CS 340 – Project Proposal with Diagram and Relational Schema, Members: Lorenzo Ayala, Scott Waddington, and Andrew Jolly. Spring 18

Submit a single pdf per group in
Canvas.

Propose a real-world database application for your term project. You will be making a
database driven website using HTML, Javascript, PHP and MySQL.

• Give a detailed verbal description of your project including web application and database. What
are the potential uses of the application and who are the users?

> The application we are creating will be a hub for followers of esports, more specifically the
> Overwatch League. In our application esports fans will be able to register accounts to our
> application which will then allow them to follow Overwatch League teams as well as set
> favorites for their account. Users will also be able to select a team through the user
> interface to a more detailed interface for the specifically selected team which will list the
> teams members as well as some basic stats. The team interface will also show the
> tournaments the team has participated in. From the team interface the user can select a
> player to see a personal profile with more detailed statistics or choose a tournament to
> see the results of the tournament. One possible ability to is to add a highlight feature for
> players/tournaments so that users can get a quick link to the items they are interested in.

• The database must contain at least 5 tables. List some potential
tables.

Potential Tables: Users, Teams, Team-Members,
Member-Statistics, Tournaments, & Tournament-Statistics.

• Provide a list of at least five requirements for the operation/functionality of your project. User
accounts and login will probably be one of the requirements.

- Users can register to the site with a username and password.
- Users can login and logout of registered accounts
- Users can view team information and team members
- Users can also view specific details on desired team members
- Users can also view details/results on past tournaments
- Users can follow/favorite various Overwatch League teams
- Users can highlight specific team members
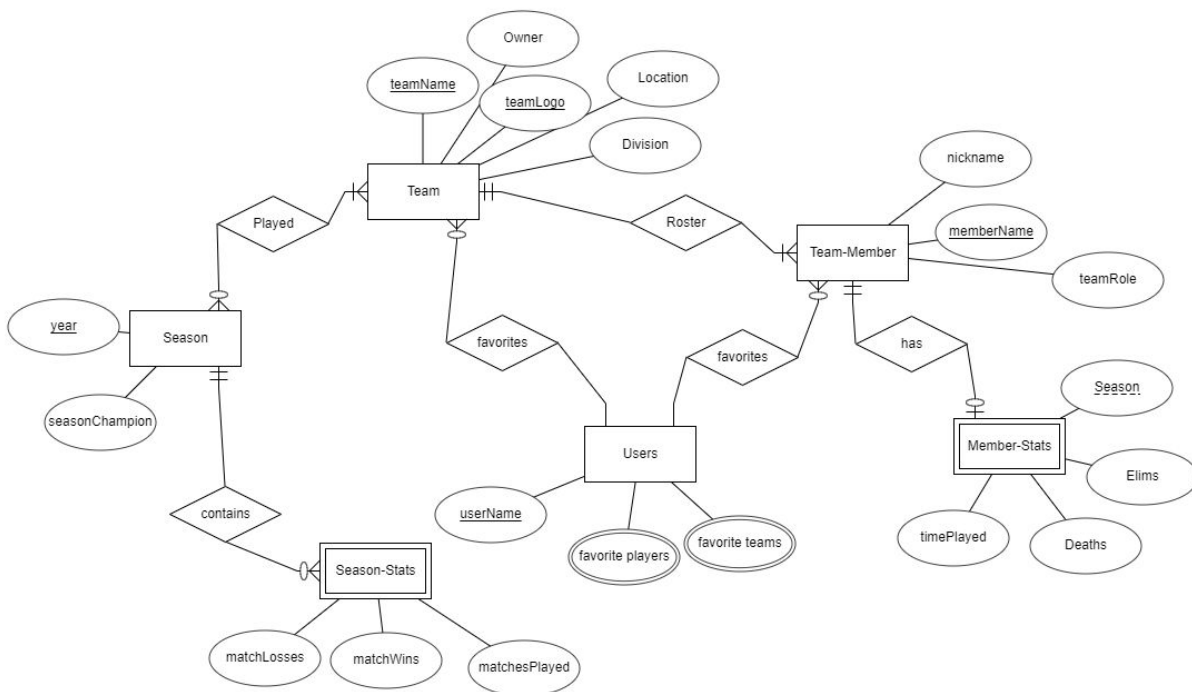- Users can highlight and rate tournaments

• List any "business" rules you must
follow.

- Users must be registered to
  view all league information
- Users can only favorite 2
  teams
- Users can follow as many
  team members as they would

like
- Users can track/highlight as many tournaments as they wish
- Users can rate a tournament on with a scale of 1-5, one submission per tournament

ER Diagram:

Relational Schema:

Played
| teamName | (FK) |
| year | (FK) |

Team
teamName	
teamLogo	(U)
Owner	
Location	
Division	

Season
| year |
| seasonChampion |

Season-Stats
| matchWins |
| matchLosses |
| matchesPlayed |
| year | (FK) |

Team-Member
memberName	
nickname	
teamRole	
teamName	(FK)

Member-Stats
Season	
Elims	
Deaths	
timePlayed	
memberName	(FK)

Users
| userName |

Users_favorite players
| favorite players | |
| userName | (FK) |

Users_favorite teams
| favorite teams | |
| userName | (FK) |