Team 21 Planning Document [Sprint II]

Project Name: STABLE

Adam Baker, Pedro Del Moral Lopez, Roy Ramstad, Shantanu Nair

Sprint Overview

In this sprint, we would like to complete both the traditional and radial calendar functionality, refine and expand the search functionality, implement reminders via email and in-app notifications, and allow the importation and exportation of individual horse, training regimen, and vaccine metadata via a queue. We will be utilizing existing calendar API for the event calendar, but for the radial calendar, we will have to implement it entirely from scratch. We will also work on cleaning up the UI for the existing functionality in order to make it more professional.

Scrum Master: Pedro Del Moral Lopez

Meeting Schedule: Tuesdays & Thursdays at 1:30PM

Risks/Challenges: Challenges for this sprint include researching and learning how to integrate existing calendar API to meet our needs, organizing our reminders with the calendars so they can easily be emailed and displayed to the user, and figuring out how to properly design a radial calendar, which will be our biggest challenge during this sprint. We also will need to learn how to use APIs for communicating to a phone or an email server.

Current Sprint Detail

User Story #1

As a user I would like to maintain, edit, and search for different training regimens on file.

#	Task Description	Estimated Time	Owner
1	Implement training regimen database	1	Shantanu
2	Connect the front end to the backend	4	Roy & Pedro
3	Implement a "database" page for the training regimen	2	Shantanu
4	Implement searching functionality for the training regimens	3	Roy
5	Implement error handling for invalid searches	2	Shantanu
6	Implement drop-down list of horses as user types	2	Roy
7	Implement clickable links on each of the items	1	Roy

Acceptance Criteria:
- ➢ Given that the backend was setup successfully, when the user sends a request to create a training regimen, the user ought to be navigated to the webpage where he can fill out the requisite information.
- ➢ Given that the backend was setup successfully, when the user sends a request to view a specific training regimen, the user ought to be navigated to the webpage where he can view and edit the information for that training regimen.
- ➢ Given that the backend was setup successfully, when the user edits information, the backend will be updated to reflect the new information.
- ➢ Given that the backend was setup successfully, when the user searches for a specific existing training regimen in the database, the user ought to be brought to the webpage displaying the information for that regimen.
- ➢ Given that the backend was setup successfully, when the user searches for an invalid training regimen, the user ought to be notified that the regimen does not exist in the database.

User Story #2

As a user I would like to be able to search for vaccines' data.

#	Task Description	Estimated Time	Owner
1	Implement searching functionality for the vaccines	2	Roy
2	Implement error handling for invalid searches	1	Roy
3	Implement drop-down list of vaccines as user types	2	Roy
4	Implement clickable links on each of the items	1	Roy

Acceptance Criteria:
- ➢ Given that the backend was setup successfully, when the user searches for a specific existing vaccine in the database, the user ought to be brought to the webpage displaying the information for that vaccine.
- ➢ Given that the backend was setup successfully, when the user starts typing in the search bar, the user ought to see a list of matching search terms.
- ➢ Given that the backend was setup successfully, when the user selects a vaccine name from the list of matching search terms, the user ought to be brought to the webpage displaying the information for that vaccine.
- ➢ Given that the backend was setup successfully, when the user searches for an invalid vaccine, the user ought to be notified that the vaccine does not exist in the database.

User Story #3

As a user I would like to be able to select multiple vaccines and training regimens for a horse.

