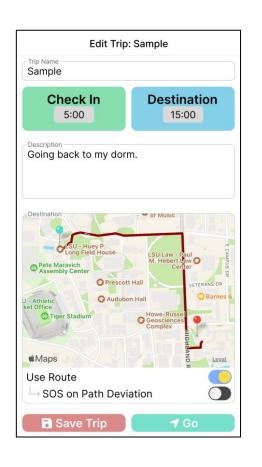
Lifeline: A Campus Safety App

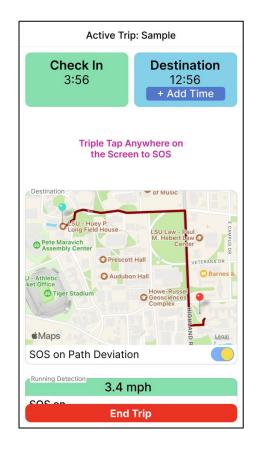
Muhammed Habibovic mhabi13@lsu.edu (504) 228-2387

An online version of this presentation is available at mhabibovic.com/lifeline.pdf

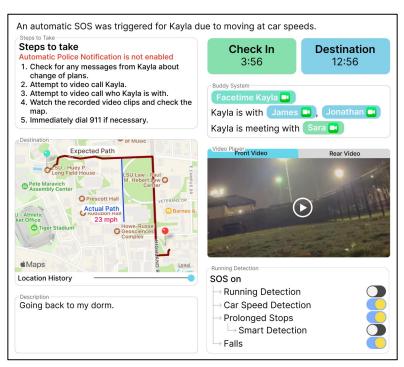
Overview









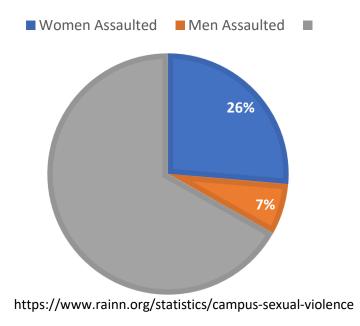


Possible Incident: notification to emergency contacts and/or LSU PD with comprehensive data for rapid response.

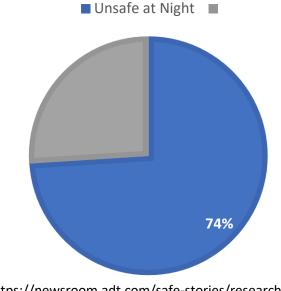
Lifeline is a modern, free, and easy to use app with advanced features intended to make travel on campus safer.

Motivation

26% OF COLLEGE WOMEN WILL BE SEXUALLY ASSAULTED BEFORE GRADUATION



74% OF COLLEGE STUDENTS REPORT FEELING UNSAFE WALKING IN THE DARK



https://newsroom.adt.com/safe-stories/research-finds-82-percent-american-college-students-are

- Despite modern technology like cameras and advanced forensics, many offenders go unpunished
- Many crimes could be prevented and victimization spared if immediately detected

 Inspired by my personal experience with violent crime, I aim for Lifeline to be a trusted tool to ensure student safety

Greatly Improved
Advanced Incident
Detection

Check in Intervals & Easy SOS while Fleeing

Movement Awareness for Abduction

Detection

Decoy Passcode in Case of Coercion by Assailants

Buddy System

Monitors for

Unexpected Separation

Easy Response to Incidents

360 Video/Audio to Ensure Capture of Assailants and Events

Location History to See What Went Wrong & When

Easy Dashboard for Emergency Contact Incident Management

Easy Integration With LSU PD For Rapid Response

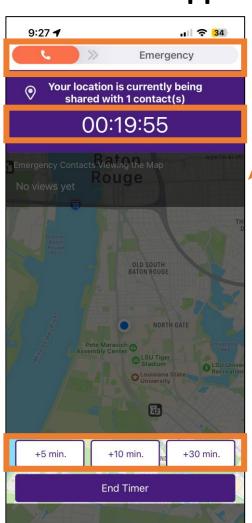
Use Encouragement

Modern & User-Friendly Interface

Ability to Only Notify
Contacts During
Incidents, Encouraging
Use With Parents &
Friends

