

BMWPHD

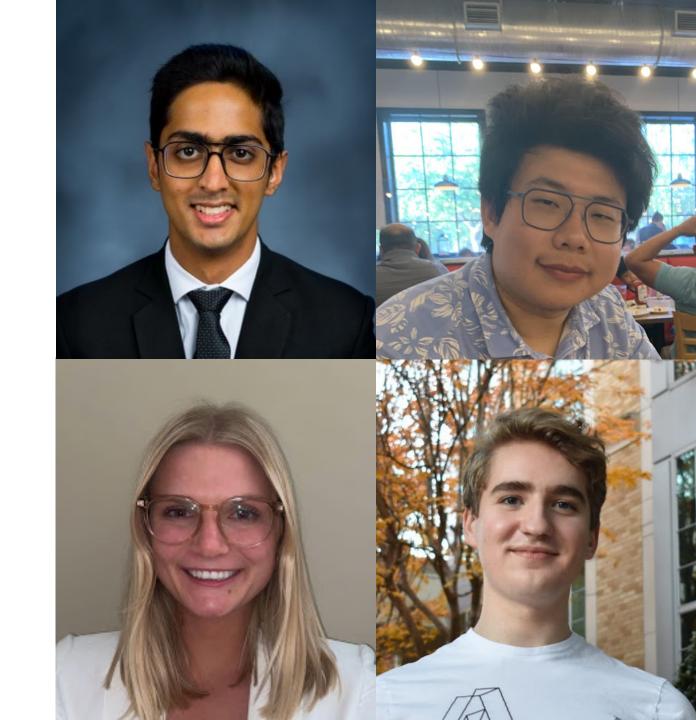


BMW Performance Horse Database



MEET THE TEAM

- Chirayu Jain
- Jerry Wu
- Madison Gresham
- David Hanft



OVERVIEW

Introduction

Problem / Solution

Demo

Technical Details

Conclusion

Questions



CLIENT: BROOKE WHARTON

- Company: BMW Quarter Horses
- Purpose: breed and raise horses for reining and reined competitions







PROBLEM

- Almost all modern-day sports assessments are made using data analytics
 - New fans trying to learn the sport
 - Pros/ coaches/trainers/team owners to get the best performance for investments
- Currently all horse data is spread across multiple platforms that do not communicate with one another

 hard and time consuming to gather data on horses

CURRENTLY

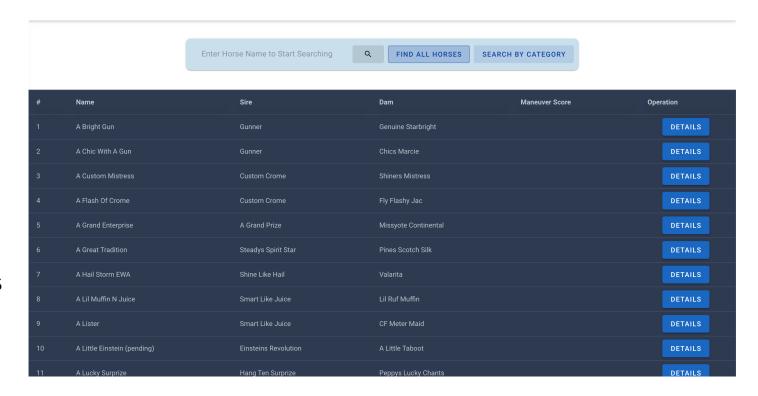
- No maneuver scores
- Data sometimes inaccurate
- Lacks a feature to search for horses based on specific score criteria and generate a report with the matching results.

