# The Soccer Application

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# What is it?

- Team Management System that includes Team Statistics, Game Statistics, Standings and More.
- Coach Management System that allows coaches to scout other Teams Statistics and Game Statistics.
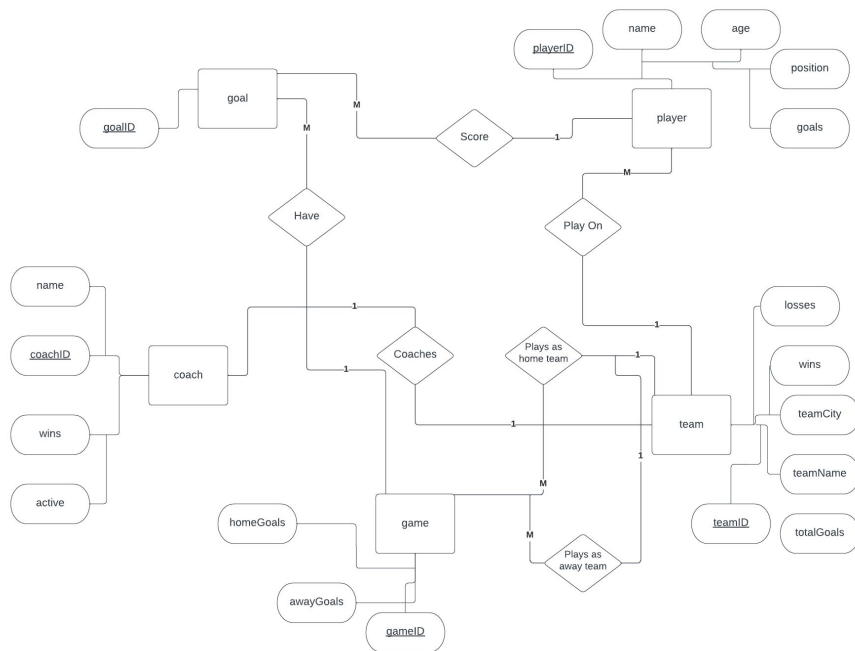- Player Viewing System to view individual Statistics and League Leaders.

# Why would people use it?

- Teams would be able to keep track of adding players, scheduling games, and automatically counting their players season goals.
- Convenient way for coaches to scout other teams
- Allows players to scout against players who are Top 10 in scoring
- Allows for teams and coaches to view Standings easily

# Tables

| team | | | | | | |
|---|---|---|---|---|---|---|
| teamID | teamName | teamCity | totalGoals | wins | losses | coachID* |
| | | | | | | |
| | | | | | | |

| player | | | | | | |
|---|---|---|---|---|---|---|
| playerID | name | age | position | goals | teamID* | |
| | | | | | | |
| | | | | | | |

| coach | | | | |
|---|---|---|---|---|
| coachID | name | wins | losses | active |
| | | | | |
| | | | | |

| game | | | | |
|---|---|---|---|---|
| gameID | homeID* | awayID* | homeGoals | awayGoals |
| | | | | |

| goal | | |
|---|---|---|
| goalID | playerID* | gameID* |

# ER Diagram

# Front-End

- HTML
- CSS

```html
<html>
  <!-- this is setting the backround color of the page -->
  <body style="background-color:rgb(98, 102, 101);">
    <!-- this it for the title for the page -->
    <title> Player Sign-In </title>
    <!-- this centers and changes the color the title at the top of the page -->
    <center><h1 style="font-size: 4rem; color: #c68824">Player Login Page!</h1></ce
    <!-- this is linking the page the a url -->
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
    <!-- this creates the player login text and changes the color as well as linki
    <center><form action = "{{ url_for('player_sign') }}" style="font-size: 4rem; c
      <!-- this creates a box for the user to input there Player ID and sets the co
      <label for="playerID">
        <i class="fas fa-user"></i>
      </label>
      <input type="text" name="playerID" style="font-size: 3rem; color: #26ddd0" p
      <!-- this creates a box for the user to input there Player Name and sets the
      <label for="playerName">
        <i class="fas fa-lock"></i>
      </label>
```

# Back-End

- MySQL
- Python Flask
  - Micro web framework

```
20
21  app = Flask(__name__)
22  app = Flask(__name__, template_folder='template')
23  app.secret_key = "SecretKey"
24
25
26  # Starting screen for the website
27  @app.route("/index")
28  def index():
29
30      # takes us to index.html screen
31      return render_template('index.html')
32
33
34  # this is the coach-sign in html screen
35  # the function will store the session's coachID and coachName
36  @app.route("/coach_sign",methods=['GET','POST'])
37  def coach_sign():
```

# Demo

- [http://127.0.0.1:5000/index](http://127.0.0.1:5000/index)

# Future Development

- Implement a way to input CSV files to add more players, coaches, and teams
- Continue to style every HTML File
- Add comments to all files
- Possibly implementing a way to delete players or delete goals