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Design of a Smart Safety Device for Women using IoT

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ABSTRACT:In this generation we give equal rights to men and women. They are self-sufficient and can now work anywhere. Although we are evolved now, women's safety has long been a concern. Nowhere is safe for women or girls. There are various tools to stop exploitation such as paper spray, alarm, shockwave generator. However, they are insufficient to protect women and girls. Our goal is to adequately provide safety for ladies. The systems serve some add-ons that will notify those nearby of her location and send message to her registered contact number the folk nearby will also be notified and aware that someone is in danger as a result of the alarm sounding, so that she can quickly receive help from other and her family. In order to provide Indian women a sense of security and empowerment we are concentrating on developing an efficient, quick, and reliable method to inform the police and anybody around of any trouble or send an alert message. By using information technology, protect women from crime and sexual assault.

KEYWORDS:GPS module, GSM module, Node MCU

I. INTRODUCTION

Imagine if our culture does not care about the safety of women, then we be living in troubled time. More than 80% of women faced sexual harassment but only few of them reported. Women harassment includes rape sexual abuse, kidnaping and all others. Now a days some devices are available for women safety but they are not good enough for them. There are even laws to safeguard women, but they are only helpful once harassment has occurred. They still don't have a way to feel secure prior to harassment. The goal of technology is to protect women from harm and overcome all obstacles. The technology on this device assures dual alerts in the event that a woman is harassed or believes she is in risk. This gadget is incredibly simple to use and can be handled by anyone. Women can freely move anywhere without depending on anyone. Women will simply press the push button if she feels unsafe. The main gadget located in bag and handbag. The primary device location is where registered number are sending alert messages.

II. METHODOLOGY

Our project consist two models. One is wearable device like watch which is on hand of women and another is main device which consist GSM module and GPS module. Whenever women feels endangered, she pushes the button as soon as the device on the Node MCU receives power from the power source. The connection is establishes between wearable device and main device through Wi-Fi. Hence, we provide the Node MCU with an ESP 8266 Wi-Fi module so it can contact Wi-Fi network. As connection establishes between two devices the text message will send on registered number to alert her family members. In order for her family and friend to realize that she is in danger and to know where she is, a GSM module will send a message to saved contact number and a GSP module will relay the location to the same number. The text message is send like- "Help me. My location....." with latitude and longitude of her current location.

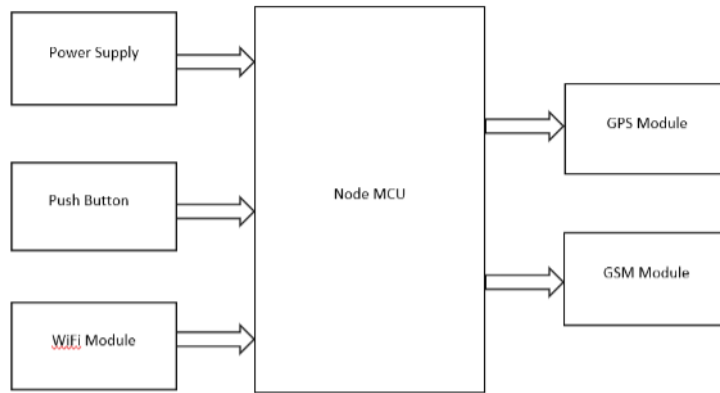


Fig. 1 Block Diagram

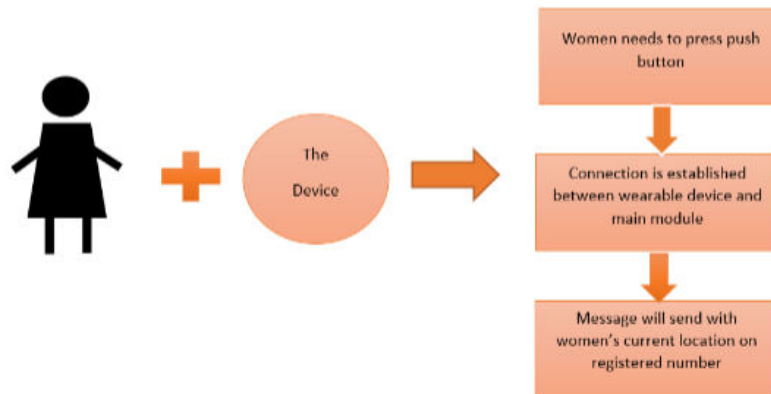


Fig. 2 Work Flow

III. EXPERIMENTAL RESULTS

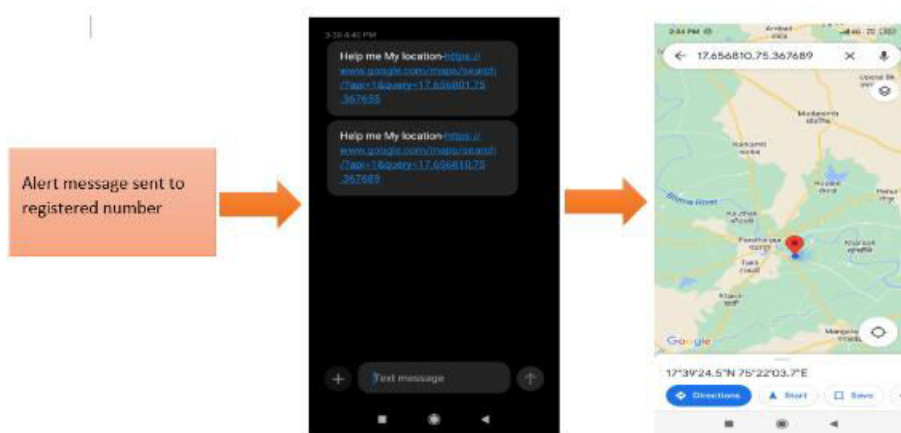


Fig.3

V. CONCLUSION

The concept presented here is important for the safety of women. The proposed design will address the key issues that women have faced and will help to find solution through the technology. With more innovation, this idea might be used to several security fields.

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