| Horse | Breed | Year | Color | Sex | Sire | Dam |
|-------|---------------|-------|-------|-----|------------------|-----------------|
| Α | ARABIAN | | | Н | DERBES | BINT BIT |
| Α | SHIRE | 1864 | | Н | GREAT BRITAIN12 | DARLING171 |
| Α | QUARTER HORSE | 2019 | | F | COLLEN ALL CHICS | PEPPYS CASH CAT |
| Α | | 2013 | | Н | MB MAYAL | - |
| Α | | ~1980 | | С | - | - |

| Horse | Rider | Score | Show |
|----------------------|----------------------|-------|--|
| SPOOKS GOTTA WHIZ | Shawn FLARIDA | 233.5 | Alltech FEI World Equestrian Games 2014 |
| Finest Copyshot | Rudi Kronsteiner | 233.0 | NRHA European Futurity 2011 |
| Tinker With Guns | Andrea Fappani | 231.5 | NRHA Futurity 2011 |
| Guaranteed A Magnum | Jimmy van der Hoeven | 231.5 | NRHA Derby 2019 |
| Colonels Shining Gun | Cira Baeck | 231.5 | Reining International de Lyon 2013 |
| Houston Shine | Shane Allen Brown | 231.0 | NRHA Futurity 2011 |
| COLONELS DANCING GUN | Gennaro Lendi | 231.0 | NRHA Breeders Futurity 2018 |
| SHINERS VOODOO | ANN FONCK | 231.0 | NRHA EURO FUTURITY 2017 |
| RS POLYPHEMUS JAC | PIERLUIGI CHIOLDO | 231.0 | MATURITY 2012 |
| Great Sun Burst | Bernard Fonck | 231.0 | SVAG CS Classic and European Championship 2010 |

OUR SOLUTION

- Aggregate all data into a single searchable database
- User-friendly interface
- Concrete and enhanced way to track horses



D E M O









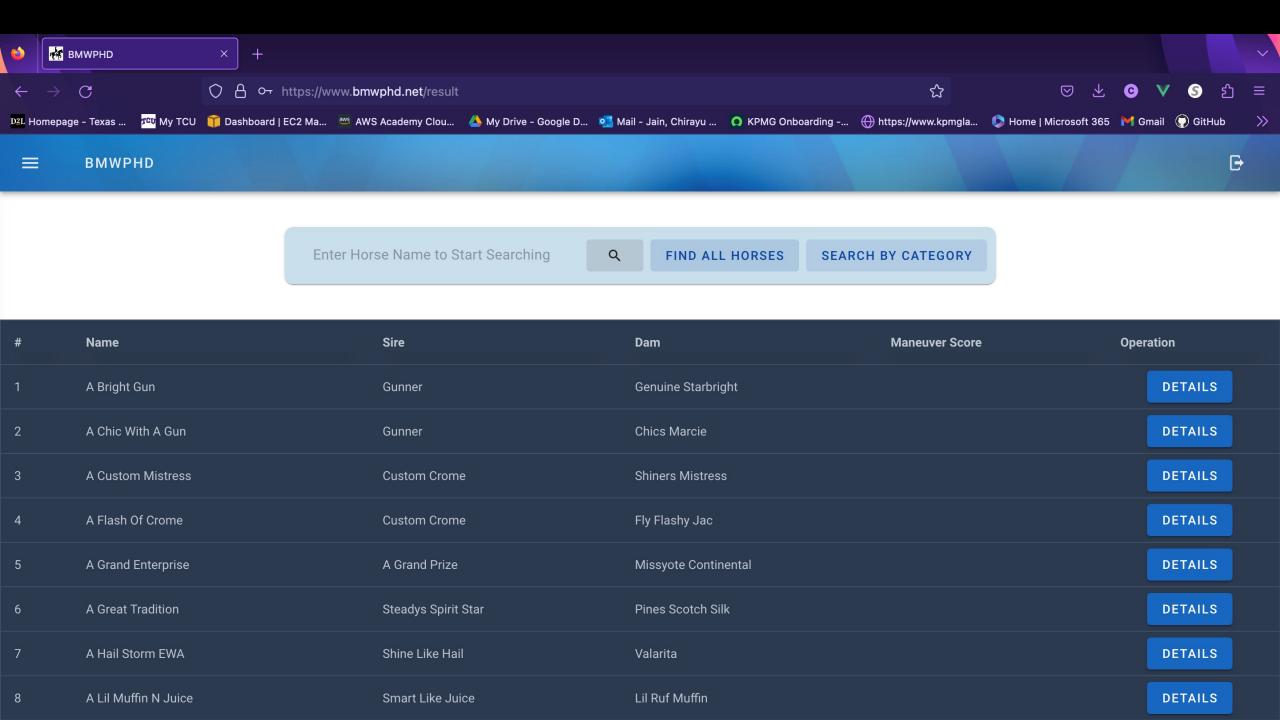
Looking for horse status, recent matches, performance, data, etc? Check out our search engine

