



# CUSTOS

[ kuhs-tos; *Latin*  
koo s-tosh ]



# THE TEAM

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**Rahul Datta**

Hometown: Middletown, PA

**Hoang Pham**

Hometown: Mechanicsburg, PA

**Ryan Pham**

Hometown: Harleysville, PA

**Dale Reyes**

Hometown: Bridgewater, NJ

**Quang Tran**

Hometown: Lebanon, PA





# OUR MISSION

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Build a event driven mobile application that increases safety for all user-base while giving the same modern interactions as an every day mobile applications.

# The Market Currently

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## Pros:

- Easy to use
- Native iOS support

## Cons:

- iOS exclusive
- Limited functionality

# The Market Currently

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## Pros:

- Web application
- Real time incident reporting

## Cons:

- iOS exclusive
- Non-event driven

# MVP

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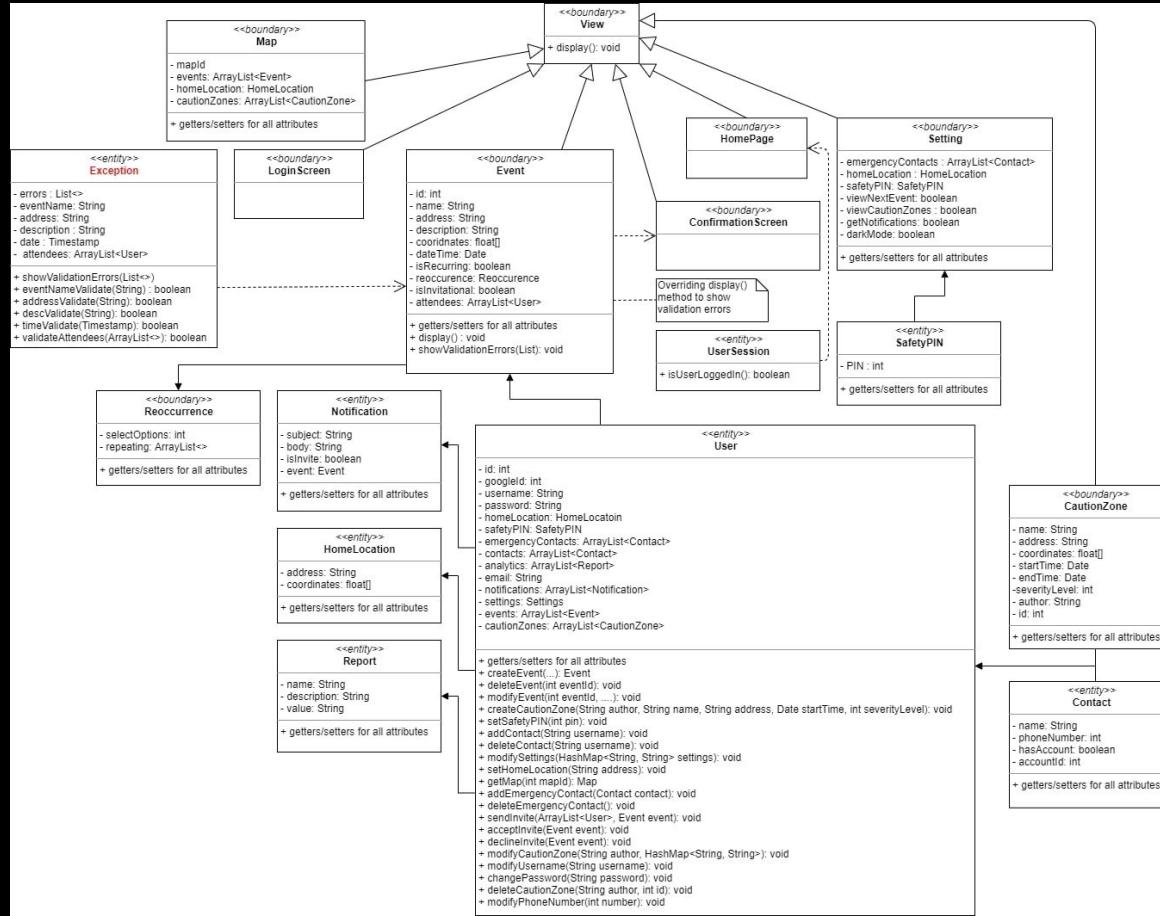
- **Real time location tracking**
- **Real time incident reporting**
- **In-app contact list**
- **Events features**
- **Danger/Panic feature**
- **Interactive map**

# **Academic and Theoretical Components**

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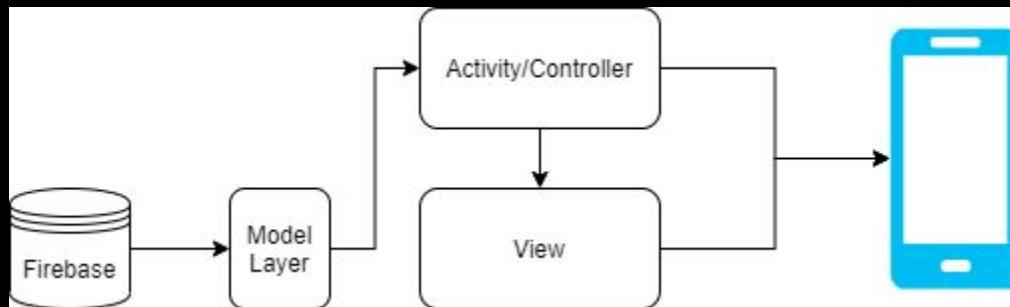
- **Data Structures**
- **Databases**
- **Application Programming**
- **Object Oriented Programming**

