

# **GUARDIANS**

**A women and child safety app**

**Second Place Warriors (T4010)**

Precaution

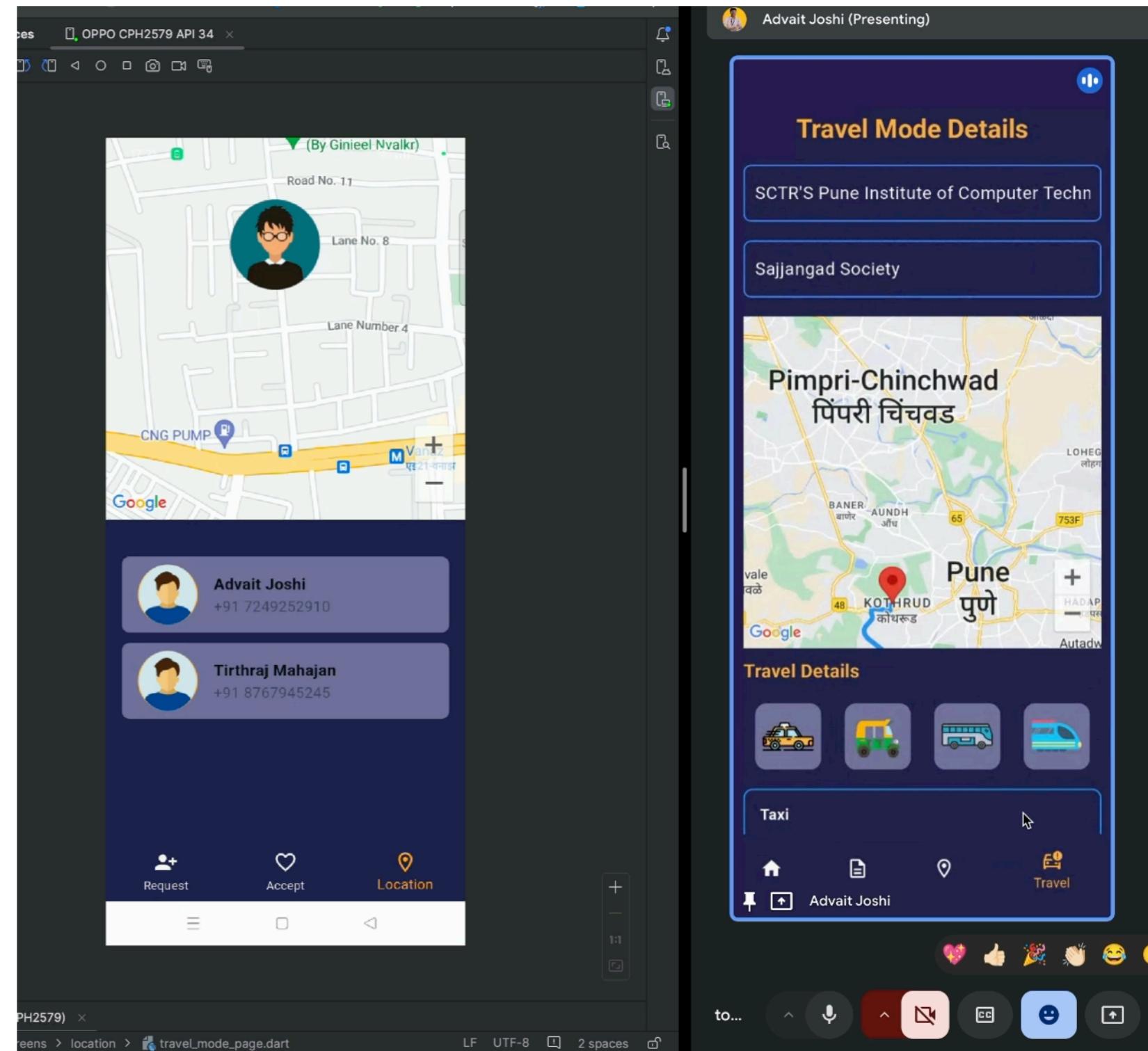
Panic

Post Incident Processing

# Travel Alerts

## Precaution phase

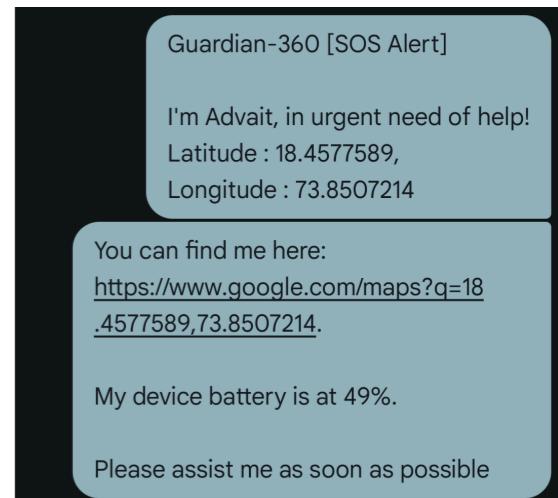
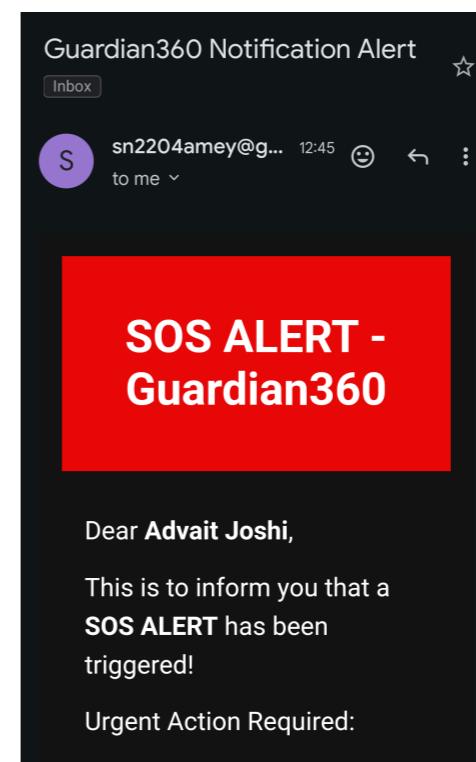
