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# **FOOTBALL COMPETITION APPLICATION**

Home project in subject Building Distributed Systems (ICD0009)

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## **Author's declaration of originality**

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

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# **1. Application overview**

## **1.1 Introduction**

The idea is to make a system that consists of database and a webpage which are for non-professional football teams competitions. The problem is that lots of football competitions are all over the place for example some are on Facebook and some in magazines and so on. The idea is to make a complete platform so it is easier to find these kind of events and also list them up as competitions. It is not just going to be a place where it is possible to see future events but also for registration to a certain competition and also keep an eye on it. The client can see how well their team does and what are the results of different games and also the statistics. I want this to be world wide so there can be competitions from different countries. I think this is a great possibility for different teams to easily find places to go where they could grow as players and as a team. It would be amazing for young footballers and their development.

If someone wants to let everybody know that they want to make an event then they can write an email on that webpage to the administrator of the page and the competition gets up on the page for everyone else to see. Idea is preferably to list up free events at the start but if the organiser wants their event to bring in some money then they have to deal with that themselves as for example they charge teams when they actually get to the event(hand-to-hand). It is not meant for big competitions so the thing that organiser would want here is some advertising, fame, popularity. That's their motivation to list up their events.

My own motivation is that this is something that actually interests me and is something that could eventually also be a little income in my eyes. Estonia is quite small and you would think that every little competition is known by everyone but actually there is a big chance to miss out on an amazing opportunity for children or adults to play with their friends on a small football cup just because the event is not publicly seen. This way it is easier to keep an eye on what is happening and where it is happening. I think it is also good to see some statistics because right now the main problem with little competitions is that the organisers can not be bothered to make a specific app or web page about their cup and when players want to know about statistics or games schedule then they have to ask from organisers but I think it should be available on web. This could be a little step towards more developed young footballers and also more active environment in different countries as people would maybe participate more in such events.

## 1.2 Ideas of features

The plan is to make more in depth features as the time progresses but the initial thoughts of features are following:

- Users can see upcoming football events on the main page and on competitions page with sorting and filtering
- Users can register their team(all of the players) to a certain competition or multiple competitions
- Users can list up their competition to the page by writing about it to the owners of application – automatic email box on main page and on extra page
- Admins can let registrations through if everything is appropriate then listed up on page
- Users can see registered teams
- Admins (organiser or his/her team) can list up different events of a game(goal, assist, substitution, penalty) with timemark – depending on the events organiser
- Users can see statistics – top goal scorers, top assists, most red cards, most wins and more (statistics are automatically done depending on the events listed)
- Users can see fixtures and when are they taking place
- Users can see past events

