

# Project Documentation by Tom Peng

## Demo

A very short demo video is attached in this folder.

## Project

This project is implemented using Xcode 7.2 with iOS 9.2

## Testing

- Trip-logging associated events will be displayed in the console with ">>>" prefix.
- Values of trip-logging associated variables (speed threshold, idle time limit, etc) can be found on top of **Logging Manager's** implementation, they can be changed to fit different testing scenarios.

## View controllers

- **Onboard View Controller** serves as an onboarding experience and asks user for location access permission.
- **View Controller** displays logging history and has a control for switching on/off trip logging.
- **Trip Detail View Controller** displays detailed information for each trip.

## Trip Logging

- **Logging Manager** object takes care of location tracking, trip logging, and location access permission changes.
- **GeoCoder** object takes care for formatting each trip into readable data and visual images.

## Other Functionalities

- Persistent storage using Core Data
- Visual representation of each trip using MKMapSnapshotter
- Handling cases where location authorization status is changed by user
- Image Caching
- Autolayout

## Third Party Library

SDWebImage is used for caching map snapshot images.

## Objective-c

Eventually I decided to go with objective-c because my familiarity with it enables me to deliver high quality assignment and implement more features within the time line.