From:	**Kyle R** kyrenzie@gmail.com	
Subject:	Fwd: Buy Advisor Groups - Proposed Solution	
Date:	November 20, 2018 at 7:41 PM America/Los_Angeles	
To:	mattdeleeuw@hotmail.com, trevorg@hotmail.ca, inioladosu@gmail.com	

Forwarded Conversation
Subject: Buy Advisor Groups - Proposed Solution

From: **Simranpal Bains** <sp.bains@fremtidmedia.com>
Date: Thu, Nov 15, 2018 at 8:17 PM
To: Kyle R <kyrenzie@gmail.com>, Wasek Habib <wasek.edu@gmail.com>
Cc: abbasali kermali <abbasalikermali123@hotmail.com>

Hi Guys,

I see the project has changed a lot since you guys started working on it. Specially, the beacons are only one-way communication devises. Good job figuring out.

We can't tackle the problem same way as before. Therefore, we are proposing a different solution which is within the scope of this project and will help you achieve your goal. Also this project is no more cellular data free. User will need cellular data/internet to use the app, since beacons don't trace/collect user information. Let me know what you thing about it.

Attached to this email is a diagram explaining how our proposed solution works. You don't have to exactly do the same. You can come up with your own solution, as long as it works. Let me know if you have any questions or concerns. Please come up with a solutions by coming Monday. I will schedule a call with you either for Monday or Tuesday to further discuss the same.

Good Luck,

Simranpal Bains

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

From: **Wasek Habib** <wasek.edu@gmail.com>
Date: Sun, Nov 18, 2018 at 5:50 PM
To: <sp.bains@fremtidmedia.com>
Cc: Kyle R <kyrenzie@gmail.com>, abbasali kermali <abbasalikermali123@hotmail.com>

Hi Simran,

Thanks for the solution proposal. I have attached some of my concerns/comments with the email. Please have a look at them when you have time.

Cheers,
Wasek

From: **Wasek Habib** <wasek.edu@gmail.com>
Date: Sun, Nov 18, 2018 at 5:51 PM
To: <sp.bains@fremtidmedia.com>
Cc: Kyle R <kyrenzie@gmail.com>, abbasali kermali <abbasalikermali123@hotmail.com>

P.s. you will need to open the pdf in acrobat reader to read the comments.

From: **abbasali kermali** <abbasalikermali123@hotmail.com>
Date: Sun, Nov 18, 2018 at 6:11 PM
To: Wasek Habib <wasek.edu@gmail.com>, sp.bains@fremtidmedia.com <sp.bains@fremtidmedia.com>
Cc: Kyle R <kyrenzie@gmail.com>

Hello all,

Simran, Could you please send all email to abbasalikermali@gmail.com because I think there seems to be a problem with this mail box.

Thank-you for your findings Wasek, we were experiencing road blocks as well. Could Fremtid provide a clear cut scope of what exactly needs to be done by the engineering team now that the scope has changed and other alternative methods have been introduced, just so we all have the same picture and goal.

Kind regards,

Abbas

From: Wasek Habib <wasek.edu@gmail.com>
Sent: Sunday, November 18, 2018 5:50:17 PM
To: sp.bains@fremtidmedia.com
Cc: Kyle R; abbasali kermali
Subject: Re: Buy Advisor Groups - Proposed Solution

From: **Simranpal Bains** <sp.bains@fremtidmedia.com>
Date: Sun, Nov 18, 2018 at 8:31 PM

Hi Guys,

I understand the scope keeps on changing every time we hit a hurdle. I'm trying my best to keep the scope same and still successfully finish the project.

Please the attached files for all your concerns and let me know if you have more questions.

Regards,

Simranpal Bains

Manager
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Phone: +1 (778) 323-8620
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Email: sp.bains@fremtidmedia.com

From: **Wasek Habib** <wasek.edu@gmail.com>
Date: Mon, Nov 19, 2018 at 11:09 PM
To: <sp.bains@fremtidmedia.com>
Cc: Abbasali Kermali <abbasalikermali@gmail.com>, Kyle R <kyrenzie@gmail.com>, Reza Afzali
<reza.afzali@fremtidmedia.com>

Hi Simran,

Thanks for the clarifications! Your proposed solution is definitely a way to do it. However, is there any reason we do not want to go with the proposed solution by the COSC team earlier?

Please find an updated version of the proposed solution by us attached. I tried to avoid any technical terms, but please let me know if you have any questions/concerns. I have replied to some of your questions/concerns on the comment doc- please have a look at that too!

Please note that we have a hard deadline with Scott tomorrow at 5:30pm, where we have to show him the latest requirements and scope changes. After that we can not change any project requirements and scope.

Thanks,
Wasek

From: **Wasek Habib** <wasek.edu@gmail.com>
Date: Mon, Nov 19, 2018 at 11:25 PM
To: <sp.bains@fremtidmedia.com>
Cc: Abbasali Kermali <abbasalikermali@gmail.com>, Kyle R <kyrenzie@gmail.com>, Reza Afzali
<reza.afzali@fremtidmedia.com>

One more thing, I just realized after all the scope changes our app does not compete with Google maps as we are not using any of their features to compete (i.e. static bus schedule). Is it okay to use it for the project as it's more stable than Here maps and has more resources and active community online?

Hi Wasek,

I'm sure Reza have already clarified on this that we can't use Google Maps for this project because of the legal issues. You can use any other open source maps which you see fit. However, personally I think Here Maps is better option than other available.

Just to make things clear, our proposed solution is only to help to guys to come up with a better solution. We don't expect you follow exactly what we propose. Just want to guide you so that we all are on right track. By the way, thanks for sharing the detail solution. This is first time we are looking at it. Pervious file that Reza shared was just an overview of this.

- Is there any reason we do not want to go with the proposed solution by the COSC team earlier? We don't have problem with this, wasn't clear before. Your proposed solution looks good, however there is small problem with how you have your gateway setup. See below.

- The circle is the gateway range and gateway can be placed in somewhere in the middle of two bus stops. EE team is responsible for placing and configuring the gateway and beacons so I will leave it to them to place the gateway in an optimum location. I guess you already know that gateway has range of up-to 50 meters. Using gateway to collect information is good idea. Practically we can't install Gateway at each and every bus stop. In real world environment we can't provide power and internet at all the bus stops. Cost is too high, this won't be feasible. You will have to come up with a better solution for collecting information……….. But what if you have gateway installed in the bus (but then problem will be how you provide power and Internet)? This way you can track the bus and collect information at same time. Let me know what you think about this.

- Beacons are used where GPS fails. Beacons and GPS are substitutable technology. I am not sure if we use a separate GPS tracking board, what is the point of using beacons? We are using the user location using GPS anyway, same thing can be done with the bus. As you already know beacons don't share information with each other. Question arises: How do you plan to send this data to server. Gateway has range of 50 meters, if bus is out of this range you won't be able to get it's location. If you are using users phone to collect data that will increase Internet charges and draining more battery from user's prospective. And what if there is no user on the bus.

- We were under the impression that we only have 1 type of user (name it regular/physically impaired) in the project based on our conversation with Reza. I will talk to Reza regarding this. For time being you can have one user type.

Regards,

Simranpal Bains
Manager
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Website: www.fremtidmedia.com
Email: sp.bains@fremtidmedia.com

Attachments:

[FM Solution.pdf](#) (190.61 kB)
[FM Solution.pdf](#) (209.53 kB)
[Comments.docx](#) (13.47 kB)
[FM Solution.pdf](#) (521.66 kB)
[Possible Solutions.docx](#) (335.5 kB)
[Comments.docx](#) (300.39 kB)