

# Voice-Based Women Safety Jacket

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**Abstract** - Throughout the world, the prime question in every girl's mind is about her security and the provocation issues. The main reason haunting them is when in this life will be able to move around properly without any fear and getting disturbed about their security. Nowadays enormous cases are appearing about harassing the ladies and taking their lives. It is high time that women need changes. In this, we made sure about security for them. This paper portrays about security electronic framework for ladies. This undertaking Centre around security for ladies so they will never feel defenseless. The system consists of various modules such as API, GPS, Memory Card, Siren, Camera, Arduino Lilypad.

**Key Words:** Voice module, women safety, location, Twilio, help.

## 1. INTRODUCTION

No lady should be a survivor of actual maltreatment. In the corporate and IT area, numerous ladies are working even in night move. It has been recorded as the biggest fall in the crime percentage than different urban communities in India. It was only inverse in the capital of India, Delhi. Crime percentage against ladies in Delhi was an aggregate of 2,99,475 wrongdoing cases were enrolled in Delhi during 2019, indicating a sharp ascent of 20% more than 2018 as per the information accumulated by the National Crime Records Bureau (NCRB). As indicated by the 2019 yearly report of the NCRB, 32033 assault cases have enrolled the nation over. Important in present days as wrongdoing activities against ladies are expanding definitely. The dread has been brought about by rehashed instance of viciousness toward ladies. More than 50 cases like assaulted, killed each day. schools do furnish understudy with fundamental abilities of life particularly to defend of their own. Every one of these issues compelled to build up a security and wellbeing framework for ladies. The framework is planned not just to serve as the motivation behind giving security to ladies yet in addition to

confronting social difficulties they never feel vulnerable. The current portable application needs part of the human association to work and to send caution to police and relative by sending their area. This application isn't just utilized for cases like assaults and any degenerates prodding young ladies however this additionally causes them from any terrible condition or any wellbeing issue like blacking out unexpectedly.

## 1.1 Problem Statement

Women will be unable to protect themselves and handle smartphones during an emergency. Even, she will be unable to enable the alert function when they are in a risky situation, and they are unable to immediately contact the police and family members.

## 2. BLOCK DIAGRAM

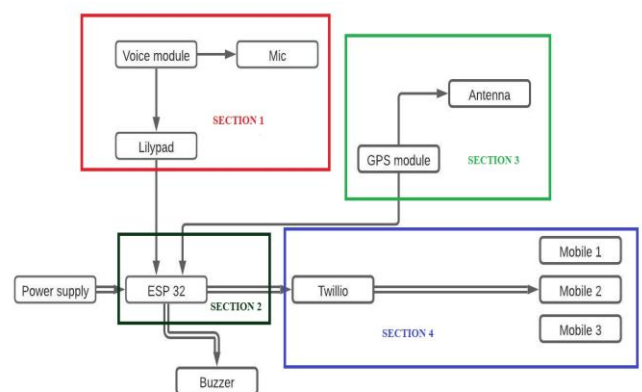


Fig.1: System Block diagram

## Description

In this system firstly, the Voice module is used to record the voice with help of Lilypad. The recorded voice is stored in voice module memory. At the point, when the voice module receives recorded words, such as, "Help me" or "Bachao",

the voice module gets the trigger. Lilypad will send a signal to the Wi-Fi module to go ahead with the further process. Wi-Fi Module is used to read GPS signals and to send wirelessly location results to User using the Twilio messaging service. GPS module used to track the location.

Location data is transferred to the Wi-Fi Module. Twilio messaging service is used to send a message to the user. It will send a message to only verified users. The verified numbers were police headquarters, neighbor's, and guardians and friends. The location will send to those numbers with a Twilio ready message "MY LIFE IS IN DANGER SITUATION, HELP ME!" The Siren will turn on around then.

All this description can be designed in the flow of operation

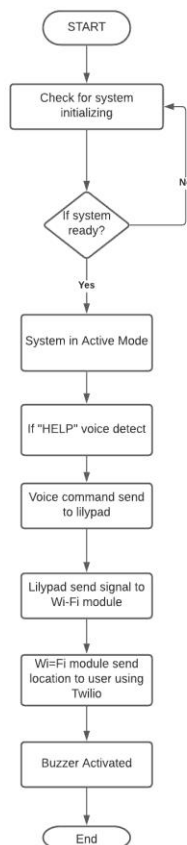


Fig -2: Flow of Working

**Results**

Voice-Based women safety jacket In That We are using Wireless System for giving security to women. This

System Is Used for Protection to crimes Which Are Happening Today's Life.



Fig -3: Hardware Implementation

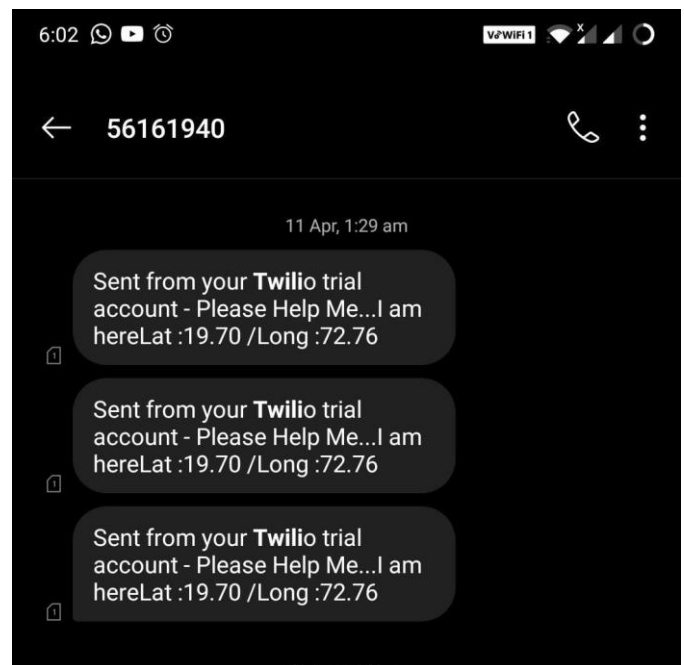


Fig -4: Results from Twilio

**3. CONCLUSIONS**

This project has mainly focused on the safety of women in public places. The different modules used in the system are combined to develop Women Security Jacket. This system makes use of a GPS module which is employed to send emergency. The message alongside current longitude and latitude value to stored contacts. On detecting a violent situation, the system may be activated by simply sending a voice command. She can make salvage of herself in perilous circumstances. Furthermore, this circuit will use to eliminate or diminish the strain of a young lady when she strolls alone in night hour additionally, so she will never feel

powerless in any circumstance and may ensure her without anyone else.

#### **ACKNOWLEDGEMENT**

We take this chance to precise sincere gratitude to Assistant Professor Mr. Sundar Kharvi for his valuable guidance, immense support, suggestion, encouragement and interest in our project work. We would like to thank all direct and indirect identities of the faculty with whom we took the strides of this project.

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