



# CUSTOS [ kuhs-tos; *Latin*

**koo s-tosh ]**

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# 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





detect . connect . protect

## 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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**CITIZEN**

## **Pros:**

- Web application
- Real time incident reporting

## **Cons:**

- iOS exclusive
- Non-event driven

# MVP

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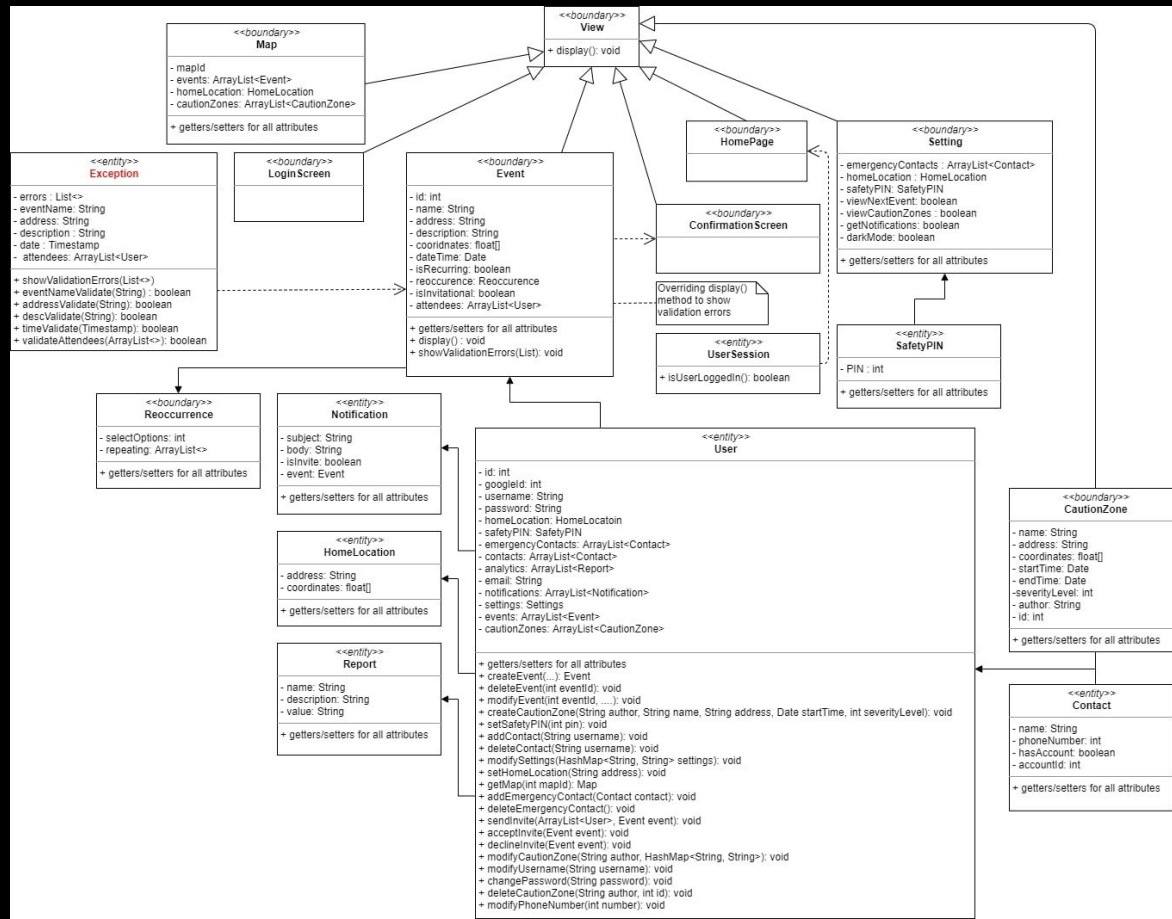
- Real time location tracking
- Real time incident reporting
- In-app contact list
- Events features
- Danger/Panic feature
- Interactive map

# **Academic and Theoretical Components**

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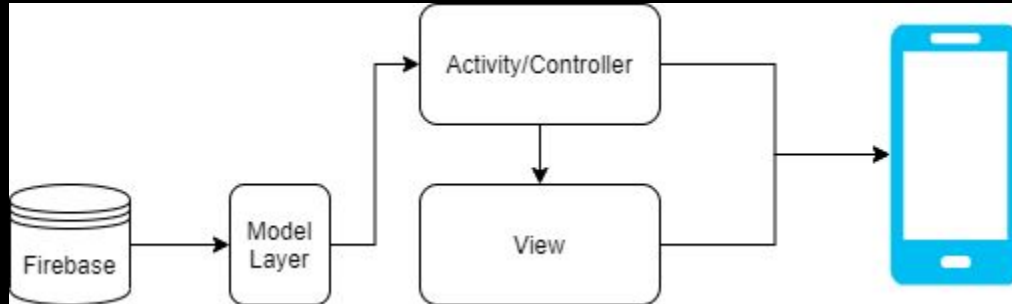
- **Data Structures**
- **Databases**
- **Application Programming**
- **Object Oriented Programming**





