DOI project

Team G9

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13. June 2021

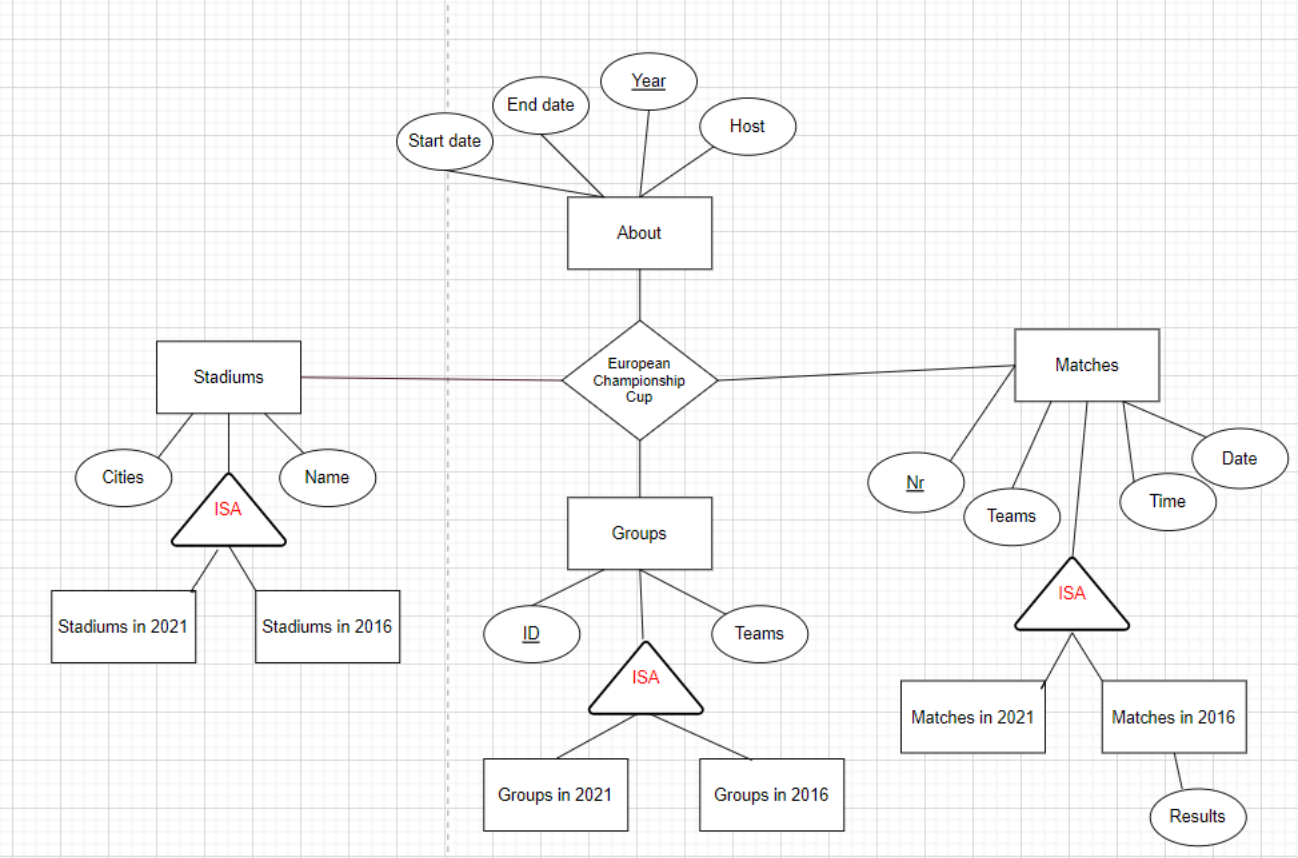
Indholdsfortegnelse

Project

In this project our goal was to create a European Championship Cup website, which interacts with a database. We used to the "The small print"approach, where we started with the bank web-app and tried to understand the code. Then we modified the interface and the database, so it look like our project.

The reason why we used the "The small print"approach was because we had problems with the flask application and the database from the start and we had also a assignment from the another course, which caused that we did not have the time to make the website more advanced.

E/R model



Discussion of modeling choices.

We've created a model with 10 entities; Stadiums, Stadiums in 2021, Stadiums in 2016, Groups, Groups in 2021, Groups in 2016, Matches, Matches in 2021, Matches in 2016, and About. Stadiums, Matches, Groups, and About are linked together by the quaternary-relationship European Championship Cup. We've all their attributes and their primary keys, as they are the most unique and easiest keys to identify each entity.

We've decided to do ISA-relations for Stadiums to Stadiums in 2021, and Stadiums in 2016, as well as for groups and matches with the corresponding 2021 and 2016 entities. The reason for using ISA-relations are that Stadiums inherits the entities Stadiums in 2021, and Stadiums in 2016, so if a change is made in either of the two, Stadiums will be updated as well. Each entity in the ER model is a page on our web-app.

Interaction with the database

If you want to interact with the database, you must go through some initial steps, which we have described in the README-file. First of all you must run the following command "pip install -r requirements.txt"to get all the requirements. Then you can set your database from Postgresql in the __init__.py file and in the login-folder in the python file routes.py, where you type the name of the database and the password. Afterwards you will run the schema.sql and schema_ins.sql-file in your database, to get all tables and data. It will now be possible to compile our web-app, by writing "python run.py"in your terminal.

But if you would like to make a modification in the database, then you can use sql-commands in schema_drop.sql and in schema_ins.sql-file. If you want to modify the tables, you can start by deleting the table by "DROP TABLE IF EXISTS (name of table)"and then insert a new one by "CREATE TABLE IF NOT EXISTS (name of table)". If you want to modify the data, then you can delete them by "DELETE FROM matches"and then insert a new one by "INSERT INTO public.Matches(ID, Teams) VALUES".

Web-app

When loading the web-app for the first time, you will be met by a 'Home'-page. From here there is an interactive navigation-bar at the top of the page as well as a link to the official UEFA-store. If you press any of the options on the navigation-bar, you will be redirected to the other pages.

If the about page is chosen you will see a few details from the database about every European Championship since 2000. If the group page is chosen, a few details about every group from the 2021 Euro is displayed, a link is also on the page that will redirect you to the previous European Championship groups, from when it was in France in 2016. The same feature is used on the pages Matches and Stadiums, but with each of the respective data.