



Women's Wearable Security and Safety Device

Presented By:

KESARA SUNAYANA
217Z1A0596

OUTLINE



01 Abstract

02 Introduction

03 Features

04 Existing System

05 Drawbacks

06 Proposed System

07 Design Architecture

08 Modules

09 Modules

10 Advantages

11 Requirement Specifications

12 Conclusion

Abstract

Women's safety has become a pressing issue in many parts of the world, with increasing reports of harassment, assault, and violence. Wearable security and safety devices specifically designed for women are emerging as effective tools to enhance personal safety. This paper discusses how these devices work, including features like automatic alerts when sudden movements or falls are detected, alarms to scare off attackers, and cameras to record evidence. Connectivity options like Bluetooth and cellular networks allow users to share their location and stay connected with emergency contacts.

While these devices offer significant benefits for personal safety, they also face challenges such as limited battery life, privacy concerns, and the need for greater public awareness. The paper explores these issues and suggests ways to improve wearable safety devices, making them more reliable and effective for women's security.

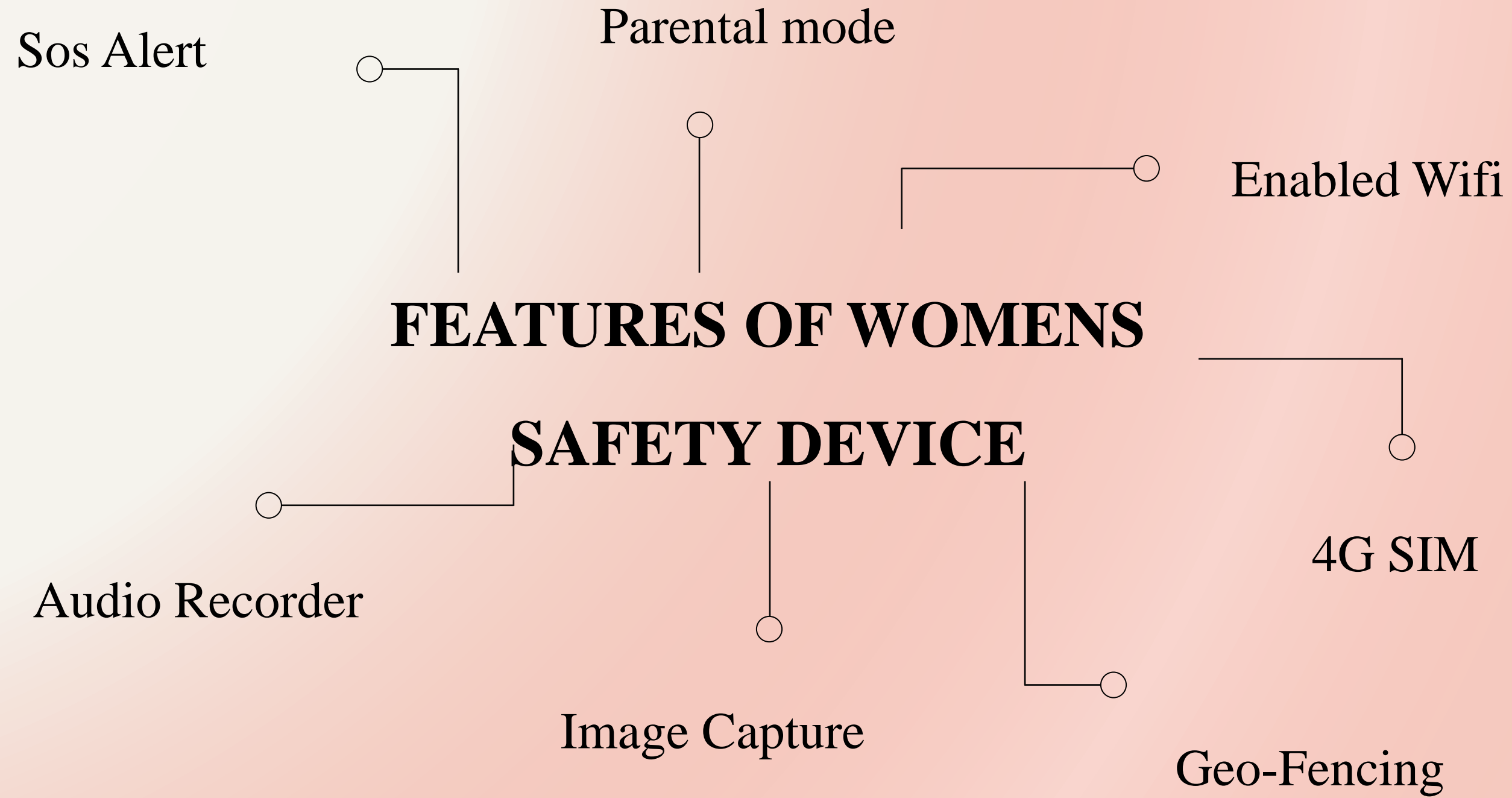
Introduction

Rising global concerns over women's safety drive demand for personal safety devices



Our mission

To examine the current state of wearable safety devices, identify gaps in existing technologies, and propose advancements to improve effectiveness and usability



