**Definitions, Acronyms, Abbreviations**

**Definitions**

* TrackMe: is an application which serves to third parties to monitor the location and health status of individuals.
* Data4help: is a service to access to the data of some specific individuals and to access to anonymized data of groups of individuals to the third parties.
* AutomatedSOS: is a service which provides monitor the health status of the subscribed customers and controls some parameters by comparing with a certain threshold.
* Track4Run: is a service for organizers to define the path for the run, for participants to enroll to the run, and for spectators to see on a map the position of all runners during the run.
* Individual: the person who wants to benefit from the service by sharing their profile, health, location and chronic disease data.
  + Profile data: profile data is information that identifies the person. It contains name, surname, SSN, e-mail, phone number, address, gender, birth date, nationality, weight and heigh.
  + Health data: data measured by sensors such as pulse, pressure in the environment and acceleration is in this group of data.
  + Location data: location data is received through the GPS sensor.
  + Chronic disease: is disease that persists over a long period of time.
* Organizer: is a person who arrange runs and define paths
* Smart device: the device that should be present on the individual for the necessary measurements. This device must be connected to the internet while on the individual.
* Smart phone: the electronic device that contains our application that must be kept in connection with the smart device.
* Bluetooth (Wi-Fi): The person's smart device is connected to a smartphone via bluetooth.
* Runner: An individual user who registered to run as an athlete.
* Ambulance: The vehicle to be sent by the hospital to the person's location when the measured values fall below a certain threshold.
* Hospital: An institution or a third party in which persons agree to share their information and health status. It is also obliged to send an ambulance to the position of individuals when necessary.
* Active: The status of hospitals when they serve.
* Deactive: The status of hospitals when they do not serve.
* Spectator: People coming to watch the run, audience.
* QR Code: Before the start of the run, code that is read into the system by spectators at the entrance, to be able to follow the runners on the map.
* Sensors

1. Pulse meter: A sensor that takes the pulse accurately.
2. Accelerometer: A sensor in mobile phones are used to detect the orientation of the phone.
3. Gyroscope: A sensor that adds an additional dimension to the information supplied by the accelerometer by tracking rotation or twist.
4. Barometer: A sensor is used in meteorology to measure atmospheric pressure and forecast short term changes in the weather. Atmospheric pressure also varies with elevation, a barometer can also be used as a basic altimeter.
5. GPS: A sensor that ensures that the person's position is correctly received.

References:

* <https://www.gsmarena.com/glossary.php3?term=sensors> (for definition of accelerometer)
* <https://medium.com/@aurelie.lebec/triggering-an-event-on-phone-movement-react-native-and-expo-32e55a4e184c> (definition of gyroscope)
* <https://en.wikipedia.org/wiki/Barometer> (definition of barometer)
* <http://www.idph.state.il.us/idhp/idhp_ChronicDisease.htm> (definition of chronic disease)