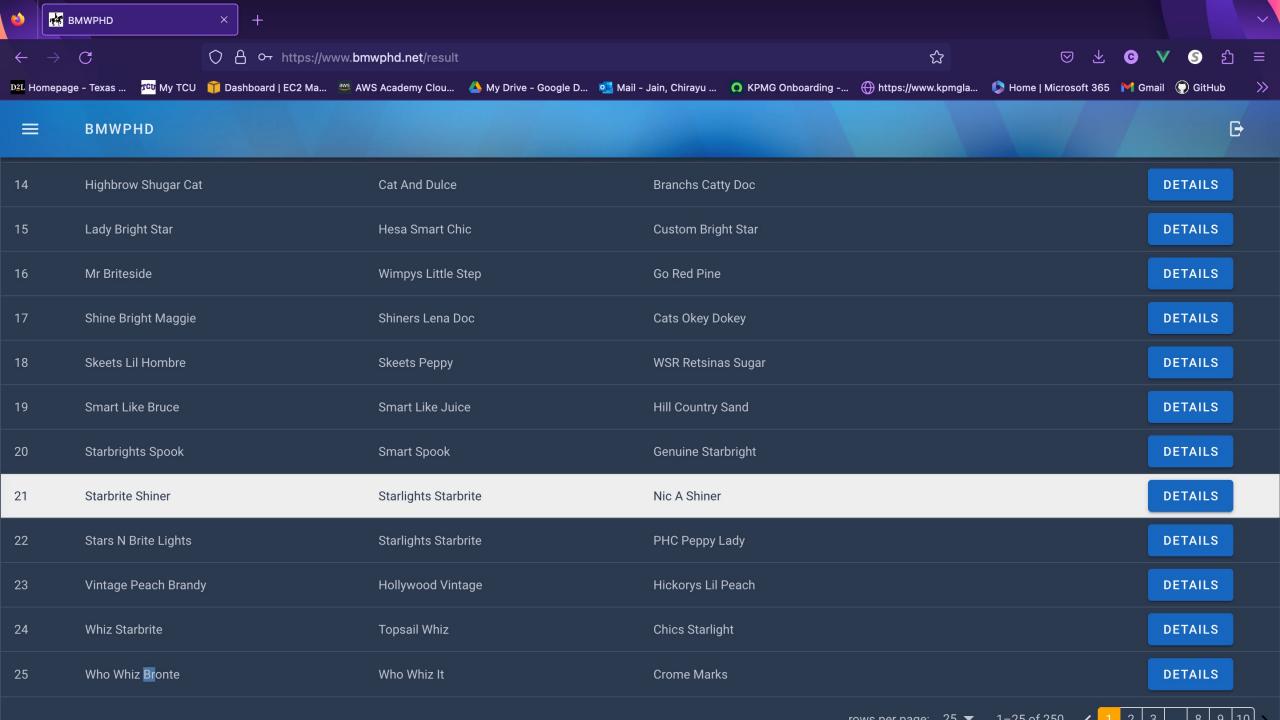
START SEARCH

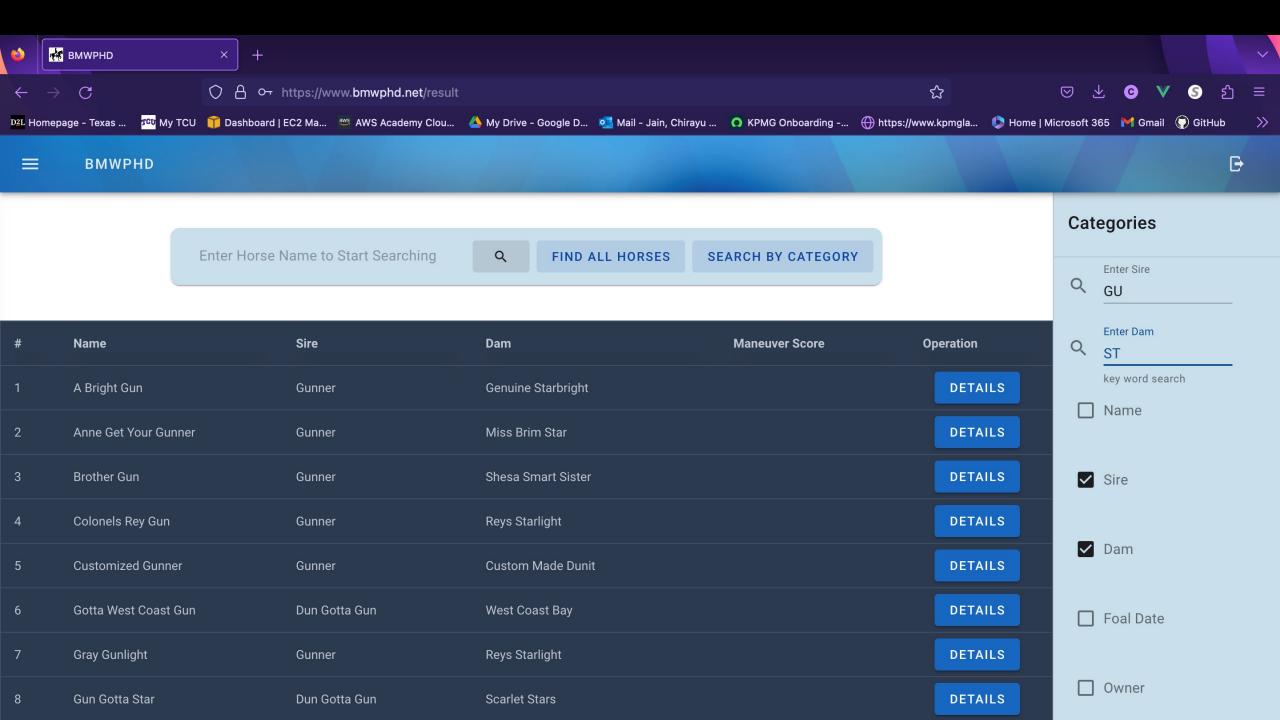
Welcome to BMW Performance Horse Database

BMW Quarter Horses breeds and raises prospects for the reining and reined cowhorse disciplines with a focus on pedigree, conformation, a good mind, and soundness. Click <u>here</u> for more information.









Horse: A Bright Gun

Sire: Gunner Dam: Genuine Starbright

Dam Sire: Second Dam:

Maneuver Score: LTE:

Show: Horse Class:

