Cairo University

Faculty of Computers and Artificial Intelligence

CS251

Intro. to Software Engineering

Project Name

Software Requirements Specifications

Version 1.0

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Software Requirements Specifications

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Software Requirements Specifications

Team

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Document Purpose and Audience

- Audiences: players and playgrounds owner
- This document for booking playgrounds system
- Who is expected to read it Software?

  Developers

- Document is domain analysis for our system

Introduction

Software Purpose

the purpose of (SRS) is to determine both functional requirements and non-function requirements of go football system

Software Scope

- Our system is a booking system for football playgrounds. It serves the players and playground owners
- also help the workers do them works easily and make the owner manage everything easily
- the player can determine date and the time of booking and pay also online
- the owner can see all details and bookings in our system and modify it

Software Requirements Specifications

Definitions, acronyms, and abbreviations

Owner	Someone who manage the system
Player	Someone who want to book the playground
Software admin	Someone who maintain, update and checking errors of the software

Requirements

Functional Requirements

This system enables us to book the best playground is near to us and most affordable and available at the time we need. This system is a booking system for football playgrounds. It serves the players and the owners as well. And there is an administrator oversees the overall operations to ensure that no fraud takes place. You can register yourself on the system and create a profile. then you can see the playgrounds near to you.

(F 1) When The playground owner opens the application, he should register himself on the System then register his playground and creates a profile.

(F 2) The system will store some information about the player like his name, ID and password, email, phone and default location.

(F 3) The player who wants to book a playground. He should register on the system and create a profile too.

(F 4) The administrator has the right to delete a playground or suspend it.

(F 5) The system enables the player to filter location on specific dates.

Software Requirements Specifications

 (F 6) Timing and synchronization: First the player should create profile second; he should see the playgrounds that suit him third he should pay the money to the owner by using fawry or another way.

Non-Functional Requirements

(F1) Performance: When the playground owner and the player register on the system. Registration operation will be done within 30 seconds.

(F 2) Scalability: System should be able to support up to 500 player while booking .

(F 3) Usability: The system is easy to use. It enables us to pay by e wallet by using fawry pay.

(F 4) Security: The administrator has the right to delete a playground or suspend it to avoid any mistakes or fraudulent activities like double booking or if the playground gets a lot of complaints from the players and the administrator can activate it again or delete it completely.