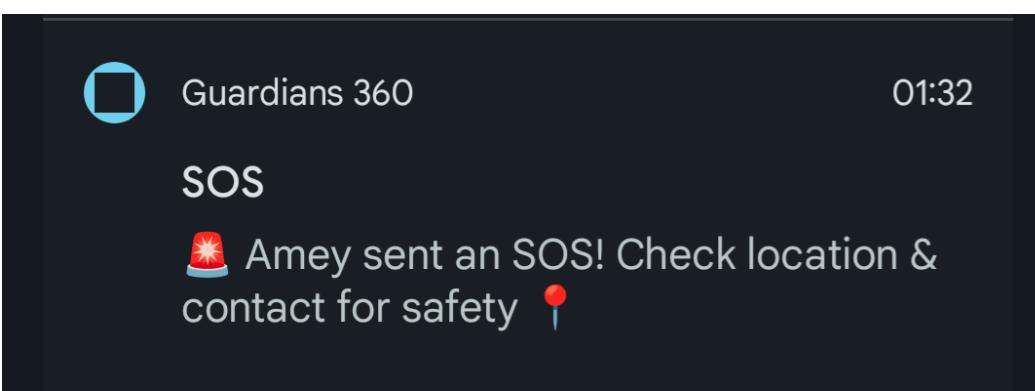
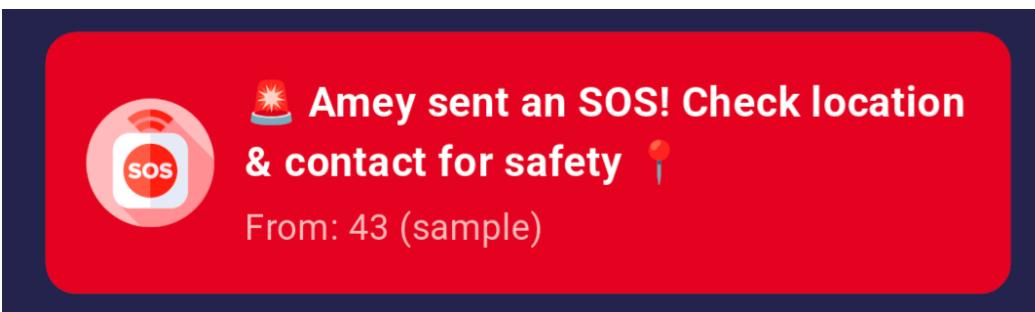
- Friends can track the user's location in real time.
- Real-time updates are provided throughout the journey.
- Priority based notification Alert
- Feature to poke the user and confirm the reachability of the device.