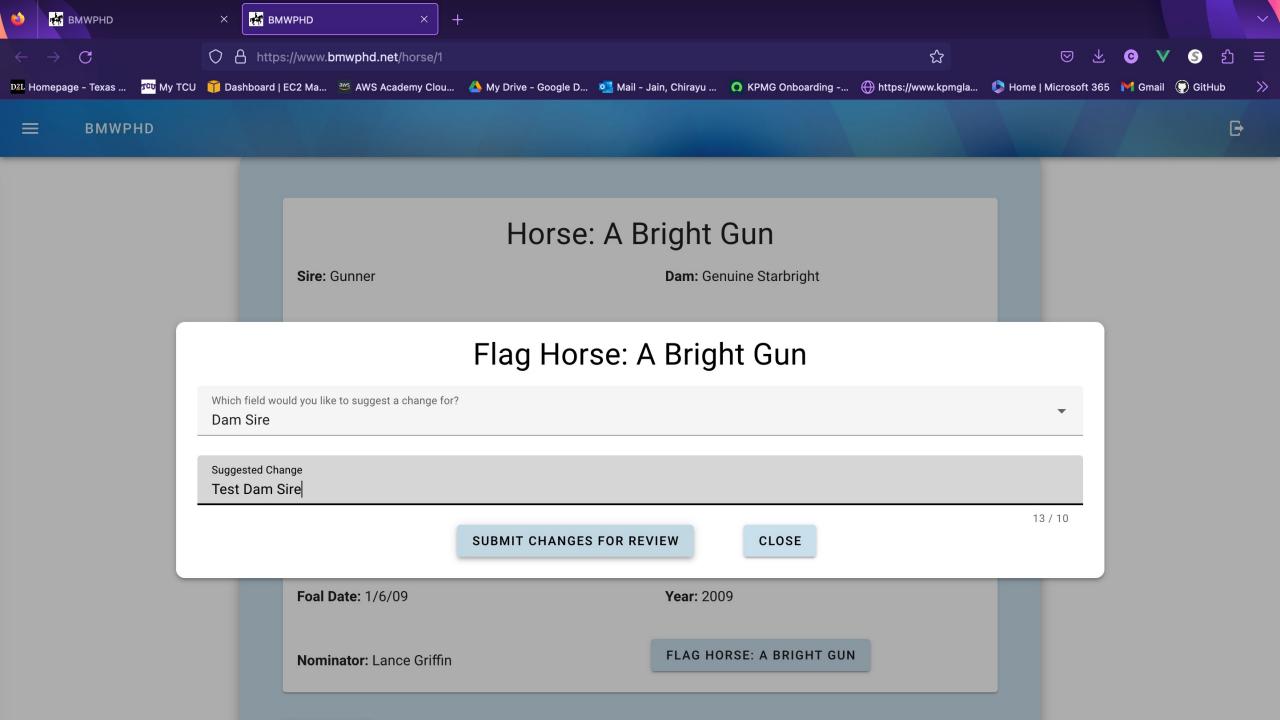
Level: European Opt.: Yes

Foal Date: 1/6/09 **Year**: 2009

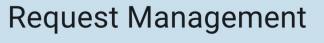
Nominator: Lance Griffin FLAG HORSE: A BRIGHT GUN

