



NBA DB

Project Owner: Kyle Chang

Scrum Master: Noah Cover

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PROJECT MOTIVATION



INSPIRATION

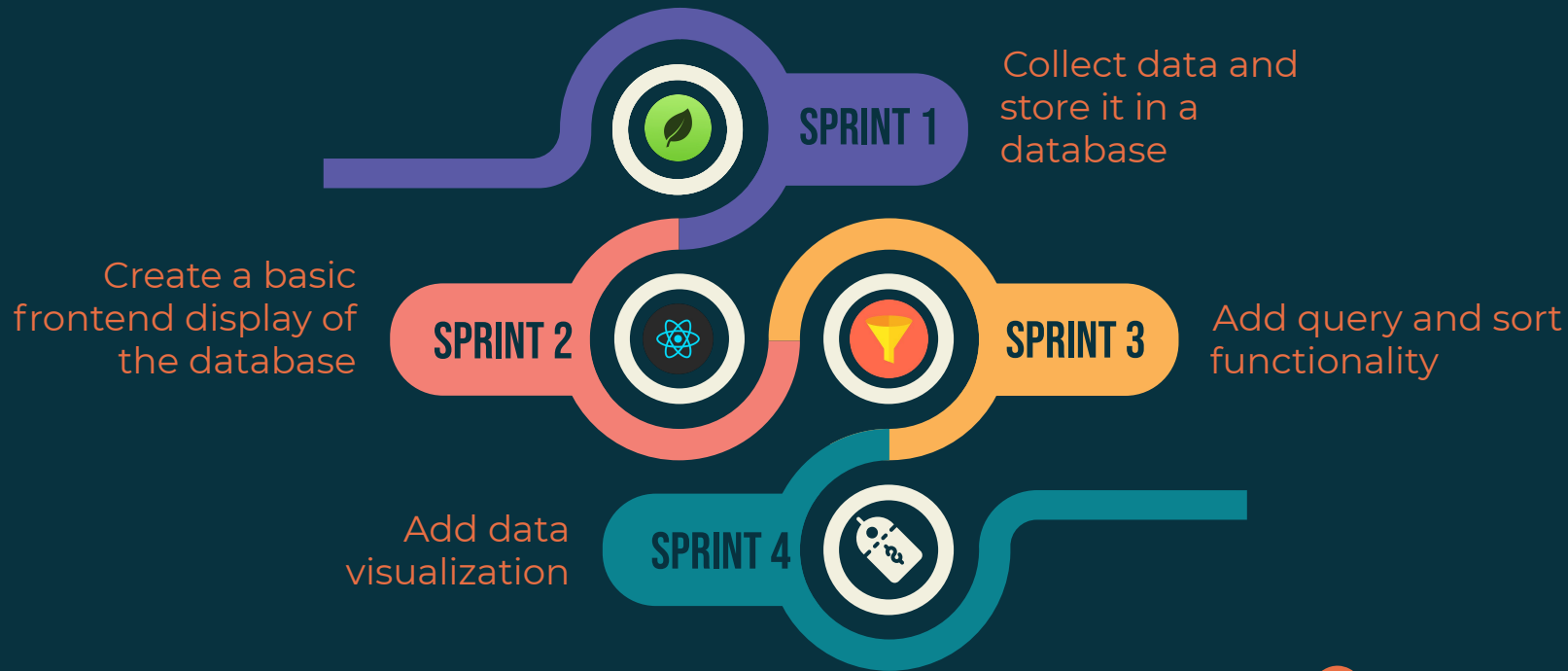
No free websites that allows for fully custom NBA database search.



MISSION

Create a publicly available database of up-to-date NBA data that users can interact via frontend/API

TIMELINE



TECHNOLOGIES



LANGUAGES

Python, Javascript



FRAMEWORKS

React JS, Ionic,
Flask



DATABASE

MongoDB

SPRINT 1

USER STORY

“As a developer, I want to be able to make API calls to an up-to-date NBA database so I can use the data in my own project.”

SPIKES

Learn: MongoDB, Flask

INFRASTRUCTURE

Setup: Github, Jira



SPRINT 2

USER STORY

“As a casual basketball fan, I want to be able to search for individual player stats so I can follow my favorite players.”

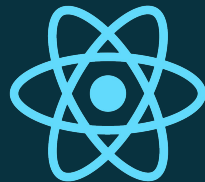
“As a fan who often talks about basketball, I want to be able to look up statistics about specific players so I can settle a bet with a friend.”

SPIKES

Learn: React JS, Ionic

INFRASTRUCTURE

Setup: React Project, Ionic Framework



SPRINT 3

USER STORY

“As a competitive fantasy basketball user, I want to be able to use custom filters so I can draft the best players.”

“As a fan of a specific player, I want to be able to check ranked player statistics so I can see how he compares to the rest of the league.”

