

Batter on Deck: Final Project Proposal

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What Are We Building?

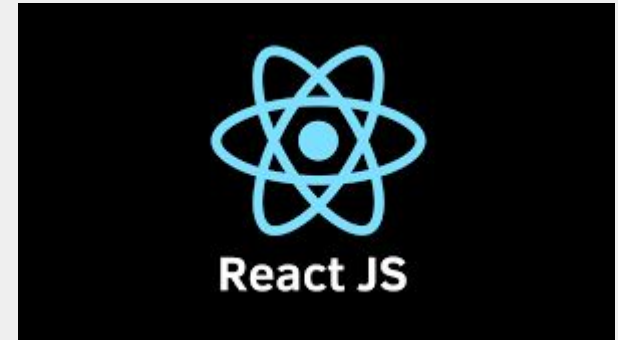
- Goal: create a reliable resource to navigate *statistical relationships* throughout Major League Baseball (MLB) history.
- Well-defined and limited user capabilities
- Accessible, modern, and friendly UX experience

Why Are We Building This?

- **Baseball is built off statistics:**
 - Statistical measurements are arguably more important in baseball than any other sport
 - Huge sample size, useful for player comparison, tons of depth
 - Important to fan base and strong ties to history
- **Provide something new but simple:**
 - Most sites: only contain player and team stats by season
 - Ours: combines various statistics to reveal insightful relationships about team and player performance

Stack

- Back End
 - Python
- Front End Framework
 - React



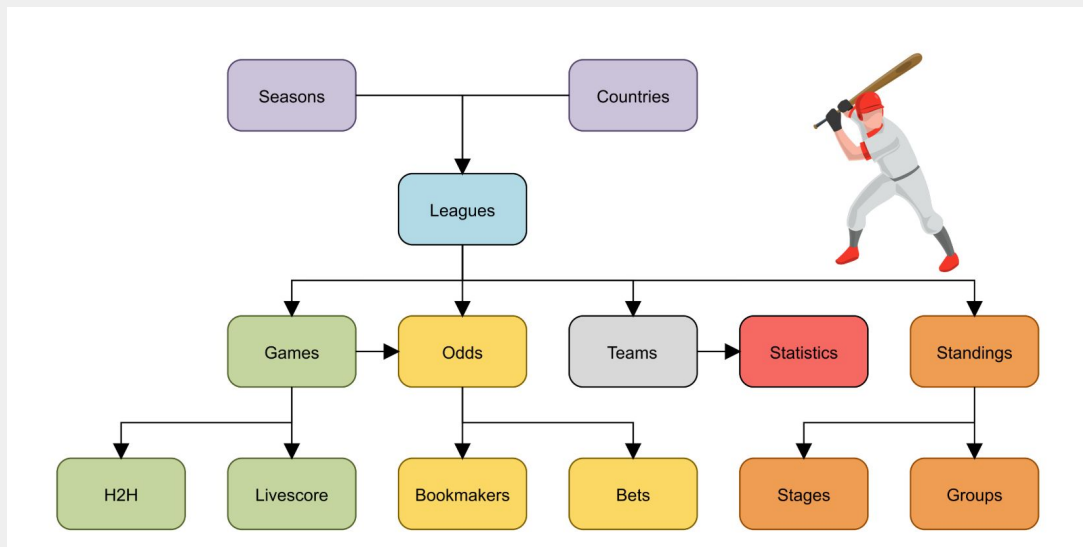
3 APIs Researched – MLB Data

- Information Available
 - MLB only
 - Game, Season, Career stats by Player and Team
- Data Format
 - .json
- Cost
 - Free

- ▶ Reports
- ▶ Stats Data
- ▶ Player Data
- ▶ Game Data
- ▶ Team Data

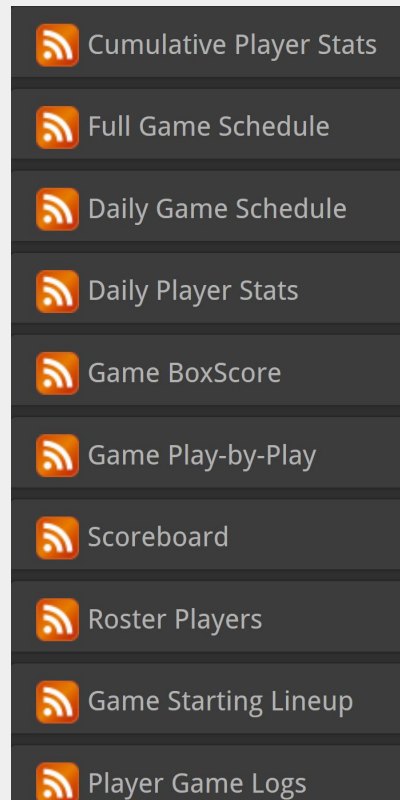
3 APIs Researched - API-Baseball

- Information Available
 - Worldwide Baseball League Data
 - Odds, Historical, Seasonal, Game data
- Data Format
 - .JSON
- Cost
 - Free



