide teachings of selfdefense tactics through the means of audio visual medium.

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