BMW Quarter Horse

BMWPHD
User's Manual

Version 1.0

Revision History

Date	Version	Description	Author
03/23/2023	1.0	Initial work on the document	Madison Gresham

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1. Introduction

1.1 Purpose of this Document

The purpose of this user manual is to provide the information necessary for the admin, fans, riders, judges, and investors of reining horses to make effective use of the BMW Performance Horse Database by the BMWPHD team at Texas Christian University.

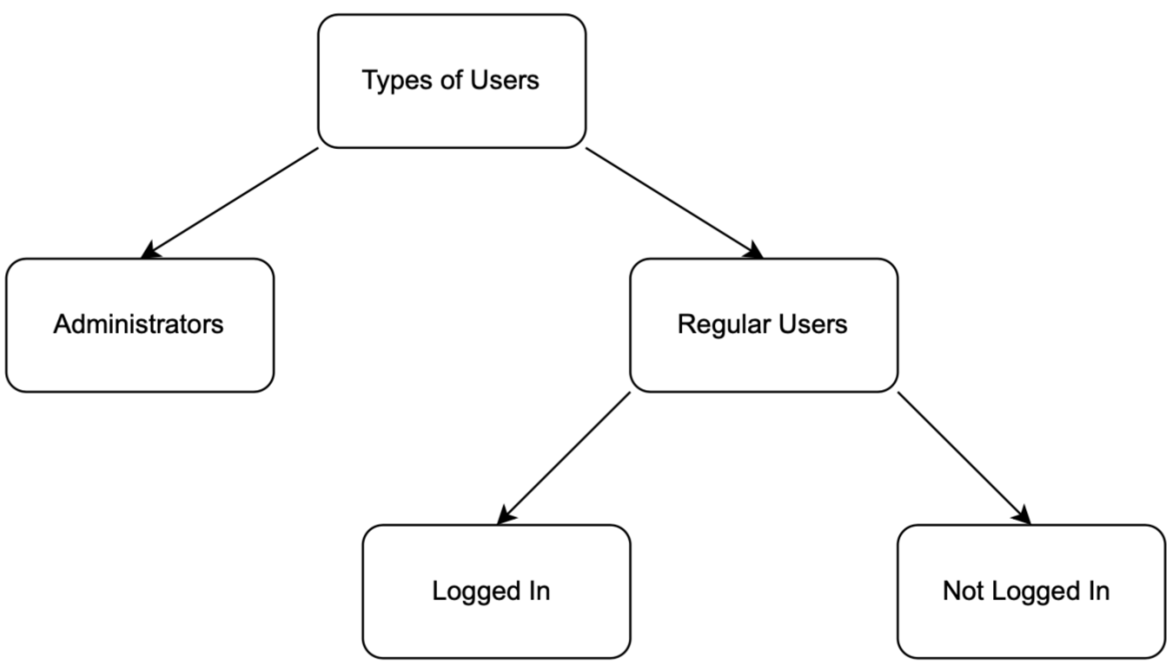
1.1 Project Overview

Almost all modern-day sports assessments are made using data analytics. These statistics can be run at a surface level by new fans trying to learn the sport or at a substantially deeper, more nuanced level by the pros, coaches, trainers, and team owners to ensure they are getting the best performance for their investment. This data is not limited to human athletes; the racehorse industry has a similar system to assess a horse's performance on the track that simplifies the information for first-time bettors or delves into multi-faceted performance percentages, speed scores, track surface ratings, and more for the astute bettors, breeders, owners, and trainers to try to maximize each horse's performance. Unfortunately, horse racing is the only horse sport that currently utilizes any form of advanced analytics. Reining, a western horse sport similar to figure skating, 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 fans to track their favorite horses and for investors to find and rank horses for purposes of breeding, buying, and determining show schedules. 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. When completed, this database would be useful to over 15,000 members of the NRHA (National Reining Horse Association) and to a quickly growing fan base thanks to new industry events and sponsors. It could then be expanded to other similar maneuver score-based horse sports such as reined cowhorse, cutting, ranch riding, and dressage.

2. System Structure

2.1 Project Overview

There will be different types of users for BMWPHD, and the visibility for the users will differ depending on the category the specific person falls in. Below, can be seen how users are divided in the system. However, the differences on the screen visibility and permissions will be based on whether the user is an administrator or a regular user that is logged in or not logged in.



