SIGNATURE ASSIGNMENT-

Milestone B

Individual work

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# **Introduction**:

"FIFA 19" is a football sports game produced and published by Electronic Arts. I retrieve the data from Kaggle. This dataset contains not only features of all the football players in FIFA, including all the player attributes, ability level, and images. But also, the attributes of players play style statistics like Dribbling, Aggression, GK Skills, etc.

The original dataset has 89 columns and my project is to do the football game analysis and make a database to contain all the football club information and player attributes. My database should allow users to do the advanced search base on a player name, club name, overall performance score, and best player at different positions. So database user can create their dream team.

# **Database System Analysis and Design：**

## User Profiles：

## (1) Management of **player** information, management of Nationality, Photo, Club, Age, Wage, Salary, etc. of current players

## (2) management of **club** information. management of each player information and position at this club and the **club** information such as club name and logo image

## (3) **Attributes** tables contains information about the player attributes and play styles and performance level

## (4) **POSITION** table contains all of the positions in the football game and all the players that plays this position in this game

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Business Rules：

1. Each player only have one attribute that indicates his playing style and overall performance
2. Each club have multiple players in a different position
3. Each player have a player ID
4. Each club have a club ID and club image
5. Database and do the player ranking base on the attribute score
6. Database and do the ranking of different position
7. Attributes and be updated by the player current performance
8. Each player should have a club name and position
9. Each attribute should have one overall performance score
10. Database allows ranking search based on overall performance score

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## Database Design：ERD