 (F 5) Portability: The System enable us to change the playground within the cancellation period.
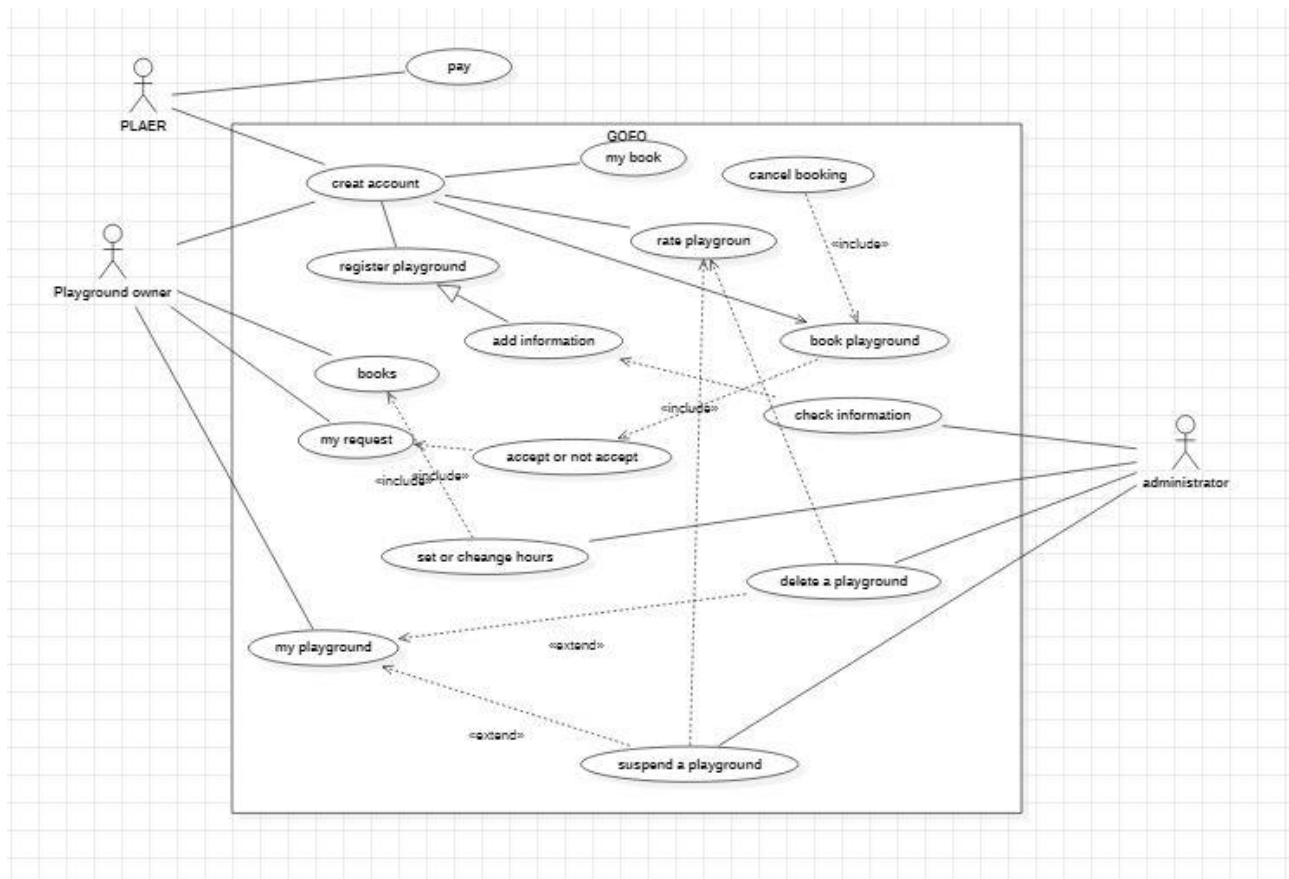
Software Requirements Specifications

System Models

Use Case Model

- First actor is the player who wants to booking playground
- The second actor is the stadium owner who is the person who adds stadiums and accepts reservations
- The third representative is the admin, and he is responsible for checking the stadium data and deleting or suspending a stadium from work according to the evaluation and the players 'complaints

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Software Requirements Specifications

Enriched User Stories

- **User Story #1**

User Story ID	US #1
User Story Name	Create account
Actors	Player and play ground owner
Description	**As** a player and play ground owner I **like** to be able to create account **So** that I can book a playground or register a playground
Per condition	There is no per condition
Post condition	If he is a player, he can book a playground If he is a playground owner, he can register a play ground
Acceptance Criteria	**Given** I'm a logged-out system user and I'm on the Sign-In page **When** I fill in the "Username" and "Password" fields with my authentication credentials and I click the Sign-In button **Then** the system signs me in

- **Scenarios**

Normal Scenario

| Actor Action	System Response
1- User Enter username, email, Password, address, phone number and if he is a player or playground owner. 2- Click **create account**	
	3- System stores user data 4- System go to page booking if he is a player 5-system go to page register play ground

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Exceptional Scenario

Actor Action	System Response
1- User Enter username, Password, address, phone number and if he is a player or playground owner. 2- Click **create account**	
	3- if the information is not correct system does not accept the account

