

Cairo University

Faculty of Computers and Artificial Intelligence



CS251

Intro. to Software Engineering

Project Name

Software Requirements Specifications

Version 1.0

**Team Names and Emails and Phone
of Team Leader**

Month & Year



CS251: Phase 1 – Team Name
Project: <Project Name>

Software Requirements Specifications

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Software Requirements Specifications

Team:

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Document Purpose and Audience:

- The purpose is to design a booking system for football playgrounds.
- The audience of this document are football players and playground owners.

Introduction:

Software Purpose:

The motivation of the GOFO project is to develop a system that will improve the process of booking playground for both the playground owner and the players. where the player will be able to search for a suitable playground for him, he will also be able to join a team, for the playground owner he can market for his playground and manage the bookings more easily, and there will be an administrator to make sure processes are followed as they should.



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Software Scope:

- ++Adding available playgrounds by playground owner.
- ++Accepting and denying requests for booking.
- ++Showing which playgrounds are booked and which are free.
- ++Transferring money from an ewallet to another.
- Adding money to the ewallet.
- ++Deleting a playground or suspending it by administrator.
- ++Canceling request during cancelation period.
- ++Joining a team.
- ++Registration for playground owners and players.
- ++Sending invitations for a team by email.

Definitions, acronyms, and abbreviations:

Ewallet	Electronic payment system used to allow players to pay for the bookings.
Administrator	Responsible for maintaining the flow of booking



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Requirements:

Functional Requirements:

- First, the playground owner and player create a profile, and enters his [Name, ID, Password, Email, Phone, Default Location].
- Then the playground owner enters the information of his playground [Name, Location, Size, Available hours, Price per hour, cancellation period].
- The owner can set and change the available booking hours and view these bookings.
- The owner can display all his requests.
- The player can rate the playground or the playground owner.
- The player can display his all requests and all his bookings.
- The player can display all his bookings.
- The player pays for the owner by eWallet and both can check the money in it.
- The player can display all the playgrounds near to him.
- The player could filter the playground and search with available hours, or available dates.
- The booking can be done by choosing a time slot for 1 or more hours if available.
- When the player selects the booking, it displays in a box:
 - Select the available grounds.
 - Select a free time slot.
 - The total price
 - Paying the amount from his eWallet to the eWallet of the owner
 - Update the states of the ground, so no one can book it at these slots.
 - Invite button so the player can invite his friends by emails.



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- Player can select the ‘favorite team’ to store his friends names and emails, so he can invite them easy.
- The player can cancel the booking only in the cancellation period which is 24 hours after his booking.
- The administrator should check if the information is true, then approve the booking to register the playground.
- Administrator can delete or suspend or activate a playground.

Non-Functional Requirements:

- The system should run on Mac OS, Windows, Android, IOS.
- The system should take 2 seconds to get search results, and 3 seconds for booking process.
- The system can handle 1000 client at the same time, if the clients more than 1000, there will be a delay in response time.
- The system will consume 90 MB of memory.
- The probability of failure in 1-year-period is from one to three failures.
- The system must available over 99% of the time.



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System Models:

Use Case Model





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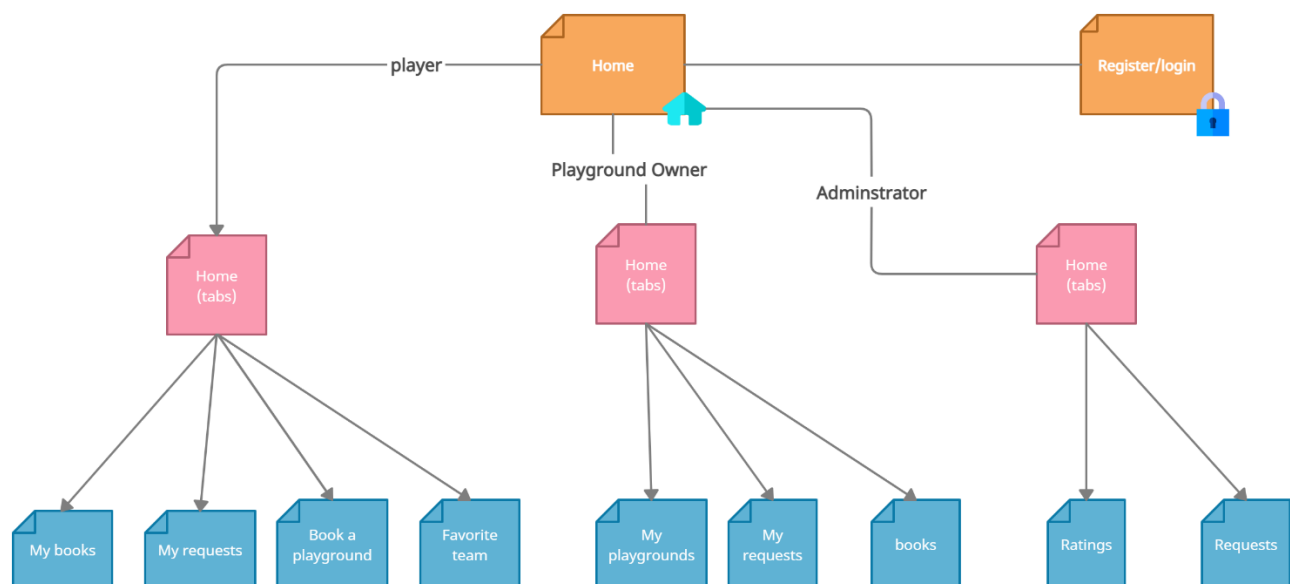
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Playground owner: a person who wants to register his playground.

Player: a person who is interested in booking a playground.

Administrator: a person who has the right to delete a playground or suspend it.

System Navigation Map:



Tools:

- Creatly.
- Visual paradigm



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Ownership Report:

Student	Items he created
Mina Samy Abd El-Sayed	Requirements and navigation map
Malak Amr Mostafa	Introduction and navigation map
Dina Zakaria Mostafa	Document purpose and audience and Use case