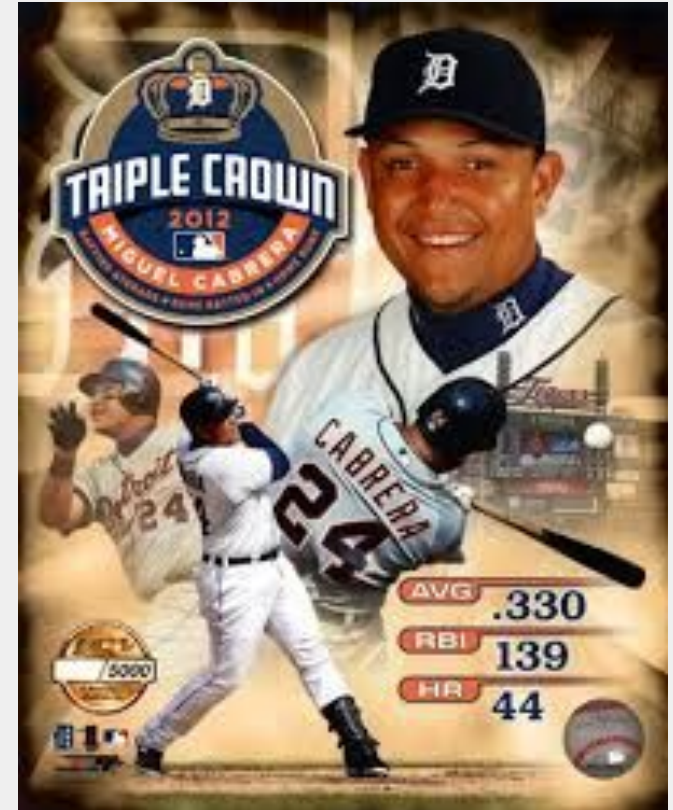
3 APIs Researched – My Sports Feed

- Information Available
 - MLB only
 - Standings, Team, and Player Data
- Data Format
 - .json, .xml, .csv
- Cost
 - 0-\$1799 depending on speed of API



Three Tables/Graphs

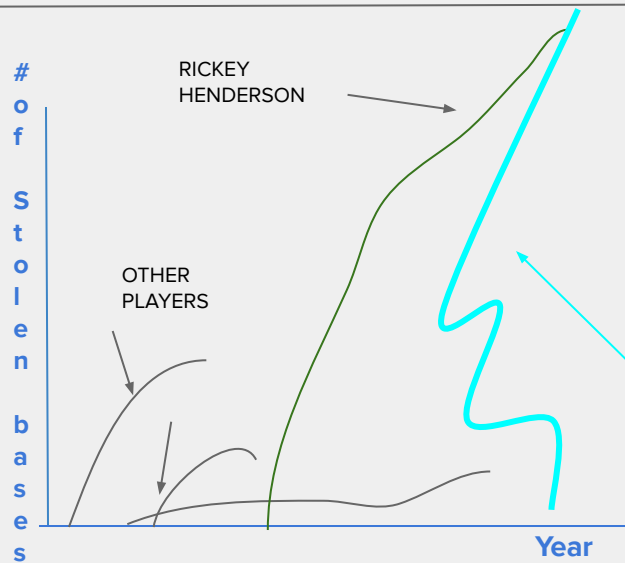
- Historical Wins Above Replacement (WAR) Comparison
 - All-Encompassing Stat
- Triple Crown Close Calls
 - Triple Crown = League Leader in Home Runs, Batting Average, and RBIs - Took Over 50 Years to Happen
 - Show Players Who Got $\frac{2}{3}$ but No Cigar
- Stolen Bases Leaders: Ricky Steals the Show
 - An example of otherworldly performance of one's stat category



Three Tables/Graphs (Two Rough Prototypes)

Triple Crown Close Calls

Player, Year	Batting Average	Homeruns	RBI
M. Cabrera, 2012	.330	44	139
Player A, 2003	.340	54	112 (- 8)
Player B, 2000	.303 (-.21)	56	162



Stolen Bases

(Display techniques to emphasize key elements of data)



Thanks

We hope we hit it out of the park!