- **Screen Design**
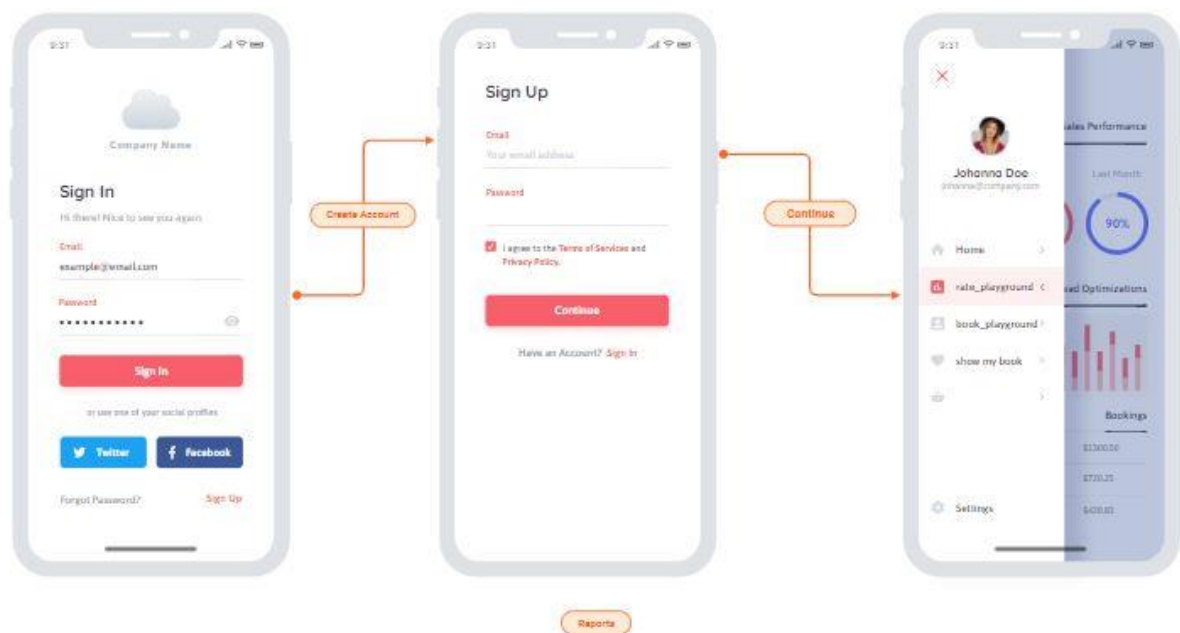
- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
username	Text \25	
email	Text	Only the email form is accepted

Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Password	Text\30	
number	Number \15	
Address	Text \50	
Type of user	Radio button	

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- **User Story #2**

User Story ID	US #2
User Story Name	Register playground
Actors	Playground owner and administrator
Description	**As** a playground owner I **like** to be able to register playground **So** that player can book a playground
Per condition	Create account
Post condition	Administrator check if the information is correct or not
Acceptance Criteria	**Given** I'm a logged-in system and I'm on the register playground page **When** I register in the playground information and admin check the information and accept it **Then** the player can book it

- **Scenarios**

Normal Scenario

Actor Action	System Response
1- playground owner enter play ground information (name, size, price per hour, address). 2- Click **Submit**	
	3- System (admin)check if the information is correct or not.

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	4- if it is correct accept the playground and show it to players.

Exceptional Scenario

Actor Action	System Response
1- playground owner enter play ground information (name, size, price per hour, address). 2- Click **Submit**	
	3- System (admin)check if the information is correct or not. 4-if it is not correct system does not accept the playground.

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- **Screen Design**

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Name	Text\25	
size	Number\25	
price	number\25	
place	Text\25	

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- **User Story #3**

User Story ID	US #3

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User Story Name	Playground removal or suspension
Actors	Admin
Description	**As a** system administrator, I **like** to have power over the system, **so** the playground could be removed or suspended.
Per condition	This is normally the case if the owner engages in unethical behavior, such as double booking, or if the playground receives several complaints from the players.
Post condition	The playground owner will be notified that his or her playground has been removed or suspended.
Acceptance Criteria	I deleted or suspended the playground after receiving several reports about the owner engaging in illegal practices such as double booking or mistreating players.

