Rajendra Academy for Teachers' Education
NAAC Accredited Teachers Training College (Grade B)
Recognised by NCTE, New Delhi & Affiliated to Burdwan University, WBBPE & WBUTTEPA

Gender Equity Programme

A Report on Abhaya: An Android App

Event: ABHAYA APP
Topic: Launch of ABHAYA App
Date of Event: 07.02.2020
Venue: Tapan Kumar Chakrabarty Memorial Hall
Address: Rajendra Academy for Teachers' Education
Gopalpur, Durgapur   Pincode: 713212

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INTRODUCTION

Rajendra Academy for Teachers' Education caters to the growth of the students for every competitive step in their life. The Institution understands the need to equip every student for the modern challenges. Thus the institution stepped ahead with the objective to launch the ABHAYA App in order to bring about changes in the society and its safety measures. Abhaya App is an application which focuses upon the safety measures and also acts as protection shield for Women. Rajendra Academy for Teachers' Education also looks forward to the same objective to serve the nation with safety measures.

Abhaya- an Android Application for the safety of women is the main motive. This application helps in live tracking of the location of the victim through GPS along with one of the registered contacts receives a call from the root device. The merit of this application is even when the location of the root device is changing rapidly; we can identify the exact location.

As a future scope, this application can be integrated with the law enforcement database, which includes all the phone numbers of regional cops. Some use cases such as rescuing victim, when the mobile network is not available, after initial alert or switch off condition. Further, it can be developed for IOS and Windows mobile platforms. Thus, this application can help the women in a big way from unsafe conditions.
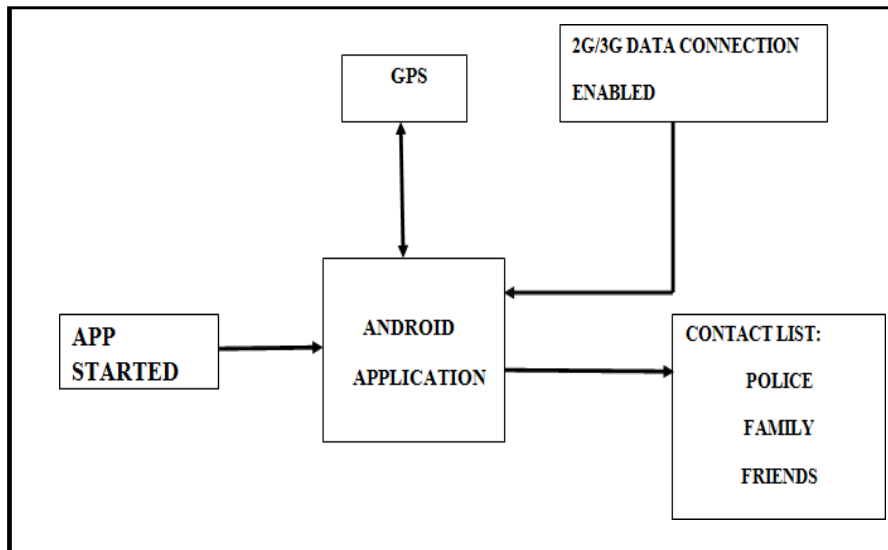
CONTEXT

ABHAYA APP

In today's world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. The heinous incident that outraged the entire nation has wakened us to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones. Abhaya is an Android Application for the Safety of **Women** and this app can be activated by a single click, whenever need arises.

A single click on this app identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and also call on the first registered contact to help the one in dangerous situations. The unique feature of this application is to send the message to the registered contacts continuously for every five minutes until the "stop" button in the application is clicked. Continuous location tracking information via SMS helps to find the location of the victim quickly and can be rescued safely.

Women are accomplished at mobilizing diverse groups for frequent causes. They often work across racial, sacred, opinionated, and intellectual divides to encourage tranquility. We are aware of importance of women's security, but we must recognize that they should be well secured. A Woman is not much powerful when compared to men physically, in a crisis situation and needs a helping hand to relieve them. The best way to minimize chances in becoming a victim of violent crime (robbery, sexual assault, rape, domestic violence) is to identify and call on resources to help you out of unsafe situations.

Whether you are in instant trouble or got separated from friends during night and do not know how to get home, having these apps on your phone can diminish your risk and bring assistance when you require it. In the light of recent outrage in Delhi which shook the nation and woke us to the safety issues for our daughters, public are gearing upbeat in different ways to fight back. A swarm of new apps have been developed to provide security systems to women on their phones.

Here, we introduce an android app that ensures the safety of women. It reduces the risk and helps us in need by identifying the location of person who is in danger. Android is the most widely used mobile OS motorized by Linux kernel. This is the first complimentary platform which is robust and is expected to gain much popularity. It was developed by Google team and allows writing managed code in the Java language. The current system is developed on the basis of android platform.

