Purpose:

This document represents the Design Document (DD). Aim of this paper is to provide an overview of the structure of the system, in terms of general architecture, interaction of the components and inner functionalities. The document contains detailed information about the main algorithms and patterns used into the system, info on the interfaces of the different components and a schema of their connections in the runtime views. Plus, it establishes a connection with the RASD document, specifying how the requirements of the system match with the actual design of the application.

Scope:

The application intended to be developed is a mobile app for Android smartphones named Travlendar+.

The application aims to provided a calendar-based system, in which the user is allowed to insert and

check his daily appointments and is supported during the travels to reach the provided meeting locations.

The app is required to be more than a simple virtual calendar: it has to autonomously manage the different

travel alternatives and collect information about external weather condition and availability of public

transport in order to provide the user with a detailed schedule of his daily trips. The system must require

the user to insert only the essential data for the appointment creation and must take care of everything

concerns the travel organization, giving at the same time to the user the possibility of arrange differences

travel preferences and switch between the possible travel alternatives. Plus, it must be open to advanced

settings, allowing the user to create flexible and repeatable appointments or offering the functionality of

adding alerts to remind each event. Travlendar+ also aims to implement a ticket-manager system: trough

the application it must be possible to buy public transport tickets and view them when needed.