- **Scenarios**

Normal Scenario

Actor Action	System Response
1- make a list of possibilities 2- Press the compliments button.	
	3- The system identifies which playgrounds have received complaints. 4- The system shows the words "delete" or "suspend."
5- Select delete from the admin menu	
	6- The message is sent by the system.
7- Return to the home page as an administrator	

Exceptional Scenario

Actor Action	System Response
1- make a list of possibilities	

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2- Press the compliments button.	
	3- The device indicates that no compliments have been discovered.
4- Return to the home page as an administrator	

- **Screen Design**
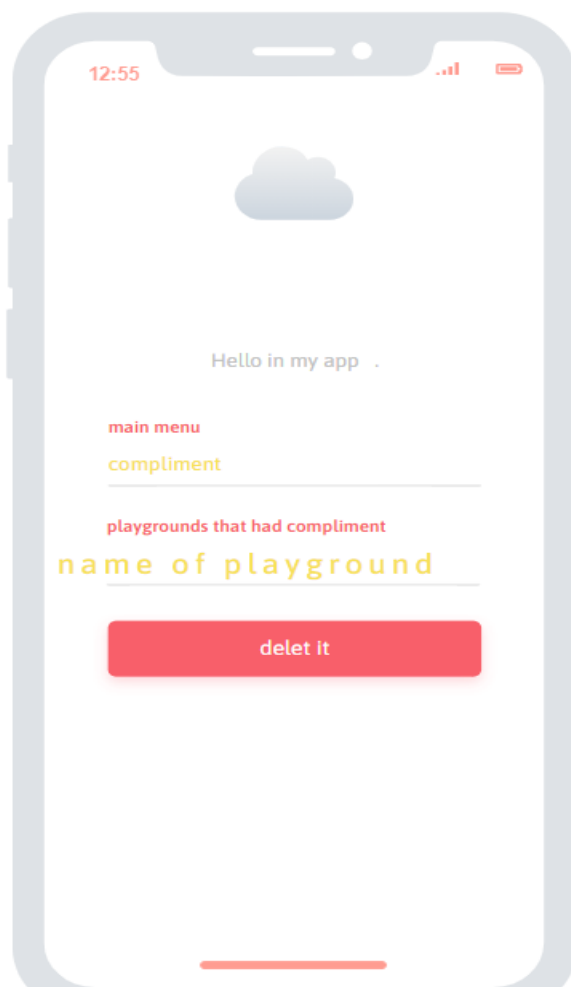
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- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Name of playground	Text/50	Mandatory
The name of the playground owner	Text/50	Mandatory
Playground phone	Number/20	Mandatory
Playground owner phone	Number/20	Mandatory

- **User Story #4**

User Story ID	US #4
User Story Name	Rate
Actors	player
Description	As a player, I like to rate the app, so that I need to check the app
Per condition	the player will be login in and choice rate then choice the rate
Post condition	the playground owner receiving notification
Acceptance Criteria	The user should be used the app

- **Scenarios**

Normal Scenario

Actor Action	System Response
The player enters his account in system login	
	Open the main menu
Choice rate from the main menu	

