

SEPAS

# **Smart Emergency Panic Alert System (SEPAS)**

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- **Institution:** D.V.H.S.S Thalavoor
- **Sub District:** Kulakkada
- **District:** Kollam



## Problem Statement

- Emergencies happen every day – accidents, harassments, crimes, health crises.
- Victims often fail to reach help in time due to lack of communication.
- Current SOS systems depend on internet or mobile signal which can fail in rural or congested area.
- There is no unified, offline-capable alert network for our community and public spaces.



## Our Approach

SEPAS is a safety network combining mobile, web, Bluetooth Mesh, and LoRa to send emergency alerts with location and other evidences to trusted contacts and public SEPAS users nearby, even without internet.



# Product/Social Cause/ Research

Type : Product + Social Innovation

Beneficiaries :

Students

Women

Elderly

Commuters

General Public

Uniqueness :

Works offline using Bluetooth Mesh

Multi-sensor input (audio, video, GPS)

Real-Time guardian and authority notification



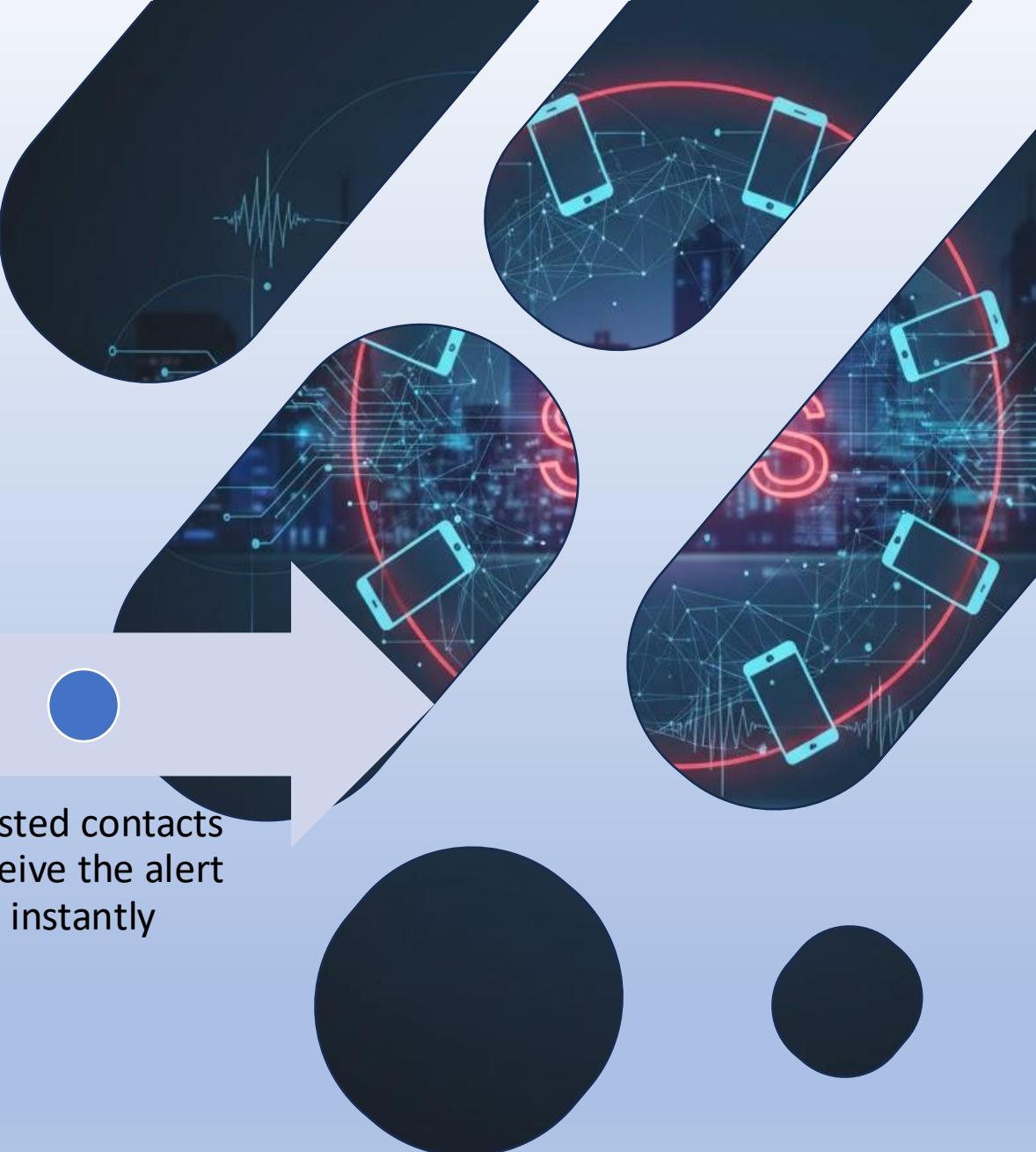
## How It Works

The user presses  
SOS button

Data is sent via  
Bluetooth  
Mesh(offline) or  
the internet  
(online)