# Structure

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# Tech Stack

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## **FIREBASE**

Real-time Firebase  
Database



## **ANDROID STUDIO**

JAVA  
XML



## **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



Please sign in to begin



LOGIN WITH GOOGLE



Choose an account

to continue to Custos



**Rahul Datta**

rahuldatta15@gmail.com



**umm zot**

umm.zot@gmail.com



**Rahul Datta**

rahuldatta.w@gmail.com



**Ra Dat**

radatco@gmail.com

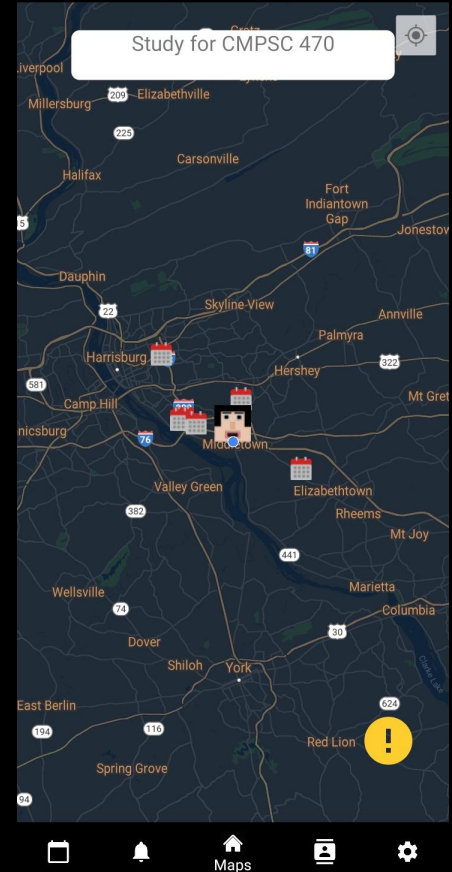
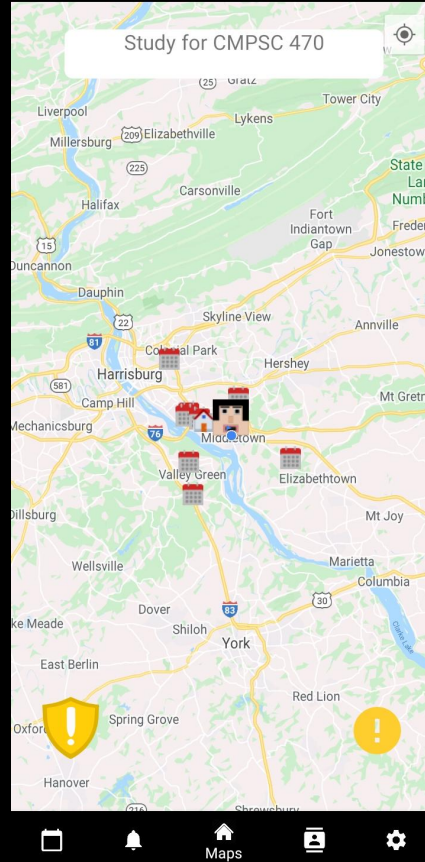


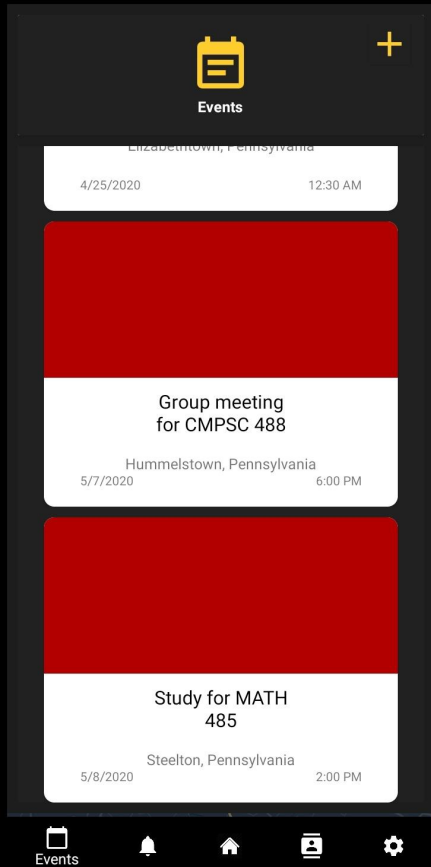
**Add another account**

To continue, Google will share your name, email address and profile picture with Custos. Before using this app, review its [privacy policy](#) and terms of service.