Software Requirements Specifications

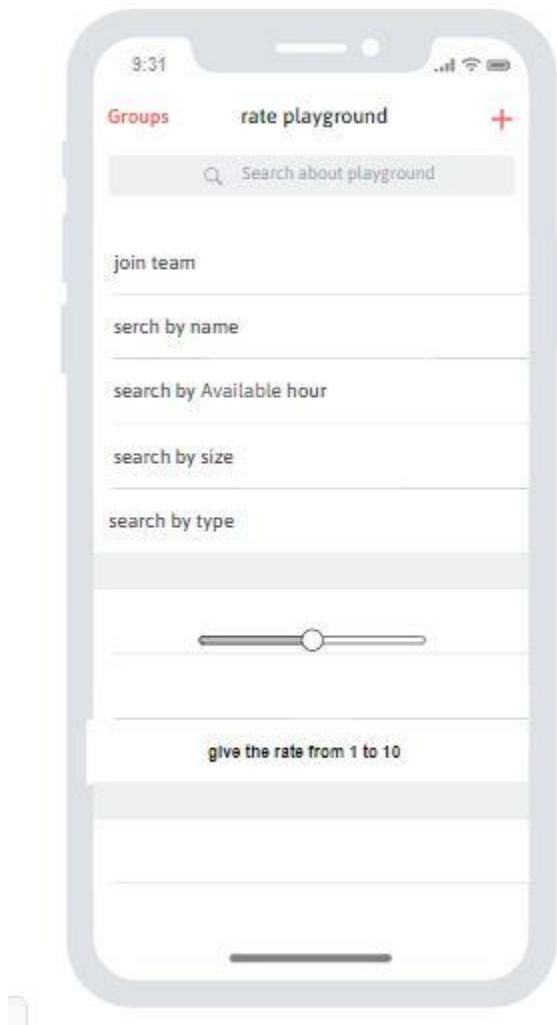| Enter your rate	
	Update the total rate if your system Sent notification to playground owner

Exceptional Scenario

Actor Action	System Response
Enter his account and login	
	The account is not true
Reset the password	
	send message to player

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- **Screen Design**

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Name of playground	Text/50	Mandatory
The name of the playground owner	Text/50	Mandatory
Playground phone	Number/20	Mandatory
Playground owner phone	Number/20	Mandatory

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- **User Story #5**

User Story ID	US #5
User Story Name	Booking playground
Actors	player, playground owner
Description	As a player, I like to book the playground, so that I need to search about the suitable playground for player
Per condition	the player will be login in the system and choice the playground, time and date to book the playground
Post condition	the playground owner receiving notification
Acceptance Criteria	Detect if this player his account in database, then the player enters his inf the admin and background owner should accept or not accept the booking

- **Scenarios**

Normal Scenario

| Actor Action	System Response
The player enters his account in system login	
	Open the main menu
Enter booking playground Choice the playground Choice the date and the time of booking Choice the payment Submit the booking	
	Update the info in database Send notification to the playground owner

Exceptional Scenario

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Actor Action	System Response
Enter his account and login	
	The account is not true
Reset the password	
	send message to player

- **Screen Design**
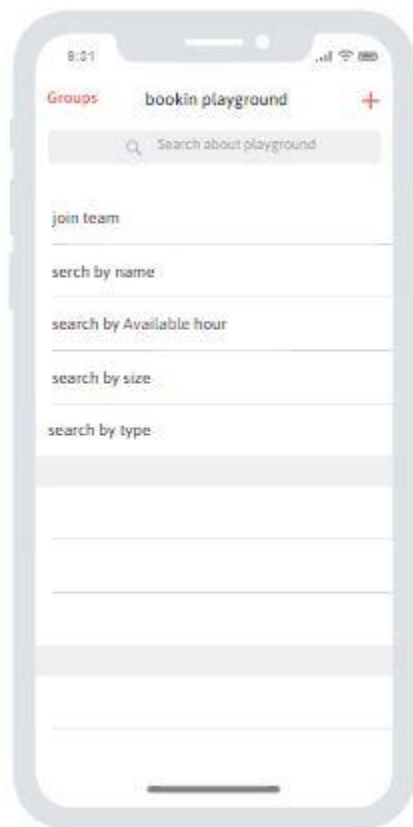
Software Requirements Specifications

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Name of playground	Text/50	Mandatory
The name of the playground owner	Text/50	Mandatory
Playground phone	Number/20	Mandatory
Playground owner phone	Number/20	Mandatory