# SOS Alerts

## Panic phase

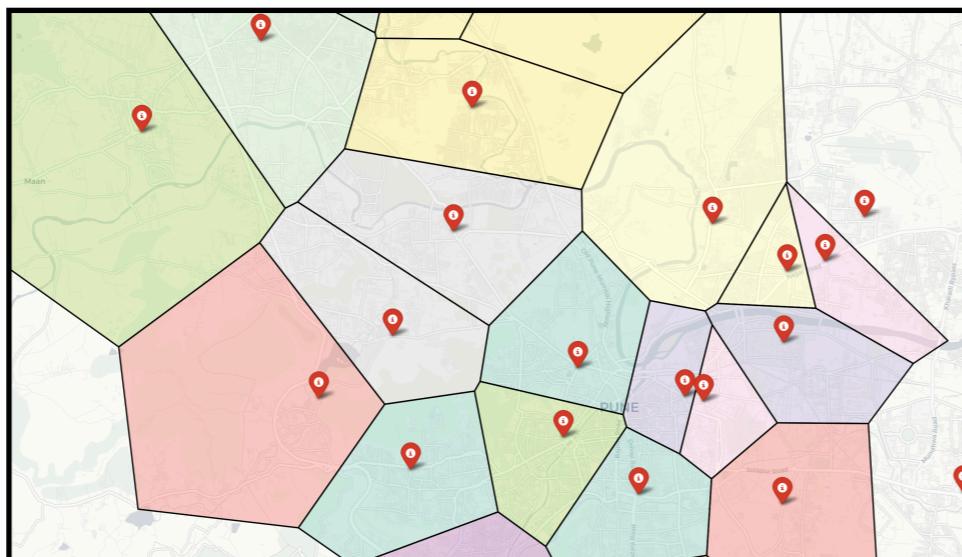
- The SOS button, when pressed, triggers the notification service.
- Notification and in-app and push notifications are sent via SMS and email.
- A video is recorded as soon as SOS is triggered, which acts as a piece of primary evidence.
- Support for using a physical button for triggering SOS, suitable for children.
- Apart from police and friends, people in nearby region are also alerted to bring immediate help to the person in emergency.



# Adaptive Location Alerts

## Precaution phase

- Our Agentic AI solution generates a severity score.
- A threat score is computed by our algorithm, and it is assigned to the places.
- This threat score is used to flag unsafe places dynamically.
- When a user enters that place, a warning message is sent to take extra care and precautions.



sn2204amey@gm... 01:21 😊 ← :

**S to me**

### Location Alert - Guardians360

Dear Anurag Mandke,

We have detected a potential safety concern at the current location.

**Please proceed with caution or consider changing your route.**

**Guardian360 Adaptive Location Alert Model** has flagged Bharati Vidyapeeth based on recent reports.

The following statistics are above the threshold value:

High Severity Incidents: 5.

