Software Requirements Specification

Version 1.0

May 1,2021

Web system to manage Al-Wathba Football Club

Prepared by:

Aya Dalati
Asmaa Al-Sekmani
Nour Saleem
Aya Damlakhi

Table of Contents

Table of Contents

1. Introduction

This section gives a scope description and overview of everything included in this SRS document.
The expected audience of this document is the club members and management members in al-wathba club and the developer

1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the "Web system to manage Al-Wathba Football Club" . It will illustrate the purpose and complete declaration for the development of system.
 It will also explain system constraints, interface and interactions with other external applications.
This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

1.2 Scope

This software system will be a Web system to manage Al-Wathba Football Club for *Al Wathba Sports Club members in the football department only ,*
This system is designed to specifically increase the efficiency of the club's administrators' work and help them arrange their records in a way that allows them to access them quickly.
 The system will facilitate the communication process between the management and club members, and between the coaches and the teams they train,
It will also allow players and coaches to view the dates of their upcoming training and matches, and finally this system will also provide an interactive environment for the club's fans to keep them informed with the latest club and players news.
All system information is maintained in a database, which is located on a web-server*.*

1.3 Glossary

Term	Definition
WMS	Al Wathba Club Management System (Web system to manage Al-Wathba Football Club)
Admin/Administrator	System administrator who is given specific permission for managing and controlling the system
Manager	The single person who has the same permissions as an admin in addition to controlling the rest of the admins
User	Someone who interacts with the system including player,coach and fan
Control panel	It is the interface that will appear for both the admins and the manager, which enables him to access all the services available to him
Stakeholder	Any person who has interaction with the system who is not a developer
SQL	Structured Query Language

IEEE	Institute of Electrical and Electronic Engineers
SRS	Software Requirements Specification
Web Site	A place on the world wide web

1.4 References

[1] IEEE Software Engineering Standards Committee, "IEEE Std 830-1998, IEEE Recommended
Practice for Software Requirements Specifications", October 20, 1998
.

1.5 Overview of of Document

The remainder of this document includes three chapters. This chapter also introduces different types of stakeholders and their interaction with the system. Further, the chapter also mentions the system constraints and assumptions about the product. The second one provides an overview of the system functionality and system interaction with other systems.

The third chapter provides the requirements specification in detailed terms and a description of the
different system interfaces. Different specification techniques are used in order to specify the requirements more precisely for different audiences.

2.0 Overall Description

This section will give an overview of the whole system. The system will be explained in its context to show how the system interacts with other systems and introduce the basic functionality of it. It will also describe what type of stakeholders that will use the system and what functionality is available for each type. At last, the constraints and assumptions for the system will be presented

2.1 System Environment

WMS is a website and shall operate in all famouse browser ,for Modeling we are taking Microsoft Internet Explorer,Google Chrome ,Mozilla Firefox with javascript.

2.2 Functional Requirements Specification
Functional Requirements are those that refer to the functionality of the system,
So this section outlines the use cases for Every beneficiary of the system, including the administrator, manger in the first place, as a main users, and each of the players, coaches and fans.

2.2.1 Administrator Use Case
Use Case : Add a new match Diagram
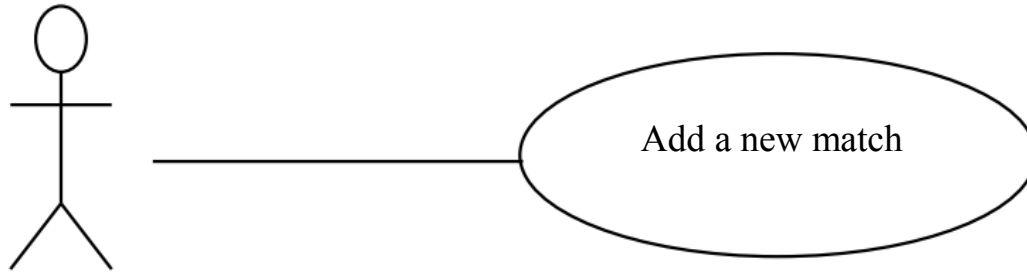
Administrator

Brief Description
The Administrator accesses the Website,logged in, add a new match by add all information about this match in a special form

Initial Step-By-Step Description
Before this use case can be initiated, the Administrator has already accessed the Website and logged in
1. The administrator chooses from his control panel the "Matches" option
2. The admin chooses the option "Add a new match"
2. The system displays special form to the admin.
3. The Admin fill the form with all needed information about the match.
4. The Admin clicks "Add" Button.
Xref: Section 3.2.1, Add a new match

2.2.2 Manager Use Case
Use Case : Add a new Administrator Diagram

Manager

Brief Description
The Manager accesses the Website,logged in, Add a new Administrator by add all information about this Administrator in a special form.