App records the  
user's location  
and emergency  
details

Trusted contacts  
receive the alert  
instantly



## Stage

- Ideation Stage

## Development

- Under Development (gathering Resources)



## Goal

- To build a working Android Prototype As proof of concept

## IP status

- Not filed



# Competitors

112 India

- Needs mobile signals



# SEPAS advantage

- Works Offline



# Competitors

## Raksha

- Only sends SMS



## SEPAS advantage

- Multi-Channel alerts



# Investment/Support Needed

Purpose	Estimated Amount
Android Studio Setup and testing	5000
Basic Bluetooth devices for mesh demo	10000
Awareness and demo setup	5000
<b>Total</b>	<b>20000</b>



# Project Schedule

Phase	Duration	Outcome
Research and Planning	2 weeks	Idea Validation
App Learning	1 month	Skill Development
Prototype Building	1 month	Basic Working App
Testing & Presentation	2 weeks	Demo-ready version



# VoS Survey Report

Name	What is your age group?	Role/ Stakeholder Type	School / Institution / Organization Name	How clearly you understand the purpose of SEPAS?
Pranav krishna	10 - 14	Student	D.V.H.S.S Thalavoor	Very clear
Sreeja	31 - 40	Parent		Very clear
Adithyan. S	10 - 14	Student	D. V. H. S. S Thalavoor	Very clear
Parvathy Sreekumar	15 - 20	Student	Padmasree Central School	Clear
HARIKRISHNAN	41 - 50	Parent		Very clear
Rajasree s	31 - 40	Parent		Clear
Sreekutty	31 - 40	Parent		Clear
Asha George	31 - 40	Community member		Clear
Sreeja A R	41 - 50	Teacher	DVHS Thalavoor	Very clear
Adhinan	15 - 20	Student	DVHSS	Somewhat clear
Sivadath	10 - 14	Student	Dvhs thalavoor	Somewhat clear
Prakash	15 - 20	Student		Very clear
Rajesh Kumar R	31 - 40	Community member		Clear
Sreejith j	21 - 30	Student		Somewhat clear
Athira T	31 - 40	Parent		Clear
Ambadi v	15 - 20	Student	-	Very clear
Rajesh. S	41 - 50	Parent	School	Clear
Anjali	21 - 30	Parent		Somewhat clear
Manu	31 - 40	Parent		Clear
Shiju R	31 - 40	Community member	Govt JHSS Ayur	Not clear

# Vos Survey Report IIInd Part

How important do you think such a system is in today's world?	What kind of safety issue concern you the most?	Have you or someone you know ever faced a situation where a system like SEPAS could have helped?
Highly important	Violence or crime	Yes
Highly important	Violence or crime	Yes
Important	Violence or crime	Yes
Highly important	Health Emergencies	Yes
Highly important	Violence or crime	Yes
Important	Violence or crime	Maybe
Highly important	Road accidents	Maybe
Important	Violence or crime	Maybe
Important	Health Emergencies	Maybe
Not important	Road accidents	Maybe
Moderately important	Harassment or bullying	No
Highly important	Road accidents	Yes
Important	Natural disasters	Maybe
Important	Road accidents	Maybe
Important	Natural disasters	Yes
Highly important	Health Emergencies	Maybe
Important	Violence or crime	Yes
Important	Natural disasters	Yes
Highly important	Road accidents	Yes
Moderately important	Road accidents	Maybe

## Impact

- Safer Society and Community
- Quick emergency Response system
- Encourages digital safety awareness
- Empowers students with technology for public good



## Why It's Different?

- Works even without an internet connection
  - Sends SOS alerts to nearby users and selected trusted devices
  - Collects real-time evidence during emergency
- Functions effectively in schools, buses, and public spaces



## Stakeholders/Target Users

- Students and Women
  - Bus passengers
  - Senior Citizens
  - Public workers
- Schools and local authorities



## Future Scope

- Integrate SEPAS with Police and Government emergency systems
- Add support for smartwatches and other wearable devices
- AI auto-trigger on detecting screams, crashes, or unusual sounds
- Implement Drone or IoT-based rapid response systems



## Together for a Safer Tomorrow

- SEPAS makes emergency assistance fast and smart
  - Works anytime, anywhere, even offline
  - A new step toward a safer community



# Concept Image



## Team Overview

Team Lead : Pranav Krishna

Team Members : Pranav Krishna (leader),  
Adithyan S



## Additional Information

- SEPAS aligns with Kerala's vision of Safe & Smart Society
- Future goal : Develop a fully functioning prototype with local emergency integration



“Behind every emergency is a person who feels alone for a moment. SEPAS was created to make sure no one ever feels alone again. When someone presses that SOS button, they’re not just sending an alert, they’re reaching a helping hand.”