### 1.3 Further development

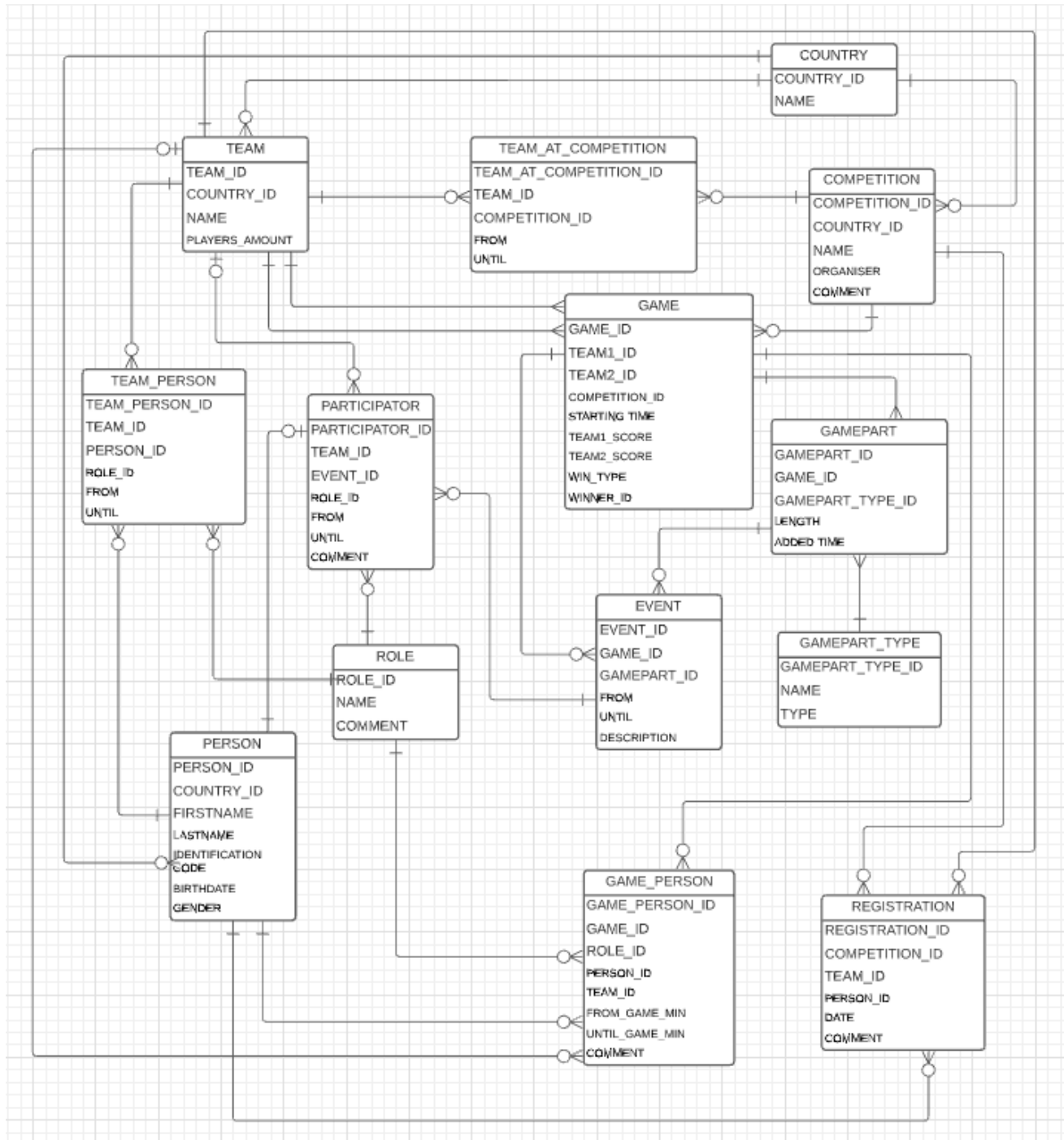
Depending on time and different complexion of features some features like this may be added to already existing ones:

- Automatic check for inappropriate team names, player names – atleast try to sort out the more logical inappropriate messages
- More in detail opportunities to protocol the game
- Rent out some of the page for advertising
- Make a system to collect a fee when event is added to the page
- Make a system to let user pay for different events, so that way competition organiser can make some money