SPIKES

None

INFRASTRUCTURE

Setup: Javascript, Python



SPRINT 4

USER STORY

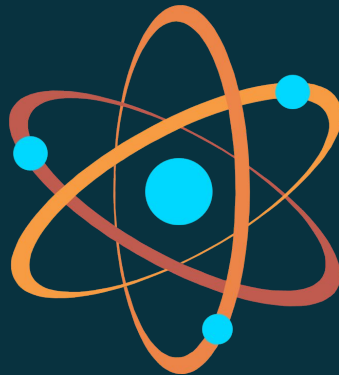
“As an avid basketball fan, I want to be able to view player performance trends over time so I can make predictions about future performances.”

SPIKES

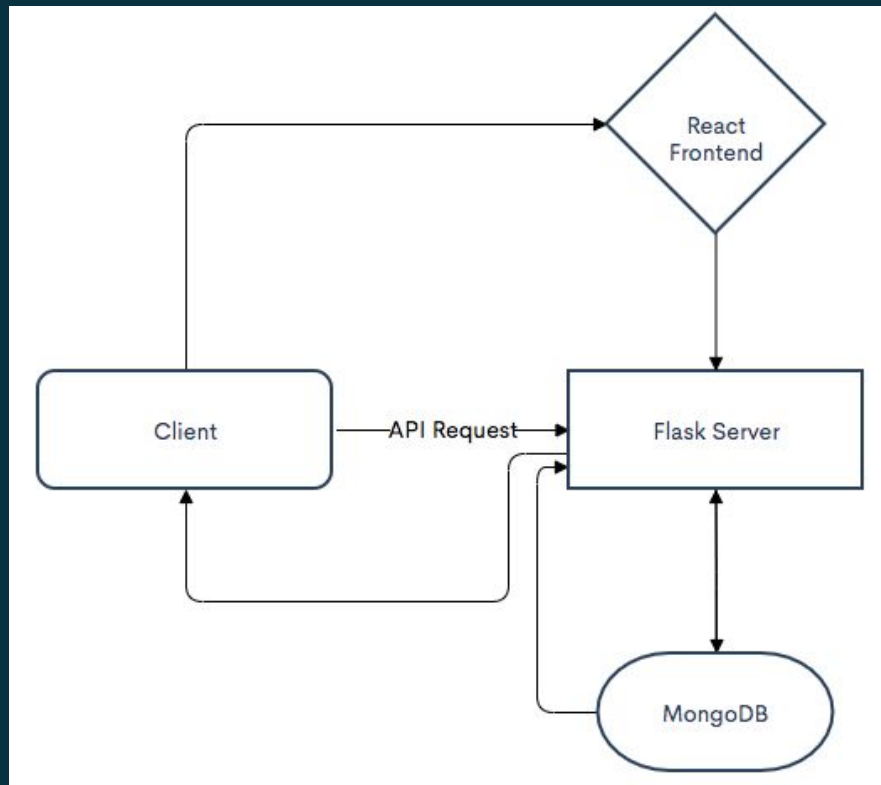
Learn: Data Visualization

INFRASTRUCTURE

Setup: React D3



ARCHITECTURAL OVERVIEW



CHALLENGES AND RISKS



Scope Creep

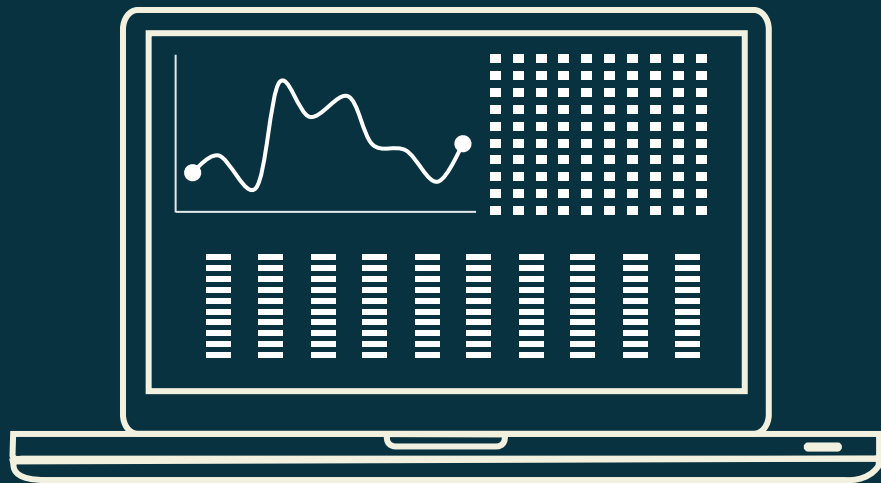
- The scope of this project can be nearly boundless, so we need to stay focused and prioritize tasks.



Learning

- Each sprint, we will be learning new languages, frameworks, and technologies which will briefly set us back.

MINIMUM VIABLE PRODUCT



Features:

- REST API which allows users to get NBA data
- Frontend to tabulate player statistics
- Sorting and filtering functionality
- (Maybe) Visualization of player statistics