POLITECNICO
MILANO 1863

**TrackMe project - Argiro' Anna Sofia,
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Design Document

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1.1 Purpose

1.2 Scope

1.3 Definitions

- *Word*: definition

1.4 Acronyms

- ACR: Acronym

1.5 Abbreviations

- Ab: abbrevation

1.6 Revision history

- **v0.1 - 27/11/18** Document created

1.7 Document Structure

Introduction

Architectural Design

User Interface Design

Requirements Traceability

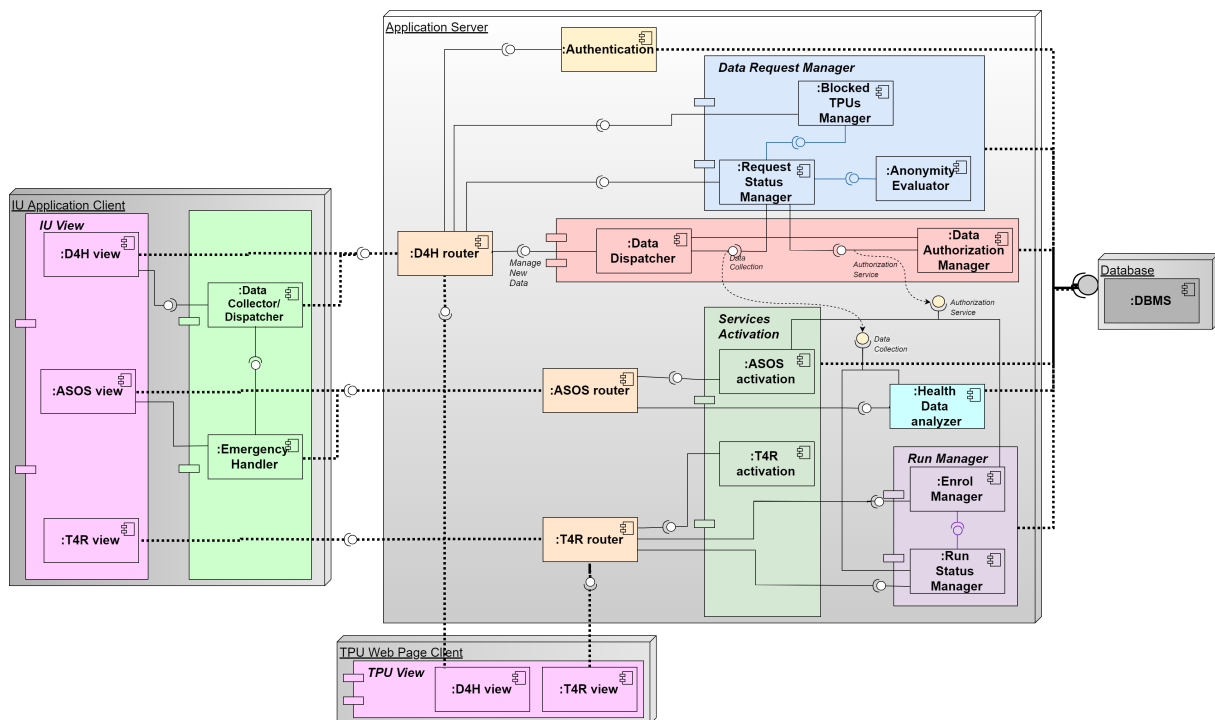Implementation, Integration and Test plan

Effort Spent

References

2.   Architectural Design

2.1   Overview

2.2   Component view

Data collector/dispatcher   Event based component: offers a subscription service and publish live data; pusblishes updates on the server

Emergency Handler   Responsible to handle critical health conditions based on the data published by the *Data collector/dispatcher*

Routers   Validate the requests relative to their subsystem and dipatch them

Autenthication   Responsible for authentication

Data Request Manager   Provides functionality to create, approve, deny requests and block users; Anonymity Evaluator is responsible to check anonymity constraints

Data Dispatcher   Event based component: receive live data from the IUs and dipatch it to whoever is authorized.

Data Authorization Manager Offers the functionality to get the authorization to receive data. Offers the subscription service to receive the data pusblished from the *Data Dispatcher*.

Services Activation Offers the functionality for the activation and deactivation of services based on D4H

Health Data analyzer Offers functionality to extrapolate the critical health parameters for every Individual User

Run Manager Provides functionality to create, cancel, enrol in and spectate runs;

2.3 Deployment view

2.4 Runtime view

2.5 Component interfaces

2.6 Selected architectural styles and patterns

2.7 Other design decisions

3. User Interface Design

4. Requirements Traceability

5.   Implementation, Integration and Test plan

6. Effort Spent

6.1 ARGIRO' ANNA SOFIA

DATE	DESCRIPTION OF THE TASK	HOURS SPENT

6.2 BATTAGLIA GABRIELE

DATE	DESCRIPTION OF THE TASK	HOURS SPENT

6.3 CASASOLE BERNARDO

DATE	DESCRIPTION OF THE TASK	HOURS SPENT

7.   References

7.1   Reference Documents

7.2   Software

- TeXWorks v0.6.2

- Umlet v14.2

- Draw.io v9.4.1

- proto.io v6.3.2.3