# Structure



# Structure

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# Tech Stack

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Built with  
**Firebase**

## FIREBASE

Real-time Firebase  
Database



**Android**  
Studio

## ANDROID STUDIO

JAVA  
XML

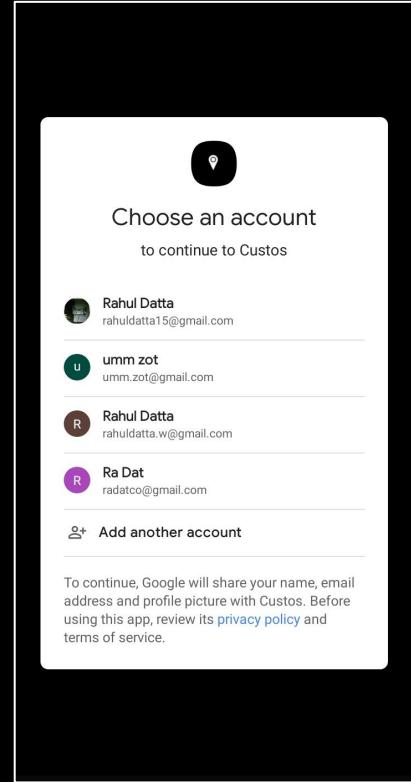
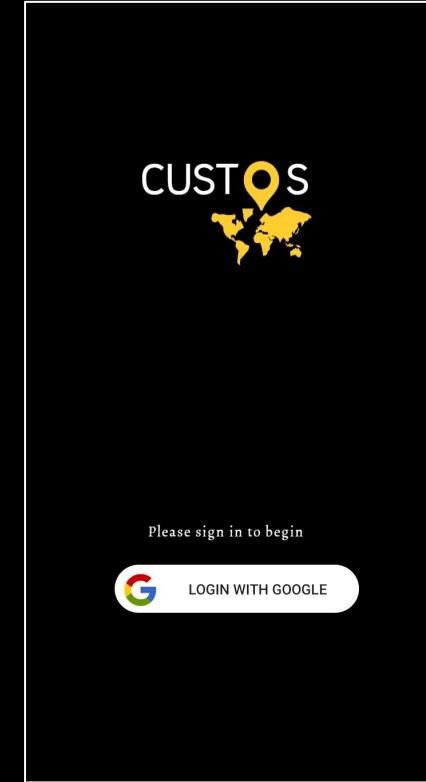
**Google**

## GOOGLE APIs

Maps API, Location API,  
Places API

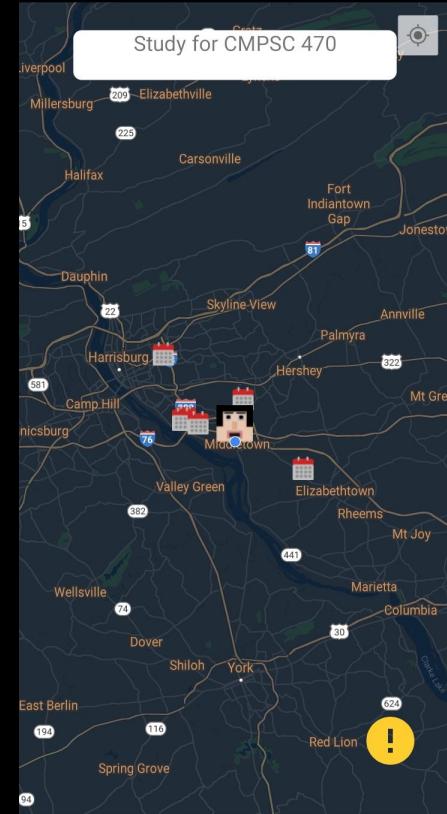
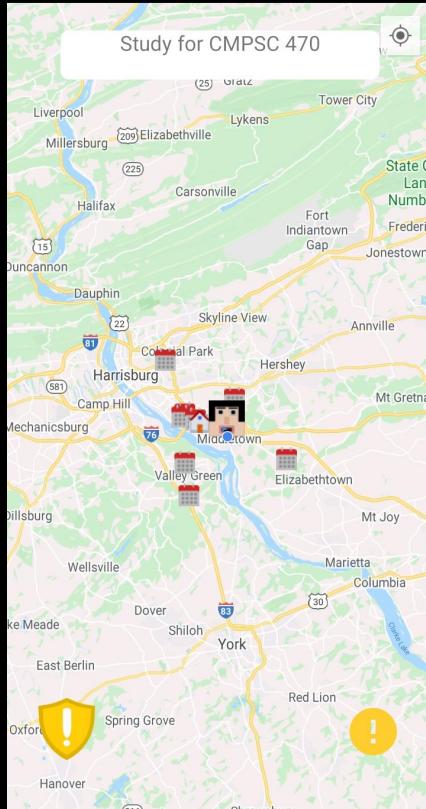
# Google Sign In

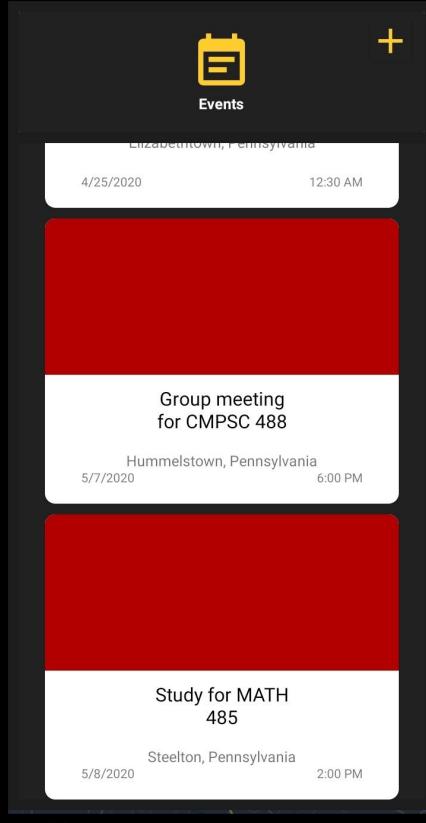
Custos implemented Google sign-in for easy access by every users of all ages



# Map

Custos is using top of the line APIs to have the most accurate maps for every user. The Custos' development team is intertwining Google Maps with our uniquely built-in software that will magnify each user's experience.