# 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.

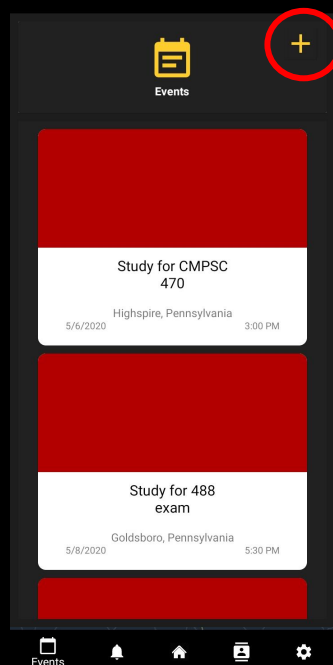




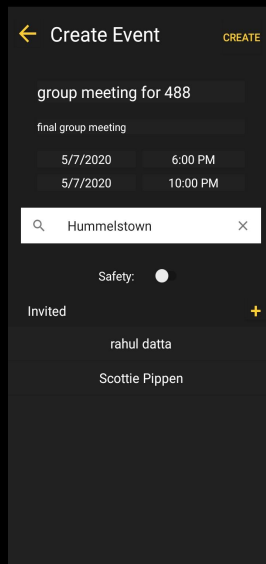
# Events

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

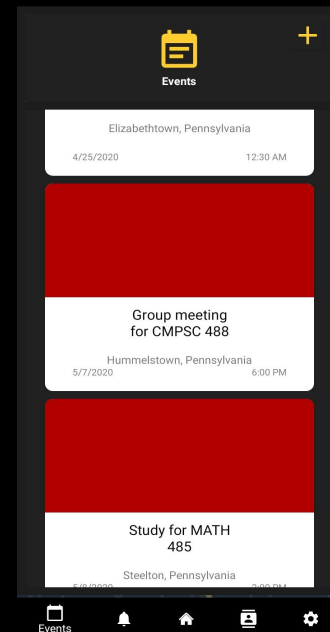
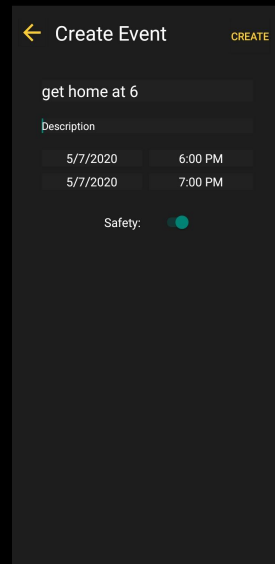
# Adding Event



Click on + icon

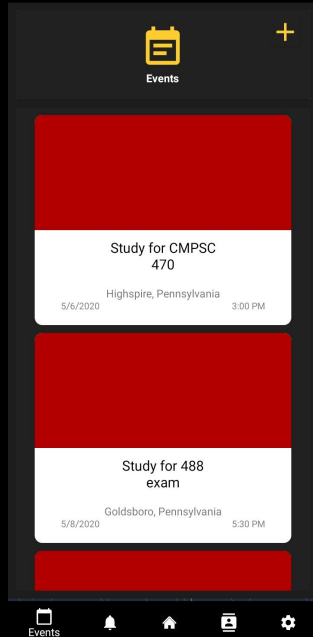


Fill out necessary  
information

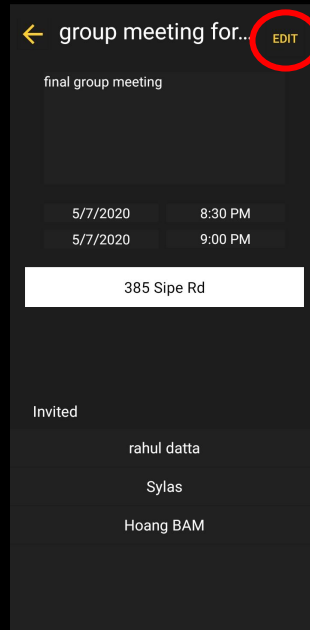


Event has been created

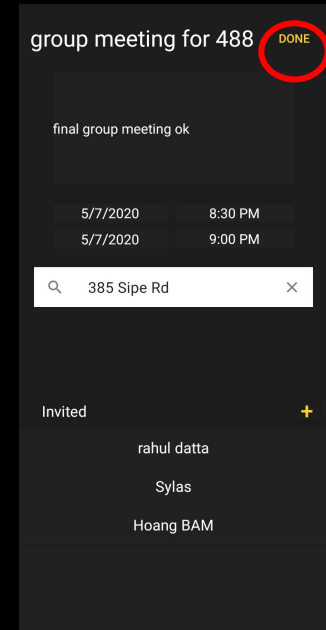
# Edit Event



Click on any Event



Click on edit in the top right corner



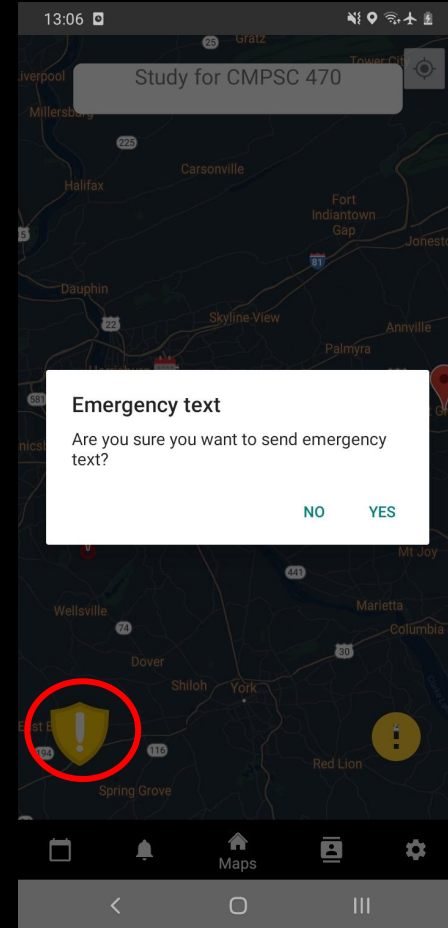
Make appropriate changes and then click on 'DONE'