GO BACK

DOWNLOAD AS PDF



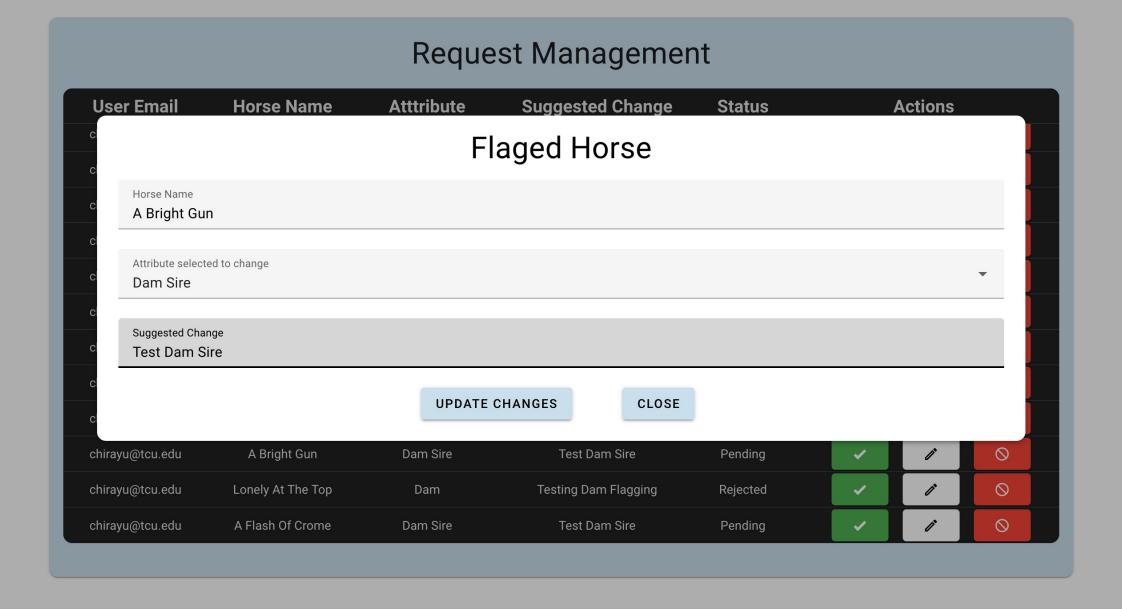




| User Email | Horse Name | Atttribute | Suggested Change | Status | Actio | ons |
|-----------------|-------------------|-----------------|-------------------------|----------|----------|-------------|
| chirayu@tcu.edu | A Custom Mistress | Show | TESTING | Pending | · / | |
| chirayu@tcu.edu | A Bright Gun | Maneuver Scores | TEST2 | Pending | * | |
| chirayu@tcu.edu | A Bright Gun | PE | TESTING FINISHED | Pending | * | |
| chirayu@tcu.edu | A Bright Gun | LTE | \$75,000 | Approved | * | |
| chirayu@tcu.edu | Lonely At The Top | Level | 4 Open | Rejected | * | <i>y</i> |
| chirayu@tcu.edu | A Bright Gun | Name | Catajuice | Rejected | * | <i>y</i> |
| chirayu@tcu.edu | A Bright Gun | Dam Sire | FLy Fly 2 | Pending | * | > |
