

Software Requirement Specification – ‘Connect 5’ project

1 Introduction

1.1 Aim of the document

This document aims to present the ‘Connect 5’ project by describing the main functionality of the system, provide its HW and SW requirements, and compare it with other similar systems on the market. Below are user stories, functional requirements and use cases providing overview diagrams and internal steps of a use case.

In this documentation, we will refer to the user with pronouns they/them.

1.2 Overview of the defined system

The System is aimed at finding sports centers that rent soccer fields and allowing the booking of a field at a specific time, providing the relative weather forecast. The system for now is exclusively in mobile mode.

1.3 HW and SW requirements (minimum)

CPU:	ARM or x86
RAM:	512 MB
Hard Disk Storage:	150 MB
OS:	iOS 12.0 / Android 6.0

1.4 Related systems and Pros and Cons

There are many similar systems distributed in stores. For example ‘Fubles’ or ‘Goalcup’.

Unlike these systems, ‘Connect 5’ doesn’t allow the user to find and join organized games.

On the other hand, it is an additional function of Connect 5 to show, during the selection, the weather forecast relating to the times for which a sports field could be booked. This makes the system aimed exclusively at booking playing fields, facilitating the choice of the time to choose based on the forecast weather conditions.

2 User Stories

- As a football player, i want reserve a soccer field by the software, so i can organize amatorial football matches with friends.
- As a football player, i want know forecast weather of the day, so i can reserve a football pitch when the weather is good.
- As a sports center owner, i want my pitch bookings to be handled easily, so i no longer have to worry about managing them myself.

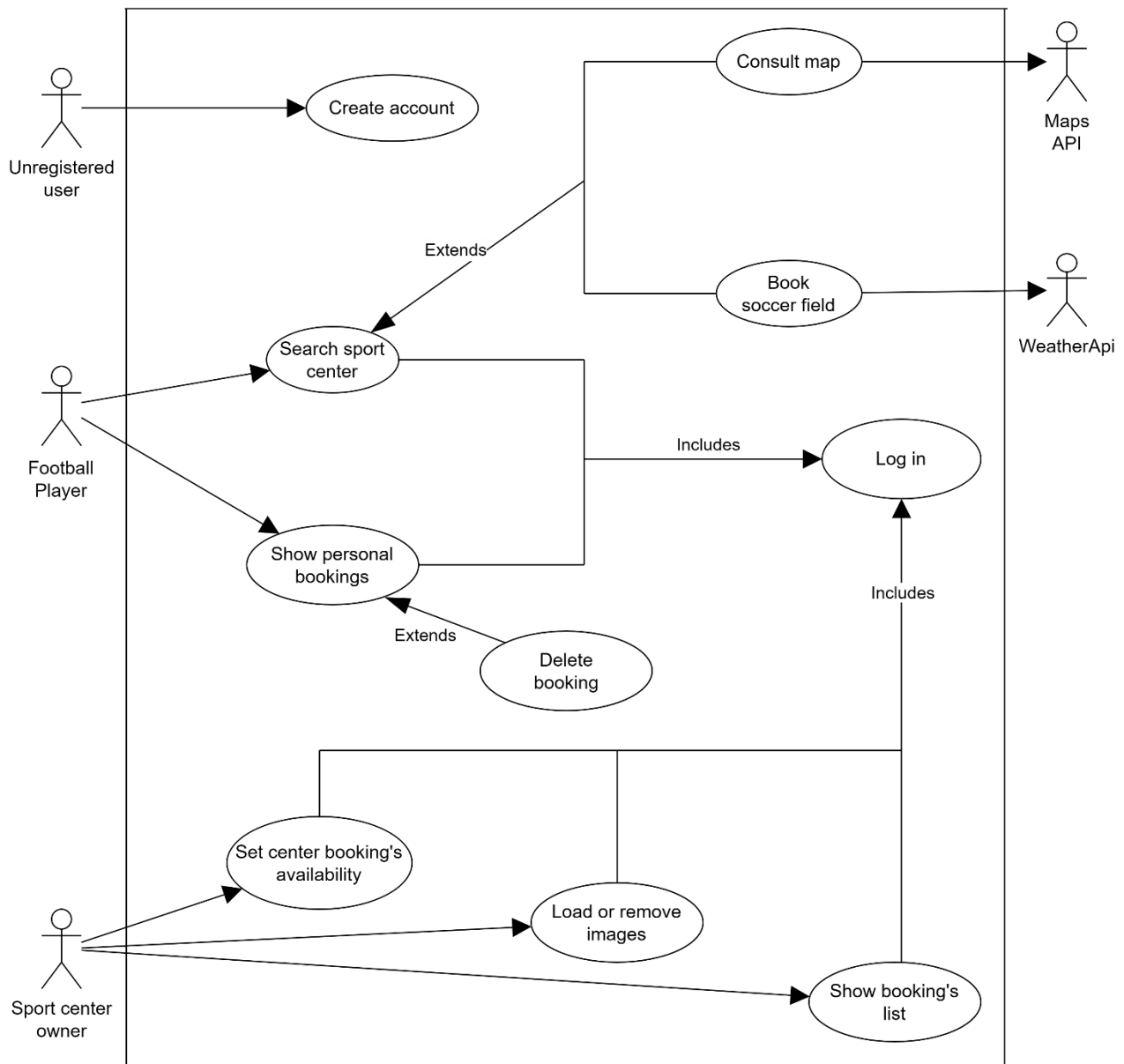
3 Functional Requirements

- The system shall provide to show users availables soccer fields of sport centers depending on time slots.
- The system shall allow the user to request the presence of an official referee if available at that time.
- The system shall provide the weather forecast for each selectable time slot for sports fields bookings.

4 Use Cases

4.1 Overview diagram

Use Case Diagram



4.2 Internal steps

1. The user asks to search a sport center.
2. The system requires to user to insert city or sport center's name.
3. The user inserts data.
4. The system checks data inserted.
5. The system provides a list of results.
6. The user chooses one of results.
7. The system asks the user to choose a date.
8. The user chooses a date.

9. The system show a list of daily availability with forecast weather for each time slot.
10. The user choose a time slot to take booking.
11. The system lets user to choose optionals such as referee or tunics.
12. The user chooses whether to add optionals and confirm the booking request.
13. The system asks for the final booking confirmation.
14. The user confirm the request.
15. The system notifies the user of the successfull booking and of the redirect to the home page in 5 seconds. The system redirects user to the home page.

Extensions:

- 4a. The city input check failed. The system asks the user to insert a correct city.
- 14a. The system notifies the user of the failed booking and the reason in question. The system redirects user to daily availability.