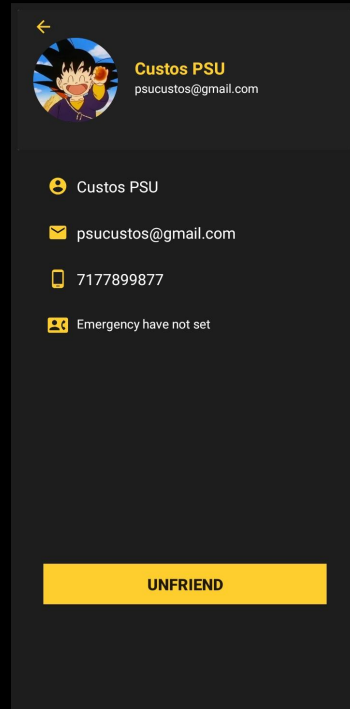
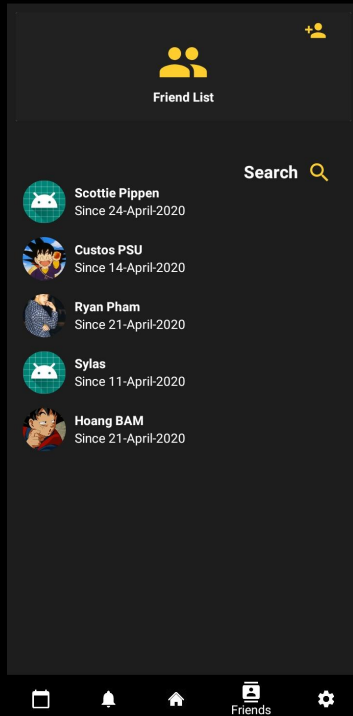


# Real Time Security

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

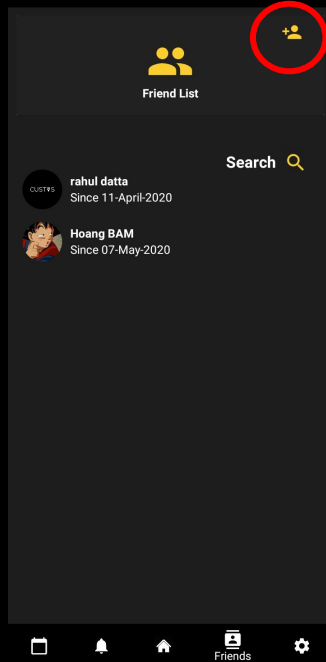




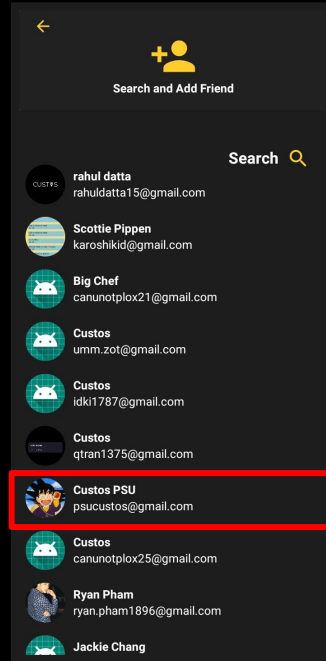
# Friend System

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.