**Threat Score : 81.25%**

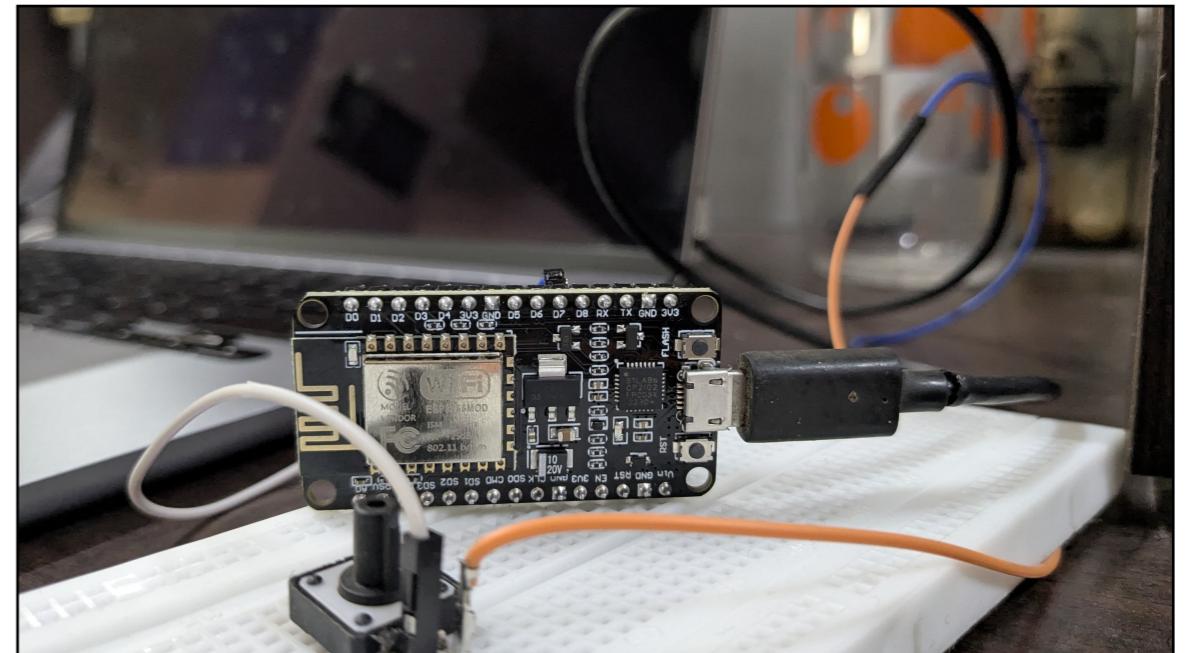
For your safety, we recommend:

- Being aware of your surroundings.
- Avoiding isolated areas.
- Staying in well-lit and populated areas.
- Trusting your instincts.

# Physical Button

## Panic phase

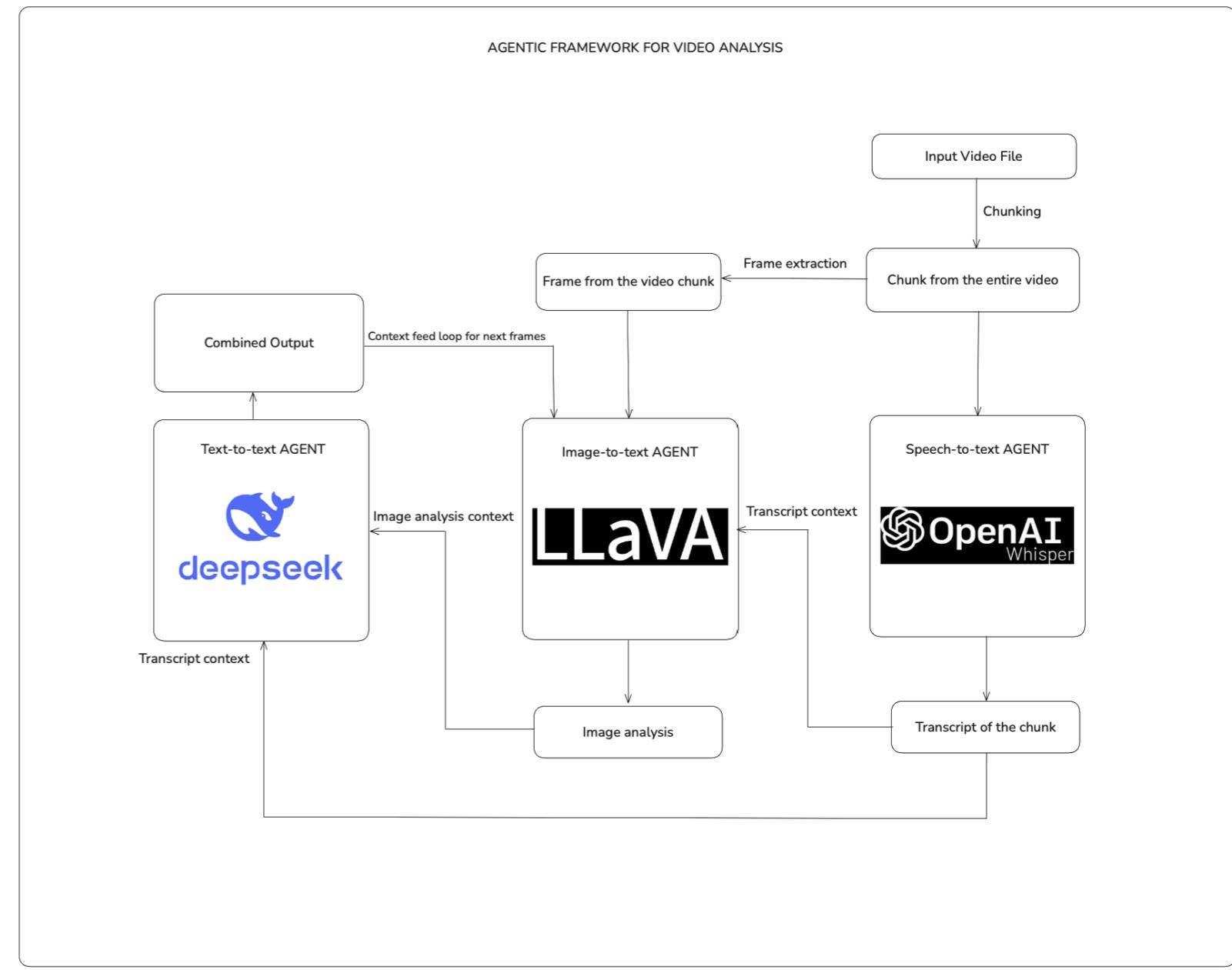
- Ideal for children who don't carry a mobile phone.
- It can be integrated into a wearable form factor.
- More accessible as compared to the on-screen button in the mobile application.



