Team 21 Planning Document [Sprint III]

Project Name: STABLE

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Sprint Overview

In this sprint, we would like to remotely host our project so that we can test multiple users logged in at once. We will also work to improve the professionalism of our GUI and improve user experience. Functionally, we will implement the ability to generate reports for a user, along with personalized pamphlets for an individual horse. We will also work on implementing the ability to communicate with the program via reminders and information requests from your phone through a mobile friendly version of the website.

Scrum Master: Pedro Del Moral Lopez

Meeting Schedule: Tuesdays & Thursdays at 1:30PM

Risks/Challenges: Challenges for this sprint are our inexperience with mobile app/website development, which will slow our progress as we teach ourselves how to use existing frameworks, APIs, and languages. Furthermore we are not very familiar with existing methods for generating various documents for utilities such as pamphlets, reports, and graphs.

Current Sprint Detail

User Story #1

As a user I would like to be able to generate cohesive reports on a horse's metadata.

#	Task Description	Estimated Time	Owner
1	Implement UI to request reports	2	Shantanu
2	Implement algorithm to generate word document based reports	6	Pedro
3	Implement ability to remember old reports	3	Roy
4	Research methods to create word or PDF documents in JS Angular	6	Adam

Acceptance Criteria

- Given that the UI is correctly implemented, when the user wants to generate a report, doing so should be easy and intuitive
- Given that the algorithm is correctly implemented, when the user wants to generate a report, the report should be generated quickly and automatically, with readable and neat formatting and a professional look.
- Given that the ability to remember old reports is correctly implemented, the program should be able to remember and display old reports.

User Story #2

As a user I would like to be able to generate cohesive reports on total expenditures and profits.

#	Task Description	Estimated Time	Owner
1	Implement UI to request reports	2	Shantanu
2	Implement algorithm to generate word or excel document based reports	6	Adam
3	Implement ability to remember old reports	3	Pedro
4	Research methods to create word or excel documents in JS Angular	7	Adam

Acceptance Criteria

- Given that the UI is correctly implemented, when the user wants to generate a report, doing so should be easy and intuitive
- Given that the algorithm is correctly implemented, when the user wants to generate a report, the report should be generated quickly and automatically, with readable and neat formatting and a professional look.
- Given that the ability to remember old reports is correctly implemented, the program should be able to remember and display old reports.

User Story #3

As a user I would like to generate an information pamphlet for auctions.

#	Task Description	Estimated Time	Owner
1	Implement UI to request pamphlets	2	Adam
2	Implement algorithm to create and populate an information pamphlet	6	Pedro
3	Implement ability to remember old pamphlets	3	Adam

Acceptance Criteria

- Given that the UI is correctly implemented, when the user wants to generate a pamphlet, doing so should be easy and intuitive.
- Given that the algorithm is correctly implemented, when the user wants to generate a pamphlet, the pamphlet should be generated quickly, in a useful format, and should look professional.
- Given that the ability to remember old pamphlets is correctly implemented, the program should be able to remember and display old reports.

User Story #4

As a user I would like to be able to upload pictures.

As a user I would like to be able to see total number of horses.

#	Task Description	Estimated Time	Owner
1	Implement UI to upload photos	2	Shantanu
2	Implement algorithm to save and recall photos, modify the database to reflect this change	6	Roy
3	Modify exporting, importing, reports, and pamphlets to account for the new data field	6	Pedro
4	Implement UI/Angular Controller to see number of horses in database	1	Pedro

Acceptance Criteria

- Given that the UI is correctly implemented, when the user wants to upload a photo, the process should be easy and familiar to them. Also when a user navigates to the database page, they should be able to see at a glance how many horses there are.
- Given that the algorithm is correctly implemented, when the user associates a photo with a horse, the photo will be saved in the horse object and displayed on the horse profile.
- Given that the exporting and importing of data through various means is correctly modified, the user should be able to import and export horses with pictures associated to them.

User Story #5

As a user I would like to be able to send information updates from my phone.

#	Task Description	Estimated Time	Owner
1	Implement UI to make website mobile friendly	12	Everyone
2	Implement method to send notifications to the phone on upcoming events (possibly via text)	6	Everyone
3	Research existing libraries or APIs to assist in sending data from a firebase to a mobile device	12	Everyone

Acceptance Criteria

- Given that the UI is correctly implemented, accessing the website from a mobile device should be easy, responsive, and understandable.
- Given that the inter-device communication is correctly implemented, the user should receive notifications on important data such as upcoming reminders, and should be able to request data about a horse, vaccine, or training regime

User Story #6

As a user I would like to use a full mobile app. (if time allows)

#	Task Description	Estimated Time	Owner
1	Educate ourselves on existing SDKs and APIs in order to generate a mobile app	20+	Everyone
2	Implement GUI	12+	Everyone
3	Implement event handlers and controller for all GUI widgets	12+	Everyone

Acceptance Criteria

- Given that the UI is correctly implemented, the mobile app should be responsive, intuitively laid out, and fit all pertinent information on the screen
- Given that the inter-device communication is correctly implemented, the user should receive notifications on important data such as upcoming reminders, and should be able to request data about a horse, vaccine, or training regime

User Story #7

As a user I would like to generate data graphs.

#	Task Description	Estimated Time	Owner
1	Educate ourselves on existing APIs and frameworks for graph generation	10+	Everyone
2	Implement UI to request graphs on data	3	Shantanu
3	Implement algorithm to gather and process pertinent data from the database in order to generate a graph	12+	Pedro

Acceptance Criteria

- Given that the UI is correctly implemented, when the user wants to request graphs, doing so should be easy and intuitive.
- Given that the algorithm for generating the graph is correctly implemented, graph generation should be quick, time-efficient and resource-efficient.

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.