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## Computer Science Department

## Database Systems 333

Software Requirements for: Football Club DBMS

Group # 10

Adnan Asali

Ahmad Al-Zawahrah

Abd Al Raheem Tayeseer

## Summary

Our DBMS will be used generally by Football Clubs whether they were local or international and specifically by all kinds of staff in this football club (coaches, doctors, players, etc..). Moreover, it will be able to sort and store all kinds of staff's data and the club's financial transactions.

## Introduction

Our DBMS is targeting all kinds of football clubs, a football club (such as Barcelona or local Palestinian clubs), has a huge stack of members, staff, players, coaches, so the client will be the manager of this football club.

Our software will help the client in organizing and storing and sorting the data of the club and secure it using specific algorithms. Without a database for a football club, the data of club will be written on papers on any unreliable resource with zero security, data can disappear in multiple ways or be stolen easily especially the sensitive part when we talk about money or wages or any financial aspect of their organization.

Thus our DBMS will make the trusted user reach the any kind of data with a click away, because the club's data will be sorted in a professional manner, which will enhance the readability and manipulation of data and changing it won't be as tiring as before. In addition, the financial aspect will be organized in a way that will make money transactions work all together and change accordingly.

## Data Requirements

Entities:

1. Primary Players.
2. Secondary Players.
3. Stadium.
4. Facilities.
5. Media.
6. Performance.
7. Match.
8. Substitution.
9. Injuries.
10. Doctors.
11. Coaches.
12. Fashion designers.
13. Marketing.
14. Reports.
15. Equipment.
16. Manager.
17. Instructors.
18. Championships.
19. Cups.
20. Transportation.

Description of how entities might connect:

A football club has both primary and secondary players, who play and train under the supervision of the staff of the club such as doctors, coaches, instructors and manage, so they could bring cups for the club itself and win championships, and while playing they might get injured. Moreover , these players wear a specific uniform that makes them distinct from other players in the pitch , and these uniforms need fashion designers and marketing so they could sell these uniforms to the clothing retailers in the world , and these players before they go to any game , they train in the stadium that belongs to the football club they go to , and during their train instructors , doctors and coaches make reports about the performance of these players . When a game is scheduled the travel to it using specific transportation for the team itself to move in such as cars, buses, trains and airplanes.