

## 3.0 Project Proposal

### Description

Trailze is a software application that is accessible on smartphones and tablets. It is a live GPS navigation system, much like Waze, that can be used for outdoor sports such as: hiking, walking, running, biking, camping, etc.

The Trailze application has 2 main functions:

#### 1. Live Navigation

Be able to access the application on the trails or campsites you are visiting, using the live navigation feature to prevent making wrong turns and getting lost. Trail and campground information will be pulled from the TrailAPI API.

#### 2. Social Network Integration

Allow users to report incidents they encountered on these trails or campgrounds. They can warn other users if a part of a trail is closed, run-down, etc. or if they spotted bears, rattlesnakes, or other dangerous creatures along the way. It can also be used as an identification map, allowing the spotting of rare birds, other animals, plants, etc. to be shared with individuals who would be interested in going to a particular trail or campground for those reasons.

The end users of the application are those who are interested in outdoor activities. They can use Trailze on their hikes, walks, runs, camping trips, etc. to create a better experience. They can avoid the frustration and panic of getting lost, making incorrect turns, not knowing where to park, or running into woodland creatures.

### Justification

This project allows me to exercise the lessons and tools I have gained through my internship and throughout my education at Loyola Marymount University.

I will be implementing my frontend education, gained through Interaction Design, to create a user-friendly interface for the individuals who will be using this application. I will also be able to use what I have learned in Programming Languages, as I learn to develop in Swift for the first time.

This project leaves room for me to grow and learn, as I have never created a phone application before. I will spend time learning Swift, as well as a live GPS navigation system to help guide users through these trails in real-time.

I believe this is an application that I will personally use and can be used by several individuals with varying interests. It is a way to bring the community of hikers, campers, bikers, runners, etc. together to create a better trip and experience.