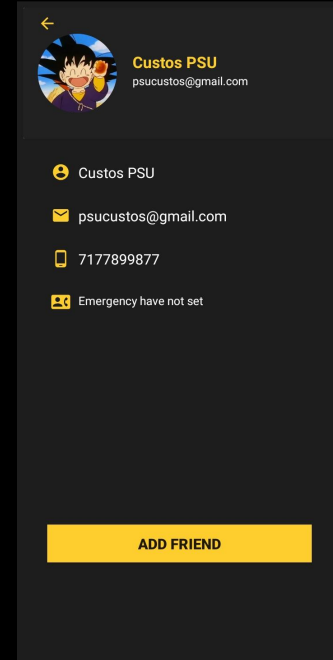
# Adding Friend



Click on '+' icon



search for contact






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


 Sylas

 rahuldatta.w@gmail.com

 3016551248

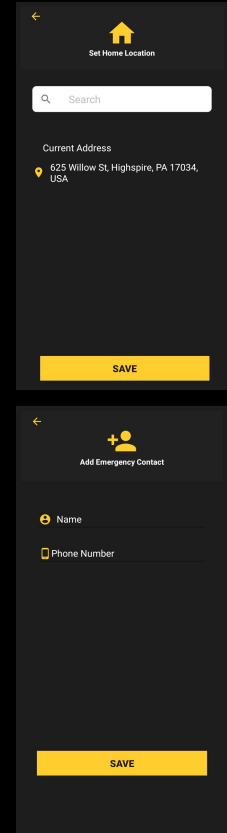
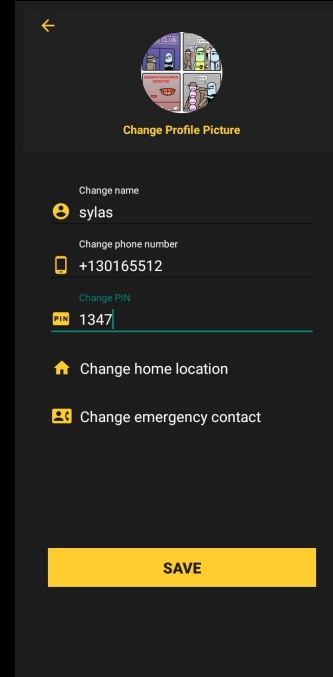
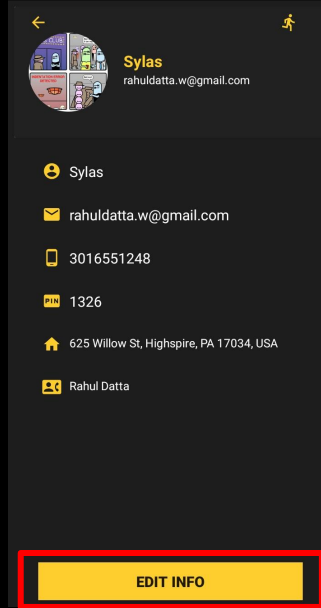
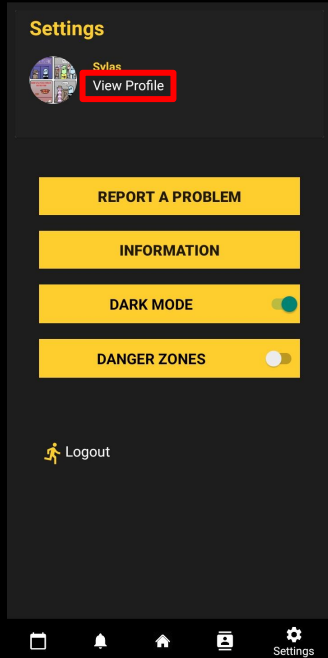
 PIN 1326

 625 Willow St, Highspire, PA 17034, USA

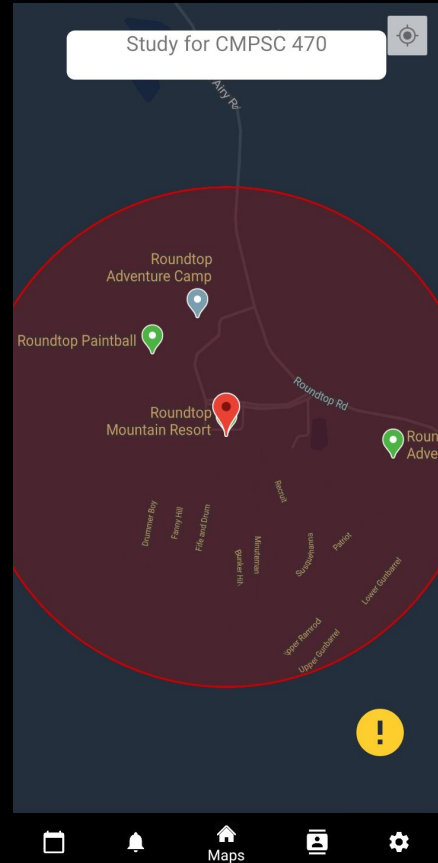
 Rahul Datta

**EDIT INFO**

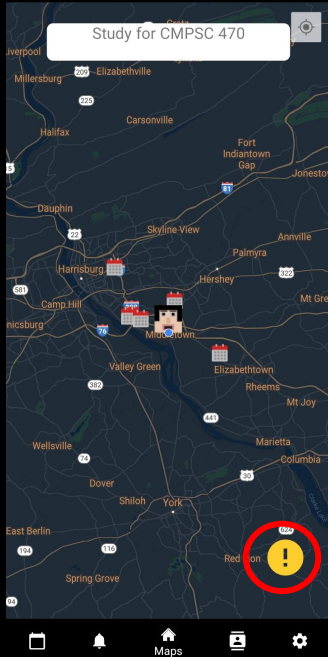
# Profile Customization



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.