# Agentic AI Report Generation

## Post-incident phase

- Multi-modal agentic architecture.
- Llava processes frames from the video.
- Whisper produces the transcript from audio.
- DeepSeek compiles the final report by collecting the results from other two agents.



# AI Agents in action



"description": {

    "summary": "Two individuals, a man in blue and the man in black from previous frames, are seen engaging in a conversation with no apparent signs of physical distress or abnormal behavior. The environment appears safe, but the situation is unclear due to lack of specific information about their context.

A second frame captures a moment of distress for two individuals standing on a street corner, with one person wearing a shirt with white text reading 'NISA' and another displaying an uncontrolled gesture

    clutching a piece of paper tightly.",

    "emergency\_response": "",

    "location\_details": "Outdoor urban setting with buildings in the background, possibly a residential area.",

},

    "severity\_score": 2

}

1. In the image, there are two individuals: one wearing a blue shirt and the other in black. The person in the blue shirt appears to be speaking with their hand gesturing towards the individual in black. The individual in black is smiling and holding an object that could possibly be a cell phone or remote control.

2. There are no visible injuries or signs of medical emergencies observed in this frame. However, it is unclear what the person in blue might be trying to communicate about any potential injuries.

3. The environment appears to be outdoors and there are no immediate environmental hazards that can be identified from the image. It is not possible to determine if there is a chemical spill or fire present.

4. The exact location of this event cannot be determined with certainty, but it seems to be an urban setting with buildings in the background. Landmarks or notable features are not identifiable.

5. There is no visible text or signage that can be read from this frame.

6. No additional evidence or objects can be identified from this image.

7. In previous frames, there was a description of an SOS message and a reference to the man being detained by police for not paying his parking meter. It is unclear how these details relate to the current frame.

8. The timestamp for this image cannot be determined.

1. There are two individuals present in the image: a man and a boy. The man is dressed in a blue shirt and has his hand on the boy's shoulder, indicating a possible protective gesture or assistance. The boy is wearing a black t-shirt with "USA" written on it.

2. There are no visible injuries or signs of medical emergencies in the image. Both individuals appear to be in good health and do not display any physical distress or abnormal behavior.

3. There are no environmental hazards present in the image, such as fire, chemical spills, structural damage, slippery surfaces, or poor lighting conditions. The surroundings seem calm and normal.

4. The location appears to be an outdoor setting, possibly a street or sidewalk. There are some buildings visible in the background, but no specific landmarks can be identified from the image alone.

