



METEOCAL PROJECT

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## RASD and DD revision

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# Chapter 1

## Introduction

The aim of this document is to show the main changes that we made during the development phase. Most of the changes were made because of our prior brief knowledge of the development platform and to improve some functionality that we found a little too complex during the implementation phase. We will explain all the changes that we made and why. We will also explain (with the + mark) some properties and functions that we added.

### 1.1 RASD rettification

The file name "Meteocal\_projectx.pdf" in the deliveries folder, actually is the RASD document, erroneously named, that we uploaded due to hurry; so we decide to add a new file "Rasd\_document\_v2", that is the same document as before (as requested from the professor no modification has been made) but it contains correction of minor error like grammatical one and wrong image uploaded.

# Chapter 2

## RASD changes

### 2.1 Domain properties

- as we stated in the domain properties, it is not possible to attend two events at the same time; even if it was a domain property, we decide to introduce a control to achieve this property.
- In the RASD document we specified that for 5 days forecast a 3 hours weather forecast will be provided. This was changed as is always provided only a daily forecast.

### 2.2 Assumption

- We define that if an user accept an invitation that event is added to the calendar. Due to make development simple we decided to modify this function: the event is not linked to the calendar, in particular is not created a new event that has as calendar the calendar of the user that accepted the invite, but it will be added to the GUI of the calendar (also in the public calendar view); therefore the user will be not be able to update or delete the event. Accepting or declining is still possible, and will respectively add or remove the event to the calendar view ( but the event will still be present in the database).
- "bad weather notification will check the weather in the hours in which the event occur" : We needed to modify this assumptions as, when creating the rasd, we didn't know about the weather api specifications. The weather check is made on daily weather forecast.
- "the system in case of bad weather can suggest the same date but different time for an event"; this is not possible because, as we said, only daily weather forecast is provided.

### 2.3 Specification

- Registration was moved on a different page in order to maintain home page more clean.
- In order to make the application more accessible, we decide to add an "add event" button reachable from every page of the log in session.
- +In case the city will not provide the weather of the city inserted the user will be advise.
- "Each update or delete is made by clicking the event on the calendar via the day view. The people invited will be notify that the event has been update or delete." We extend this function to all view of the calendar by clicking on the event intended to update/delete.
- +advanced bad weather – advanced bad weather present two type of bad Conditions: temperature and precipitations; temperature states the minimum temperature for the event, while the precipitations value indicates the max precipitations (mm or % of clouds due to the selected layers) permitted.

- "If an event in a public (or shared) calendar is public, every user (or shared user) can access to it and see all the information; otherwise only starting and end time and event title are available and the event will be coloured in dark-grey" : private event shows only starting time and ending time.
- "On the calendar will be displayed the weather forecast to organise better outdoor activities." weather information will be present (if available) in the show event page.

# Chapter 3

## Use Case

- "change view" – also week view is provided.
- "search for other user" – an intermediate page was added. Before accessing the public calendar, a page with the searched calendar privacy is shown. If the user that made the search, has the permission to access the searched calendar a button is available and will redirect to the public calendar.
- "show public event"/"create event"/"update event"/ "delete event" – as stated before, these actions can be performed in all the calendar view, by clicking on the event.

### 3.1 Alloy

- sig Event– in alloy we divided the participant to an event into acceptedInvitation, refusedInvitation and organiser. We decided to stick all together in order to make managing more simple. Also a connection to a weather (lone weather) was added. eventDays are transformed from set to one Day.
- fact acceptedInvitationUserHasEvent – as said before this fact doesn't subsist anymore; this fact is assumed only for the gui, but not for the database consistency.
- fact badWeatherNotificationsToParticipants – this fact is correct but do not consider 3 days notification. So a distinction between 3days and 1day bad conditions need to be made. So the fact will refer to 1day bad conditions while a new fact referring to 3days condition should be added; this fact states that the 3days conditions notification is send only to the user event creator.

# Chapter 4

## Design Document changes

### 4.1 Database

For the database we made minor changes, but the main structure constructed remained.

- Weather : we decide to introduce an id to use key, because the references used before (city and date between event and weather) were not particularly correct. Also in event was added a link to the weather by id. We also added more information, max and min temperature.

### 4.2 UX diagram

The main ux diagram structure was followed. However some pages was modified:

- As said in the RASD section, all the functionality regarding the event managing are shared between all the calendar view, and not only in day view.
- <<screen>> update event – the weather is not associated to update event screen anymore. It is only visible when going to Event screen.
- <<screen>> Event – although it was written in the RASD, here is not explicitly specified the possibility to accept or decline the invitation. So in every event screen is possible (if invited to the event) to accept or decline the invitation.