**HARDWARE INTERFACES**

* Maybe smartwatches or smartphones with a wifi/Bluetooth connection?

**SOFTWARE INTERFACES**

1. Google maps to send the position of the user for the SOSs
2. Google maps to select the track for the run and to show the position of runners

**2.2. Product functions**

Summing up the goal of the application, the functions that TrackMe offers are the following:

1. Data collection people for third parties;
2. Assistance for people;
3. Organization of running events.

2.2.1. Data collection for third parties

This is the basic function of the system. It actually consists in two different functions.

The first one permits a third party (an association, an hospital, a company, and so on…) to ask for the data of a single user. More in detail, the third party can select a user by his/her SSN and send to him/her a request to be allowed to access his/her data. If the user accepts it, then the third party will receive his/her data. The user can decide to deny the permission at any moment.

The second one permits a third party to access anonymized data of a group of users enrolled in Track4Me. After a third party sends this kind of request by specifying some restrictions about users’ features, the system will collect the data of the target users, anonymize them and send them to the third party as soon as the number of users is greater than 1000. (Da controllare quest’ultima parte)

2.2.2. Assistance for people

The system keeps under control the health status of a user by monitoring the values of the health parameters acquired by external devices (smart watches, …). If at least one of the parameters goes under a fixed threshold, the system generates an SOS within 5 seconds starting from the moment of the evaluation of the dangerous parameter. The SOS communicates to the ambulance the position of the user by sending an SMS with all the details needed. It is supposed that the ambulance should reach the position of the user as soon as possible even if this is not under our control.

2.2.3. Organization of running events

This function is also actually split into two diverse functions.

The core function is the possibility offered to a third party to organize a running event. The third party must specify the timing, the track and the maximum number of participants for the run. Once the run is available on the application, the user can select it and participate by sending a simple request.

The secondary function permits a user to track the position of the runners involved in a run. The user can check the list of available runs and, after selecting of among them, he/she can watch the map of the track filled up by points representing the runners in their actual position.