

COMP 3004: Deliverable #4

“BEACON”

Development Team:

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Implemented Functionality / Final Demo

The following list outlines all of our implemented functionality that was also proposed in the *Project Proposal* (Deliverable 1). This will all be outlined in the final application demo.

REQUIREMENT #1: “BEACONS” THAT BROADCASTS A USER’S LOCATION

The key functionality we proposed for Beacon was the ability for a user to easily share their location with their friends using “Beacons”. Beacons are broadcasted in following ways:

1. Public Beacons. Beacons that anyone can see and follow
2. Private Beacons. The ability to send Beacons to one or many of your friends directly.

REQUIREMENT #2: GPS LOCATION GUIDANCE

Beacon uses GPS real-time GPS functionality that allows users to have an on-screen pointer that guides them to other Beacons.

REQUIREMENT #3: FRIENDS LIST

A Beacon-User has a list of Friends that they can send Beacons directly. The user has the ability to search for other users and send Friend-Requests to them. The other user can either accept or decline this Friend-Request

REQUIREMENT #4: CHAT FUNCTIONALITY

A Beacon-user can send direct text messages to their friends.

REQUIREMENT #5: LIST OF NEARBY PUBLIC LOCATIONS

A list of nearby public locations is provided where a user can choose to set up a beacon, such as a restaurant, art gallery, or museum.

REQUIREMENT #7: FOLLOW-LIST

Users have a list of Beacons they are currently following. These Beacons can be selected and tracked.

We were able to complete all of the functional requirements we outlined in our proposal. Furthermore we were able to implement the additional features that are outlined in the following section.

ADDITIONAL FEATURES

ADDITIONAL FEATURE #1: PHOTO-SHARING

Users are able to take a photo of where they are and attach a photo to their Beacons. Users who follow their Beacons will be able to see these photos.

ADDITIONAL FEATURE #2: VIEW YOUR BEACONS

We surprisingly did not include a requirement for users to view the Beacons that they themselves had sent out. For example if “User A” sends out a Private Beacon to “User B”, “USER A” can view this Beacon, see who is following it and furthermore delete it. Public Beacons are just listed as “Public Beacon” as each user can only have one Public Beacon broadcasted at a time.

ADDITIONAL FEATURE #3: LOCATION GUIDANCE TO NEARBY LOCATIONS

A user can select any of the nearby-locations and track them using the location-guidance without having to set-up a beacon.

DEVELOPMENT LOGS:

Development logs can be found here: https://github.com/NolanHodge/COMP3004/tree/master/weekly_logs

DEMO VIDEO:

<https://www.youtube.com/watch?v=-tRMzxHVr00&feature=youtu.be>