
COMS W4115 Programming Languages and Translators

(Professor: Stephen A. Edwards)

Project Proposal: Fantasy Football Stat Tracker Compiler

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1 Description

My inspiration for designing a Fantasy Football Stat Tracker compiler transpired while participating in a fantasy football league with some friends. While the cost for participating in the fantasy football league is free of charge, most of the online fantasy football services charge a bundle for using their online stat tracker. Considering the circumstances for not willing pay for something when I obtain it for free, this is my opportunity to design a compiler for Stat Tracking.

The features of the Fantasy Football Stat Tracker compiler will contain the following:

- Sorting algorithm for player stats
- Filtering for position by offense, defense, or specific position.
- Stats comparison by previous week or previous year
- Search function for players in the database
- Semantic checks for errors
 - o Adding receiving stats to a defensive player will cause an error.
 - o Adding field goal stats to a quarterback will be invalid.
 - Adding 1-point conversion stat to a quarterback will be invalid; however, a 2-point conversion will be valid.

Keywords:

- sort
- retrieve
- report

- compare
- search

Comments:

@This is a comment@

Data Type Identifiers:

These data types represent various types of scoring

- OB
- RB
- WR
- KKR
- TE
- DEF
- DPLY
- rshYards

- rcvYards
- passYards
- passINT
- rshTD
- rcvTD
- passTD
- fumLost

2 Code Snippet #1

```
QB myStartingQB;
RB myStartingRB;

rshYards QBrushYards;
passYards QBPassYards;
passTD QBPassTD;

@ Retrieve to stats for Bret Favre@
myStartingQB {retrieve: "Favre"};

@ Print the stats for my starting quarterback. Option 1 prints all statistical categories @
myStartingQB {report: 1, 2006};
```

3 Code Snippet #2

@ Sort by most rushing yards and return top 10, stored in array tempRB@ tempRB[10] = myRB {sort: RBrushYards, 10}

4 Code Snippet #3

RB betterRB;

@ Compare the 2006 stats for two running backs and return the running back with better stats@

betterRB = {compare: 2006, "Westbrook", "Alexander"};