Existing system



Operated via
a touchscreen, rely
on mobile apps



Heart rate
monitoring



Fitness tracking
and Alarm reminders

Drawbacks

B for Battery Issues

C for Connectivity Problems

A for Accessibility and Affordability

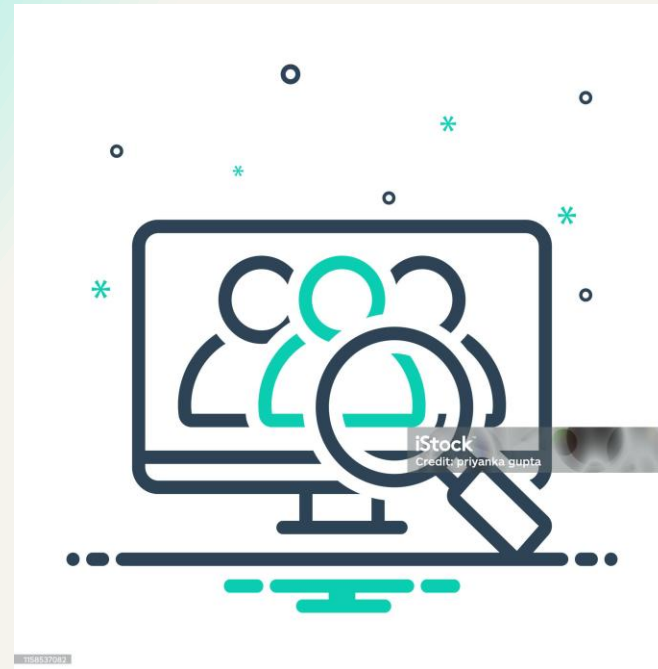
M for Misused by someone else

P for Privacy and Data Security Concerns

Proposed System



Wifi Enable with