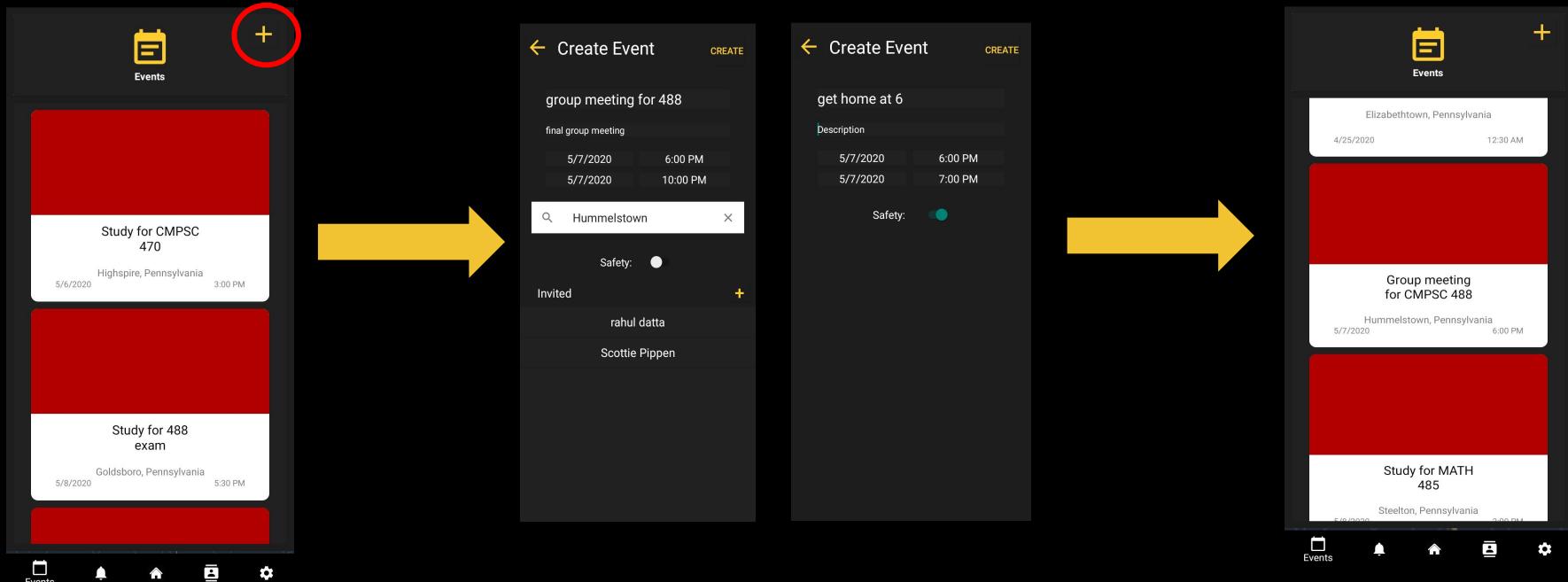




# Events

Our users have the abilities to create an unlimited amount of events. Custos has created situational events that encompasses maximum protection.