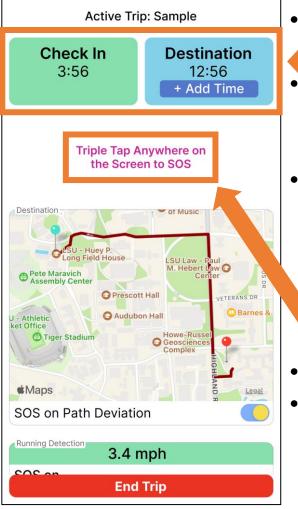
Lifeline App Provides Check in Intervals Rather than Check in Just at End & Easy SOS Triggering While Fleeing

LSU Shield App



- Difficult to use SOS slider while **fleeing from assailants**
- Must unlock phone, even more difficult
- only Indication that something has gone wrong with LSU Shield is when timer expires
- No check in intervals
 - passcode, neutralizing the only method of detection if phone is taken

Lifeline App



- Time to destination is tracked
- Check in with passcode required at pre-set intervals
- Myriad of other incident detection techniques

Easy **Triple Tap Anywhere**on Screen to trigger SOS

- Easily done while running
- No need to unlock phone

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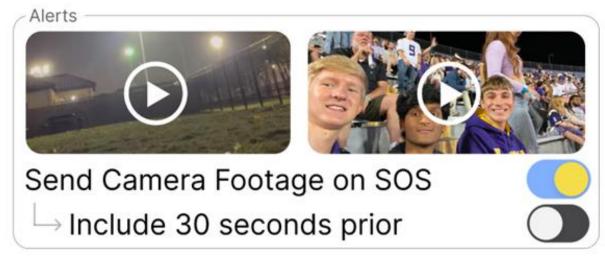
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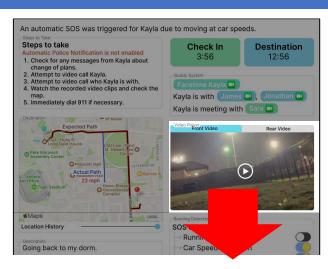
Lifeline App Transmits Video & Audio From Incident for Identification of Abductors Resulting in Victim Recovery & Conviction

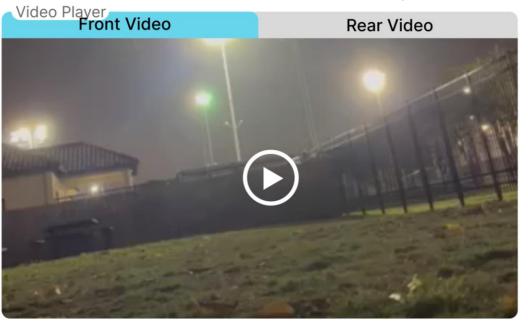
Lifeline App Trip Settings



 Up to 30 seconds of video & audio with 360 view is transmitted upon incident detection.

Info Screen For Emergency Contacts





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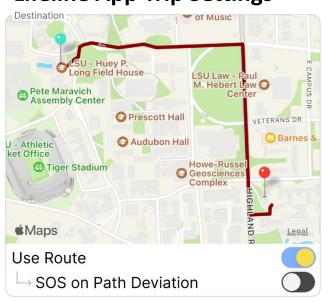
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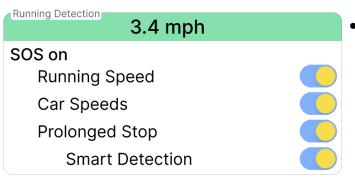
Ability to Only Notify
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Lifeline App Provides Destination & Area Selection With Alerts for Deviation to Detect Abductions

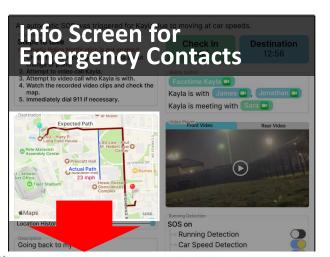
Lifeline App Trip Settings



- Al analyzes route to determine if it is a reasonable path
- If path is deviated from, contacts will receive emergency alerts with live location & history



- Advanced triggers for:
 - Running detection
 - Help is needed
 - Car speed detection
 - Possible abduction
 - Prolonged stop
 - Possible assault