Initial Step-By-Step Description
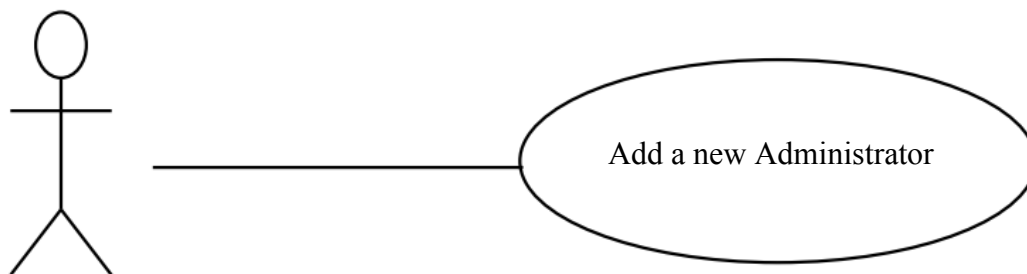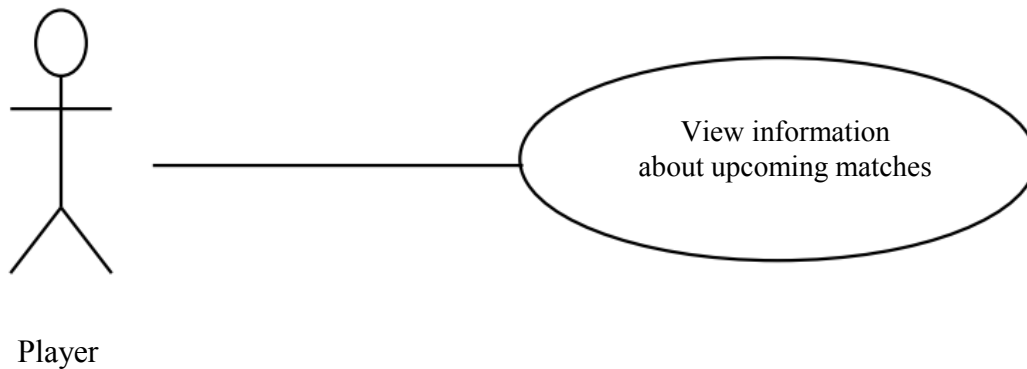Before this use case can be initiated, the manager has already accessed the Website and logged in
1. The manager chooses from his control panel the "Administrator" option
2. The Manager chooses the option "Add a new administrator"
3. The system displays special form to the manager.
4. The Manger fill the form with all needed information about the new Administrator.
5. The Admin clicks "Add" Button.
Xref: Section 3.2.2, Add a new Administrator

2.2.3 Player Use Case
Use Case: View information about upcoming matches Diagram.

View information
about upcoming matches

Player

Brief Description
The Player accesses the Website,logged in, View information about upcoming matches in its news section.

Initial Step-By-Step Description
Before this use case can be initiated, the player has already accessed the Website and logged in
1. The player chooses from his control panel the "News" option
2. The player chooses the "Matches" option
3. The system displays all upcoming matches with all information about each match..
Xref: Section 3.2.3, View information about upcoming matches