# Adding Event

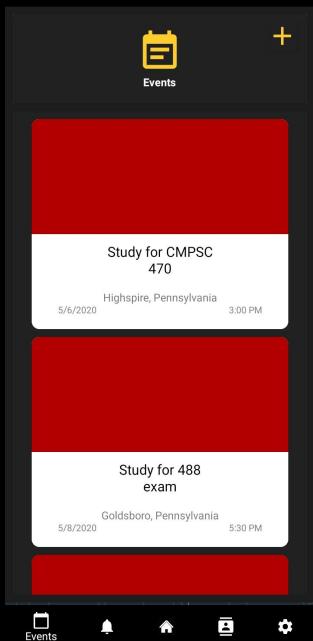


Click on + icon

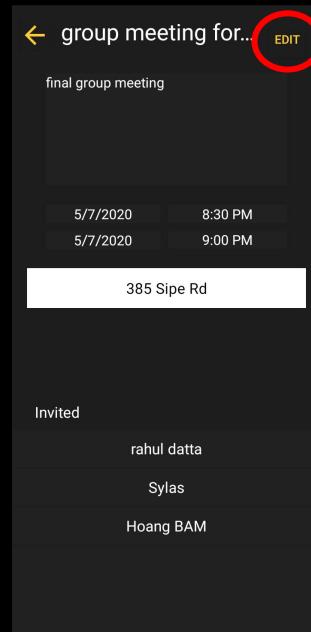
Fill out necessary information

Event has been created

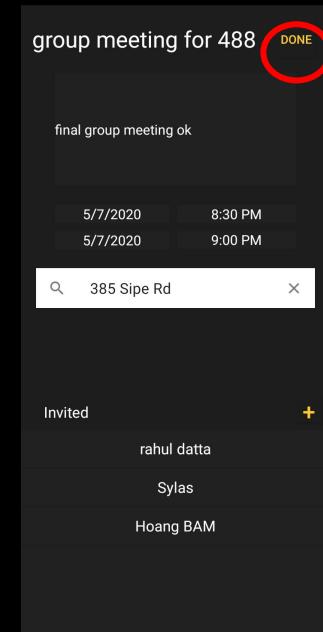
# Edit Event



Click on any Event



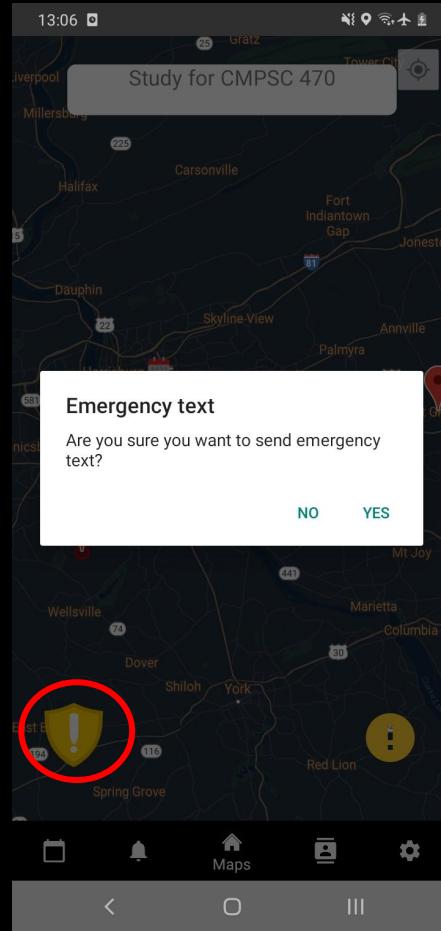
Click on edit in the top right corner

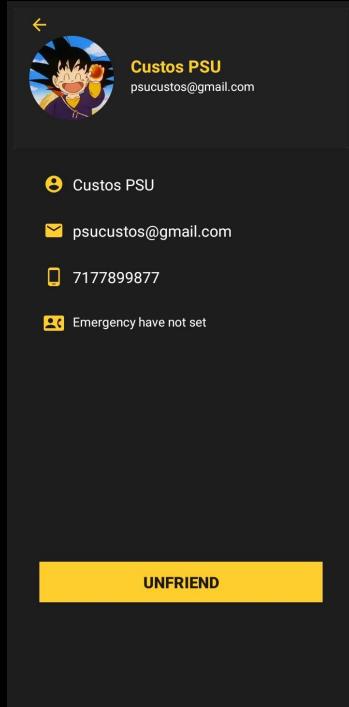
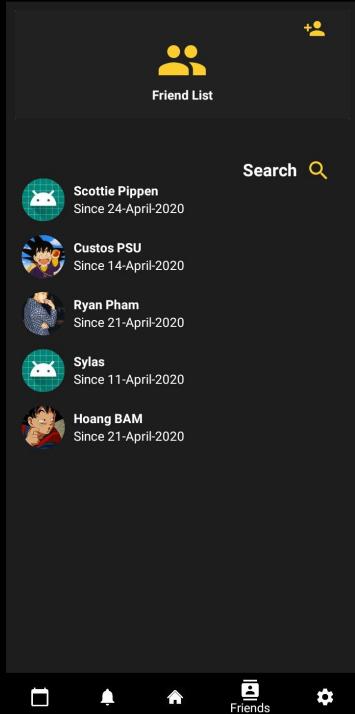


Make appropriate changes  
and then click on 'DONE'

# Real Time Security

Custos has made it our responsibility in providing each user the ability to ensure love ones the location of their friends and families. We use real time location to assist every person to prevent any unfortunate scenarios.



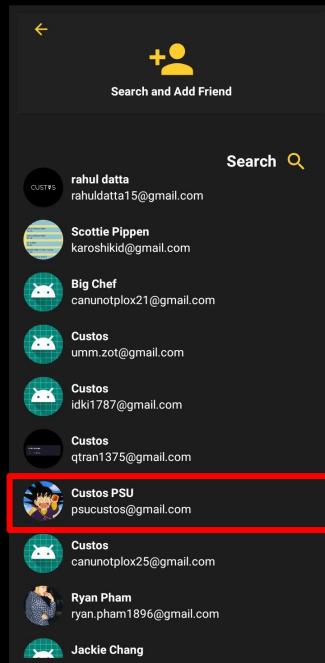
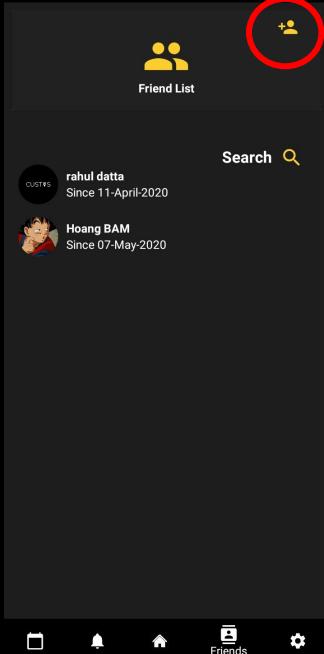


# Friend System

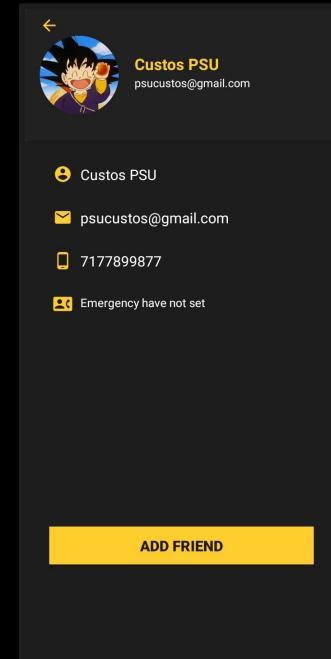
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Custos has implemented a friend system to provide a stronger network of security. Each user will have the ability to add or remove any other members in their friend's list.

# Adding Friend



search for contact



Click on '+' icon

click on 'ADD FRIEND'

# My Profile

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Custos let you fully customize your profile as much as you want such as changing display name and profile picture to show it off to your friends

