

1 Introduction

1.1. Purpose

This document is written for the developers of the software and the financial stakeholders and its objective is to guide the development phase in such way to respect all the requirements deriving from the RASD document.

1.2. Scope

This document specifies all the software components included in the system. It explains how components must be deployed and how they interact at run-time. It also gives an idea of the design decisions taken during the design phase itself.

1.3. Definitions, Acronyms, Abbreviations

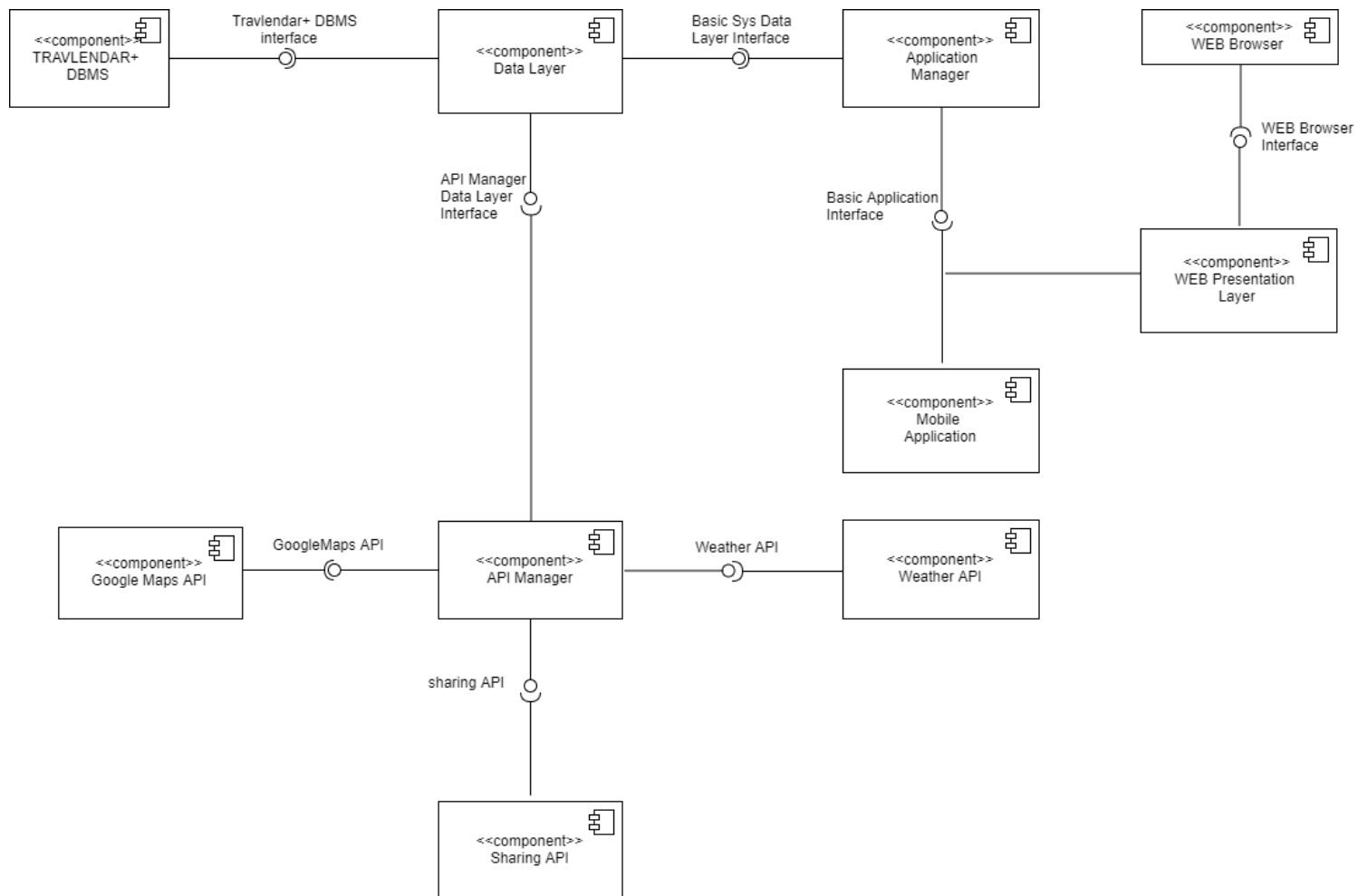
1.4. Reference Documents

1.5. Document Structure

2. Architectural Design

2.1. Overview

This section is addressed to the architectural design of Travlendar+. In the following subsections are shown the most relevant part of the system-to-build. Here we also have a deepening of the software components of the system and the interfaces about them.



Travlendar+ DBMS

This is the data base management system which will manage all the important information of the system. Some of these are the users profiles and their calendars. Obviously the DBMS will provide an interface which allow the Data Layer to perform queries over the data. **Devi aggiungere a fine specifica come scegli il data layer!!**

Google Maps API

This component represents the part of software that include all the services provided by Google and Waze to build an application aware of the Users position and able to calculate all the alternatives routes. The application software takes the data provided from these and provide the one with the longest time estimate (it is better to arrive 2 minutes before than 2 minutes late) and offers an interface with the route, arriving time, duration. If you use public transports it also provide the timetables of them or if you use taxi/uber

it provide the starting point and the starting time of the ride. This component will be used by the API manager and the Application Manager.

Weather API

This component represents the part of the software that include all the service provided by MeteoAM to build an application that can advise you when weather conditions are not favourable. This component will be used by the API manager and the Application Manager.

Sharing API

This component represents the part of the software that include all the service about sharing (car, motorbike or bike). It offers an interface that provide to the users all the available sharing alternatives. This component will be used by the API manager and the Application Manager.

WEB Browser

Is the component representing the software through which a user can access the web application.

Data Layer

This piece of software will deal with the DBMSs, giving them the possibility to recover or to store relevant information to the system to build. Data Layer is useful to use an unique interface to access in different kind of data which are stored in different databases. **!!!!!!NON CAPISCO LA PARTE DOPO!!!!!!**

API Manager

This component of the system is used to handle all the calls coming from web/mobile application. Of course to answer this calls the API Manager has to use other components which are Data Layer and Google/Sharing/Weather API.