The navigation bar will have the following options for regular users:
- Home
- Search
- About Us
- Login/Logout

The navigation bar will have the following options for the administrators:
- Home
- Search
- About Us
- Login/Logout
- Manage Requests
- Manage Users

The only difference between regular users that are logged in and not logged in is that users that are logged in have the ability to flag a horse for review, whereas regular users who are not logged in do not have the ability to flag a horse for review.

2.2 System Organization and Navigation

The available components are shown below and each of the different features each component has available for the users.

Home
- General overview of BMW Performance Horse Database
- Quick access to the search feature
- Quick access to the About Us page

About Us
- Overview of the system and BMW Quarter Horses
- Access to BMW Quarter Horses Facebook page

Search
- All horses in the database
- Horses that are a result of a specified search
    - Name
    - Sire
    - Dam
    - Meanueaver Score

Horse Details
- All available information on a specific horse
    - Name
    - Sire
    - Dam
    - Dam Sire
    - Second Dam
    - Maneuver Score
    - LTE
    - Show
    - Horse Class
    - Level
    - European Option
    - Foal Date
    - Year
    - Nominator
- Option to download a report of the horse’s information

Request Management
- View all requests in the system
    - User email

- Horse Name
- Attribute
- Suggested Change
- Status

- Approve/Edit/Deny a request

User Management

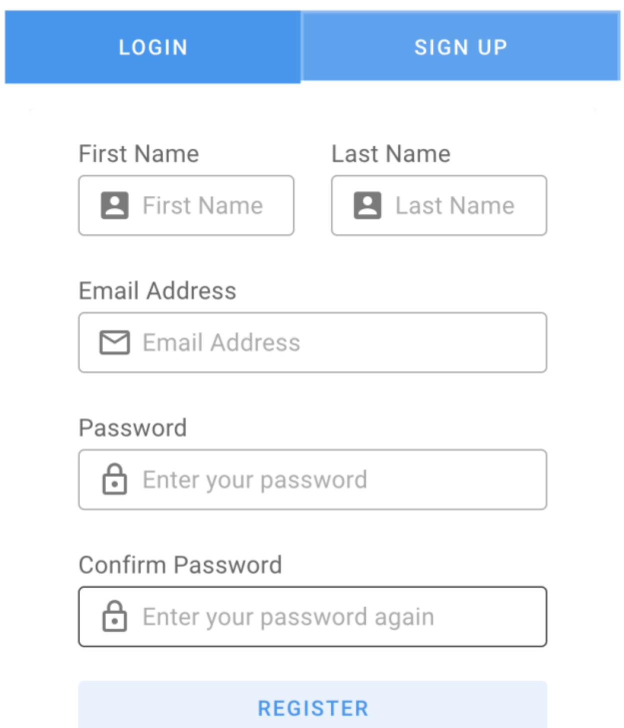
- View all users in the system
  - Name
  - Email
  - Role
  - Status
- Edit/Delete a user

Logout

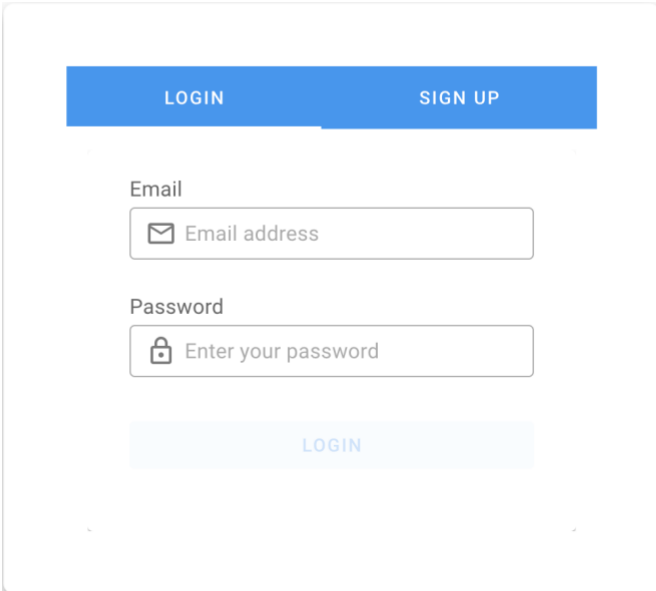
3. Using the system

3.1 User Access

All administrator accounts must manually be made in the back end of the system. All regular users of the system will create an account by entering their first name, last name, email address, and password on the page that is shown below.