Sylas  
rahuldatta.w@gmail.com

✉ rahuldatta.w@gmail.com

📞 3016551248

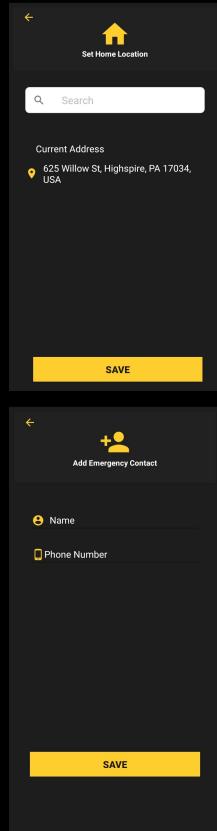
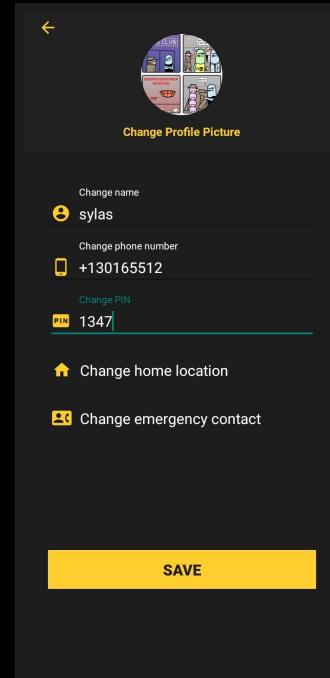
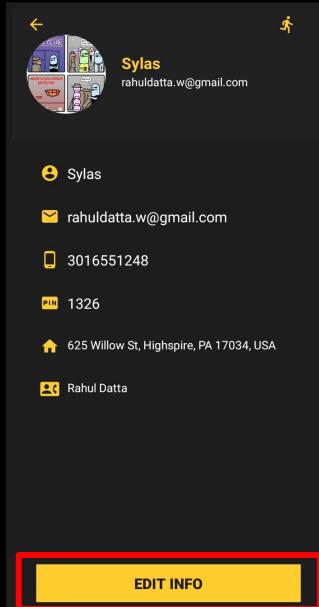
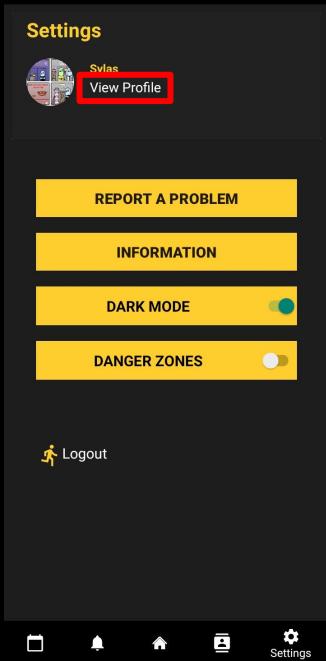
PIN 1326

🏡 625 Willow St, Highspire, PA 17034, USA

👤 Rahul Datta

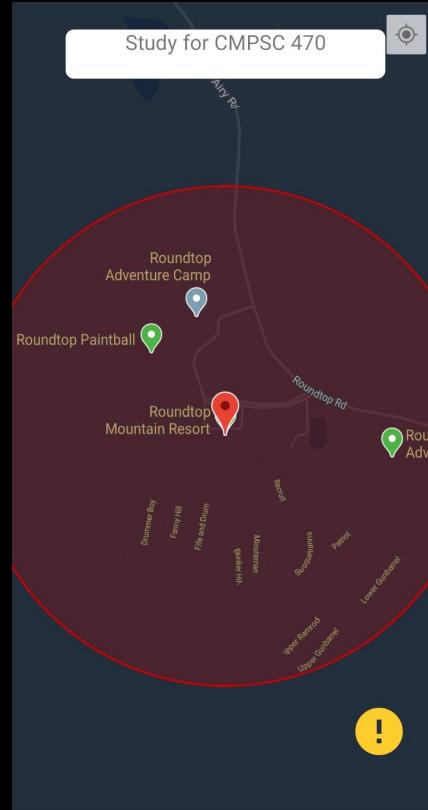
EDIT INFO

# Profile Customization



# Danger Zone

Our technical team has invented a reporting system that will identify hazardous areas. Each danger zone, will have a severity level to indicate the seriousness of a threat that it poses.



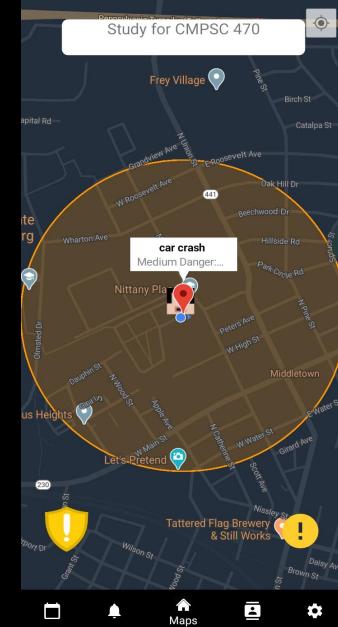
# Adding Danger Zone



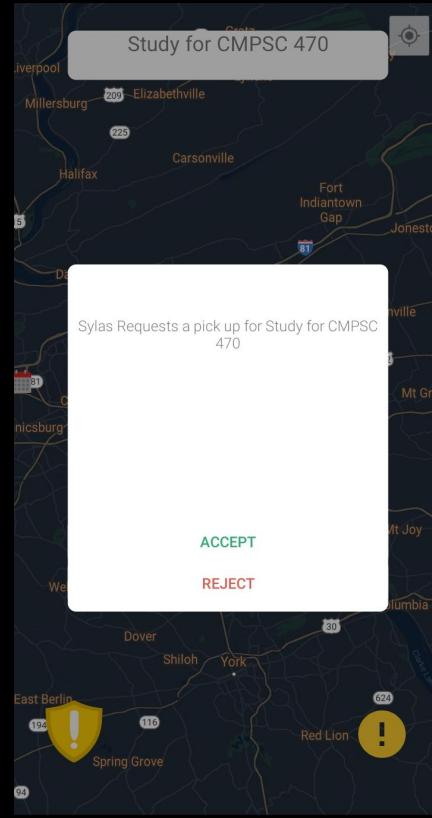
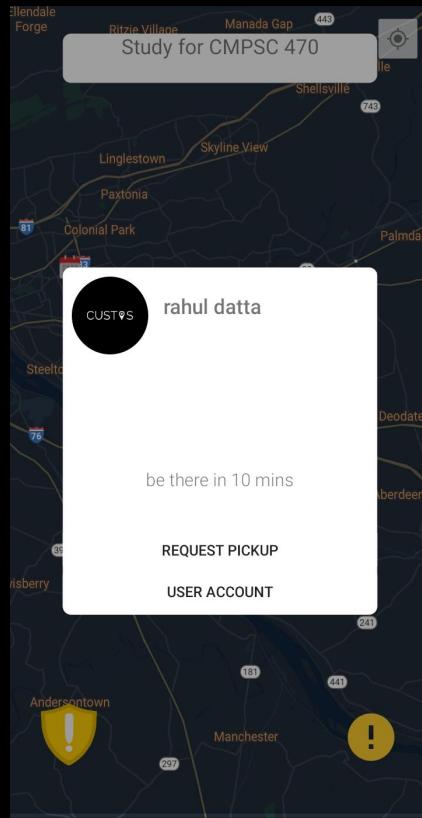
A screenshot of a mobile application interface titled "Danger Zone". It features a yellow exclamation mark icon at the top. Below it is the text "car crash" which has been typed into a search bar. Underneath the search bar is a "Risk Level" slider set to "Low". At the bottom is a large yellow "SUBMIT DANGER ZONE" button. The entire screen has a dark background.