| chirayu@tcu.edu | A Bright Gun | 2nd Dam | jfoewfb;ouwebf;oubweofb | Pending | * | · |
| chirayu@tcu.edu | A Bright Gun | 2nd Dam | Shiners 2 | Pending | * | > |
| chirayu@tcu.edu | A Bright Gun | Dam Sire | Test Dam Sire | Pending | * | · O |
| chirayu@tcu.edu | Lonely At The Top | Dam | Testing Dam Flagging | Rejected | * | <i>></i> |
| chirayu@tcu.edu | A Flash Of Crome | Dam Sire | Test Dam Sire | Pending | • | * O |
| | | | | | | |

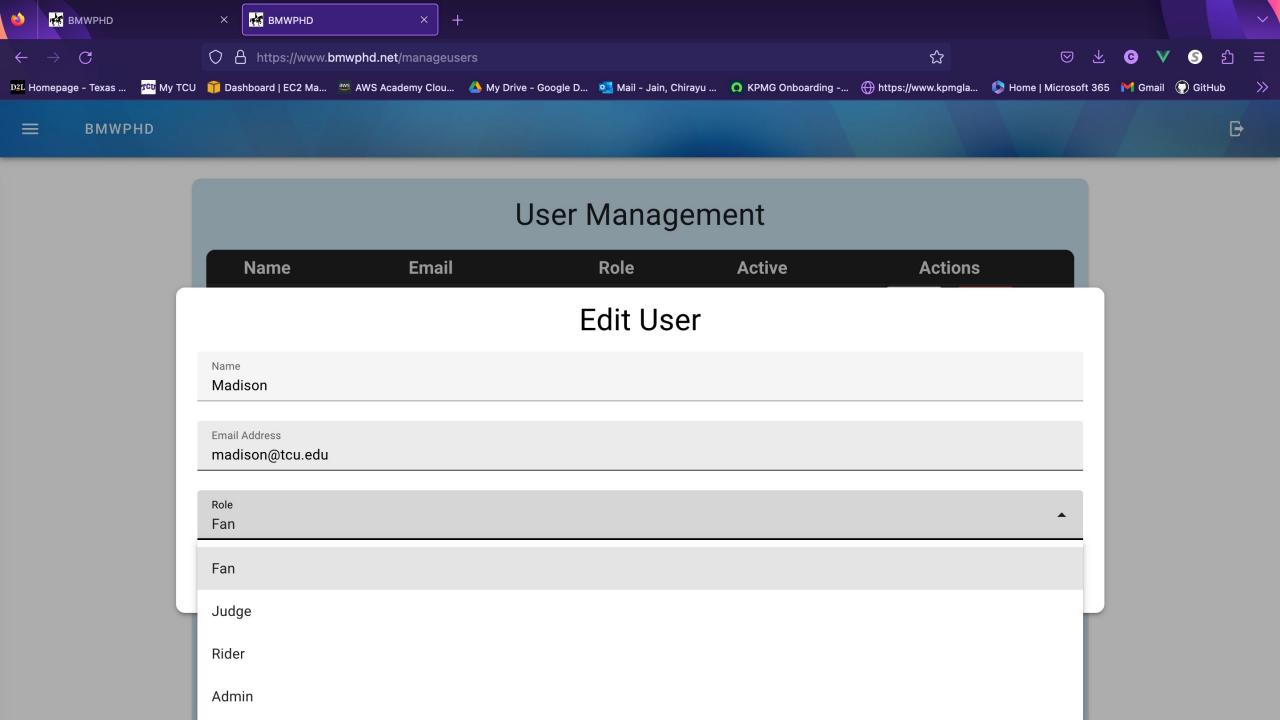






User Management

| Name | Email | Role | Active | Actions |
|---------|-----------------|--------------|--------|----------|
| Madison | madison@tcu.edu | Fan | true | l II |
| Chirayu | chirayu@tcu.edu | Judge, Admin | true | ₽ |
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BMW Performance Horse Database is sponsored by BMW Quarter Horses

