1. Introduction

There are always going to be some risks of building collapse wherever we are in this world, e.g., earthquake, explosion. Once a building collapses, rescue teams have to immediately search for survivors. Currently, there are several ways that rescue team can operate, such as using thermographic camera or snake camera to detect under rubble; using rescue dogs to detect human scent. However, these methods have some limitations, for example the equipment is very expensive and scarce.

PULSE is a system designed to address these problems by encouraging community to pro-actively participate - in exercising and social gathering. User can earn 'Health Pulses' (HPs) through participating in the programs offered by Health and Sports Association. Whenever user signs up and participates in the exercise program from Sports Association, a certain amount of 'Health Pulses' (HPs) will be credited to the participant's account. The more exercises the user has participated, the more 'Health Pulses' (HPs) he/she will earn. User can then make use of the 'Health Pulses' earned to pay for medical bill, game ticket and sports items.

2. System Summary

PULSE is a mobile application. It shows and gain your HPs on it. To gain HPs, users need to join sports program so the application also show Health program and Sports Game List.

Firstly, the system show you the health state of the user according to his/her health programs and other social activities attended for the week. Bar graphs of two months with weekly hours will be displayed (Figure 1).

Secondly, the Health Programmes option will display the health programs and activities put up by Sport and Health Association as well as authorized merchants. All these programs and activities are free for community to participate. 'Health Pulse' units will be credited upon the attendance of each session on the program or activity (Figure 2).
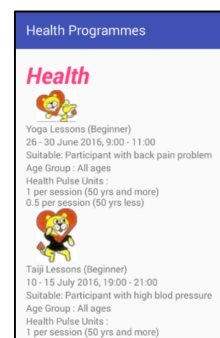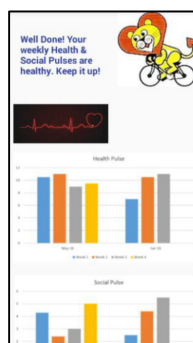

Figure 1: MyPulse   Figure 2: Health Programmes

Thirdly, the system has Current Games option (Figure 3). It will display a list of current or coming game matches. User can upload any photo taken during the match for sharing as well as having a live chat with the game match watchers. For users not at the live match can also chat and view the photo/image uploaded to social media (e.g. Instagram, Facebook) by the audients at the match. This will create the vibrancy of the game match.
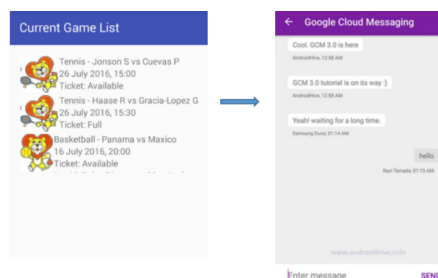

Figure 3: Current Game List UI Image

3. Conclusion

PULSE is a mobile application which encourages community to pro-actively participate –in exercising and gathering. User can get information about exercise programs and sports matches and our HPs will motivate them to join that.