## Leave A Message Requirements

## Business Requirements

**What is the purpose of the app or product? What are you trying to accomplish?**

Leave a Message will let users write and read messages left near their current GPS locations. This can help strangers and friends communicate through the internet but requiring physical movement and leaving the house. The messages can be helpful hints about the area, easter egg hunts, positive reinforcement, and whatever the User wants. The Application will let Users decide the limitations of these letters.

**What is the current problem(s) it will solve?**

The problem of society being anti-social. Its becoming harder to meet new people and current solutions like Meetup are trying to solve this.

**How will it streamline or improve the current process or facilitate a new process?**

The application will let people talk to strangers without feeling uncomfortable. They will explore the city and share knowledge. It will grow the community as a whole.

**What is the product vision?**

Letters are being left all over cities that help others find places, words of encouragement, tell funny jokes, easter egg hunts, and whatever else human beings can think of. The product should make it fun to interact with others again and break down the social barriers we put up. It should also help people connect and make friends.

**What aspects are already in place? What needs to be added? Will the app need to be started from scratch or can you leverage existing assets?**

The app will be needed to be done from scratch. I will use an existing tool from AWS to create a Database online. Which still needs to set up manually.

**What should the app be able to do (ie. functionality)?**

The application will be able to

1. Leave and Read Messages from the user’s GPS location.
2. Present a Map of the current User’s Position.
3. Allow the User to View Messages Nearby
4. Allow the User to save, categorize, comment, reply, edit, re-read and report messages.
5. Login Authentication

**What features will it need?**

1. Able to click Button on map to Add or Read a Message
2. Google Maps to present Location and messages
3. Messaging other users and Adding Friends
4. Persistent data online and on phone.
5. Google and Facebook Sdks used to log in

**What is the monetization or business model?**

Connect people in real-life and have them use this app to meet new people or find new things about a certain location when they travel.

**Are there branding and design guidelines that need to be followed?**

Design Guidelines should follow Google Material Design for Android

**Is the ask feasible?**

Very.

## Product & Technical Requirements

**What platforms will the app be built for (iOS, Android, etc)?**

Android with the server hosted using Amazon’s AWS.

**What are your current services, servers, databases?**

Servers and Database is located on Amazon’s AWS. Native Android App will have a SQLite Database.

**What are your maintenance needs? Do you need to support it for the future?**

Bugs and fixes will be need to be maintained. Feature adding and reporting inappropriate messages will be needed to monitored by community and administrators. There will also need to be updates to fix user’s abusing the application with multiple posts, etc. Databases, and Api will also need to be maintained for any additional features.

**How long should the app function before an overhaul is needed?**

App will be need to go under a revision when pictures and audio are included. If the Application scales, a new Database system may be needed and optimizations will need to occur.

**Do you have current API/services documentation?**

The Node Js API will be documented under Documentation/API/messageAPI

**Do you have current Apple, Google, or other developer accounts/credentials?**

User’s will need either Google or Facebook to sign up

## Dependencies

**Hardware that the app will run on/communicate with (for example, beacons)**

Android Phone is needed to run the Application.

**Service/API documentation**

AWS RDS DB, Custom Node js API Documentation under Documentation/API/messageAPI

**Profile/account/platform credentials**

Google or Facebook Authtifcation

**Any third-party software your app relies on**

AWS

**Any flowcharts, documents, or information related to the product**

UI Mockup will be under Documentation/UI/MockUps. Software Architecture will be under Documentation/SoftwareArch/UML. ReadMe will be under Documentation/ReadMe.

## Constraints

The app will need to be finished before **May 24th 2018**. TDD, Agile, and MVP/MVVC will be the main strategies used to build this application. Use of the knowledge of the class from Udacity Android Applications will be extended in the use of this application. There may be use of 3rd party libraries used in the future and documentation will be updated to reflect these changes.

#### General Assets

**Icons of supported sizes (iOS: @1x @2x @3x images | Android: mdpi, hdpi, xhdpi, xxhdpi)**

Will be updated shortly.

**Splash screens of supported sizes (iOS: @1x @2x @3x images | Android: mdpi, hdpi, xhdpi, xxhdpi)**

Will be updated shortly.

**App descriptions in required languages**

English will be supported only, until I do everyone in my family a favor and learn Spanish.

**List of supported devices and OS versions**

Android Version Minimum will be updated shortly.

Google Play(Update After first Iteration of App)

* **Google Play Developer access**
* **Store listing name**
* **Paid/free**
* **Short description**
* **Full description**
* **App icon (512×512)**
* **Feature Graphic (1024×500)**
* **App type**
* **App category**
* **Content Rating**
* **Contact Email**
* **Privacy Policy**
* **Screenshots (correct sizes based on devices)**