Comp-3004 Deliverable 2

Application Name: Beacon

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Demo:

For the demo, two devices with **Beacon** installed on them will be needed. The two devices will be denoted as *Client A* and *Client B*. A demo of most of the application's functionality can be carried out as follows:

Part 1: Adding a Friend

Client A will use the user-search functionality to find Client B. Client A will then proceed to send a friend-request to Client B. Client B will accept the friend request. Both users will have the other user in their friends-list.

Part 2: Sending a Private Beacon

Client A will navigate to their friends-list activity and click on Client B's username. Client A will then proceed to send Client B a Beacon. When the notification pops up on Client B's device, Client B click on the notification and accept Client A's Beacon. Client B will be taken to the Compass activity and the arrow will point to Client A's location. Client B will then return to the Map activity and Client A's location will be displayed on the Map activity. Client B will click on this Beacon and a dialog will appear prompting Client B to track this location. Clicking TRACK will take Client B back to the Compass activity.

Part 3: Creating a Public Beacon and Attaching a Photo to a Beacon.

Client A will navigate to the Camera activity and take a picture of their location. Next Client A will click and hold on a location on the map. A dialog will appear asking Client A if they would like to create a Public Beacon. Client A will accept, this Public Beacon will be broadcast to all Beacon users. Client B will navigate to the Public Beacons activity and click on Client A's username. Client B will be asked if they would like to follow Client A. Client B will accept then navigate to their Beacons activity. Upon clicking on Client A's username they will be taken to the Compass activity. Client B will click on the Photo Button and will be able to see Client A's photo that was just taken.

Part 4: Nearby Locations. Request a Beacon

Client A will briefly show that Public Beacons can also be created at Nearby Locations. Client A will then navigate back to the Friends activity and send Client B a Beacon Request. Client B will accept the request and Client A will be prompted to follow Client A.

Part 5: Instant Messaging

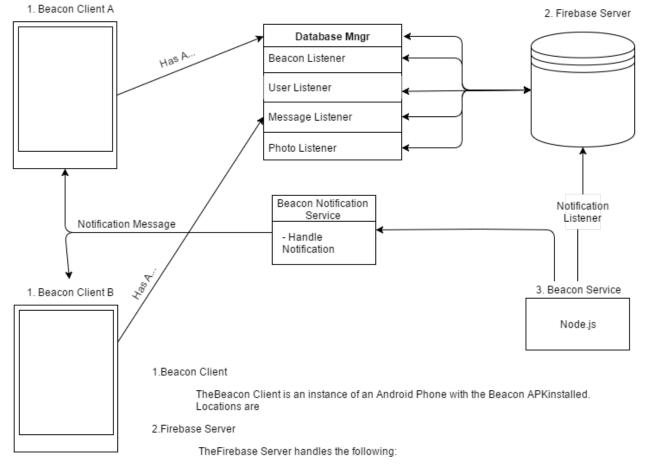
Client A and *B* will demonstrate the straight-forward messaging capability by sending messages back and forth.

Status Report

All main functionality that we outlined in our proposal is done for project the next few weeks of development will be solely dedicated to debugging, testing, UI upgrades and increasing the overall robustness of the application.

Current Difficulties:

- Crashes, the application is still a little unstable and crashes when inconsistent data is written to the database.
- Making the application more user-friendly; several changes need to be made to do this. There needs to be ways for a user to delete their own beacons, view there own beacons in an affective way as well as making the GUI easier to navigate and prettier.
- Small bugs that interfere with the overall experience. Such bugs include Beacon Photos loading twice and sometimes not at all, the Message activity reloads when a message is received etc.



- Database
- Authentication
- Photo-Sharing

3.The Beacon Service

The Beacon Service is a small Node.js service that handles all themessaging between phones. When a new notification is present in thedatabase the Beacon Service will send the notification to the correctphone. The notifications are received by theBeaconNotificationService on the Client and the appropriate messagehandling is instigated.