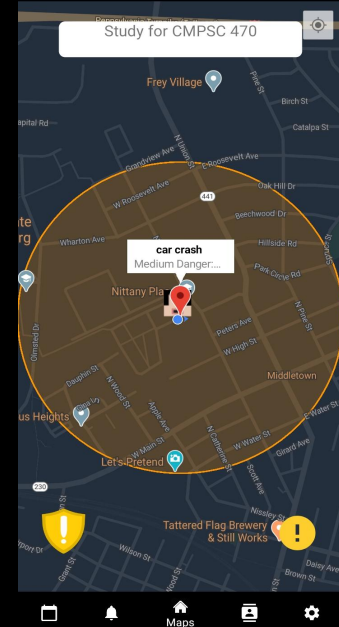
# Adding Danger Zone



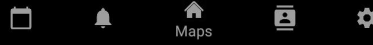
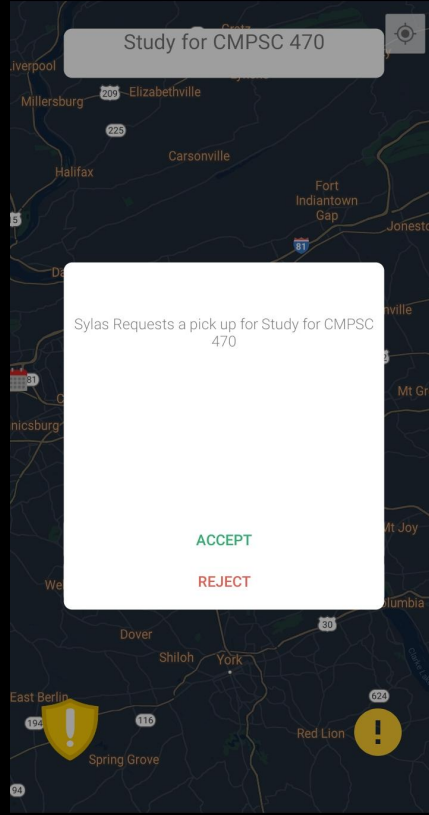
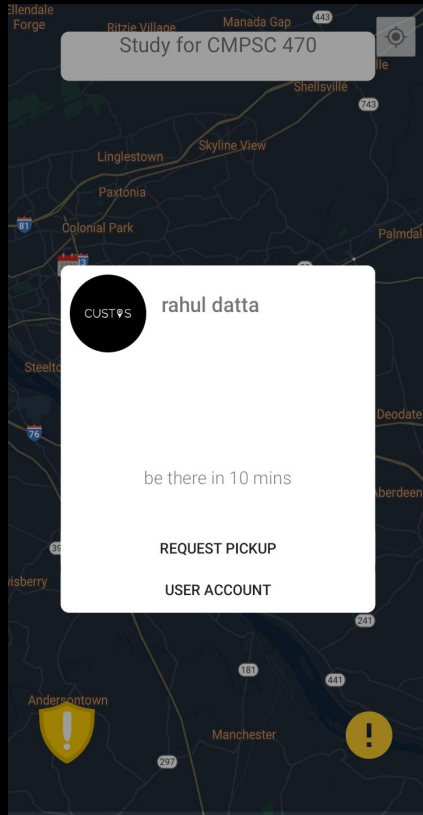
Click on Danger zone icon

A form for adding a danger zone. It has a title "Danger Zone" with a yellow exclamation mark icon. Below the title, there is a text input field containing "car crash". Below the input field, there is a "Risk Level" section with a yellow bar labeled "Low". At the bottom of the form is a yellow button labeled "SUBMIT DANGER ZONE". The form is titled "Study for CMPSC 470".

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



Your Danger Zone will be on the map



# Pick Me Up

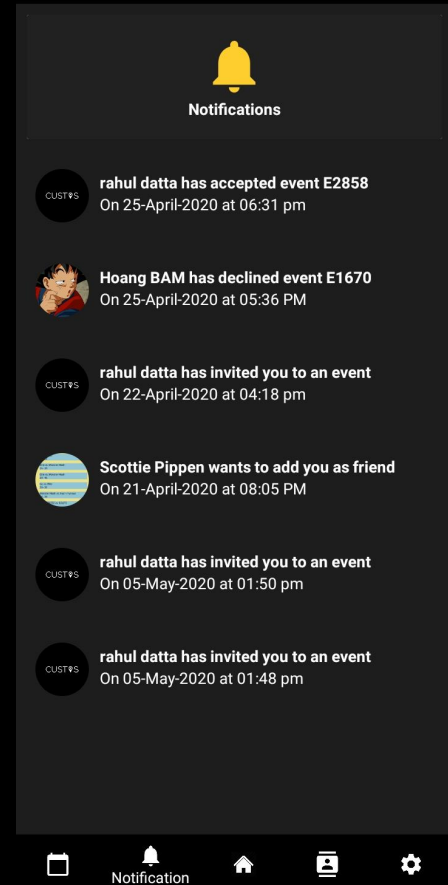
In case you need a ride.



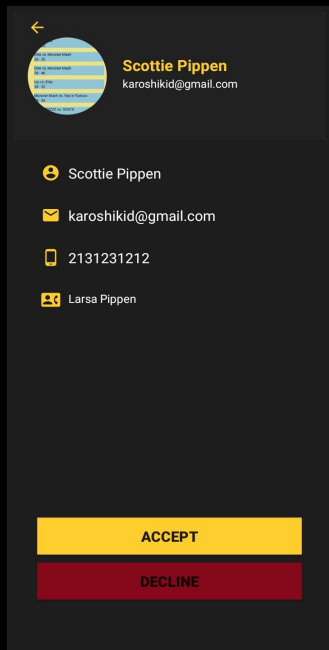
# Notifications

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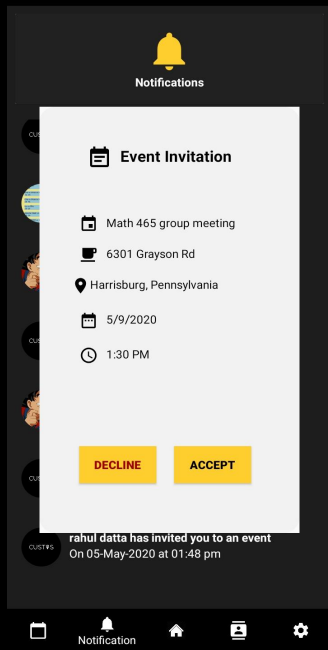
You will receive notifications from your friend to interact with such as friend requests, event invitation, event accept/decline, etc



