**Scenarios**

* Join a run as a runner
* Join a run as a spectator
* SOS launched
* Individual request: positive
* Individual request: negative
* Anonymous request: positive
* Anonymous request: negative

**Scenario 1 -** Join a run as a runner

Mario is a sporty student who hears about a run organized by PoliMi Sport and would like to join it. PoliMi Sport is an association registered to TrackMe as a third party with the aim of guaranteeing the good health status of the enrolled students and proposing them new races every week. The unique way to join the run is to send the request to PoliMi Sport through the TrackMe app, so that Mario decides to download it and sign up to the services Data4Help and Track4Run. After that, he logs in with his credentials and looks for the run he is interested in. Once found, he asks to join that as a runner and at the same time accepts the treatment of his health status and location data by PoliMi Sport, the third party who organized the race. The system checks if the number of participants is not exceeded and if Mario has not already joined an overlapping run, then notifies Mario with a positive or negative result.

**Scenario 2-** Join a run as a spectator

Luca is a professor who is fond of running and after a lecture hears his students talking about a run organized by the student union Poli4Run. It is an association registered to TrackMe as a third party with the aim of guaranteeing the good health status of the enrolled students and proposing them new races every week. He is very interested in the race joined by their students and he would like to go and see them competing, so Luca asks them for information and decides to follow their instructions. At first he downloads the TrackMe app and then he signs up to the service Track4Run. After that, he logs in with his credentials and looks for the run he is interested in. Once found, he asks to join that as a spectator. The system checks if the number of spectators is not exceeded and if Luca has not already joined an overlapping run, then notifies Luca with a positive or negative result.

**Scenario 3**- SOS launched

Elena is an old woman who had heart disease in the past so she would like to be daily monitored to avoid problems. Her young nephew tells her about the TrackMe app, through which she could fulfil her needs. Delighted by this kind of solution, she decides to buy a smartwatch and download the app. Then she signs up to the services Data4Help and AutomatedSOS and accepts the treatment of her health status and position data. One day, after having climbed the stairs, the app retrieves the data from her smartwatch and evaluates them as exceeding the danger thresholds, so that within 5 seconds the SOS is received by the medical facility that sends an ambulance to the position detected by the woman’s wearable device.