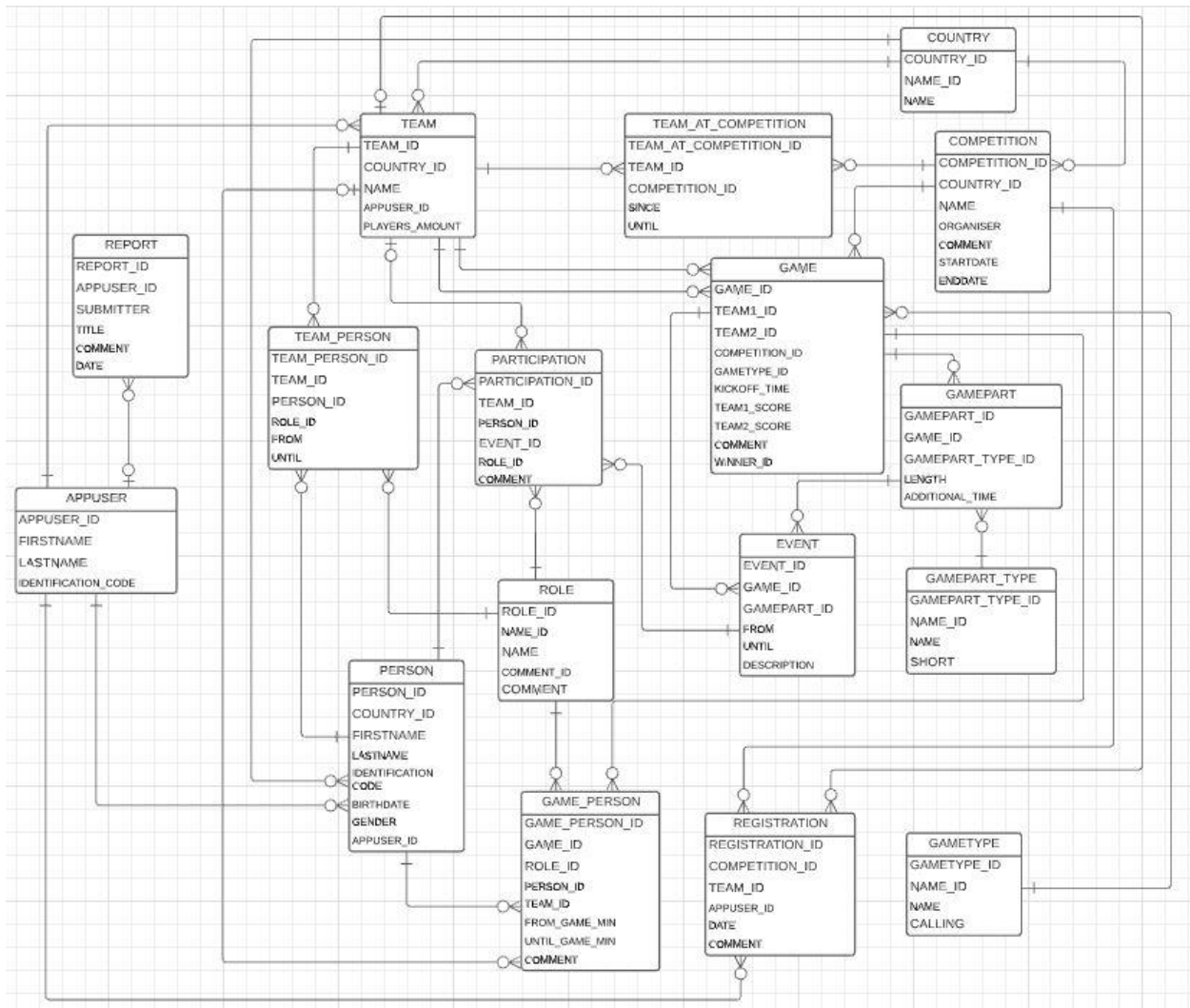
As the project processed I started to realize that the application was much bigger than I had initially thought. I decided to leave out statistics for different players and teams because that way I could maximize the efficiency of adding competitions, teams, players and coaches, players and coaches to different teams and games management. Initial thought was to make three different roles for app users – Team manager, organiser and admin. Team manager would have been able to add teams, players and coaches and add them to teams and also could register to different competitions. Organiser would have been able to manage competitions and games in competitions. Then I thought that why did organiser not have a chance to have their own team and team manager have their own competitions. That led to the option that they could be given another role if they wanted to organize a competition or manage a team. But finally I decided that it would be much nicer app flow if they had a combined role as it is not for licensed teams and competitions so it should not be as restricted. Also I decided to leave out the complex system to register a new competition. I found it not to be a good user experience. Final functionality is that registered user can add competitions and admin has all the time the overview for not appropriate inputs and also the page has a functionality to report a problem so right now the application relies much on the community.

## 1.5 Initial ERD Schema

This is the initial ERD schema and this also may be changed during the creation of the web page and then it will also be documented. This schema is made to execute initial features.