Android utilizes a custom virtual machine that was designed to optimize memory and hardware resources in a smart phone. Android does not differentiate between the phone's core applications and third-party applications. Any application that is built will definitely have equal access to a phone's capabilities providing users with a broad spectrum of applications and services.

A lady police officer is addressing the crowd at Rajendra Academy for Teachers' Education

The lady officer constantly enforced the need to install the Abhaya App at every Android phone especially Android Application Device so that you can help yourself and help others too. She also said that this app is developed by Mahindra faction.

In earlier days, this app was not complimentary, customer have to compensate for this "This app is developed by Mahindra faction. In earlier days, this app was not complimentary, customer have to compensate for this app. But after Delhi gang rape, the government and the police is rightly taking best service strategies to protect women sincerely. She also told us about how to use the ABHAYA APP. The below diagram projects the idea:
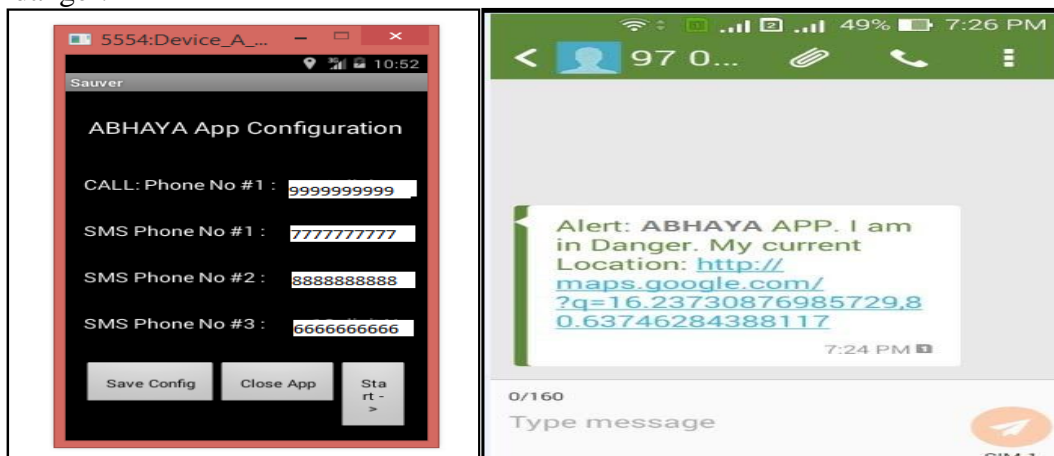
OBJECTIVES

- ❖ It is a precise positioning tool, tracks the location in the form of longitude and latitude based. The GPS Coder Module used this information to search an exact address of that location as the street name, nearby junction etc.

- ❖ In case where GPS is disabled then the system will only send the longitude and latitude. Internet is mandatory.

- ❖ This activate button is used to enable silent mode and data service. In last phase of this project we have completed all modules.

- ❖ We have provided one option to user to add any five emergency contacts, another one is to update that added contacts. Also we have implement one message box which will contain one text message and link of the GPS location having longitude and latitude forward to those emergency contacts.

❖ Also we have implemented one mechanism to send an image related with that situation. It can be concluded that the system helps in some of the cases the system can provide useful evidences. Since the system can capture image of incidences which can act as the evidences.

This is the "ABHAYA App" which is very useful application mainly for girl's safety. When we feel that we are in emergency situation, for example travelling alone at night time we can use this application. So that on one click we can send our location to our family members and to any police stations. So once we click on activate button it continuously send updated locations messages to all authorized persons. So this application is having both safety and security which needs the engineering code of conduct which is essential in the today's world.

<h2 align="center">How it works?</h2>

It contains four contact numbers to be filled of which first phone number receives call and SMS, the other three phone numbers receive only SMS. Also, the layout contains three buttons "Save Config", "Close App" and "Start" buttons. After filling the phone numbers, "Save Config" button must be clicked such that all those contact numbers will be saved in the Abhaya application and these given phone numbers are called Registered Phone numbers. The below is the message that gets displayed to the mobile of the police when someone is in danger.

The unique feature of my application is location is sent continuously for every five minutes till "STOP" button in the application is pressed. So, even if the woman is made to move around in the city, because of this feature of continuous location tracking, she can be rescued quickly and safely. Also, one of the contacts will be receiving a call, sometimes there may be chance for people not seeing the SMS, but after receiving the call they get alert and can look at the SMS and can identify that their near ones is in danger quickly.

Participants to the Program

There were more than **150 participants** to the program on the day of launching Abhaya App in WEST BENGAL. There were staff, students and also others who came to the event. The media was also there to report the launch of the Abhaya Application at the College Premises.

"We need to reshape our own perception of how we view ourselves.
We have to step up as women and take the lead."

Rajendra Academy For Teachers' Education