POLITECNICO
MILANO 1863

Travlendar+ project YOUR NAMES

Requirement Analysis and Specification Document

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Title:	Requirement Analysis and Verification Document
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Contents

List of Figures

List of Tables

1 Introduction

1.1 Purpose

... Here you see a subsubsection

1.2 Scope

... Here you see a subsubsection

1.2.1 Goals

- Data4Help

  G.1 Locate users' position on demand and in real time.

  G.2 Retrieve users' health status on demand and track it in live.

  G.3 Allow third parties registered to retrieve information about users with single and group requests.

  G.4 Ensure users' privacy.

  G.5 Allow third parties to retrieve historical data and statistics about users.

- AutomatedSOS

  G.1 Monitor in real time users' health status with more attention to critical parameters.

  G.2 Allow only health-interested third parties the access to data detected by AutomatedSOS.

  G.3 Provides to send an ambulance if certain parameters are below critical values.

- Track4Run

  G.1 Allow races organizer to promote into the system a new race and specify all the useful information about the race.

  G.2 Allow users to enrol on a specific race.

  G.3 Allow users to watch in real time the position of every athletes in a specific race during the run.

1.2.2 World Phenomena

... what are world phenomenass???

1.3 Definitions, Acronyms, Abbrevations

- Definitions

  (a) User: authenticated individual that provides information about himself

  (b) Third party society: external society interested to retrieve data from TrackMe's user.

  (c) Single request: request of data from a specific registered individual.

  (d) Group request: request of data from many individuals.

  (e) Live acquisition: third parties can access to data as soon they are ready, through service updates.

  (f) On demand acquisition: third parties can access to data when they request them.

(g) Subscribers: third parties allowed to receive live acquisition about preselected group.

(h) User credentials: information that an individual has to provide to become a registered user: name, surname, date of birth, address, email, telephone number, job, marital status and fiscal code.

(i) Third parties' credentials: information that a company has to provide to become a registered one: company name, p.iva.

(j) Race information: all the information about the run: name, date, promoters, maximum number of participants and race path.

1.4 Revision History

... Here you see a subsubsection

1.5 Reference Documents

... Here you see a subsubsection

1.6 DocumentStructure

... Here you see a subsubsection

2 Overall Description

Here you can see how to include an image in your document.

Here is the command to refer to another element (section, figure, table, ...) in the document: *As discussed in Section 1.6 and as shown in Figure 1, ...* Here is how to introduce a bibliographic citation [**?**]. Bibliographic references should be included in a `.bib` file.

Table generation is a bit complicated in Latex. You will soon become proficient, but to start you can rely on tools or external services. See for instance this https://www.tablesgenerator.com.

2.1 Product perspective

Here we include further details on the shared phenomena and a domain model (class diagrams and statecharts)

2.2 Product functions

Here we include the most important requirements

2.3 User characteristics

Here we include everything that is relevant to classify their needs.