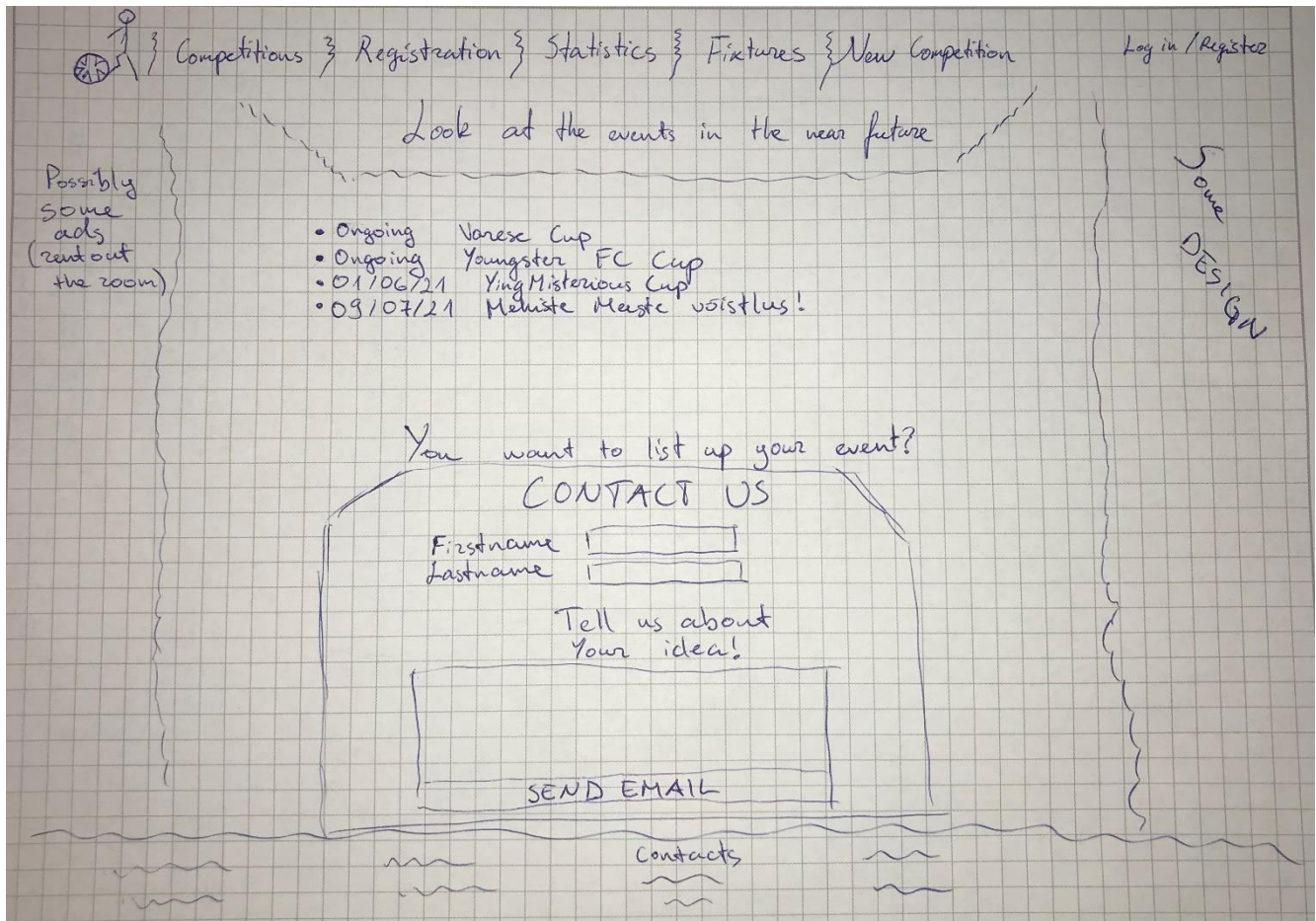


## 1.6 Final ERD Schema





## 1.7 Main page idea



The main page changed also as I decided to leave out the idea of sending an email in case of wanting to register a new competition. Also the layout and design changed quite a bit in the process.