#	Task Description	Estimated Time	Owner
1	Implement ability to search for existing vaccines while editing the horse form	5	Roy & Pedro
2	Implement ability to select multiple vaccines	3	Pedro
3	Implement ability to edit and remove vaccines from a particular horse	3	Pedro
4	Implement ability to add a new vaccine from a modal while editing the horse form	5	Pedro & Roy
5	Implement ability to search for existing training regimens while editing the horse form	2	Roy
6	Implement ability to select multiple training regimens	3	Shantanu
7	Implement ability to edit and remove training regimens for a particular horse	2	Shantanu
8	Implement ability to add a new training regimen from a modal while editing the horse form	5	Pedro & Roy

Acceptance Criteria:
- Given that the backend is setup successfully, when the user attempts to add an existing vaccine to a specific horse profile, a drop-down list ought to be displayed showing the matching search terms.
- Given that the backend is setup successfully, when the user attempts to add a nonexistent vaccine to a specific horse profile, the user ought to be shown a modal that allows them to create a new vaccine.
- Given that the backend is setup successfully, when the user selects an already existing vaccine or creates a new one from the modal, that vaccine will be added to the horse's profile.
- Given that the backend is setup successfully, when the user attempts to add an existing training regimen to a specific horse profile, a drop-down list ought to be displayed showing the matching search terms.
- Given that the backend is setup successfully, when the user attempts to add a nonexistent training regimen to a specific horse profile, the user ought to be shown a modal that allows them to create a new training regimen.
- Given that the backend is setup successfully, when the user selects an already existing training regimen or creates a new one from the modal, that regimen will be added to the horse's profile.

User Story #4
As a user I would like to import and export horses, training regimens, and vaccines.

#	Task Description	Estimated Time	Owner
1	Implement ability to add horse to a queue	2	Shantanu & Pedro
2	Implement ability to add vaccine to a queue	2	Shantanu & Pedro
3	Implement ability to add training regimen to a queue	2	Shantanu & Pedro
4	Implement ability to export queue	3	Shantanu
5	Implement ability to import horses	2	Shantanu
6	Implement ability to import vaccines	2	Shantanu
7	Implement ability to import training regimens	2	Shantanu

Acceptance Criteria:
➢ Given that the backend was setup successfully, when the user sends a request to export a horse, the information ought to be added to a queue.
➢ Given that the backend was setup successfully, when the user sends a request to export a vaccine, the information ought to be added to a queue.
➢ Given that the backend was setup successfully, when the user sends a request to export a training regimen, the information ought to be added to a queue.
➢ Given that the backend was setup successfully, when the user selects the option to "export queue", the entire queue is sent to the database.
➢ Given that the backend was setup successfully, when the user selects the option to import horses, vaccines, or training regimens, the database is properly updated to reflect the new information.

User Story #5

As a user I would like to be reminded of upcoming events like vaccinations, auctions, and training days.

#	Task Description	Estimated Time	Owner
1	Implement integration with calendar API	5	Adam
2	Implement ability to set reminders	2	Adam
3	Implement ability to edit reminders	2	Adam
4	Implement ability to remove reminders	2	Adam
5	Implement ability to view top 3 upcoming reminders from the main page	4	Adam
6	Implement ability to send email reminders	4	Adam & Roy

Acceptance Criteria:
- ➢ Given that the calendar was setup successfully, when the user logs into their account, they should see the top three upcoming reminders and have the ability to view them on the calendar.
- ➢ Given that the calendar was setup successfully, when the user sends a request to create a new reminder, the user ought to be prompted to enter the information without leaving the page.
- ➢ Given that the calendar was setup successfully, when the user selects the email option for a reminder, the user ought to be sent an email an hour before the reminder is set.
- ➢ Given that the calendar was setup successfully, when the user edits information, the calendar will be updated to reflect the new information.
- ➢ Given that the calendar was setup successfully, when the user sends a request to remove a reminder, the calendar will be updated to reflect the removed information.

User Story #6

As a user I would like to view and edit a traditional calendar of upcoming events.

