Software Requirement Specification

1. Introduction

• Aim of the document

This document is aimed to allow professional figures and normal people to understand what the application does and it gives an overview of the entire system. It will illustrate what our application should do, but not how those features are implemented.

• Overview of the defined System

Optic is an application that allows users (such as players, admins, referees) to organize and facilitate the logistic around Softair activities.
With Optic you can: easily find playgrounds around your zone and book a play, insert your playground info and let players come to play, report players that have a bad behavior.
It also have a review system that permits you to know what other users thinks about players and playgrounds.

• Operational settings

The application can run on any Computer that have installed the following Software components:
1. JDK version 16.0.2 or superior
2. JavaFX library version 17.0.0.1 or superior
3. My-Sql-Connector version 8.0.27 or superior
4. MySQLWorkbench 8.0 or superior

• Related systems

We have found two apps that are comparable to ours: Google Maps and Airsofter.
Google Maps
Pros:
- allows users to find playgrounds on a map,
- you can see playground's reviews,
- there are information about playgrounds.

Cons:
- you can't book any activities,
- it's not specialized in Softair,
- you can't visit any user profiles.

Airsofter
Pros:
- it's a Softair social media that allows you to interact with other users,

- you can easily make new friends.

Cons:
- you can't find any playground,
- you can't book activities.

2. User Stories

Castelli:
- **As a softair player, I want to find playgrounds and read information about them, so that I can choose where to go.**

- **As a playground owner, I want to show to other users information about my playground, so that players could know it and come to play.**

- **As a softair player/referee, I want to review a playground where I've been, so that I** can **give my opinion and help other users deciding the playground.**

Carloni:
- **As a referee, I want to report players that cheats, so that anyboody knows who they are playing with.**

- **As a player, I want to register the equipment I play with, so that I can ask the admin If I can play with it.**

- **As an admin, I want to public the main event of the day, so that players knows what they're going to play.**

3. Functional Requirements

Castelli:

- **The system shall provide a map, based on user location, to search a playground.**

- **The system shall provide a points/stars based review system.**

- **The system shall upgrade a profile to "PLUS" mode if it achieve 20 positive reviews.**

Carloni:

- **The system shall show all the players based on the day they play on the playground**

- **The system shall provide a report* service for every player**

- **The system shall show the main event of the day for the selected playground**

*The report service is intended to be used by referees to signal unfair players or cheaters.

4. Use Cases