Click on Danger zone icon

Fill out the form and click  
on 'SUBMIT DANGER ZONE'



Your Danger Zone will be on  
the map



# Pick Me Up

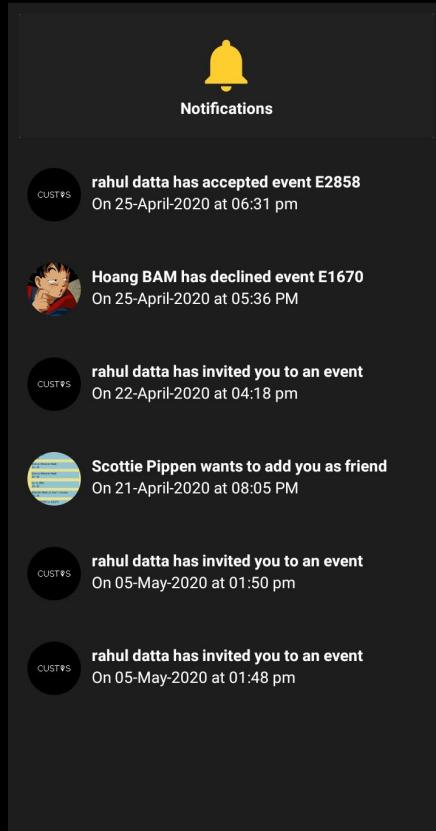
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In case you need a ride.

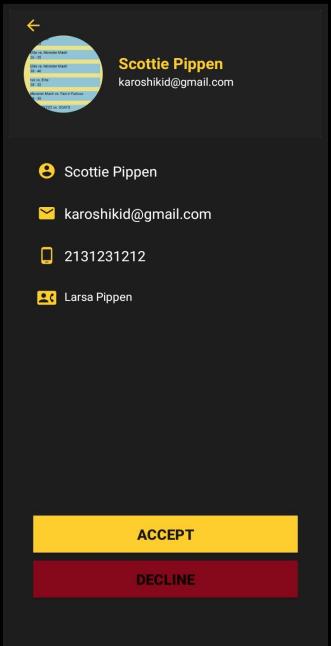


# Notifications

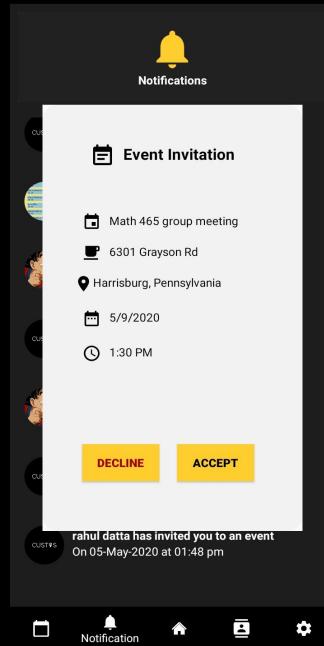
You will receive notifications from your friend to interact with such as friend requests, event invitation, event accept/decline, etc