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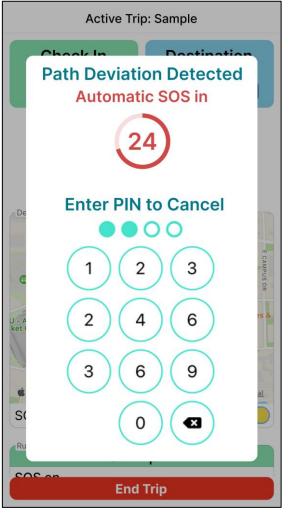
Lifeline App Allows for User to Create a Decoy Passcode in Case of Coercion by Assailants

LSU Shield App



LSU Shield App
 provides a passcode to
 user, no ability to set
 custom or decoy

Lifeline App



- Lifeline app allows for custom passcode & decoy passcode
- If decoy passcode is used, app will act as if correct one was used
 - Once set, no way to tell if passcode is decoy
 - Decoy Passcode immediately triggers incident & notifies emergency contacts with video, audio, & live location & history with no indication to assailant

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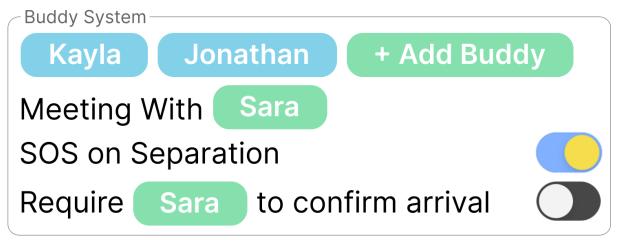
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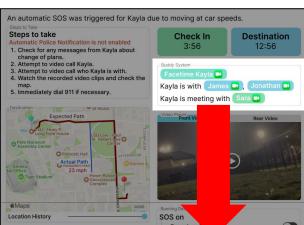
Lifeline App Includes Buddy System With SOS Alert if Unexpectedly Separated

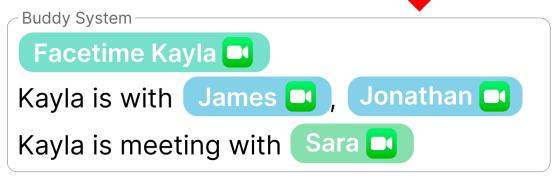
Lifeline App Trip Settings



- User can add who they are going with
- If others have app, SOS alert will trigger on separation
- Can add who is at destination & require
 confirmation of arrival from that person

Info Screen For Emergency Contacts





 Emergency Contacts will have contact information for everyone user is travelling with & meeting

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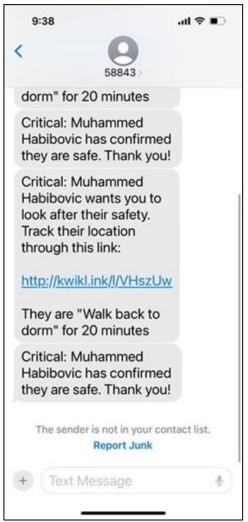
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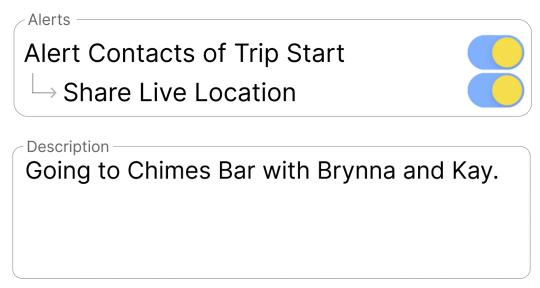
Lifeline App Allows for Emergency Contacts to Only be Notified During Incidents, Encouraging Use with Parents & Friends

LSU Shield App



- Emergency contact receives text at start of trip with details
- Discourages use with parents as most college students don't want parents to know everything
- Students may feel they are being "annoying" by constantly sending alerts to friends

Lifeline App



- Contacts can be notified only in case of incident
- Students much more likely to use with parents and enter accurate trip data for emergencies

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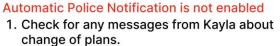
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Lifeline App Includes an Easy Dashboard for Incident Management by Emergency Contacts

An automatic SOS was triggered for Kayla due to moving at car speeds.