Once the account is made, both users can login on the login tab that is displayed below.

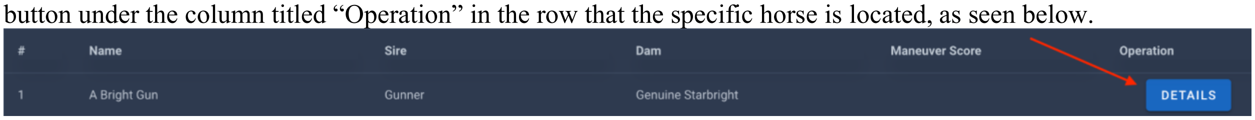


3.2 Performing a Search

The main feature of the application is the ability to perform specific, categorized searches of horses. This can be done in the search page. The first option is to simply find all horses in the database which can be done by clicking the “Find All Horses” button. The second option is to search for a horse by the horse’s name. This can be completed using the text field that displays the prompt “Enter Horse Name to Start Searching.” Furthermore, the user can select the “Search by Category” button and then go on to further select which one or multiple categories they want to search by. To complete this task, the user simply clicks the checkbox by the attribute(s) they want to search by and then enters the specific information for the attribute(s).

3.3 Viewing Details of a Specific Horse

Once a search has been performed and the results of the search are not empty, the user has the option to view all information that is contained in the database for a specific horse. To do this, the user will click on the “Details” button under the column titled “Operation” in the row that the specific horse is located, as seen below.



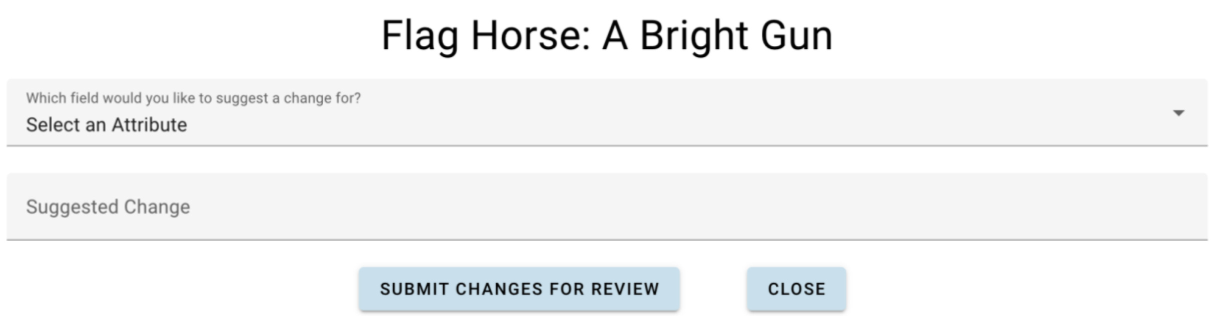
A new tab will then open containing all data on that specific horse.

3.4 Generating a report

Once a search has been performed and the user has navigated to the details page for a specific horse, they have the ability to download the details of that horse. They can complete this task by clicking the “Download as PDF” button. The horse details will then be downloaded to the machine of the user in a pdf format.

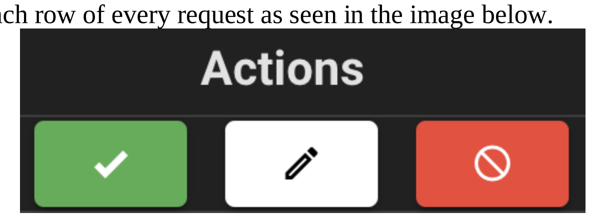
3.5 Flagging a Horse

If a user believes that some information on a horse is incorrect, they have the ability to flag the horse and suggest a change to that horse’s data. In order to do this, the user must be logged in. Then once a search has been performed and the user has navigated to the details page for a specific horse, they have the ability to flag the horse by clicking the “Flag Horse: <Horse Name>” button. Once clicked, a pop up will open and prompt the user for the attribute that the user believes is wrong and the suggested change. The popup box is displayed in the image below.