System Navigation Map
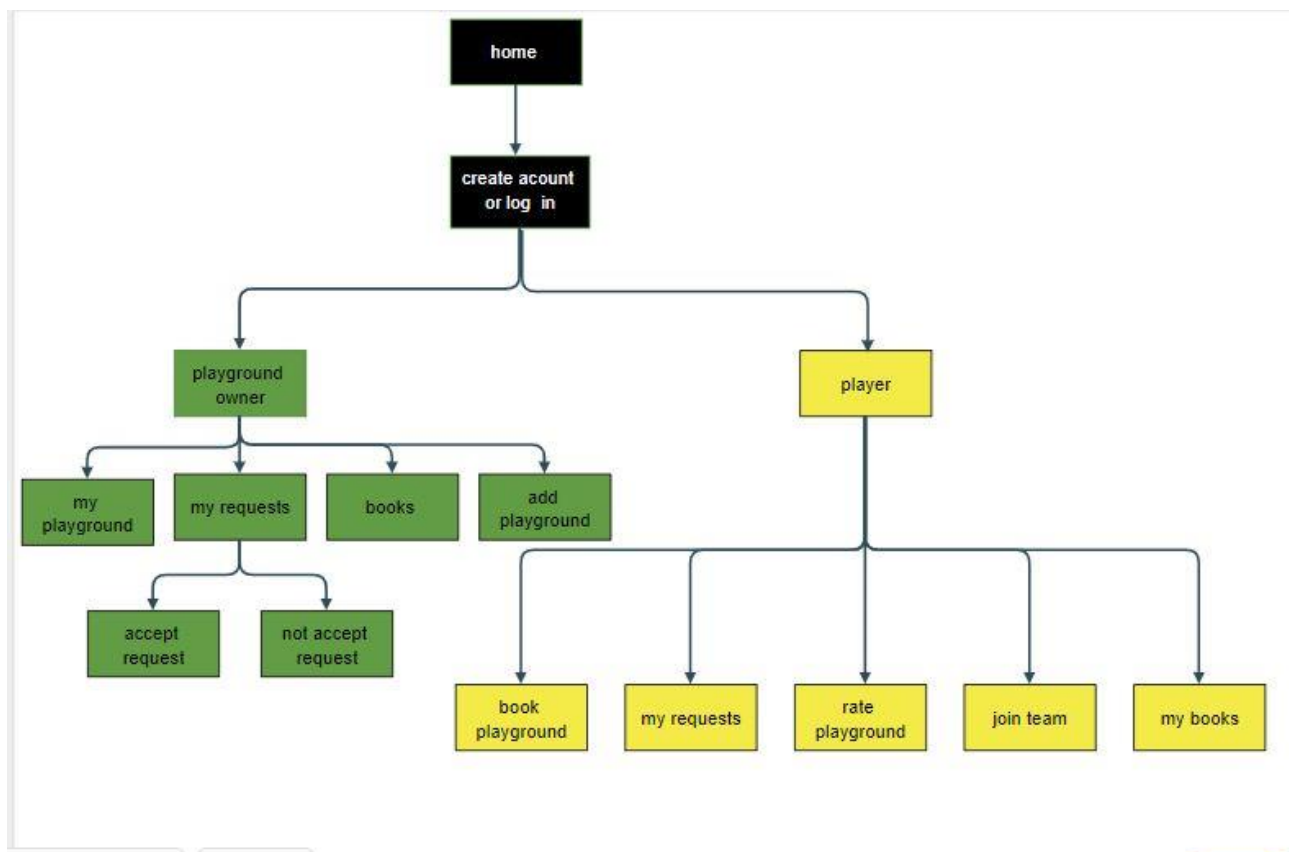
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Tools

1. starUML
2. website: Blank Project - Page · Moqups

Ownership Report

Student	Items he created
Abdallah Saied Salem	Part of Use Case Model, System Navigation Map, user story 1 and 2
Mohamed Khiry Mohamed Zahran	Part of Document Purpose and Audience, Introduction, user story 4 and 5
Mohamed Waheed Mohamed Ahmed	Requirements, user story 3