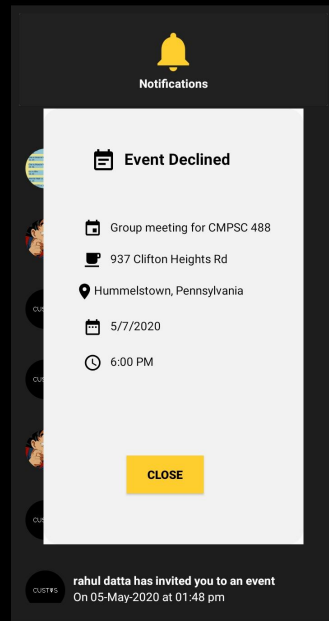
# Notifications



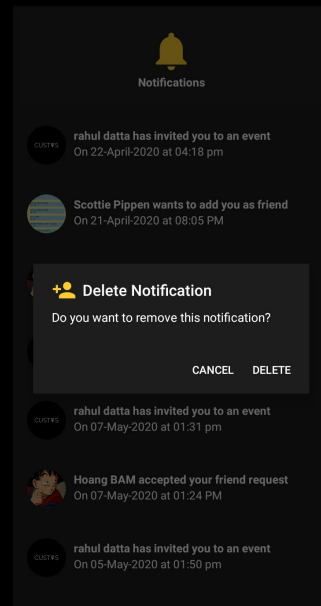
Friend Request Notification



Event Invitation Notification




Event Declined Notification





Delete Notification


# Reports / Submit Bugs





### Information

 Installed on: March 01, 2020

 Build Version: 1.0


 Number of Users: 17

 Number of Events: 8

 Number of Contacts: 3


SHARE

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



**psucustossupport@gmail.com**  
to me ▾

Version: 1.0  
Email: Shentheman@gmail.com  
UID: 2ua3t31fFDASioGzJiHJF  
Date: Fri May 08 08:08:40 EDT 2020  
Message: For testing purposes.

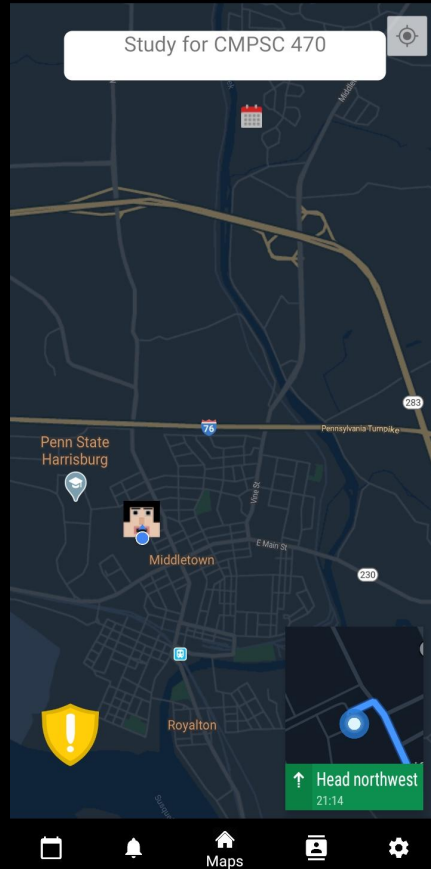
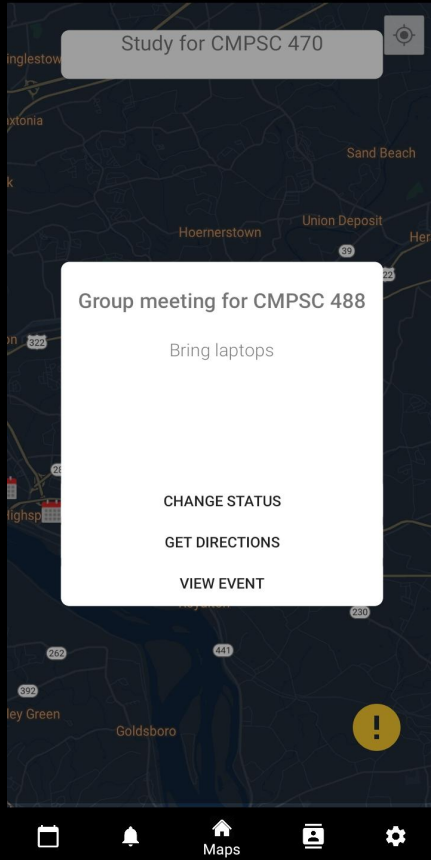