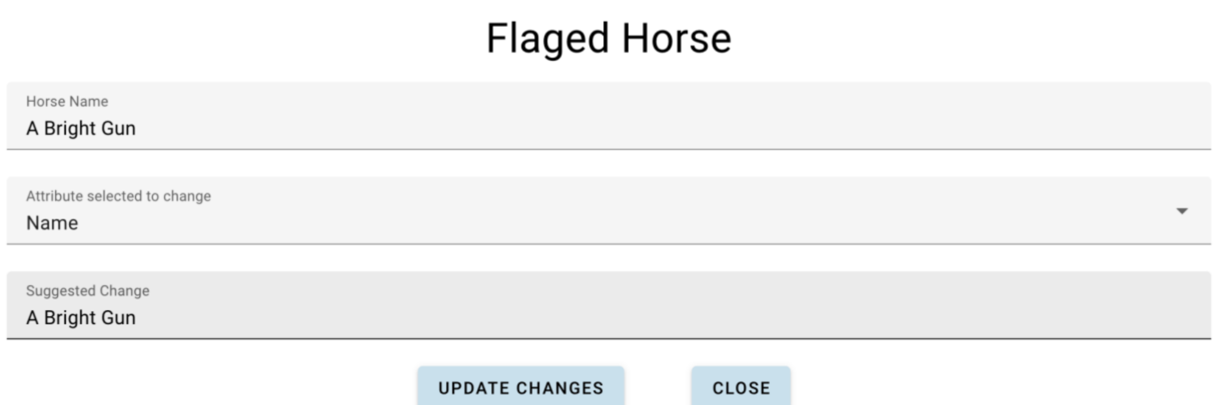


3.6 Request Management

Only an administrator has access to the request management. This page displays a table of all flagged horses. For each request the following is displayed: the user who flagged the horse's email, the horse's name, the attribute to be changed, the suggested change, and the status of the request which can be accepted, pending, or rejected. The administrator then is given three options: accept, edit, or deny the request. All three of these options are displayed under the actions column in each row of every request as seen in the image below.



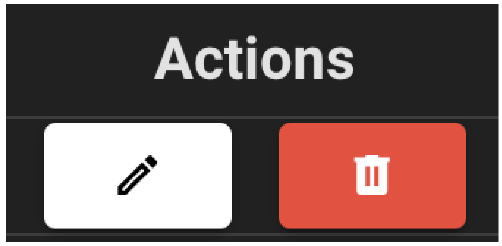
If the admin would like to accept the request, he/she will click on the green checkmark. The backend will then update the horse's information with the changes suggested by the user. If the admin would like to edit the request, he/she will click on the button with the pencil icon. A popup will then appear with the horse's name, which attribute the change is suggested for, and the suggested change as seen in the image below.



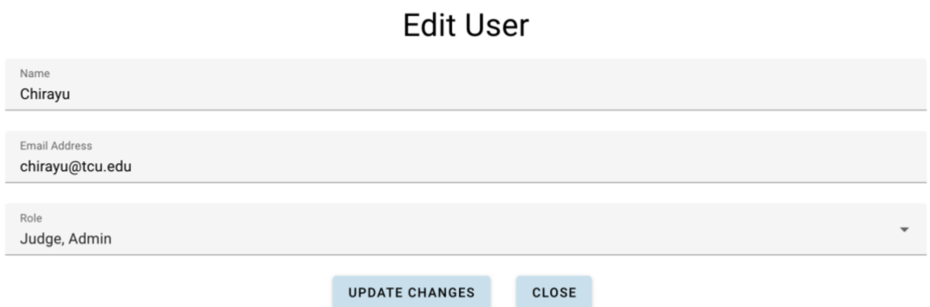
The admin can then make the changes they desire and click on the "Update Changes" button. Finally, the admin can deny the request by clicking on the red button. No changes are made to the horse's data and the status of the request updates to "rejected."

3.7 User Management

Only an administrator has access to the user management page. This page displays a table of all users in the system. For each user the following is displayed: name, email, role, and active which can be true or false. The administrator then is given two options: edit or delete the user. Both of these options are displayed under the actions column in each row of every user as seen in the image below.



If the admin would like to edit the user, he/she will click on the button with the pencil icon. A popup will then appear with the user's name, email and role as seen in the screenshot below.



The admin can then make the desired edits and press the "Update Changes" button." Additionally, the admin can delete the user by clicking on the red button with the trashcan icon. The Active column for that user is then set to the value false and the user is not able to access his/her account.