Progress Report – Milestone 2

Previously, we used a “NBA Stats” and “NCAA Stats” attributes as placeholders for the player performance data in the E/R diagram and table. Now that we have retrieved actual data, we can add the exact player performance metrics that we will use to the diagram. The revisions are shown below. Furthermore, a chart detailing the abbreviations is also shown below, along with their different names in both data files and the database we have created. We have also decided on using Python as our platform. To build the frontend, we are using Flask, a micro web framework for Python.

E/R Table with Statistics Added:

* Player(name, draft\_rank, year, GP, MP, PTS, FG, FGA, FG%, 2P, 2PA, 2P%, 3P, 3PA, 3P%, FT, FTA, FT%, ORB, DRB, TRB, AST, STL, BLK, TOV, PF, TS%, eFG%, )
* College(name)
* Season(year)
* playedFor(player\_name,school\_name,start\_year,end\_year)
* hadRecord(name,year,record)
* hadPerformance(player\_name, year, GP, MP, PTS, FG, FGA, FG%, 2P, 2PA, 2P%, 3P, 3PA, 3P%, FT, FTA, FT%, ORB, DRB, TRB, AST, STL, BLK, TOV, PF, TS%, eFG%)



We used a csv dataset to obtain the rookie NBA player performance data1. This is contained in a file called nbarookiedata.csv. This did not contain statistics on draft data, so we found another csv dataset called draft.csv2. We then used a Python scraper script found on GitHub (https://github.com/sshleifer/nbaDraft/blob/master/scrapers/boxscore\_stats.py) to obtain NCAA data from Draft Express to a file called ncaa2.csv3.

1 https://www.basketball-reference.com/play-index/psl\_finder.cgi?request=1&match=single&type=totals&per\_minute\_base=36&per\_poss\_base=100&season\_start=1&season\_end=1&lg\_id=NBA&age\_min=0&age\_max=99&is\_playoffs=N&height\_min=0&height\_max=99&year\_min=2001&year\_max=2017&birth\_country\_is=Y&as\_comp=gt&as\_val=0&pos\_is\_g=Y&pos\_is\_gf=Y&pos\_is\_f=Y&pos\_is\_fg=Y&pos\_is\_fc=Y&pos\_is\_c=Y&pos\_is\_cf=Y&order\_by=season

2 https://www.basketball-reference.com/play-index/draft\_finder.cgi?request=1&year\_min=2001&year\_max=2016&college\_id=0&pos\_is\_g=Y&pos\_is\_gf=Y&pos\_is\_f=Y&pos\_is\_fg=Y&pos\_is\_fc=Y&pos\_is\_c=Y&pos\_is\_cf=Y&order\_by=ws

3 https://github.com/sshleifer/nbaDraft/blob/master/scrapers/boxscore\_stats.py