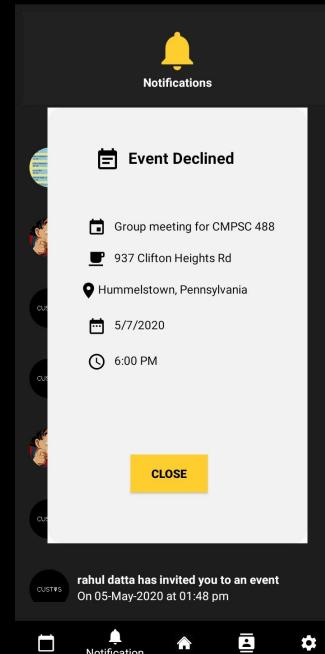
# Notifications



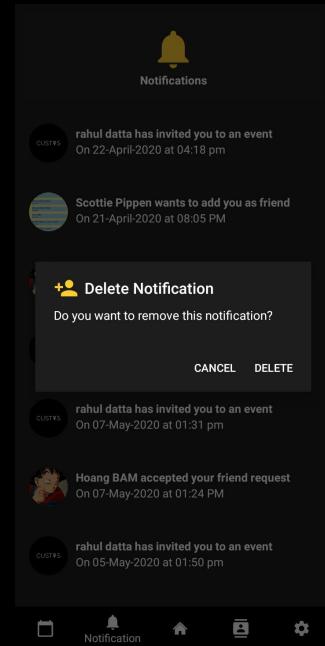
Friend Request Notification



Event Invitation Notification



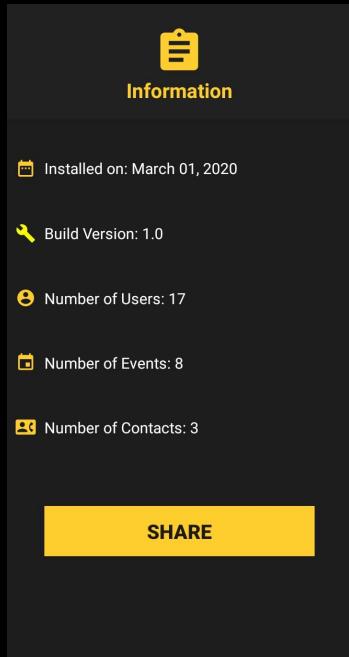
Event Declined Notification



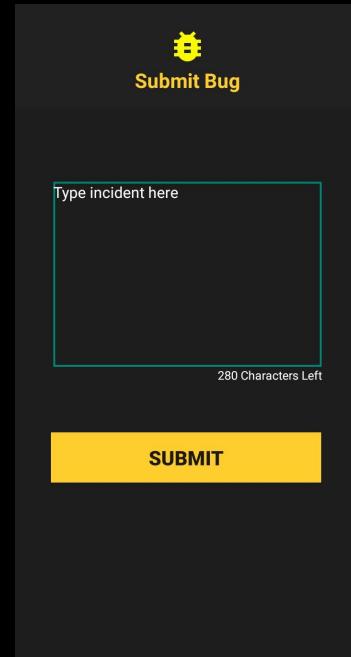
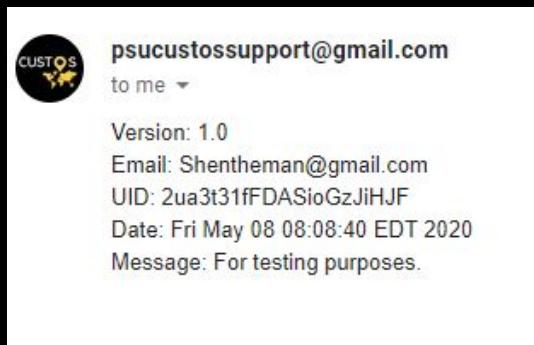
Delete Notification

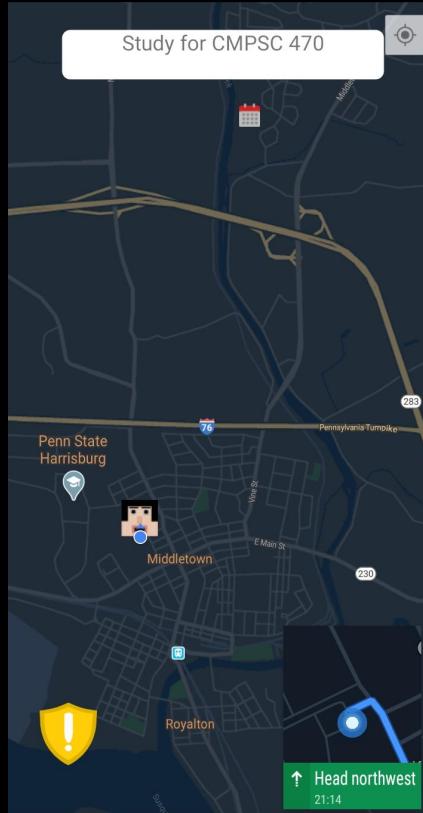
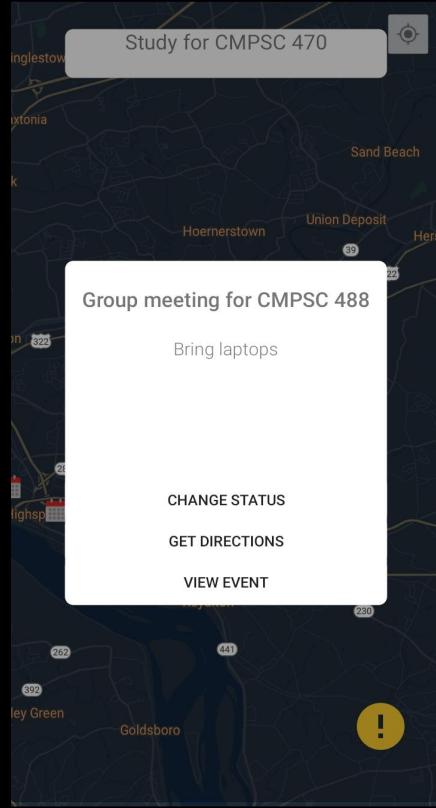
# Reports / Submit Bugs

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Custos has a reports page that contains a bunch of useful information for the user if they want to share it with either themselves or others. Also Custos has a submit bug feature if the user feels the need to share unpleasant accidents that has happened while using Custos