BMW Quarter Horses breeds and raises prospects for the reining and reined cowhorse disciplines with a focus on pedigree, conformation, a good mind, and soundness. They believe in mare power and always have a range of prospects available. BMW Quarter Horses has tailored their breeding program to the western performance disciplines of reining (NRHA) and reined cowhorse (NRCHA). The team is made up of Trainers, Reproduction and Foal Care, Vets, Sale Fitting, and Photographers.

BMWPHD can be contacted through the following:

Phone: (940) 357-1998

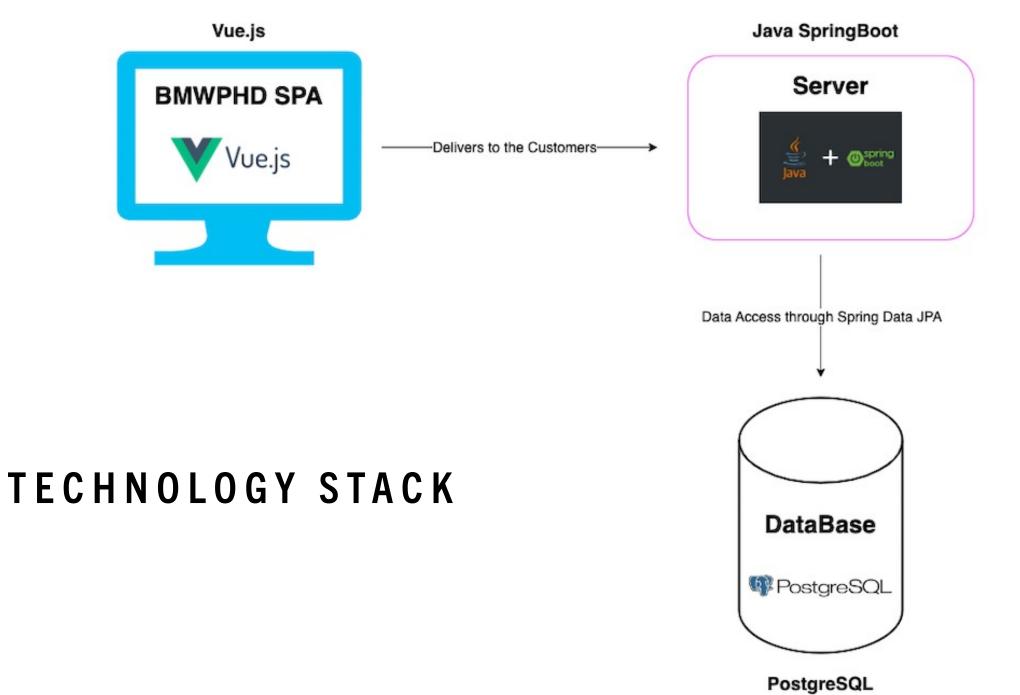
Copy to Clipboard

Email: bmw@cedartopcapital.com

More information can be found on their facebook page through the link below:

FACEBOOK HOMEPAGE





WEB SCRAPING



Had to collect data from different sources of websites and the data was present in different formats.



Possible solutions:

HTTP Requests

Selenium

Python Scripts using 'requests'



Challenges:

Variety of websites

Durability of the scraper

Format of the data

CHALLENGES



TEAM DYNAMICS



DATA CLEANING, INTEGRITY, AND AGGREGATION



SCALABILITY AND PERFORMANCE



USER INTERFACE AND EXPERIENCE



- Increased experience using a shared GitHub repository
- Present past week's work during standups
- Work will still be there, even if lose a team member
- Client comes first and their feedback is the priority
- Frameworks have pros and cons making it hard to customize

FUTURE SCOPE

Current solution = prototype



Increase robustness of database



Implement different levels of subscriptions for users

QUESTIONS?