2.2.4 Coach Use Case
Use Case: Submit an equipment request Diagram

Coach

Brief Description
The Coach accesses the Website,logged in, Submit an equipments request.
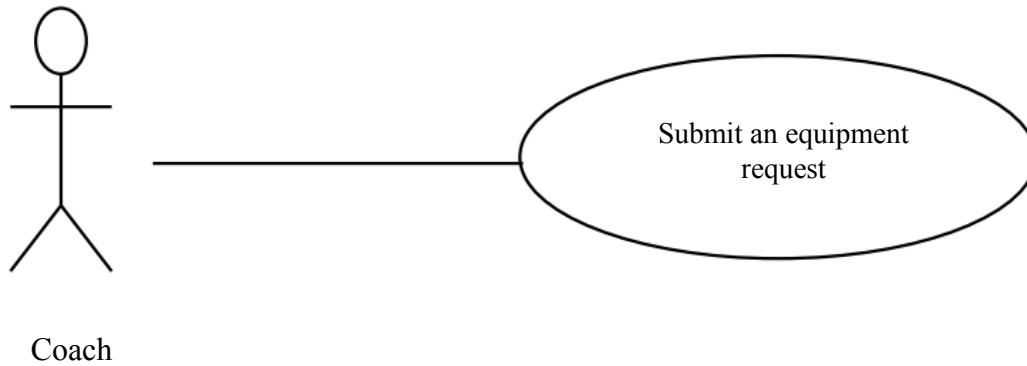
Initial Step-By-Step Description
Before this use case can be initiated, the player has already accessed the Website and logged in
1. The Coach chooses from his control panel the " Equipments request " option
2. The system displays special form to the coach
3. The coach fill the form with all needed information about the needed equipments
4. The coach click the "Submit" button.
Xref: Section 3.2.4, Submit an equipments request.

2.2.5 fan Use Case
Use Case: Read the latest club news Diagram

Read the latest
club news

fan
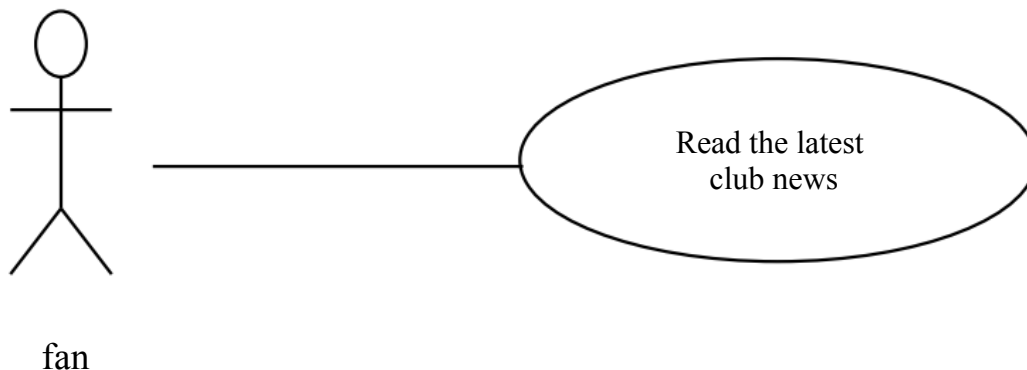
Brief Description
The fan accesses the Website, view and Read the club news.
Initial Step-By-Step Description
Before this use case can be initiated, the fan has already accessed the Website
1. The fan Choose from the main page the "News" tab
2. The system displays a set of articles and news about the club
3. The fan clicks on the news he want to read
4. The system displays the selected news with more details.
Xref: Section 3.2.5, Read the latest club news.

2.3 User Characteristics

Users of WMS are Coach ,Player ,Fan are assumed to have basic Knowledge of computers and internet browsing. administrators and manager of the system should have more khnowledge of internel modules of the system and deal with specific forms.

2.4 Non-Functional Requirements

The system do not require too much e-quipment, and can be easily accessed from a laptop,a desktop computer or any device with an internetconnection.

The information of all users,eqimpment,matches,exercises and news must be stored in a database that is accessible by the website.

MS SQL server will be used as a SQL engin and database

The system does not take more than 10 seconds to matchthe inserted username and password.

The system protect the users account ,when a user types or insert an incorrect username or password in her login page ,the system display an error message .

A user obtainsa result in 5 or 10 seconds after selecting specific choice.

3. Requirements Specification

3.1 External Interface Requirements:

This section gives the description of the interfaces.
The only link to an external system is the link to the Database to verify the membership of a Reviewer.

3.2 Functional Requirements

3.2.1. Add a new match Diagram

Use Case Name	Add a new match Diagram
XRef	Section 2.2.1, Add a new match Diagram
Trigger	The administrator selects to add a new match from his control panel the "Matches" option
Precondition	The Administrator has accessed the his control panel.
Basic Path	1.The administrator chooses from his control panel the "Matches" option 2.Then chooses the option "Add a new match" 3.The system displays special form to the admin 4. The administrator chooses the type of match friendly or outside the province 5. The administrator fills out the form and he determines the two competing teams and The location of the match 6. After completion The Admin clicks "Add" Button.