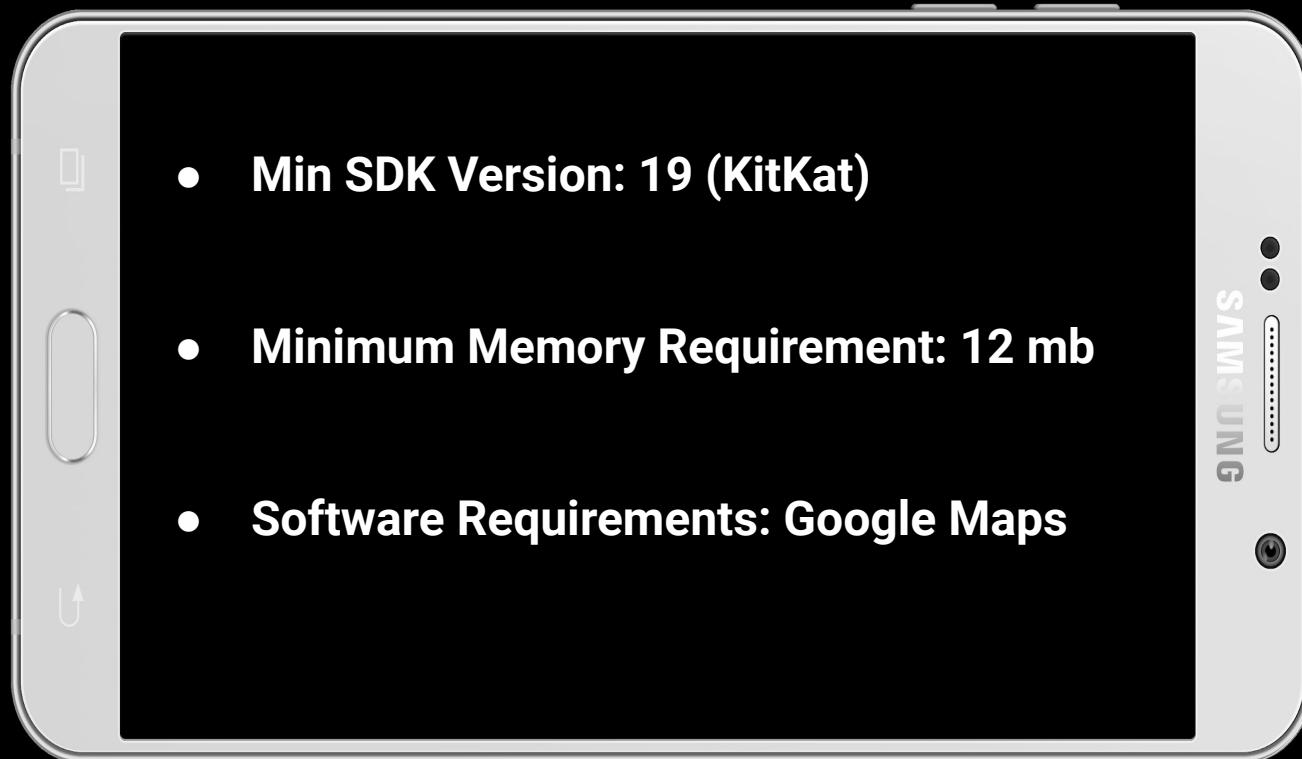
# Get Directions

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With our top of the line coding  
you can get directions on a  
single click

# Minimum System Requirements

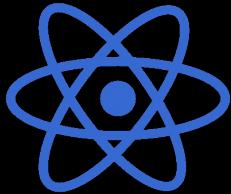
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- Min SDK Version: 19 (KitKat)
- Minimum Memory Requirement: 12 mb
- Software Requirements: Google Maps

# Custos' Future

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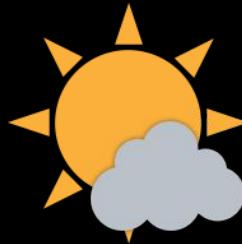
## React Application

Bringing Custos onto internet browsers for our supporters



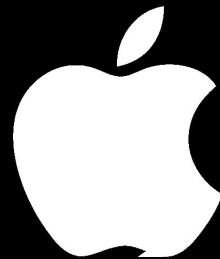
## Navigation

Custos will be creating navigation system using Google Direction API from within Custos



## Weather

We will integrate Weather API into Custos, so the user will have an idea when to depart to their event



## iOS

Custos will be planning on making an ios version for our apple enthusiast

# Problems & Issues

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- Initial Setup
- Google Maps API
- Database Design
- Real time location updates
- Danger Zones



# MEMBER ROLES

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**Full-stack Developer & Database Admin**  
Lead in Maps interaction and application architect



**Full-stack Developer  
Database Admin &  
UI/UX Designer**

Lead in Notifications, Friends System, User's Profile features implementation and Database Architect



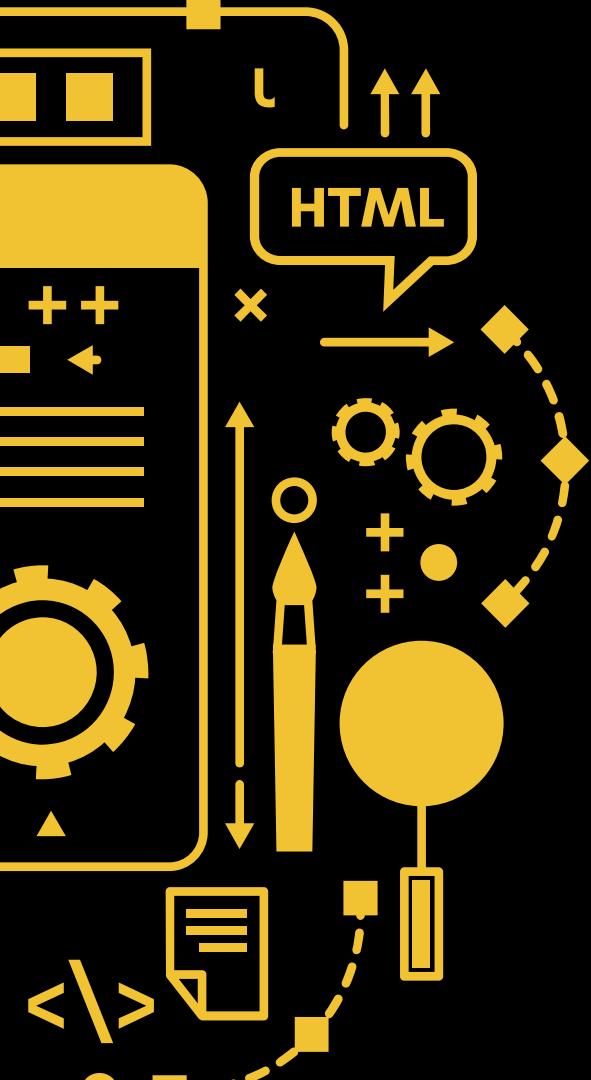
**SCRUM Master / Full-Stack**  
Lead in Event Feature implementation and weekly sprints



**Full-Stack Developer**  
Lead in danger zone and good looks



**Full-Stack Developer & QA**  
Lead in Design, Testing, Databases, and Additional Reports



# Thank You for Watching

Questions?

Advisor: Hien Nguyen  
psucustos@gmail.com  
<https://psucustos.github.io/custos/>