5. There is no visible text or signage in the image that can be read or interpreted. There are also no other notable objects present in the scene.

6. The man's hand on the boy's shoulder and their body postures suggest a possible interaction, such as advice or guidance. However, this interpretation cannot be confirmed from the visual evidence alone.

7. Previous analysis indicated that an SOS message was recorded by someone who felt distressed and needed help. The current frame shows no signs of immediate danger or urgency, but it is unclear whether the situation has escalated or improved since the previous report.

8. There are no metadata details available for this particular image frame.

The image captures a moment of distress for two individuals standing on a street corner. The person in the foreground is wearing a black shirt with white text that reads "NISA", their face hidden by the fabric as they turn away from the camera, seemingly oblivious to it. Their companion behind them appears more visibly distressed, their arm raised in an uncontrolled gesture, clutching a piece of paper tightly. The backdrop is a blurred street scene with buildings and cars lining the road, suggesting that this interaction might be taking place in an urban setting. The timestamp indicates this moment was captured at approximately 3:15 PM. The overall mood of the image conveys a sense of urgency and distress, but without any additional context from previous frames or transcripts, it's difficult to infer the specific nature of their situation or potential risks involved.

00:00:00 Person A - Who the hell do you think you are?

00:00:02 Person B - Who the hell do you think you are?

00:00:04 Person B - What did I do to you?

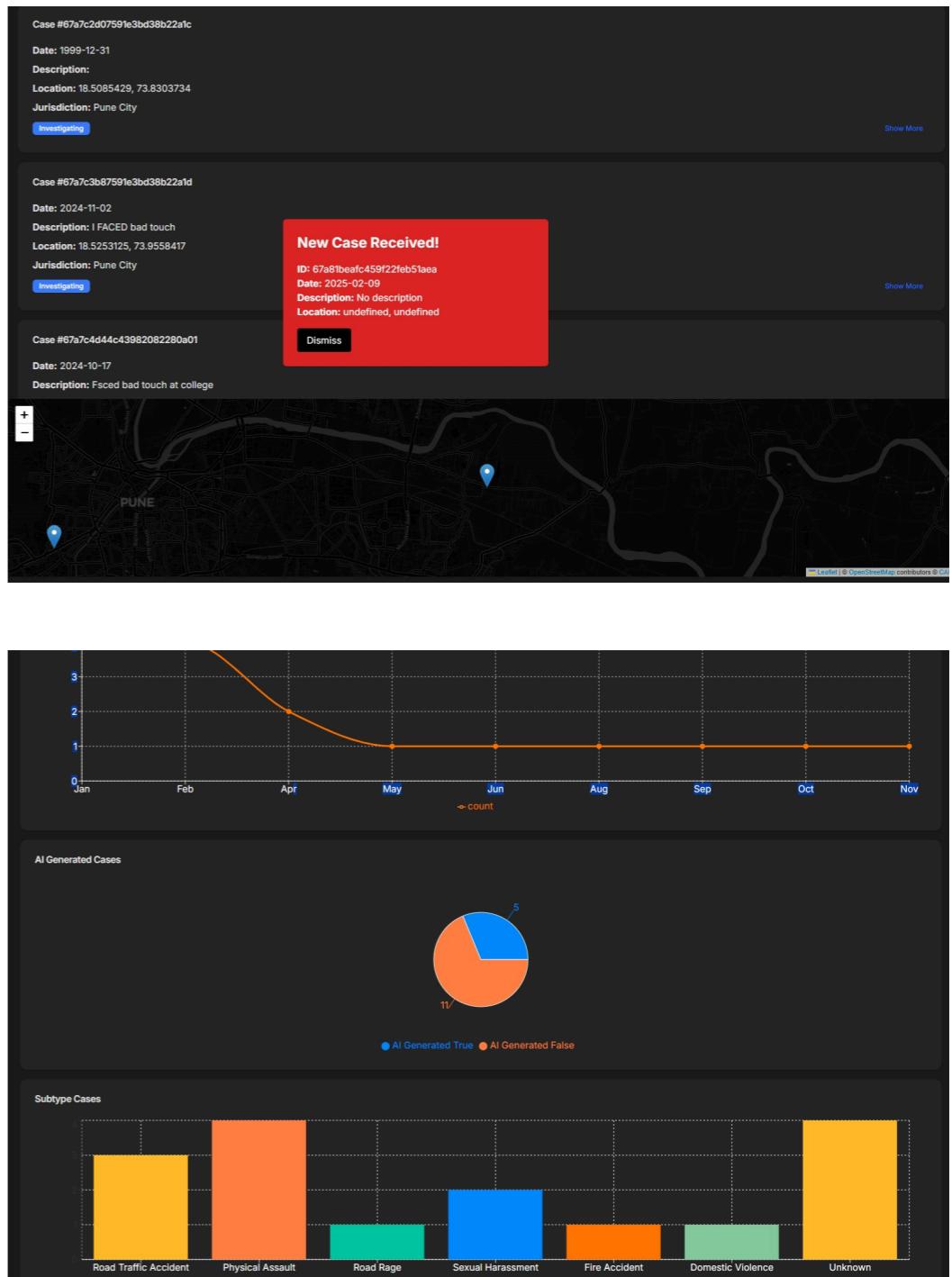
00:00:06 Person B - You destroyed my VN!

