

Project proposal

Team Name: Team member 1, Team member 2, Team member 3, Team member 4

Update date

Section 1. Introduction

```
library(tidyverse)
```

```
## -- Attaching packages -----  
## v tibble  3.0.3      v purrr  0.3.4  
## v tidyr   1.1.1      v dplyr  1.0.1  
## v readr   1.3.1      v forcats 0.5.0  
  
## -- Conflicts -----  
## x lubridate::as.difftime() masks base::as.difftime()  
## x lubridate::date()        masks base::date()  
## x dplyr::filter()          masks stats::filter()  
## x readr::guess_encoding()  masks rvest::guess_encoding()  
## x lubridate::intersect()   masks base::intersect()  
## x dplyr::lag()             masks stats::lag()  
## x purrr::pluck()           masks rvest::pluck()  
## x lubridate::setdiff()     masks base::setdiff()  
## x lubridate::union()       masks base::union()
```

```
library(broom)  
library(knitr)
```

```
shots <- read_csv("data/shot_logs.csv")
```

```
## Parsed with column specification:  
## cols(  
##   .default = col_double(),  
##   MATCHUP = col_character(),  
##   LOCATION = col_character(),  
##   W = col_character(),  
##   GAME_CLOCK = col_time(format = ""),  
##   SHOT_RESULT = col_character(),  
##   CLOSEST_DEFENDER = col_character(),  
##   player_name = col_character()  
## )  
  
## See spec(...) for full column specifications.
```

Section 2. Data description

Section 3. Glimpse of data

```
glimpse(shots)
```

```

## Rows: 128,069
## Columns: 21
## $ GAME_ID          <dbl> 21400899, 21400899, 21400899, 21400899, ...
## $ MATCHUP          <chr> "MAR 04, 2015 - CHA @ BKN", "MAR 04, 201...
## $ LOCATION         <chr> "A", "A", "A", "A", "A", "A", "A", "A", ...
## $ W               <chr> "W", "W", "W", "W", "W", "W", "W", "W", ...
## $ FINAL_MARGIN     <dbl> 24, 24, 24, 24, 24, 24, 24, 24, 24, 1, 1...
## $ SHOT_NUMBER      <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 1, 2, 3, 4, 1...
## $ PERIOD           <dbl> 1, 1, 1, 2, 2, 2, 4, 4, 4, 2, 2, 4, 4, 4...
## $ GAME_CLOCK       <time> 01:09:00, 00:14:00, 00:00:00, 11:47:00,...
## $ SHOT_CLOCK       <dbl> 10.8, 3.4, NA, 10.3, 10.9, 9.1, 14.5, 3....
## $ DRIBBLES         <dbl> 2, 0, 3, 2, 2, 2, 11, 3, 0, 0, 8, 14, 2,...
## $ TOUCH_TIME       <dbl> 1.9, 0.8, 2.7, 1.9, 2.7, 4.4, 9.0, 2.5, ...
## $ SHOT_DIST        <dbl> 7.7, 28.2, 10.1, 17.2, 3.7, 18.4, 20.7, ...
## $ PTS_TYPE         <dbl> 2, 3, 2, 2, 2, 2, 2, 2, 3, 3, 3, 2, 2, 3...
## $ SHOT_RESULT      <chr> "made", "missed", "missed", "missed", "m...
## $ CLOSEST_DEFENDER <chr> "Anderson, Alan", "Bogdanovic, Bojan", "...
## $ CLOSEST_DEFENDER_PLAYER_ID <dbl> 101187, 202711, 202711, 203900, 201152, ...
## $ CLOSE_DEF_DIST   <dbl> 1.3, 6.1, 0.9, 3.4, 1.1, 2.6, 6.1, 2.1, ...
## $ FGM              <dbl> 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 1, 0...
## $ PTS              <dbl> 2, 0, 0, 0, 0, 0, 0, 2, 0, 0, 0, 2, 2, 0...
## $ player_name      <chr> "brian roberts", "brian roberts", "brian...
## $ player_id        <dbl> 203148, 203148, 203148, 203148, 203148, ...

```