Skunk

A Location Sharing Safety App

Team Members:
Anant Goel, Don Phan, Jon Egeland, Joshua Selbo, Levi Heilman, and Sean McCullough

Problem statement:
There are many ways for a person to get home late at night such as walking, calling a taxi, or using a ridesharing app like Uber, but these are all inconvenient or dangerous in some way. Our Skunk app makes this situation safer by making it easy for someone to share their location with a trusted friend who can drive them home or at least track their location.

Objectives:
The objectives for this project are:
- Design and develop an iOS application to help users to share their location with specific friends who also have the app.
- Allow users to view the current location of the friend they are tracking with an embedded map view.
- Implement a backend service to receive and send updates to connected client phones.
- Develop all client-server interactions with security and privacy as a primary feature; ensure that all location updates are encrypted and only shared between consenting users.

Stakeholders:
The stakeholders of the project will be:
1. Our CS 408 team.
2. Target users (those who want to share their location with family, friends, and drivers).
3. Organizations like Mothers Against Drunk Driving that work to prevent drunk driving.
4. Civic organizations like local Police and Fire Stations which have public safety in mind.
5. Restaurants, stores, and shopping malls that want to improve their public image by promoting safe travels.

Deliverables:
We will create an iOS app using Swift with the location sharing functionality described in the Objectives section. We will also develop a backend server system implemented in Ruby which will facilitate the communication between the client apps.