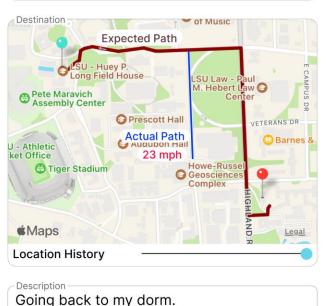


2. Attempt to video call Kayla.

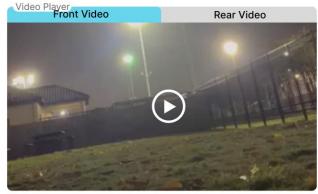
Steps to Take

Steps to take

- 3. Attempt to video call who Kayla is with.
- 4. Watch the recorded video clips and check the map.
- 5. Immediately dial 911 if necessary.









Lifeline Trip Info Screen

- **Key details** regarding trip
 - Reason for incident report
 - Map with live location & history
 - Trip Description
 - Time left
 - Travel buddies with contact information to ensure safety
 - Video & Audio of Incident
 - Trip Settings
- Steps to take are listed to ensure rational thinking & beneficial actions are taken in dire times

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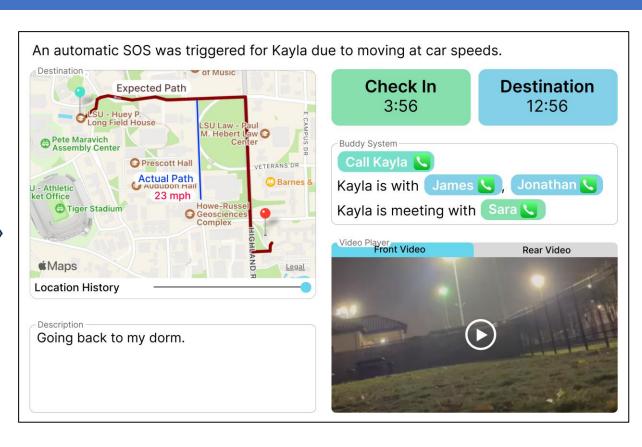
Lifeline App Will Allow for Easy LSU PD Integration

Lifeline App Trip Settings





- Integration is simple: LSU PD Dispatch receives an automated call with a code, enters it into secure website, views information
- No new software is needed for LSU
 PD



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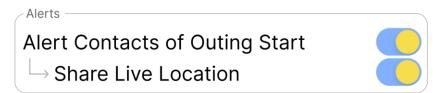
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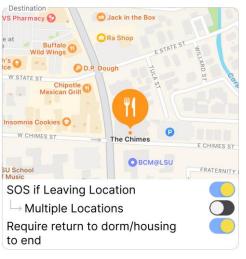
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FriendSystem Ensures Safety at Outings Such as Bars & Frat Parties

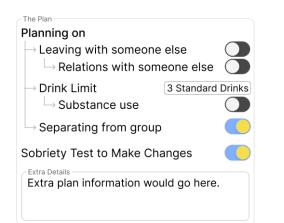
- Often at Bars of Frat Parties, a student in a friend group is left behind for a multitude of reasons.
- Unscrupulous persons may try to take advantage of the situation
- FriendSystem helps to ensure safety



 Parents do not have to be alerted of the start of the outing, which encourages students who know they can trust their parents but don't want them knowing about their activities to use the app as a backup







 Geofencing ensures users remain in safe areas

 Listing the friend group ensures no one is left behind & emergency contacts can intervene if so

 A plan can be defined so friends know when to take concern with another friend's actions

Conclusion

- One of my principle passions is helping others. I want to ensure that no one else is a victim of violent crime, and if they are, that the tools exist to hold perpetrators responsible and provide victims with justice.
- Lifeline will likely complete development in about a month and will be free to use.
- I will try to spread it myself, but my influence is limited. The impact of Lifeline could be much greater with promotion and awareness campaigns focusing on the rich features and ease of use.
- Integration with LSU PD will allow for a much greater impact.
- Any feedback or suggestions for improvement are greatly appreciated.
- A small monetary grant would allow for much easier scaling.