Politecnico di Milano AA 2018-2019 Computer Science and Engineering Software Engineering 2 Project Requirement Analysis and Specification Document

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Introduction

1.1 Purpose

TO DO SUMMARY OF THE PROJECT

1.1.1 Goals

TO DO LIST OF GOALS

1.2 Scope

TO DO SUMMARY OF WORLD (SCOPE)

1.2.1 Analysis of shared phenomena

TO DO LIST OF SHARED PHENOMENA

- 1. users move (or run in Track4Run)
- 2. users can have health problems
- 3. sensors collect data
- 4. sensors communication
- 5. sensors break
- 6. third parties collect data from the system
- 7. third parties registration to data4help
- 8. user grant direct usage of personal data
- 9. user registration (data4help and/or services built on top of it)

- 10. organizers of run define path
- 11. partecipants of run enroll to it
- 12. run spectators see on a map the position of runners

1.3 Definitions, Acronyms, Abbreviations

- Third Parties: companies that want to buy people's sensors' data
- \bullet We arable: ... TODO ...

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1.4 Revision history

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1.5 Reference Documents

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1.6 Document Structure

Overall description

2.1 Product perspective

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2.2 Product functions

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2.3 User characteristics

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2.4 Assumptions, dependencies and constraints

Specific requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

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3.1.2 Hardware Interfaces

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3.1.3 Software Interfaces

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3.1.4 Communication Interfaces

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3.2 Functional Requirements

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3.3 Performance Requirements

3.4 Design Constraints

3.4.1 Standards compliance

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3.4.2 Hardware limitations

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3.4.3 Any other constraint

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3.5 Software System Attributes

3.5.1 Reliability

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3.5.2 Availability

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3.5.3 Security

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3.5.4 Maintainability

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3.5.5 Portability

Formal analysis using Alloy

Effort spent

References