# **Week 2 Team Report**

### A. Team GeoUnity

#### **Team Members**

Bence Danko (Next Lead), Da Thao Trinh (Lead)

#### **Project Description**

Our project is a web based application. GeoAttendance leverages geofencing technology to enhance the accuracy and convenience of attendance tracking. Geofencing involves creating virtual boundaries in real-world geographic areas, only the users within thhe boundaries will be able to check-in. Upon checking-in, the users will receive an email which confirms their attendance status. Our website also provides real-time updates on attendance and historical attendance data as well.

#### B. GeoAttendance

https://github.com/bencejdanko/GeoAttendance

### C. Job Assignments

- Bence: Setup APIs, Backend work, Deployment & Testing.
- Da Thao: UX/UI Design, Frontend work, Deployment & Testing.

#### D. Milestones

#### Milestones:

- Milestone 1 (2/5 2/16): Initialize technology frontend, backend development environments.
- Milestone 2 (2/12 2/23): Build User API, UI for Login and Registration Forms.
- Milestone 3 (2/26 3/8): Implement Geolib library, UI for Attendance Check-ins & Testing.
- Milestone 4 (3/11 3/22): Implement Attendance API & Testing.
- Milestone 5 (3/25 4/5): Complete prototype & Testing.
- Milestone 6 (4/8 4/16): Deployment.
- (Stretch) Milestone 7 (4/17 End of semester): Integrate Facial Recognition Technology.

# E. Technologies Used

#### [Frontend] HTML, CSS, React, JavaScript

[Backend] Nodejs, PostgreSQL

## F. Algorithms/AI Schemes

GeoLib Library (https://github.com/manuelbieh/geolib)

# **G.** Market Space and Selling Point

- The application streamlines attendance tracking for professors and other hosts.
- Geomarking and online maps allows attendees to easily find meeting spots through their phone, without the hassle of going through manual instructions.
- An online application would easily allow the host to update events, or modify sign-ups. All attendees would simultaneously be able to track any changes or updates immediately, such as if a location were changed.
- (Stretch) Use facial recognition technology to improve the accuracy of the attendance tracking process.