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Women Safety Using IOT

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ABSTRACT: Today in the current worldwide situation, the prime inquiry in each young woman mind, considering the regularly rising increment of issues on women badgering in later past is for the most part about her wellbeing and security. Presently multi day's women are confronting numerous security issues in the general public. The tally of the unfortunate casualty is expanding step by step. This paper present to the give security to woman. In emergency circumstances, woman will press a emergency panic button which will initiates the GPS for area following and a SMS is sent to the close-by police headquarters and relatives of woman alongside time.

Keywords: IOT, Women Security, Body Sensors, Arduino, GPS, Alert Message, Heartbeat, Google Map

I. INTRODUCTION

The point of this paper is to build up a low power keen electronic contraption that is fit for following women while in risk and alarm the police through the real time transmission of area sign of the location of wrongdoing which aides in explaining the convoluted cases. It likewise diminishes numerous sorts of violations occurring in and around the city and consequently gives security to people in general. The venture configuration has two sections; a Public end gadget (Smart electronic device/Transmitter) and the Police end gadget (recipient) situated at the police control room.

There is much thrilling news about women Safety in everyday life. The main idea frequenting each young woman is the point at which they will almost certainly move unreservedly in the city even in odd hours without stressing over their security makes a negative effect in the general public. Thus we are actualizing this undertaking to track careful area of women.

II. LITERATURE SURVEY

Ms. Deepali M. Bhavale et al. [1] describe as the threats for Women and children increasing day by day we are proposing a system that works on the controversy of children and women security using IOT. The proposed system intends to a device wireless technique in the form of embedded device namely Arduino for women that will serve the purpose of alerts and way of communicating with secure channels and it captures the image using electronic camera. There are many android applications for women safety but they as not as much as efficient. So to solve this issue of women safety we develop a wireless sensor kit which is easy to use and which is efficient to provide help to that victim. So when the victim press kits button, our application will capture the photo, collect users information to send notification to registered phone numbers with link of captured image. This saves the time and that victim get help without loss of time. Also in the case of Children security the system proposes a speed monitoring and location tracking facilities using GPS, GPRS, and GSM. The system consists of bus unit. The bus unit which is used to detect the path of Bus by using GPS. Weather the bus is travelling on its day to day route and also it monitors the over speeding of bus. For the mechanism of vehicle tracking Haversine and Trilateration algorithm are used. According to that the by using GSM alert messages will be send to their parents and vehicle owner. The system has been developed on web based data driven application that provides the useful information.

Mohamad Zikriya et al. [2] present era is with equal rights, where in both men and women are taking equal responsibility in their respective works. Hence women are giving equal competition next to men in all field, they are assigned works in both the even and odd shift. Every single day women and young girls from all walks of life are being assaulted, molested, and raped. The streets, public transport, public spaces in particular have become the territory of the hunters?. Because of these reasons women can't step out of their house. The only thought haunting in every women`s mind is when they will be able to move freely on the streets even in odd hours without worrying about their security. In critical situations the women will not feel insecure or helpless if they have some kind of safety device with them.

Prof. R. A. Jain et al. [3] present women and children safety is a prime issue of our society. The count of the victim is increasing day by day. In this paper, we are proposing a model which will help to ensure the safety of women and children's all over the global. We have used different sensors like heartbeat sensor, temperature sensor, and accelerometer sensor for detecting heartbeat, temperature and sudden change in motion of user. We have also used GPS which will help to detect location of the device. GSM used in the model is used to send alert message to guardians, relatives and police station. We have proposed IOT (Internet of Things) based device which will help to continuously monitor values of different sensors and GPS used in device.

B. Sindhu Bala et al. [4] describe women are facing many security problems in the society. In such cases, they feel handicap and need help to protect them. Even though many technologies have been introduced for women still kidnapping, eve teasing and sexual harassment are taking place in our country. When the women face into unsecured situations, to ensure the safety, automatic detection system needs to establish which send an alert message which includes the location of the police department. This can be done by sensing various factors such as abnormal sounds, body reaction like trembling, dreading and heartbeat which can be sensed using sensor and to provide the alert message. In this paper, we surveyed the existing mechanism for detecting locations, for sending communications and collecting physical parameters of the human body using sensor.

A. Jesudoss et al. [5] Now-a-days women are facing many problems based on their security. The application which is proposed has access to track location and will send messages to the nearby police stations and the scanned phone numbers. This application is not only used for cases like rapes and any perverts teasing girls but this also helps them from any bad condition or any health problem like fainting suddenly. GPS is to track the location of the victim and to send messages, the location of the victim to the nearby police station and the phone numbers of the relatives of the victim. This application helps women to overcome their fear in going out and do things what they like to do.

II. PROPOSED SYSTEM

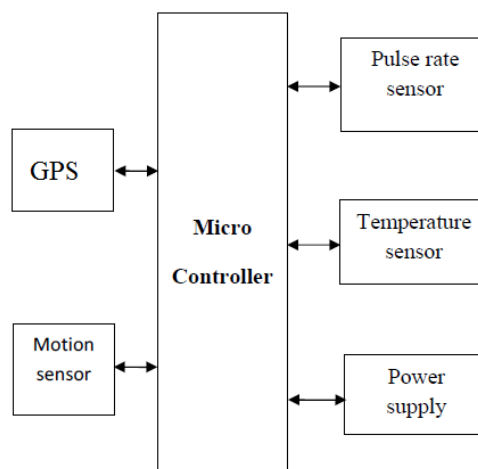


Fig 1: Block Diagram

The proposed framework is wearable and regularly comprise of sensors, signal conditioning gadgets and remote transmission innovation. Framework is low weight and conservative vitality stockpiling gadgets and vitality gathering from the human body are critical innovations for broadened and solid activity. The possibility of our undertaking depends on the news identified with Women Safety which we frequently read in the papers.