2.4 Assumptions, dependencies and constraints

Domain Assumptions

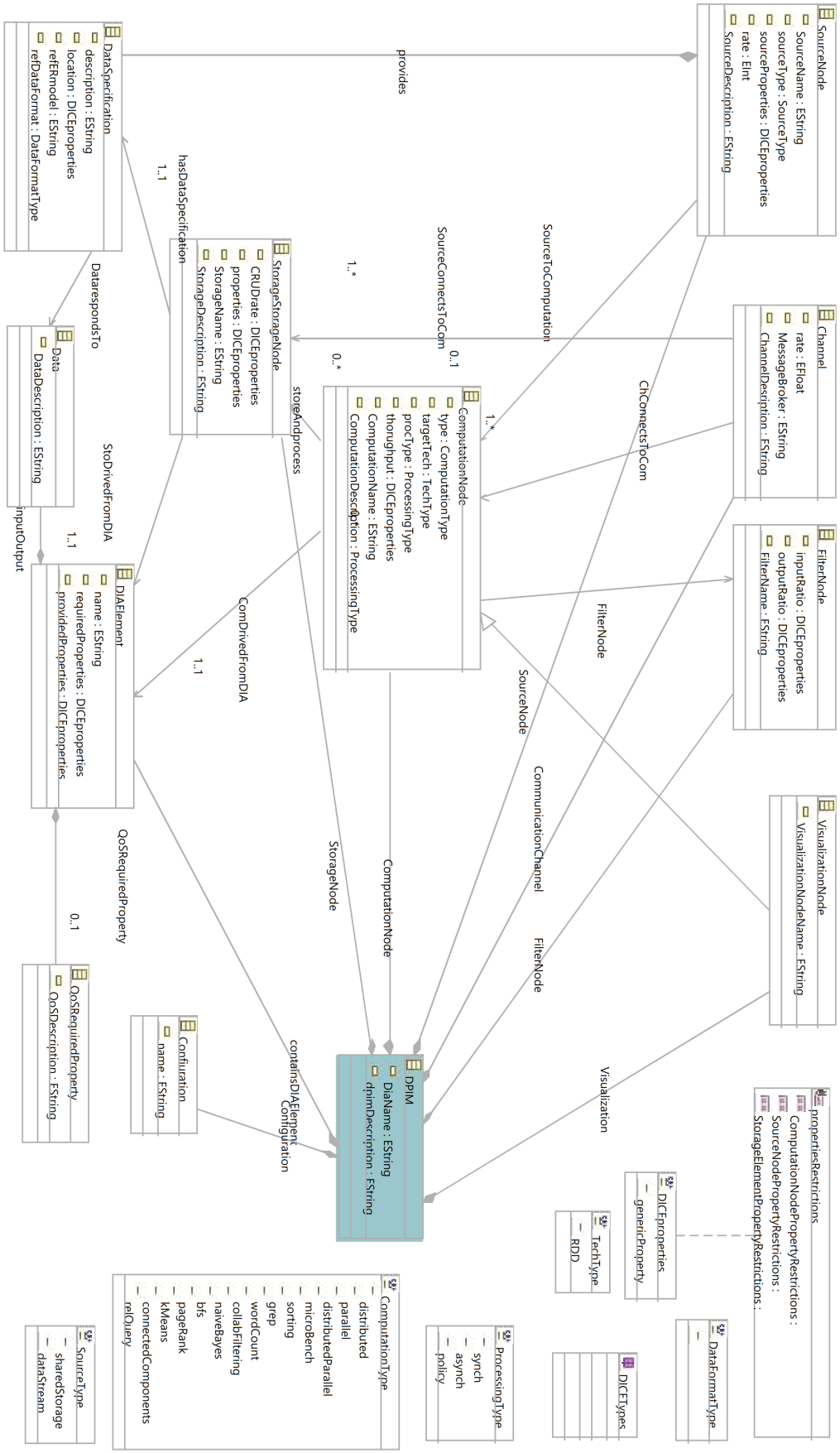

Figure 1: DICE DPIM metamodel.

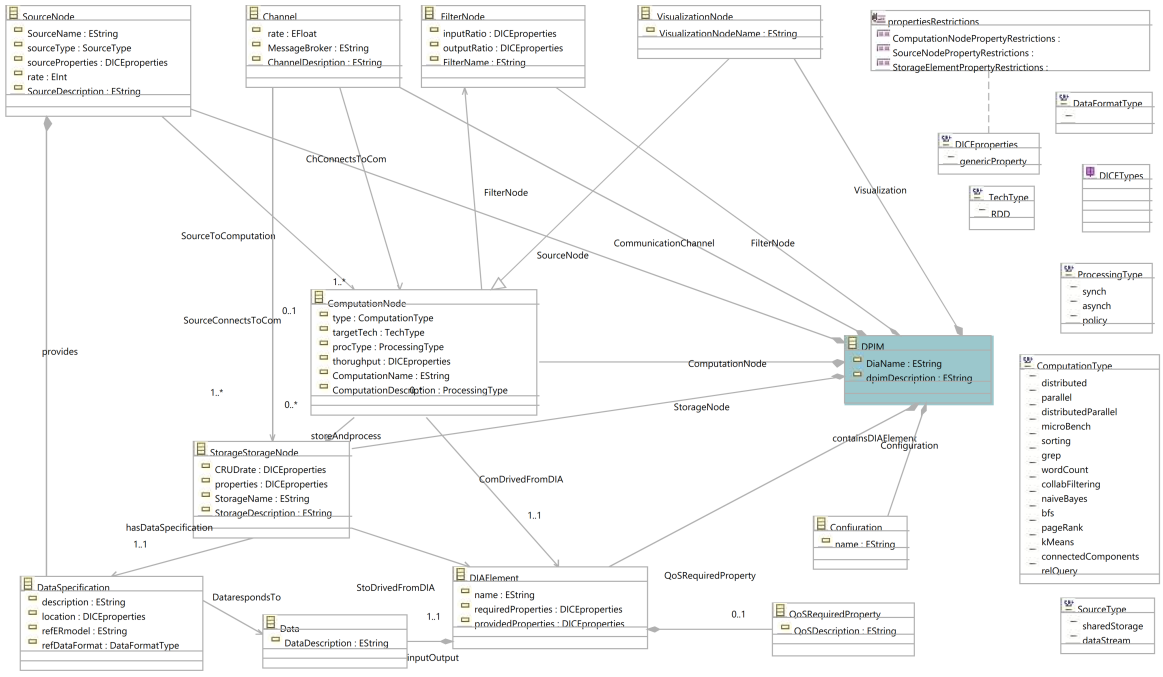

Figure 2: DICE DPIM metamodel in portrait form.

3 Specific Requirements

Organize this section according to the rules defined in the project description.

3.1 External Interface Requirements

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

3.1.3 Software Interfaces

3.1.4 Communication Interfaces

3.2 Functional Requirements

3.3 Performance Requirements

3.4 Design Constraints

3.4.1 Standards compliance

3.4.2 Hardware limitations

3.4.3 Any other constraint

3.5 Software System Attributes

3.5.1 Reliability

3.5.2 Availability

3.5.3 Security

3.5.4 Maintainability

3.5.5 Portability

4 Formal Analysis Using Alloy

Organize this section according to the rules defined in the project description.

5 Effort Spent

In this section are provided information about how much effort each group member spent in working at this document.

5.0.1 Luca Alessandrelli

Date	Task	Hours
18/10/18	Goals	1
19/10/18	Domain Assumptions	3
	Total	4

5.0.2 Andrea Caraffa

Date	Task	Hours
18/10/18		
19/10/18		
	Total	

5.0.3 Andrea Bionda

Date	Task	Hours
18/10/18		
19/10/18		
	Total	

6 References

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