### Submit Bug

Type incident here

280 Characters Left

SUBMIT

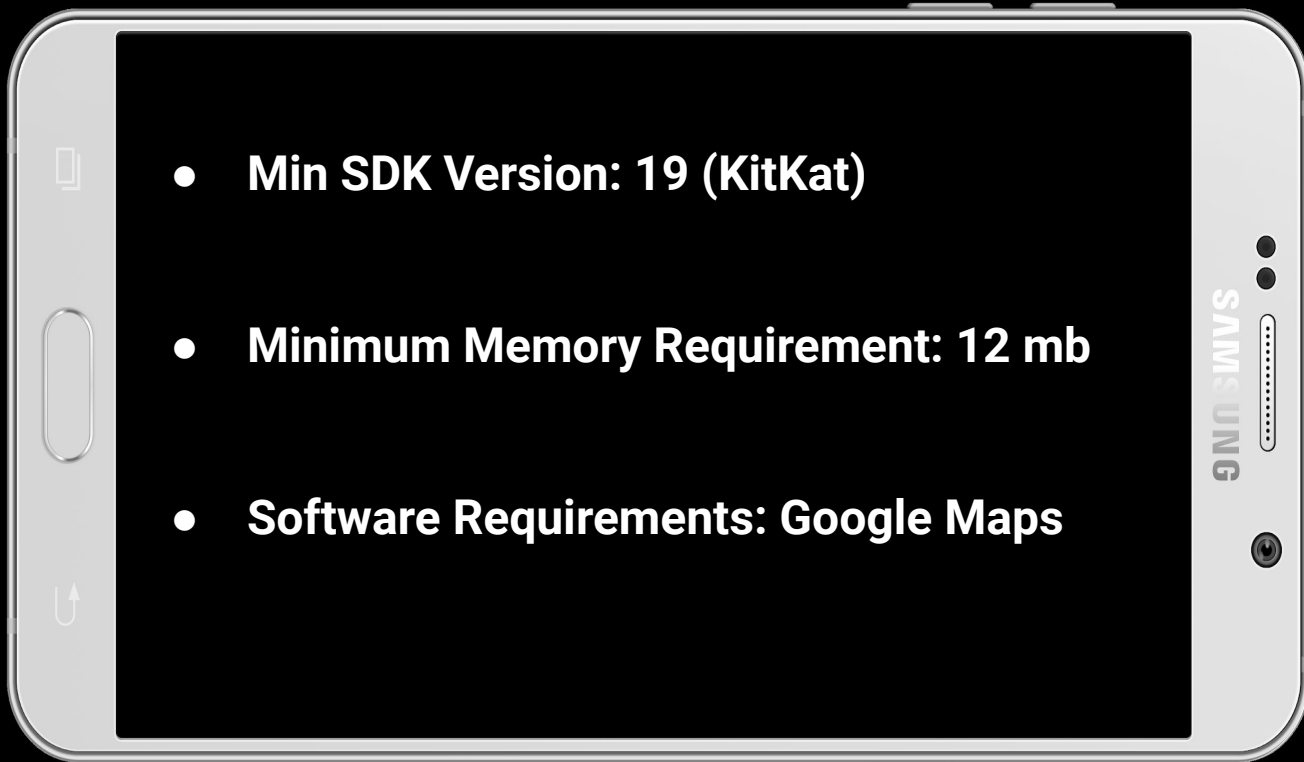


# Get Directions

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

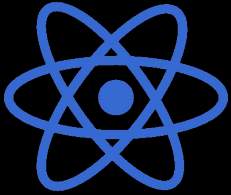
# Minimum System Requirements

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# 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



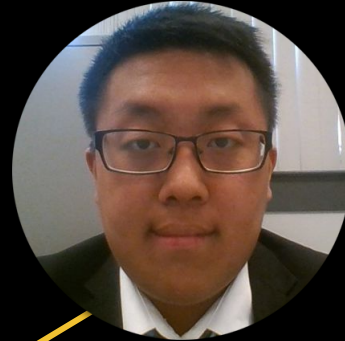
**SCRUM Master / Full-Stack**

Lead in Event Feature  
implementation and weekly  
sprints



**Full-Stack Developer**

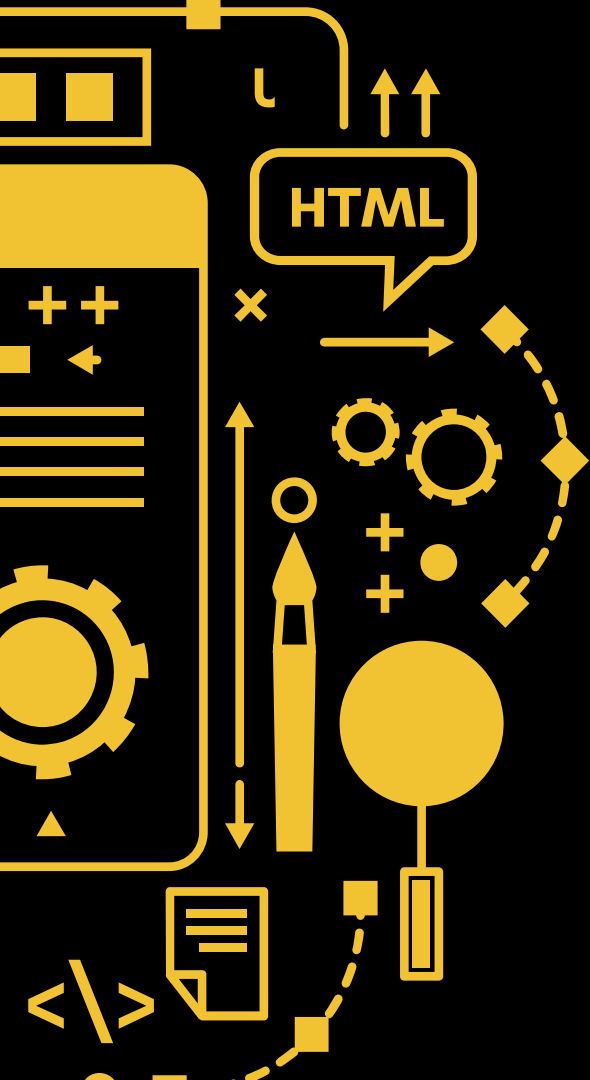
Lead in danger zone and  
good looks



**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/>