The components used in the system is

- 1) Heart beat sensor: It is used to check pulse rate.
- 2) GSM Modules: GSM Modules used for location.
- 3) Arduino Controller: Controller check heart beat sensor and continuity.
- 4) Current continuity detector.

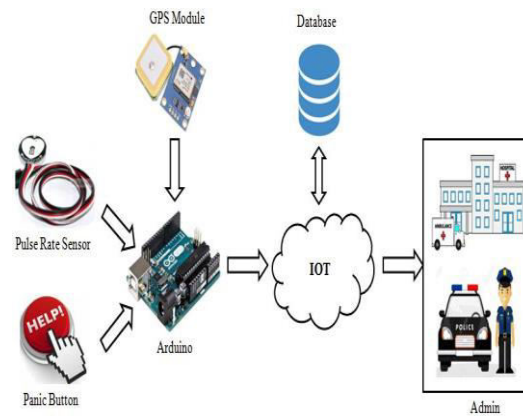


Fig 2: System Architecture

ADVANTAGES

- Real Time Location of the women having emergency
- The system alerts can be set to predefined Mobile numbers or predefined Email Ids of the victim.
- To provide faster result for User.

III. RESULT

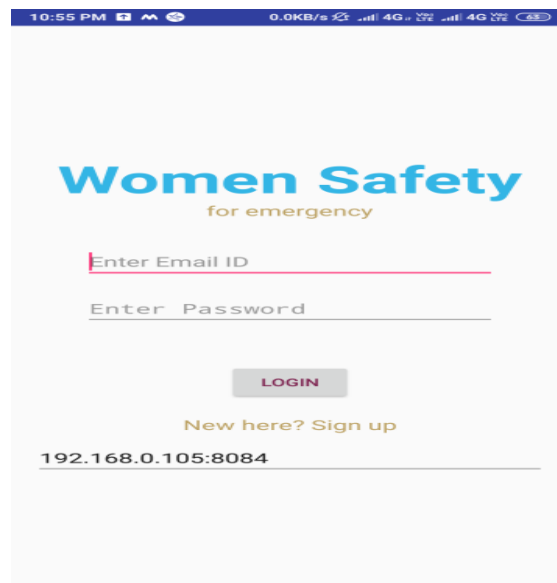


Fig 3: User Login

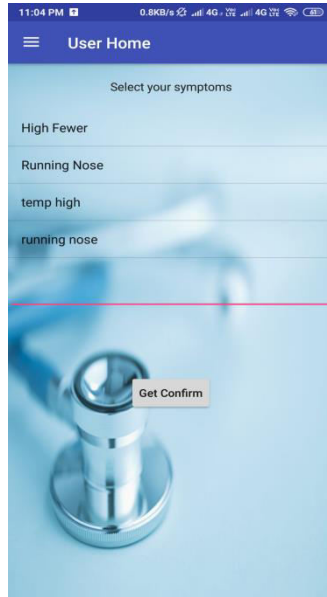


Fig 4: User Home

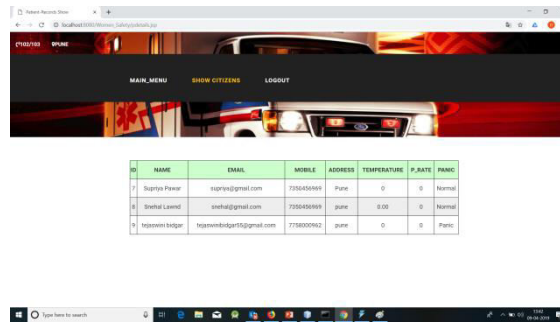


Fig 5: Shows Citizen

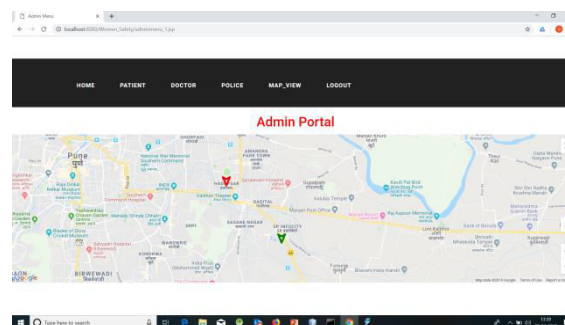


Fig 6: Admin Portal Map View

IV. CONCLSION

The propose framework is easy to understand which is utilized in everyday life. We can utilize number of sensors to absolutely distinguish the ongoing circumstance of the women in basic harsh circumstances. The heartbeat of an individual in such circumstances is ordinarily higher which helps settle on choices alongside different sensors like movement sensors to distinguish the irregular movement of the women while she is exploited.



V. FUTURE SCOPE

System can be embedding smaller size system which can be placed on body with comfort which will enhance woman safety.

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