
# REQUIREMENTS ANALYSIS AND SPECIFICATION DOCUMENTS

Project of Software Engineering 2

## WEATHER-CAL

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# Chapter 1

# Introduction

## 1.1 Purpose

The purpose of this document is to present a description of WheaterCal system. It will explain the features of the system, the interfaces of the system, what the system will do and the constraints under which it must operate. This document is intended for both the stakeholders and the developers of the system.

## 1.2 Scope

We want to project and implement WheaterCal. The aim of this project is to develop a system that offers an online calendar in which user can schedule their events according to the weather conditions.
A registered user can create, delete and update an event and moreover he should provide information about where and when this event will take place and information about the invited user. Once the event is created the system should provide to its creator the weather forecast information regarding the scheduled day, and most of all

it should notify a bad weather condition one day in advance to all the participants's event.

Also a user is able to make his/her calendar visible to all other registered user showing them only the time slots in which they are busy without letting know the event information unless either the event is public. In addition in case of bad weather, three day before the scheduled data of an event, the system will inform the event's owner and propose to him the closest sunny day.

## 1.3 Glossary

| | |
|---|---|
| **User** | La pagina non subisce variazioni e rimane ferma jjkjkjkkjklkldldldldlldldldldl |
| **Event** | La pagina si sposta verso l'alto |
| **Event's Owner** | La pagina si sposta verso destra |
| **Participant** | La pagina si sposta verso il basso |
| **Calendar** | La pagina si sposta verso sinistra |

- User
- Event's Owner
- Event
- Calendar
- Participant

## 1.4 References

IEEE,*IEEE Std 830-1998,IEEE Recommended Practice for Software Requirements Specifications*, IEEE Computer Society 1998

# Chapter 2

# Overall Description

## 2.1 System Environment

WeatherCal is a stand alone software made from scratch. It is a Web application that allows the registered users to manage their schedule basing on the weather conditions. The users are also able to invite people to their event and to publicize their event. The system is even capable of notifying the users, as they log on to the system, if the weather forecast for the event is not the desired one.

### 2.1.1 Actors

Actors in the system are mainly people registered into the web application. They will be referred as Registered Users. Whoever is not yet registered on the platform will be an actor for the system too and it will be identified as an Anonymous Users. No administration is required since the system is not intended for illicit purposes and this is a policy of the platform plus no conflict among users can occur since the only allowed interactions are the invite to an event and a participation to an event (in which other people partecipate).

### 2.1.2 Scenario

The system allows the users to partecipate in various scenarios:

- Log on to and log out from the platform.
- Create, Modify, Delete an event.
- Invite other users
- Manage invitation (accept, refuse).
- Manage event visibility.
- Show other users' profiles.

The system is the leading actor in:

- Warn all the participants to an event which will occur the following day that there will be bad weather conditions.
- Notify to its owner three day before the event that there will be bad conditions for it suggesting the closest available sunny day.

## 2.2 Functional Requirements

## 2.3 Non Functional Requirements

### 2.3.1 User Interfaces

### 2.3.2 Performance

### 2.3.3 Security

### 2.3.4 Business

## 2.4 System Interfaces

### 2.4.1 User Interfaces

### 2.4.2 Hardware Interfaces

### 2.4.3 Software Interfaces

# Chapter 3

# System Modeling

## 3.1 UML Diagrams

## 3.2 Alloy