BMW Performance Horse Database

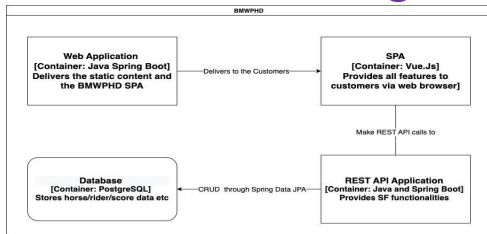## Developers: Chirayu Jain, Jerry Wu, Madison Gresham, David Hanft

Background:

Reining is scored based on a system that assigns points for every maneuver performed to determine the winner. These maneuver scores are publicly available but not aggregated into any sort of system useful for data analytics. This creates issues for finding and ranking horses for purposes of breeding, buying, and determining show schedules.
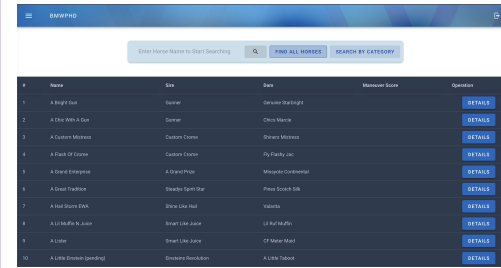
Solution:

Unlike the current state, our project will provide one stop data about horses based on different sources and increase general interest for the public by giving them concrete and enhanced ways to track their favorite horses.
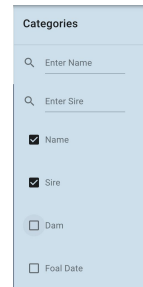
Architecture Design:

Search:

Searching is the main functionality of the application. The user has the opportunity to search by a horse's name, find all horses in the database, or search based on a specific combination of categories.
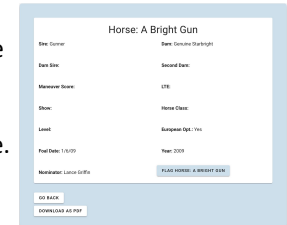
Search by Category:

A user has the opportunity to search by a customized combination of given categories.
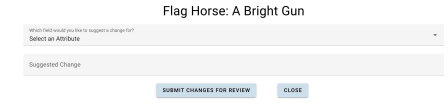
Horse Details:

Once a search has been performed, the user can see all information on a given horse by selecting the "Details" button in the table. The user also has the ability to download the report of the given horse on this page.

Flag a Horse:

A User can flag a horse and suggest an edit for a specific attribute of that horse within the Horse Details page.

Management:

Users with admin privileges can manage flagged horse requests by editing, approving, or denying them. Additionally, these users can manage users by editing them or deactivating them.