00:00:08 Person B - What did you say?

# Analytics Dashboard

## Post-incident phase

- The data of alerts are captured and stored in our database.
- We are processing the data to generate insights about the severity of alerts, their frequency, and the identification of hotspots.
- The dashboard will be public access, meaning that anyone has the right to know high-level information about the crime rates in their region.
- This dashboard will be helpful for local authorities to keep track of the status of investigation procedures.
- As the data scales, we will use big data analytics tools like Apache Spark, Airflow and Google BigQuery for analytics.

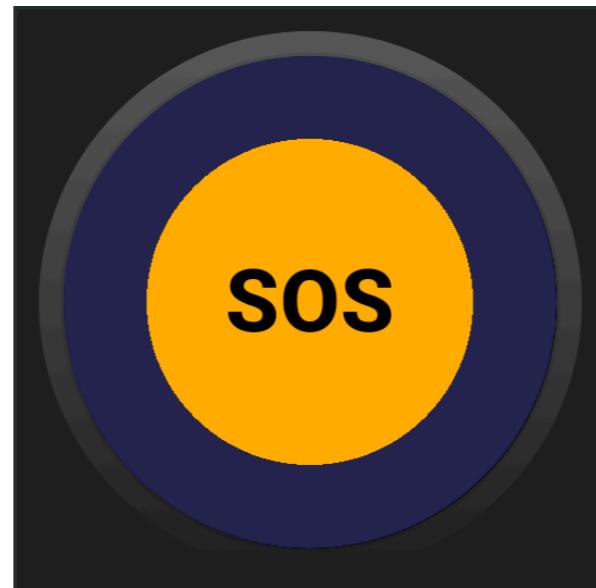
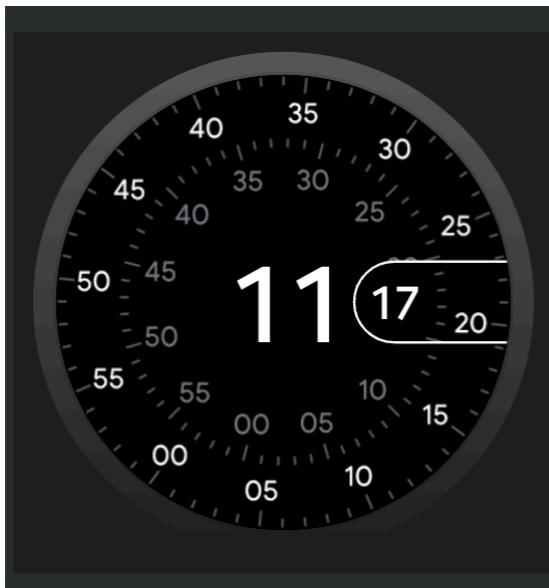


# Thank You

# Wearable compatibility

## One more thing

- The Guardians app now runs on the Google WearOS, supporting smartwatches from Google, Samsung and Fossil.
- It makes it more accessible, with the SOS button right on the user's wrist.
- Uses GPS in the watch to track live location.



# System Design

