

Milestone 1 report

Team name: horizon

Members:

Mohamed Ihab Seifeldin Zakaria 7000399 T-1

Sohaila Ibrahim 7000337 T-1

Ahmed Yousry Elghoneimy 7000324 T-1

Website:

First the website we used to design our EERD is erdplus.com

After we finished the design we did a few photoshop edits because of missing features in erdplus.com such as ternary relationships.

Implementation:

Our main thought process was making **user** a parent class for

- 1.Sports Association Manager
- 2.Manager
- 3.Representative
- 4.Fans
- 5.System Admin

We did that as everyone of these must have a unique username, password and user ID.

This inheritance is disjoint and total participation as each user has to be one of these 5 specifically.

Attributes:

For the Entities we added all the attributes that were required in the Milestone description.

Relationships and entity types:

Between the manager and representative we created a relationship called send_request where the representative sends the manager a request(one to one).

Another relationship called acceptance(one to one)to ensure the acceptance of the request with a relationship attribute called accept.

Each manager manages a stadium(one to one)

Each representative represents a club(one to one)

System admin edits stadiums(one to many)

System admin edits clubs(one to many)

System admin can block fans(one to many)

Sports Association Manager can manage matches(one to many)

Each fan can buy tickets(many to many)

Each stadium can host multiple matches(one to many)

Every match has tickets (one to many), tickets weak entity dependent on match
Every match is played by exactly 2 clubs so we made ternary relationship between match and club(one to one to one)

Photo of our EERD for reference:

