# Milestone 7

**Project Name:** Sports Doc

**Members:**
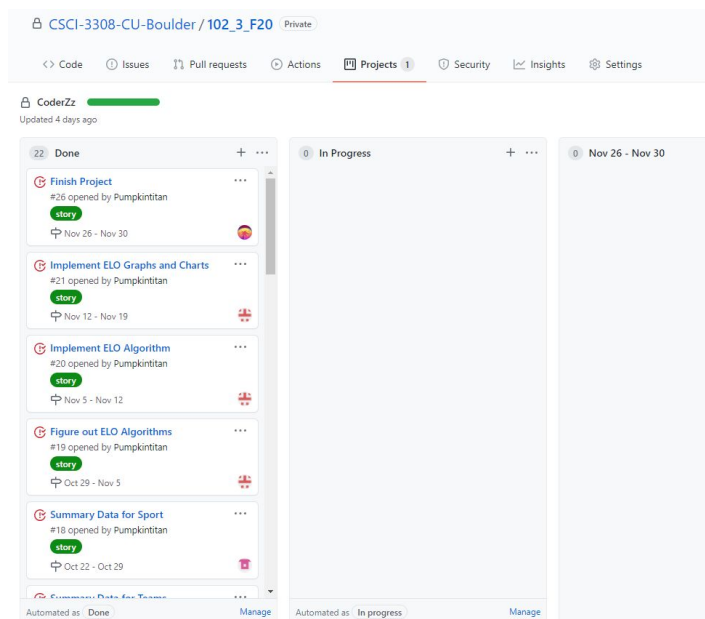Enrico Blackwell
Henry Scott
Julian Abam
Evan Swett
Sayed Abdulmohsen Alhashemi

**Project Description:**

Sports Doc is intended to be a unifying website for viewing stats about sports teams and players across four different sports. The website provides graphs and other interesting information about individual players and their teams, and provides a robust system for searching for these players and teams. We also offer a way to compare teams against each other, with a side by side view of stat graphs, and comparing teams with simulate Elo scores, which is the system used by chess for rating individual players and their chances against each other. The Elo system was a major goal of the project, it takes in game data over a number of years and uses it to calculate an estimated Elo score for each team over that timespan. The website has been very carefully constructed to be both functional and aesthetically pleasing. We used a number of tools to accomplish this, among them are Node.js, React.js, Chart.js, Python, and PostgreSQL. The website operates as an express web server running alongside a second express API used to fetch information and statistics from our database. Our database holds all of our data for teams, games, and players, as well as some other logistic information, which was painstakingly gathered from several different sources.

**Project Tracker:** https://github.com/CSCI-3308-CU-Boulder/102_3_F20/projects/1
**VCS:** https://github.com/CSCI-3308-CU-Boulder/102_3_F20
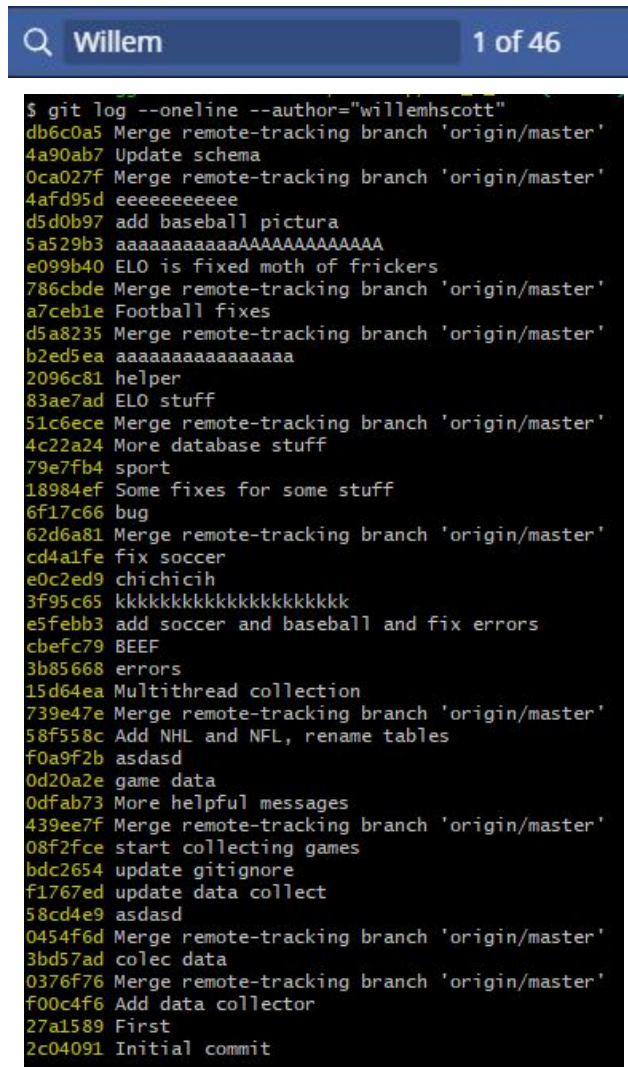
# <u>Contributions</u>

## Enrico

I focused on the node API that transferred data from the database to the front-end of the app. I used express and a PostgreSQL library to make database calls and send the results to the react part. I also helped on the routing side of the application and a lot of the functional javascript to make React actually work.

# Henry

My primary focus was on the back end. I worked to both populate and maintain the database with the data that was necessary to power the frontend. I used Python to populate the PostgreSQL database. I also designed the system we would be using to calculate and serve information about team Elo scores.

```
$ git log --oneline --author="willemhscott"
db6c0a5 Merge remote-tracking branch 'origin/master'
4a90ab7 Update schema
0ca027f Merge remote-tracking branch 'origin/master'
4afd95d eeeeeeeeeee
d5d0b97 add baseball pictura
5a529b3 aaaaaaaaaaaAAAAAAAAAAAAA
e099b40 ELO is fixed moth of frickers
786cbde Merge remote-tracking branch 'origin/master'
a7ceb1e Football fixes
d5a8235 Merge remote-tracking branch 'origin/master'
b2ed5ea aaaaaaaaaaaaaaaa
2096c81 helper
83ae7ad ELO stuff
51c6ece Merge remote-tracking branch 'origin/master'
4c22a24 More database stuff
79e7fb4 sport
18984ef Some fixes for some stuff
6f17c66 bug
62d6a81 Merge remote-tracking branch 'origin/master'
cd4a1fe fix soccer
e0c2ed9 chichicih
3f95c65 kkkkkkkkkkkkkkkkkkkkkkk
e5febb3 add soccer and baseball and fix errors
cbefc79 BEEF
3b85668 errors
15d64ea Multithread collection
739e47e Merge remote-tracking branch 'origin/master'
58f558c Add NHL and NFL, rename tables
f0a9f2b asdasd
0d20a2e game data
0dfab73 More helpful messages
439ee7f Merge remote-tracking branch 'origin/master'
08f2fce start collecting games
bdc2654 update gitignore
f1767ed update data collect
58cd4e9 asdasd
0454f6d Merge remote-tracking branch 'origin/master'
3bd57ad colec data
0376f76 Merge remote-tracking branch 'origin/master'
f00c4f6 Add data collector
27a1589 First
2c04091 Initial commit
```

# Abdul

 I designed the front end for the whole site with some help from Enrico for routing the different components. Created the color palette for the website. Styled the graphs on every player and team page, dynamically assigned data to each graph plot based on the sport and whether the user was viewing a team's stats or a player's stats, and in the case of Football, for specific positions played by certain players. Dynamically assigned data to different stat fields for each sport's players and teams. Implemented the "Add Player" and "Add Team" cards on each sports player/team pages so that users can compare the stats of 2 players, and in the case of teams, can see the win rate of a team against any other given team (using elo functions written Henry) Created the sidebar as well as doing all CSS with help from Enrico. Below is my commit history.
**Color Palette I Made:** https://coolors.co/000c16-001427-005fb8-2a9d8f



```
Q  Abdul                                    1 of 44
```

```
952cd29 (HEAD -> master, origin/master, origin/HEAD) Merge remote-tracking branc
h 'origin/master'
56ea823 Final Commit
ab6b4a5 Merge remote-tracking branch 'origin/master'
9b8c9dc Football Stats Nearly Done
9f7c6a8 Merge remote-tracking branch 'origin/master'
b1d89c5 Functionally Basketball + Baseball Teams Done
365443a Demo Front-End
c89e4b7 Merge remote-tracking branch 'origin/master'
2b8cde5 DOOBEEDOOBEEDOOBAA
237be4b Merge remote-tracking branch 'origin/master'
978b3fd Polishing Stuff
7762f05 Merge remote-tracking branch 'origin/master'
e8f6328 Bico push
0634b5d Add Player works!
724d90d Merge remote-tracking branch 'origin/master'
57c21de Hot Mess
8536201 Merge remote-tracking branch 'origin/master'
fa5c06b work work
a1eefca Front End BS
51692c3 CSS Test
d4a66d1 Merge remote-tracking branch 'origin/master'
70fc971 Merge remote-tracking branch 'origin/master'
:...skipping...
952cd29 (HEAD -> master, origin/master, origin/HEAD) Merge remote-tracking branch 'origin/master'
56ea823 Final Commit
ab6b4a5 Merge remote-tracking branch 'origin/master'
9b8c9dc Football Stats Nearly Done
9f7c6a8 Merge remote-tracking branch 'origin/master'
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57c21de Hot Mess
8536201 Merge remote-tracking branch 'origin/master'
fa5c06b work work
a1eefca Front End BS
51692c3 CSS Test
d4a66d1 Merge remote-tracking branch 'origin/master'
70fc971 Merge remote-tracking branch 'origin/master'
50ca579 Auto stash before merge of "master" and "origin/master"
3c1d08b Hot Mess of Garbo
1b5b278 Per Sport Player Stats and Finished Team Stats
2542ef4 Removed Duplicate Values
e68c06a Clean Up (Part 1)
8efefcd Dynamic Stat Graphs (Basketball)
9bbb0ed Merge branch 'master' of https://github.com/CSCI-3308-CU-Boulder/102_3_F20
60e4318 minor fix in server.js
4bf4895 Merge branch 'master' of https://github.com/CSCI-3308-CU-Boulder/102_3_F20
2dc00d9 Implementing Enrico's Search Bar Mod
13b2816 Added Player Stat Graphs
cadb8bc Front End Overhaul
6fa34dd Added Sidebar and Components folder
```

# AJ

Most of my work featured stylizing the front end, specifically adding stylizations, as well as implementing the charts for each player. Due to the issues that we experienced with Canvas.JS, the group agreed to switch to react-chart.Js 2 in order to create charts with React. I also worked on helping the team implement our project planning as well as the implementation of the Agile Manifesto that enabled us to successfully accomplish our goals.

```
ba487a3 Player Chart
83a2b03 styling
77be38d Merge remote-tracking branch 'origin/master'
7dacc1a test
511a191 Merge remote-tracking branch 'origin/master'
cb8a43c frontend
4c4efc1 frontend
```

# Evan

The majority of my work was on designing the chart js graphs. Specifically using the third party react-chartjs-2 so that chartjs' HTML design could be wrapped by React. I also helped Abdul with front-end design when it was needed.

```
$ git log --oneline --author="evsw"
7865d7c Merge remote-tracking branch 'origin/master'
b88effb Team Info CSS
6b06ae9 chart update
328872a Merge remote-tracking branch 'origin/master'
0fd5b98 packages for react-chartjs-2
ab96260 packages for chartJS
90e1c9b playa page
091ef04 changed file name
9d1f39f React player info
0f1d089 player info with graph
c30f6a8 playerProfSkeleton
95ba9a2 look at my changes
c78348b bofa
c552986 Evan's message
```

**Deployment:** http://3.17.77.33/
We are serving this on an aws EC2 instance.