

# **IoT based Safety device for Human**

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**Abstract:** *The proposed IoT-based safety device aims to address the ongoing concern for human safety, particularly in remote or deserted areas. Unlike existing handheld safety devices, this solution eliminates the need for manual intervention by leveraging IoT and Android technology. Through voice commands, the device can automatically alert nearby individuals and law enforcement in unsafe situations. Equipped with a shockwave generator in the shoes for immediate self-defence, the device utilizes GPS, Wi-Fi, and Bluetooth to track the user's location and communicate with nearby devices for swift assistance. Additional features include group messaging, attacker photography, and displaying safe locations through a user-friendly mobile app. Designed to be lightweight and user-customizable, this solution offers comprehensive safety for individuals of all ages and abilities.*

**Keywords:** IoT, Shockwave generator, mobile app, voice commands

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