

DD

Design Document

Data4Help, AutomatedSOS and Track4Run

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# Introduction

## Purpose

The purpose of this document is to give a more detailed description of the architecture of Data4Help system. It will include the illustration of specific components and design choices that will guide the developers during implementation, integration and testing.

Overall this document outlines these elements:

* The high-level architecture
* The main components and their respective interfaces
* The runtime behaviour
* The design patterns
* The algorithm design of the most critical parts of the application
* Implementation plan
* Integration plan
* Testing plan

## Scope

The aim of TrackMe is to provide a service to either companies in need of data for business researches or individuals for more personal reasons. The main functions of Data4Help are managing requests from different users and saving and protecting a great quantity of data. A registration will be needed to provide clients a personalized experience, both by giving them the results of their requests and by showing monitored user their private health status data. The project is extended by AutomatedSOS that monitors the data of subscribed users and contacts medical services in case of need. The target of this system are elderly people who lives alone or are simply worried about their health conditions. This will need a 24/7 reliability of the application. Finally, Track4Run allows run organizers to create new races, tracks runners and show their position on the map to all possible spectators.