

# WOMAN SECURITY SYSTEM USING EMBEDDED

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## Abstract

The system aims to provide real-time protection to women in emergency situations. The system is equipped with a GPS module (Neo 6m v2) which provides the current location of the user. This information is sent to a designated guardian or emergency contact via SMS using the SIM 800L GSM module. In case the user presses the emergency button, the system sends an SMS to the designated guardian with the user's current location and an emergency message.

The system uses the ESP 32 microcontroller to integrate all the components and ensure their seamless operation. The microcontroller ensures that the system is constantly monitoring the user's location and sending regular updates to the guardian. In case of an emergency, the microcontroller sends an emergency alert to the designated guardian. The system is designed to be portable and can be carried by the user at all times. The compact size and low power consumption of the components ensure that the system is convenient to use and can be operated for extended periods on a single charge.

**Keyword:-** ESP 32, SIM 800L GSM Module, Neo 6m v3 GPS Module, OLED Display.

## I. INTRODUCTION

Present days Woman safety refers to the measures and strategies put in place to protect women from harm and ensure their physical, emotional, and psychological well-being. Unfortunately, women are often subjected to various forms of violence, harassment, and discrimination in different settings, including at home, in public spaces, and in the workplace. These incidents can have long-lasting effects on women's lives, such as trauma, anxiety, and a sense of insecurity.

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## II. LITERATURE SURVEY

In recent years, there has been a growing concern about the safety of women in various parts of the world. Women have been the victims of various crimes such as sexual assault, harassment and violence. To address this issue, there have been several technological advancements that

have been made to ensure the safety of women. In this literature survey, we will explore some of the existing technologies that have been developed to ensure the safety of women. Personal safety apps are mobile applications that are designed to ensure the safety of women. These apps can be downloaded on smartphones and can be used to send alerts to emergency contacts in case of danger. Some of the popular personal safety apps include bSafe, Circle of 6, and Life360. bSafe, for example, allows users to send an SOS alarm to their emergency contacts, share their location, and even record audio and video of the situation.

## III. EXISTING SYSTEM

Existing system of this project is Woman safety refers to the measures and strategies put in place to protect women from harm and ensure their physical, emotional, and psychological well-being. Unfortunately, women are often subjected to various forms of violence, harassment, and discrimination in different settings, including at home, in public spaces, and in the workplace. These incidents can have long-lasting effects on women's lives, such as trauma, anxiety, and a sense of insecurity.

## IV. PROPOSED SYSTEM

The proposed system describes a safety device that gets automatically triggered when a woman is in danger from





