**Soccer Central**

**Project Members:**

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**Introduction and Overview**

With over 6 million players, Fantasy Premier League is the biggest Fantasy Football game in the world. It is a platform for soccer enthusiasts around the world to come together in a friendly atmosphere to predict scores, create teams, and envision life as a soccer manager. The purpose of our project would be to provide a platform for integration of all the attributes of a player, team or club based on FIFA statistics. The web application will be a place for looking up player information ranging from overall score to preferred foot and net worth. The data would be structured and visualized using the attributes to provide a comprehensive understanding of a player or team based on numerical values of their attributes. For example, we would like to create a feature for a user to find out the strongest team in terms of offense in the FIFA 2018 World Cup or the team that is stronger based on the combined overall of all its players. Some of the other features possible with the data are as follows:

* Query the database to find the stats and other attributes of players
* Find all the players of a club/national team.
* Add filters on 2. to display players with certain attributes such as position/value/age etc.
* Correlate between age and overall rating
* Correlate between value and overall rating
* Correlate between age and potential
* Use k-mean clustering to segregate players with similar features
* Calculate increase/decrease in overall rating or specific traits between 2018 and 2019 datasets
* Build a dream team with total budget as a constraint

**Project Design and Methods**

Data Collection Method: <https://www.kaggle.com/karangadiya/fifa19>

Secondary Data: <https://www.kaggle.com/thec03u5/fifa-18-demo-player-dataset>

**Computer Methodologies**

* Information system: Data Mining (K-mean Clustering)
* Libraries and Frameworks: React.js, D3.js, Node.js, Bootstrap.css
* Human centered computing: Data Visualization, MySQL

**Timeline:**

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| Date | To Do |
| 09/30/2019 | Submit Project Proposal |
| 10/01/2019 – 10/14/2019 | Collection of Data |
| 10/14/2019 – 10/28/2019 | Entering data in Database , Creating Tables |
| 10/28/2019 | Submission of Project Progress Report |
| 10/29/2019- 11/30/2019 | Coding , development of Front end and Backend, Mapping , Project testing |
| 12/04/2019 | Presentation |
| 12/16/2019 | Submission of Final project |

**References**