

Xiangyun Deng

## Final Project Data Checkpoint

### PROJECT CODE

Link to GitHub Repo for final project code:

<https://github.com/DengXiangyun/SI507-Final-Project>

### DATA SOURCES:

Origin URLs:

Players Data: <https://sofifa.com/players>

Teams Data: <https://sofifa.com/teams?type=club>

Nations Data: <https://sofifa.com/teams?type=national> and  
<https://www.fifa.com/fifa-world-ranking/men>

Format: HTML, JSON,

How: I did web crawling and scraping to get information about football players, clubs, and national teams.

Summary of data:

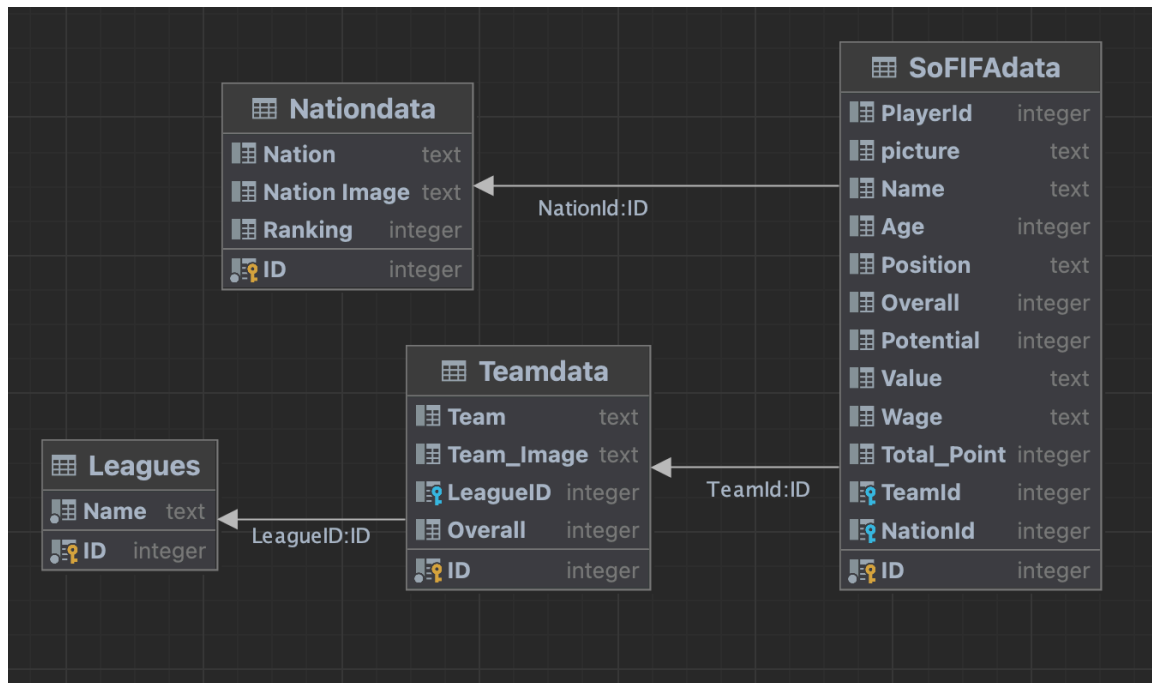
- 1) For players, I scraped 255 records. These players are from 65 different teams (clubs), and 26 different nations.
- 2) All records have been retrieved.
- 3) Description of records:

Field	Type	Description
PlayerId	Integer	Player's id number in FIFA 23 game.
Picture	Text	The url of the player's photo.
Name	Text	Player's name.
Age	Integer	Player's age
Position	Text (List)	List of positions the player could play

Overall	Integer	The overall rating of the player's ability in the game.
Potential	Integer	The potential rating of the player in the game.
Value	Integer	The market value of the player in million euro.
Wage	Integer	The monthly wage of the player in thousand euro.
Total point	Integer	The sum of all ability ratings of the player.
TeamId	Integer	The id of a team (/club).
Team	Text	The name of a team
Team Image	Text	The url of a team's logo
Team overall	Integer	The overall rating of a team in FIFA 23 game
LeagueId	Integer	The id of a league
League name	Text	The name of a football league
NationId	Integer	The id of a nation
Nation	Text	The name of a nation.
Nation Image	Text	The url of a nation's flag
Ranking	Integer	The world ranking of a men's football national team by FIFA.

### **DATABASE:**

I used sqlite3 generated a database named 'SoFIFA.db', which has four tables and the scheme is below:



## INTERACTION AND PRESENTATION PLANS:

Approach: Flask

I plan to use Flask to design a submission form for the users to select what kinds of players they want to know. The form for users should look like this:

**Welcome to the FIFA 23 Great Players Brower!**

**Select by:**

- Nationality
- League
- Team
- Position

**Sort by:**

- Age
- Overall Rating

- Potential Rating
- Market Value
- Wage
- Total Points

### Sort Direction:

- High to Low
- Low to High

### How many players do you want to see?

The presentation to users should look like this:

### Here are your results:

Player ID	Name	Age	Position	Overall Rating	Potential	Value	Wage	Total Point	Team	Nationality
231747	K. Mbappé	23	['ST', 'LW']	91	95	190.5M	230K	2177	Paris Saint Germain	France
188545	Robert Lewandowski	33	['ST']	91	91	84M	420K	2205	FC Barcelona	Poland
165153	Karim Benzema	34	['CF', 'ST']	91	91	64M	450K	2147	Real Madrid	France
20801	C. Ronaldo	37	['ST']	89	89	35M	210K	2130	Manchester United	Portugal
239085	Erling Haaland	21	['ST']	89	94	160M	230K	2123	Manchester City	Norway