NIRBHAYA...!

"Empowering Safety,Enabling Freedom - A Gaurdian of Hope and Security for Women & Children."

AIM OF THIS PROJECT

The aim of the project "Nirbhaya" is to design and develop a prototype safety device integrated with advanced technologies to ensure the protection and security of women and children in distress situations

This prototype focuses on demonstrating the feasibility and functionality of an affordable and portable safety device that can later be scaled into a market-ready solution to address the growing need for women and child safety

where?

THIS PROTOTYPE AIMS TO...

source?

01

Enhance Personal Safety

Design a user-friendly device capable of detecting potential threats.

02

Monitor Potential Risks

Implement ultrasonic proximity sensors to detect suspicious movements or threats.

03

Facilitate Immediate Response

Utilize GPS and GSM modules to pinpoint the user's location accurately.

04

Enable Fall Detection

Integrate a fall detection mechanism to identify sudden falls or immobilization.

WHY THIS ?

- We chose the "Nirbhaya" project to address the growing safety concerns for women and children by leveraging technology to provide a reliable, real-time safety solution

- This project not only aims to solve a pressing issue but also aligns with our values of technological innovation and social responsibility.

HOW IT WORKS

- The Nirbhaya Project integrates multiple technologies for women and children safety, including GPS tracking, GSM, HC-SR04 Ultrasonic Sensor, and MPU6050 Accelerometer.

- This system provides multiple layers of protection by automatically sending alerts when the user is in danger, ensuring safety through location tracking and real-time communication with authorities.

BRIEF WORKING OF PROJECT

GPS TRACKING :

Tracks the user's real-time location and sends it to the concerned authorities when an emergency occurs.

GSM MODULE :

Sends an SMS with the distress message and location to predefined phone numbers or emergency contacts.

HC-SR04 ULTRASONIC SENSOR

Detects if someone is following the user. If a person stays within a fixed distance for a set time (e.g., 10 minutes), a self-alert is triggered to warn the user.

MPU6050 Accelerometer

If the user falls or experiences sudden movement, this sensor automatically sends an alert to authorities, even if the user can't press the panic button.

BUTTON

If the user presses the button, the system sends an immediate SMS with their location.

TECH-TINKERS

NANDHANA MANOJ

NANDANA CM

MEENAKSHI A DINESH