POLITECNICO
MILANO 1863

TrackMe project - Argiro Anna Sofia, Battaglia Gabriele, Bernardo Casasole

Requirement Analysis and Specification Document

Deliverable:	RASD
Title:	Requirement Analysis and Verification Document
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Version:	1.0
Date:	27-October-2018
Download page:	https://github.com/BernardoCasasole/ArgiroBattagliaCasasole.git

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1 Introduction

1.1 Purpose

1.2 Scope

The service Data4Help is designed to monitor the location and health status of individual registered to it using wearable devices. Upon registration the users agree to the acquisition and usage of data by TrackMe. The collected data is available to third parties to request after registering to Data4Help. The first possibility is requesting data on a specific individual, for which it is required an identification of the user; The second possibility is accessing anonymized data on groups of users, so the system will have to allow third parties to filter the users by age, geographic area, weight, etc. while keeping the data anonymized. For both possibilities third parties can simply acquire the data stored or subscribe to receive the data as soon as it is produced. AutomatedSOS is a service designed to provide emergency health support(?) for elderly people, to integrate on top of Data4Help. Those users parameters about blood pressure, heartbeat and blood oxygenation are constantly checked: whenever they represent a critical health condition, AutomatedSOS, within 5 seconds from the drop of those values, contacts an emergency service asking to send an ambulance at the user location. The main purpose of the Track4Run is to support running competition organizer and jogging lovers in convening great sport events with little effort. Namely Track4Run is a service-to-be focused on organizing running competition and on monitoring competitors. A user of Track4Run will also have to be a user of Data4Help.

Users will be able to:

- organize a running competition specifying time, path of the competition, restrictions on participants and message for who wants to enroll and, once organized, see the enrolled users;
- cancel a race they have organized and be notified if a race they are enrolled to is canceled;
- discover new nearby races upon their creation;
- search for organized races and register to compete in a future race or spectate an ongoing race.

During the race:

- the competing and the spectating users will be able to see the name and positions of the participants;
- the system must be able to distinguish between actual participants and users who registered to the race but are not competing, simply checking if their position is on the race path.

1.3 Definitions, Acronyms, Abbreviations

1.4 Revision history

1.5 Reference Documents

1.6 Document Structure

2 Overview

2.1 Product perspective

2.2 Product functions

2.3 User charateristics

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3 Specific Requirements

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