#	Task Description	Estimated Time	Owner
1	Implement integration with calendar API	5	Adam
2	Implement ability to view upcoming events month-by-month	2	Adam
3	Implement ability to click on a day and view all the events on that day	2	Adam
4	Implement ability to remove and edit calendar events	2	Adam
5	Implement ability to associate a set of calendar events with an individual horse if necessary	3	Adam & Roy

Acceptance Criteria:
- ➢ Given that the calendar was setup successfully, when the user clicks the button to move forward or backward one month, the calendar will show the next or previous month and its events.
- ➢ Given that the calendar was setup successfully, when the user clicks on a day on the calendar, the user ought to be presented with a list of all the events scheduled for that day.
- ➢ Given that the calendar was setup successfully, when the user creates or edits an event, the user ought to be able to specify which horse the event is associated with.
- ➢ Given that the calendar was setup successfully, when the user edits event information, the calendar will be updated to reflect the new information.
- ➢ Given that the calendar was setup successfully, when the user sends a request to remove an event, the calendar ought to be updated to reflect the removed information.

User Story #7

As a user I would like to view and edit a radial calendar of upcoming events.

#	Task Description	Estimated Time	Owner
1	Implement radial calendar from scratch	20+	Everyone
2	Implement ability to set the start date based on the horse's date of birth	4	Pedro
3	Implement ability to point calendar to the current day	4	Pedro
4	Implement ability to display important dates	4	Pedro
5	Implement ability to view as a traditional calendar if preferred	3	Pedro

Acceptance Criteria:
➢ Given that the calendar was setup successfully, when the user views the radial calendar, the user will be able to see the current date clearly indicated.
➢ Given that the calendar was setup successfully, when the user views the radial calendar, the user should see all the events associated with the horse's medical progress in the correct location based on the horse's date of birth.
➢ Given that the calendar was setup successfully, when the user selects the option to switch to the traditional calendar, the user will be able to view the radial calendar events on a traditional calendar.

User Story #8

As a user I would like to add and remove horses from the database.

Related User Stories:

- As a user I would like to track each horse's training regimen.
- As a user I would like to track my expenses on each horse.

#	Task Description	Estimated Time	Owner
1	Implement medical history information webpage	4	Roy & Pedro
2	Modify the "Create a Horse" page to function as an edit page for an already existing horse	2	Pedro
3	Create an area for notes on expenses and horse health on the horse information page	1	Pedro

Acceptance Criteria:
- Given that the "Create a Horse" page is correctly modified, when the user clicks the "Edit horse" button on the Horse Information page, they will be redirected to the form for the horse with the pre-existing information already filled in.
- Given that the notes functionality is correctly implemented, when the user views the horse information page, they will be able to read and edit any notes they have in regards to medical issues or expenses.
- Given that the medical history page is correctly implemented, when the user clicks the button to view the full medical information for a horse, they will be rerouted to a page displaying all the relevant information on vaccines, illnesses and operations for the horse.

Remaining Backlog

Functional requirements

1. [ ] As a user I would like to be able to generate cohesive reports on a horse's metadata.
2. [ ] As a user I would like to be able to generate cohesive reports on total expenditures and profits.
3. [ ] As a user I would like to generate an information pamphlet for auctions.
4. [ ] As a user I would like to be able to send information updates from my phone. (if time allows)
5. [ ] As a user I would like to use a full mobile app. (if time allows)
6. [ ] As a user I would like to physically rescale windows in the application.
7. [ ] As a user I would like to generate data graphs.
8. [ ] As a user I would like to be able to see total number of horses.
9. [ ] As a user I would like to be able to upload pictures.

Non-functional requirements

1. [ ] As a user I would like to have fast response times (less than 1 second) while viewing and editing metadata on horses, vaccines and training regimens.
2. [ ] As a user I would like to be able to use this program for any number of horses (at least 1000).
3. [ ] As a user I would like to have a visually appealing user interface.
4. [ ] As a user I would like for the software to be stable.
5. [ ] As a developer I would like to employ good design patterns to make the software maintainable.
6. [ ] As a developer I would like for bug reports to be sent in the unlikely event of a crash.
7. [ ] As a user I would like this software to be cross-compatible across browsers or OS.
8. [ ] As a developer I would like to be able to test functionality before implementing new features into a working released version.