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FitSpeak

Vision:

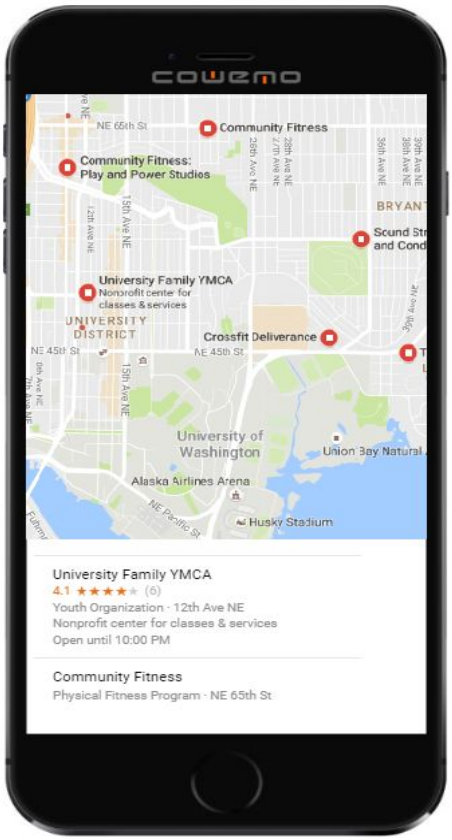
FitSpeak is a mobile app which enables users to not only track their progress and log their stats, but also allows them to share these easily with other people in their gym so that they may get feedback on their workout routines and eating habits. The user can keep track of their calories burnt and create goals and routines and compare this with other users of the app.

It will provide a map for locating gyms and other places near you. For each place you can find reviews, list of equipment, products they sell, and chat too. You can share your routines that you recorded and ask for feedback and advice. The user can also choose to remain anonymous in these questions.

This product is aimed at new gym goers so they can seek help from more experienced ones as they can post their routines and get feedback on it quickly and also find good gyms nearby. More experienced users will find the offline capabilities like calorie counting and routine planning to be very useful too.

The problem we want to solve is that there is a lack of apps that helps new gym-goers who do not have time to research about efficient routines and find good gyms, so this app lets them ask questions to more experienced users at the gym they go to so that they can get into working out more easily.

As just mentioned, there are apps that help count calories and also review sites that help users find gyms, but in terms of combining both the user and the gym, there are not any that we could find. So this is what makes our app novel. In terms of competition with other apps, we would make it free and also since we think it's unique it would not have that much competition initially.



Software Architecture:

We plan it to be on mobile phones so the software would run on either android or ios. There are three main components to this app which are: the online side which links the gym and the user and stores data,, the offline side (for calorie counting and routines and the user interface), and also the map interface which connects our map of gyms with the user. For each user we would store their stats and routines both on their device and online, where we can pull their information and update this on a web server. For each gym its data and forum backend also be stored on a web server. The third component, the map interface, would use a maps api like google maps and when the user selects a gym, this information is sent as a request to the online social side and so the web server for the gyms would just deliver data back to the user after receiving this request.

For the functionality, the offline side of the user interface and calorie counting and creating workout routines would not be too difficult to implement and also storing this data and pulling data from the servers we think would also not be difficult. However, what we think is technically challenging and not easy to implement would be the map interface since have the following problem: should we initialize every gym and park initially in our web server or should we wait until a location has been accessed once to then create its entry in our web servers and database. If we choose the former, this will take extra time since we would have to link our online side with the map and may risk running over schedule, and the second option may be slow for some unfortunate user and may not be too easy to implement.

Challenges and Risks:

The most serious challenge we see is that: linking together the map interface and the ui may be difficult if we are not very experienced with using such an api. Thus we would minimize this by developing the user and the social side together, with using test fake gyms. Then the rest of the effort would be into getting the map interface linked with the user and also initializing the real gyms on our web servers.