Alternative Paths	In step 6 if any required field is blank, the Admin is instructed to add an entry. No validation for correctness is made
Postcondition	The match Diagram is updated .
Exception Paths	The administrator may abandon the operation at any time.
Other	The match information includes The place of the, match at the time of the match, The name of the two united teams

3.2.2 Add a new Administrator Diagram

Use Case Name	Add a new Administrator Diagram
XRef	Section 2.2.2, Add a new Administrator Diagram
Trigger	The manger selects to add a new Administrator to the database.
Precondition	The manger has accessed the his control panel
Basic Path	1. The manager chooses from his control panel the "Administrator" option 2. The Manager chooses the option "Add a new administrator" 3. The system displays special form to the manager. to enter the Admin information 4. The manger fill the form with all needed information about the new Administrator. 5. The Admin clicks "Add" Button. 6. The system checks that the name and email address fields are not blank and updates the database.
Alternative Paths	In step5 if any required field is blank, the Manger is instructed to add an entry. No validation for correctness is made ,Return to step 6
Postcondition	The Administrator has been added to the database.
Exception Paths	The manger may abandon the operation at any time.
Other	The Administrator information includes the name mailing address and email address

3.2.3View information about upcoming matches Diagram.

Use Case Name	View information about upcoming matches Diagram.
XRef	Section 2.2.3,View information about upcoming matches Diagram.
Trigger	The player or assesses the Online Journal Website

Precondition	The player has accessed the his control panel
Basic Path	1.The player chooses from his control panel the "News" option 2. The system display list of option 3. The player chooses from list the "Matches" option 4.The system displays all upcoming matches 5.The player determines the match he wants to know the details of it 6. the system display all information from The match chosen
Alternative Paths	None
Postcondition	None
Exception Paths	The attempt may be abandoned at any time.
Other	The match information includes The place of the, match at the time of the match, The name of the two united teams

3.2.4 Submit an equipment request Diagram

Use Case Name	Submit an equipment request Diagram
XRef	Section 2.2.4 Submit an equipment request Diagram
Trigger	The coach selects chooses from his control panel the " Equipments request " option
Precondition	The Coach has accessed the his control panel
Basic Path	1. The Coach chooses from his control panel the " Equipments request " option 2. The system displays special form to the coach 3. The coach fill the form with all needed information about the needed equipments 4. The coach click the "Submit" button. 5.The system verifies the availability of the required equipment in the table in the database, and in the event that the equipment is available, it sends to coach that "your request has been successfully processed"
Alternative Paths	In step5:In the event that there is insufficient equipment, the system saves the request in the list of requests until the equipment table in the database is modified, and it re-checks the previous one
Postcondition	The system Send an email To the coach to accept or reject his request
Exception Paths	The Coach may abandon the operation at any time.
Other	The Coach cannot send another equipment request before the current one is accepted

3.2.5 Read the latest club news Diagram.

Use Case Name	Read the latest club news Diagram
XRef	Section 2.2.5, Read the latest club news Diagram
Trigger	The fan assesses the Al Wathba Club Website and Choose from the main page the "News" tab
Precondition	The fan is on the Communicate page linked from the Online Al Wathba Club Main Page.
Basic Path	1. The fan Choose from the main page the "News" tab 2. The system displays a set of articles and news about the club 3. The fan clicks on the news he want to read 4. The system displays the selected news with more details.
Alternative Paths	In step 3 if the fan clicks on the articles The system displays the Existing articles ,Return to step 4
Postcondition	None
Exception Paths	The attempt may be abandoned at any time.
Other	None

3.3 Detailed Non-Functional Requirements:

The requirements in this section specify the required reliability, availability, security and maintainability of the software system

3.3.1 Reliability:

The reliability that the system gives the right result on a search where 99% of the searches should be right.

3.3.2 Availability:

-The availability of the system when it is used
-The average system availability (not considering network failing)
-The device should be connected to the Internet
-The application should be connected to the GPS device.

3.3.3 Security:

CommunicationSecurity,
Security of the communication between the system and server, Security of accounts, Security of (fans,admins,players,coaches)accounts, The security of creating account for users(Admin,coaches,players) of the system.

3.3.4 Maintainability:

The Web system should be easy to extend. The code should be written in a way that it favors implementation of new functions In order for future functions to be implemented easily to the application.
Test environments should be built for the Web system to allow testing of the Web system different functions In order to test the Web system

3.3.5 Portability:
The WMS should be portable with iOS and Android.