From: **Simranpal Bains** sp.bains@fremtidmedia.com
Subject: Re: Buy Advisor Groups - Proposed Solution
Date: November 28, 2018 at 6:13 PM America/Los_Angeles
To: Wasek Habib wasek.edu@gmail.com
Cc: Abbasali Kermali abbasalikermali@gmail.com, Kyle R kyrenzie@gmail.com, Reza Afzali reza.afzali@fremtidmedia.com

Hi Wasek,

I understand how you plan to do this. However, for both the cases you need to track the user until he is on the bus. That is not very efficient way of doing it.

Let's consider this scenario: It's 3pm and user is in UBC library and he plan to board 6pm bus for downtown, Kelowna. He opens his app and sign up for the notification. Now you have to either track him full time or at certain interval, in order to know his location and send notification. And that will lead to extra load on your server, GPS, data and battery. Also, GPS doesn't work good inside the building and I'm not sure about inside the bus.

Here is how you can get benefited from beacons (low energy devices), because that's what they are for. Think of them as a switch or trigger. Having beacon on the bus stop will help you, when to send the notification. When user arrives on the bus stop, his app will automatically receive notification from the beacon and that will be forward to your server, notifying you user is at the bus stop. No need to track the user. You can also set the user distance from bus stop, when this is triggered, by adjusting the transmitting power of the beacon. And same can be done inside the bus.

I think adding two beacons (at bus stop and inside bus) will be very helpful in your project. Plus you don't have to totally rely on the GPS. For tracking bus location, GPS is better choice. That way you don't have to deploy beacons along the hwy/streets.

Regards,

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Simranpal Bains
Manager
Fremtid Media Inc.
Phone: +1 (778) 323-8620
Website: www.fremtidmedia.com
Email: sp.bains@fremtidmedia.com

> On Nov 27, 2018, at 18:59, Wasek Habib <wasek.edu@gmail.com> wrote:
>
> Hi Simran,
>
> 1. We will get the the gps coordinates for the user and the static bus stop geo coordinates will be stored in the database. If a user's location who's tracking a bus matches with the bus stop location, we can tell he's waiting at the bus stop.
>
> 2. We will send the user location to the small board computer or some kind of data that indicates the user is on the bus (user and bus location matched) EE team can process it to turn off the light sensor.
>
> We are tracking user location only if they are tracking a bus. GPS doesn't use too much battery life. Hope this makes things clear!