4G Sim have
direct on-the-
go access
to you



Built-in
cameras, alarms
for deterrence
and evidence
gathering, Parental
Control

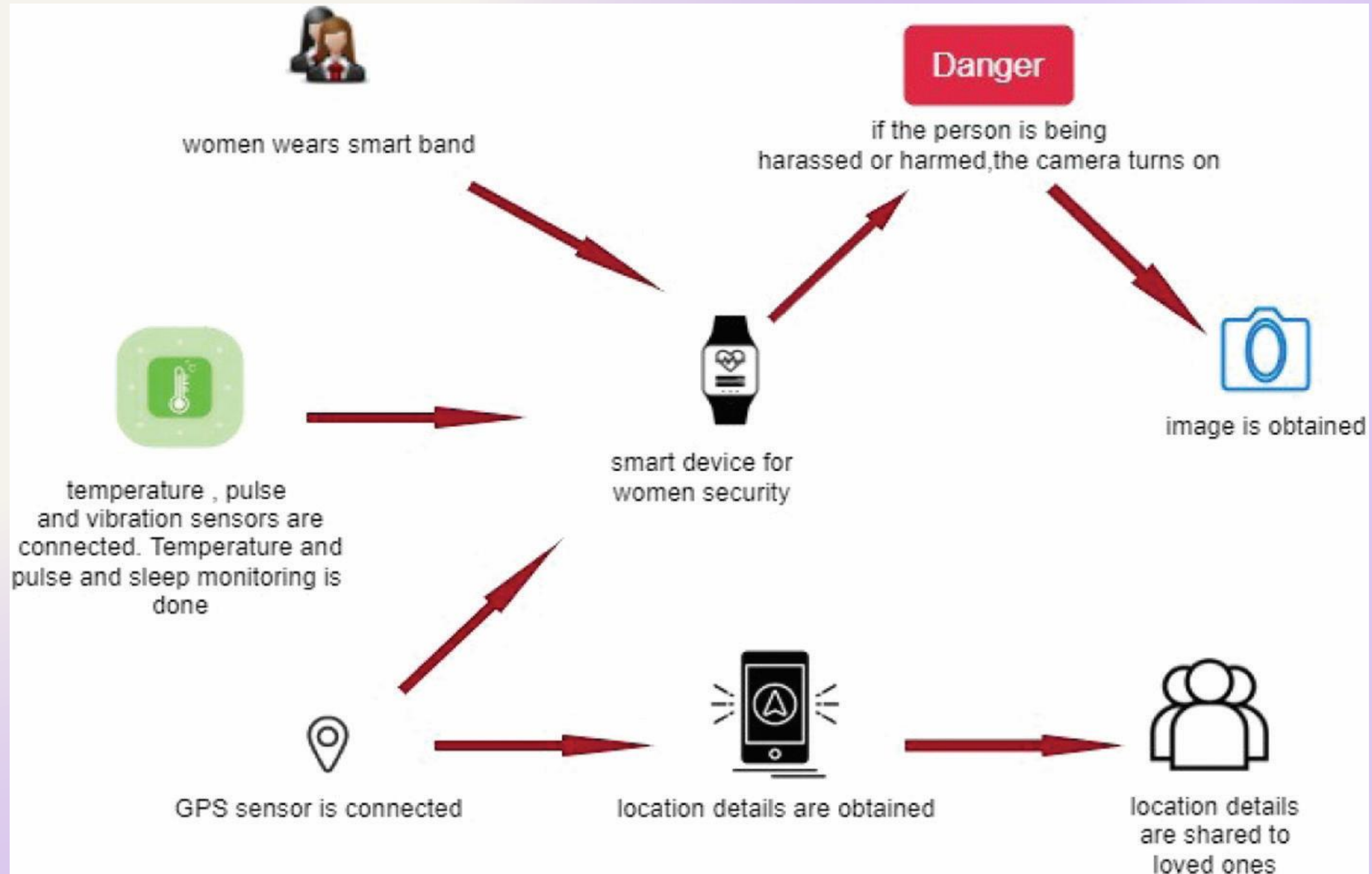


Real-time
location
sharing such as
In-Built
GPS tracking,
Geo-fencing

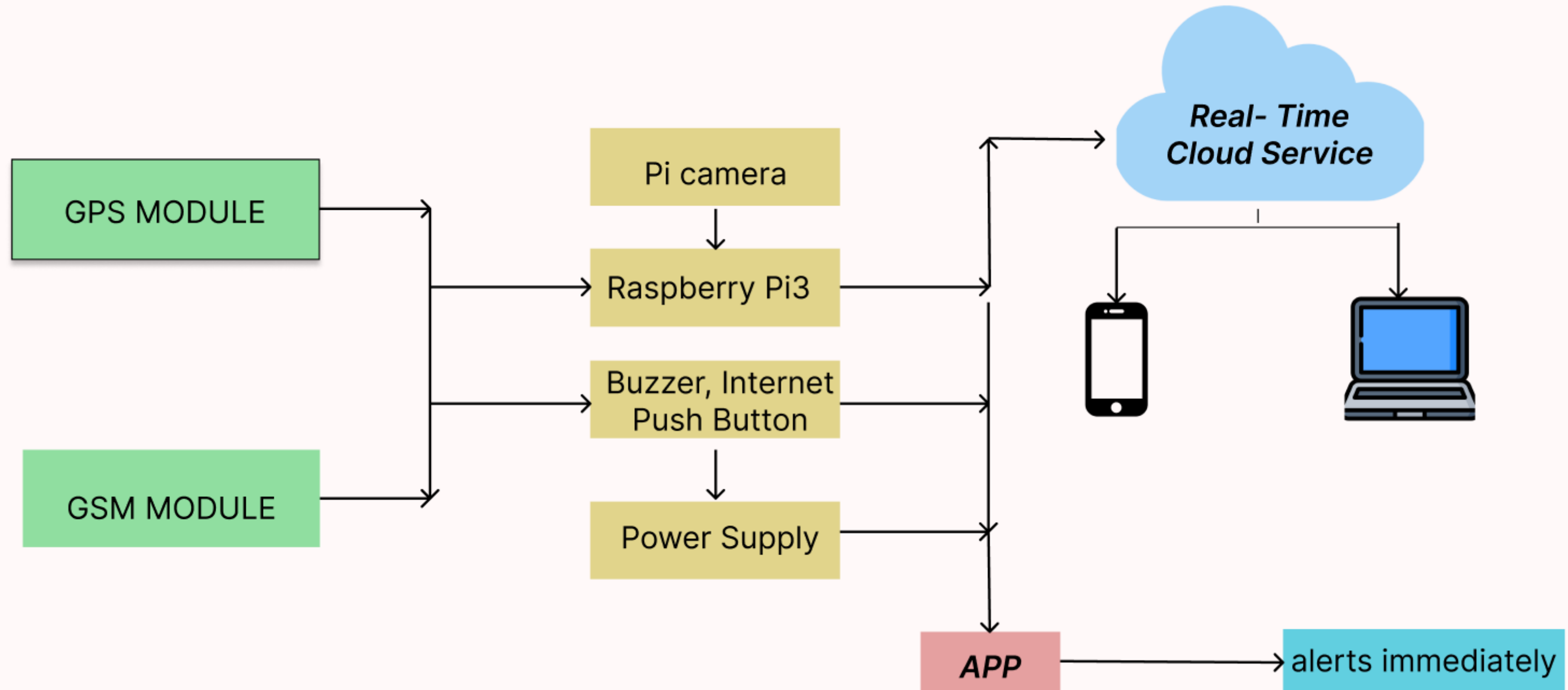


Bluetooth
and cellular
network
integration
for continuous
monitoring

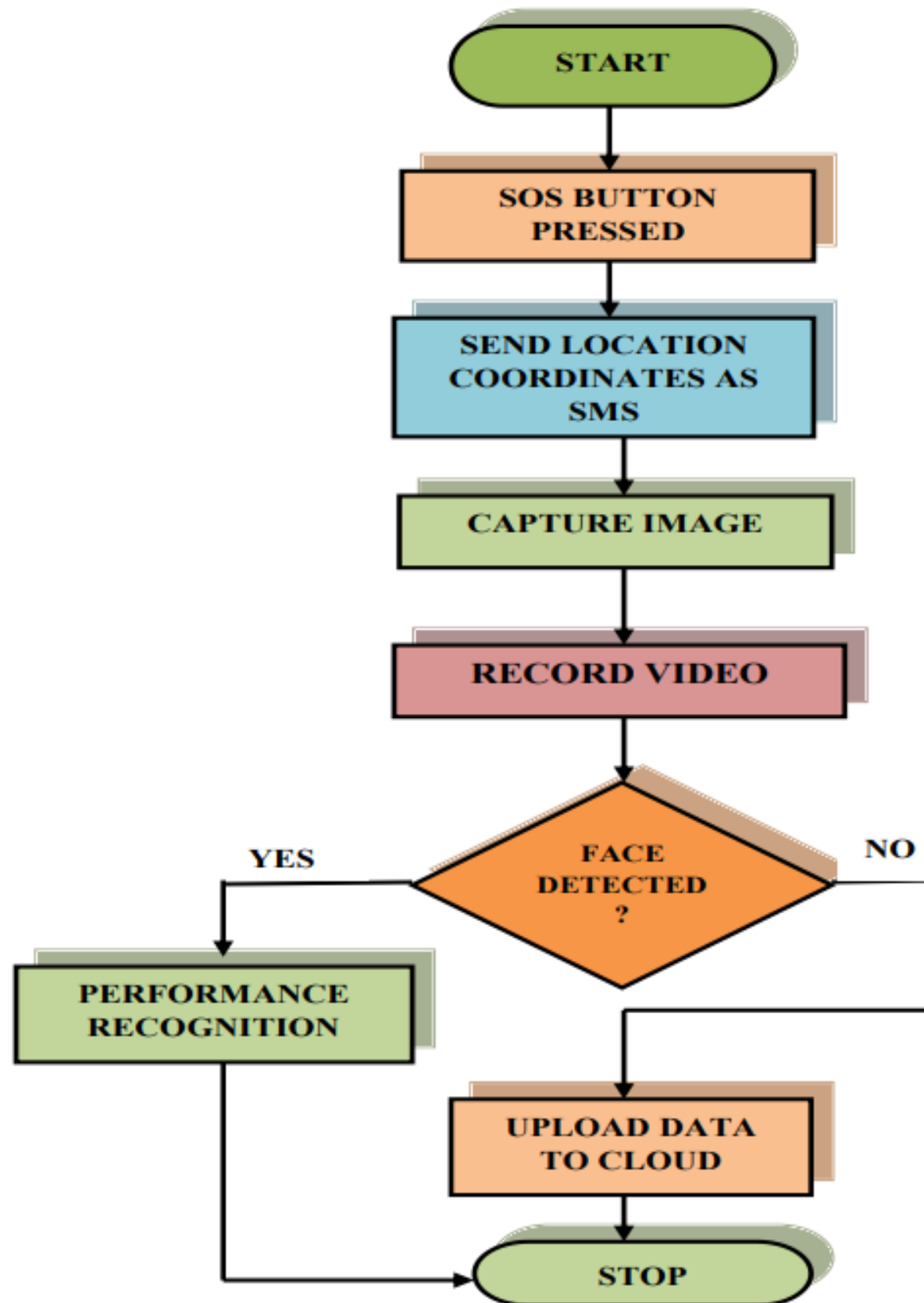
Design Architecture



Modules



Modules



Advantages



Enhanced Personal Safety.

Integration with Other Devices.

Ease of Use.

Health Monitoring.

Location Tracking.

Deterrence.

Requirement specifications



"Hardware Requirements": Raspberry Pi3,
GPS Module, GSM Module, Pi camera,
Buzzer, Pushbutton, Power Supply



"Software Requirements" :Platform : Windows 10,
Mac OS Mojave, Ubuntu 16.04
Raspbian Front End : Python
Back End : Firebase, Android Phone, Google Drive

Conclusion

Women's wearable security devices are evolving with advanced technologies to provide better protection and peace of mind

Addressing current limitations and incorporating innovative features can significantly enhance their effectiveness and adoption



THANK YOU