Project Status Report #1

Team: Warriors
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project: life-saving aid

Overview on the progress:

Today is the end of the third week since proposal. According to proposal document, the first two week is for studying android app development and researching on topics such as device tracking, message sending through the phone; The third week is for UML design and splitting the work. Unfortunately, we are a bit behind schedule since we have not yet design ULM. However, we will still start on coding on the 4th next week as we planned in the proposal. We already have UI designed on paper, therefore, the job for next week is to have UI done on mobile and able to demonstrate it, so we can be ready for the prototype presentation which is coming up the week after reading week. Also, we will meet up with TA next Thursday to talk more about our project,

Problems encountered and solutions:

On the end the second week since proposal, we heard from professor that our project not good enough in term of the project complexity, so we emailed and communicated with TA on how the improvement can be made (a part of reason why the UML is delayed).

In our original proposal, our app can track device location, sends location among with user's possible critical health condition by texting to other people's phone number. However, the person who received the text message and decide to take action must have legit first-aid certificate, also, sending everything through text message may be not an efficient way of communicating in case of emergency. Our solution is to add three more extension.

First, instead of sending health record through text message, now we allow user to share health record with each other by incorporating the functionality of the social app into our device. For Example, if user A update his health record on his device, User B will able to see User A's update when B open the app.

Second, Our app will interact with Google map. An "tracking" button will be added to our app. This button will trigger app to find current device location, plus the location received from the victim, then open up Google map with both location ready for navigation.

third, we are not only allowing user to edit their own health record as mentioned in the proposal, but also we support user to pick emergency tip from first aid dictionary

and use this tip as the template to build their health record. The purpose is to provide better user experience and also make our first aid dictionary more than just a dictionary.

Besides the designing problem above, the present technical challenges is the disability to translate our visions into actual android code. Our group members have very limited exposure to android development environment. The majority of online android development tutorial only provide a limited aspect of android function development, thus, it is very hard to build a bigger picture through different tutorial source. We currently try to get a general understanding of how android structure works. In android studio is very difficult to combine different android activities together.

Plan for Future:
The two new extensions from the above will change our project completely. Although we have not yet design UML, we have UI designed and UML can be build from UI.
Based on the functionality of our app, the new project can be split into 4 activities:
1. UI and first aid dictionary
2. Cell phone tracking
3. Information sharing across network (social media app functionality)
4. Interacting with third party API (Phone, Messages, Google Map)

As we mentioned on proposal, we planned to start coding and testing on week 4 (reading week) and continue for following 5 weeks. Our prototype presentation is on Friday after reading week (week 5). We plan to finish activity 1 and UML as a group during reading week, and may be half week of week 5 if more time is require. Then each team member can take on one of the remaining activities to do. (4 or 3 weeks in approximation) Finally, all activities will be merged together on the last week.

Acknowledgement:
we want to give acknowledgement to another app--First Aid by the Canadian Red Cross. This app is our source of inspiration and can be find in App Store. The app is designed to teach people how to response to common emergency situation, and also for certificated fist aider in case of needing a quick lookup. Our emergency tips will be directly quoted from this app.