Team 21 Planning Document [Sprint I]

Project Name: STABLE

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Sprint Overview

Ideally we would like to have a functional skeleton version of the finished software that would serve as a MDP (Minimum Deliverable Product). This would not have much extra functionality but would serve as a base for sprints 2 and 3. The user should be able to log in/create an account, along with navigate the essential pages, although the pages will not have much information to display yet. We will set up the server, and have the webpage communicate with the server and database smoothly.

Scrum Master: Pedro Del Moral Lopez

Meeting Schedule: Tuesdays & Thursdays at 1:30PM

Risks/Challenges: Becoming familiar with all the necessary frameworks and languages, given that none of us have much experience in web development. The team needs to become familiar with JavaScript, AngularJS, Node.js, and generally the architecture of a database and server.

Current Sprint Detail

User Story #1

As a user I would like to create or sign into an account.

#	Task Description	Estimated Time	Owner
1	Implement Create Account webpage	4	Roy
2	Implement Log In webpage	4	Roy
3	Set up communication with backend	6	Roy
4	Set up server	6	Pedro & Shantanu
5	Set up database	6	Pedro & Shantanu
6	Implement authorization for account	3	Pedro & Shantanu
7	Implement ability to track accounts on backend	5	Pedro & Shantanu
8	Implement ability to update profile on frontend	3	Pedro & Shantanu
9	Implement error handling for invalid usernames or pre-existing accounts	2	Shantanu

Acceptance Criteria:
- ➢ Given that the backend is created successfully, when the user sends a request to create an account, the user ought to be able to create an account given that the necessary information is filled out with valid input.
- ➢ Given that the backend is created successfully, when the user sends a request to log in with an existing account, the user ought to be able to log in using existing credentials.
- ➢ Given the user inputs authorized credentials, when the user sends a request to log in, the user ought to be navigated to the hub page of the software.
- ➢ Given the user inputs unauthorized credentials, when the user sends a request to log in, the user ought to be rerouted to an error page explaining why they could not log in.
- ➢ Given the user attempts to create an already existing account, when the user sends a request to create the account, the user ought to be rerouted to an error page explaining why they could not create the account.

User Story #2

As a user I would like to change my password or recover a forgotten password.

#	Task Description	Estimated Time	Owner
1	Implement password recovery webpage	2	Adam
2	Implement security question or means of validating identity	3	Adam
3	Implement error handling for invalid answers to security questions	2	Adam
4	Connect the front end to the backend	6	Pedro & Shantanu

Acceptance Criteria:
- ➢ Given that the user account is valid and the backend is created successfully, when the user sends a request to change his/her password, the user ought to be navigated to the change password page or model.
- ➢ Given that the user inputs valid answers to the security questions, when the user inputs a new password, the user ought to be able to use the new password from there on, and the database ought to be updated to reflect the password change.
- ➢ Given that the user inputs invalid answers, when the user sends a request to change the password, the user ought to be rerouted to an error page explaining why their request could not be fulfilled.

User Story #3

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

- As a user I would like to record my horse's physical attributes.
- 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.
- As a user I would like to track a horse's improvement throughout the training regimen.
- As a user I would like to track each horse's auction price.
- As a user I would like to maintain and edit information on a horse's health.
- As a user I would like to maintain and edit information on a horse's vaccination history.
- As a user I would like to be able to search for an individual horse's data.

#	Task Description	Estimated Time	Owner
1	Implement horse class	2	Roy
2	Implement horse database	6	Pedro & Shantanu
3	Implement horse information webpage	4	Adam
4	Implement change horse information webpage	4	Adam
5	Implement vaccine class	2	Roy
6	Implement medical history information webpage	4	Roy
7	Implement add horse webpage	4	Roy
8	Implement vaccine database	6	Pedro & Shantanu
9	Implement horse database webpage	8	Roy
10	Implement horse searching functionality	4	Roy & Adam
11	Connect the front end to the backend	6	Pedro & Shantanu
12	Implement error handling for invalid searches	2	Shantanu

Acceptance Criteria:
- ➢ Given that the backend is setup successfully, when the user attempts to create a new horse, the user ought to be navigated to the create-a-horse webpage where he can input the information for a new horse.
- ➢ Given that the user inputs valid information on the create-a-horse webpage, when the user attempts to create the horse profile, the information ought to be stored in the database for later reference.
- ➢ Given that the backend is setup successfully, when the user attempts to search for an already existing horse, the user ought to be navigated to the information page for that specific horse and should have the ability to edit the information.
- ➢ Given that the backend is setup successfully, when the user edits the information of an already existing horse, the backend ought to be updated to reflect the information.

User Story #4

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

- As a user I would like to maintain and edit the information of different trainers on file.
- As a user I would like to maintain and edit the exercises of a regimen on file.
- As a user I would like to maintain and edit information for equipment necessary for a training regimen.

#	Task Description	Estimated Time	Owner
1	Implement training regimen webpage	4	Adam
2	Implement trainer information webpage	4	Adam
3	Implement training regimen database	4	Pedro & Shantanu
4	Connect the front end to the backend	6	Pedro
5	Implement a "database" page for the training regimen	6	Adam & Roy
6	Implement searching functionality for the training regimens	4	Adam & Roy
7	Implement the create-a-training regimen webpage	4	Adam
8	Implement a create-a-trainer webpage	4	Adam
9	Implement training regimen class	2	Roy
10	Implement equipment class	2	Roy
11	Implement trainer class	2	Roy
12	Implement trainer database	6	Pedro & Shantanu
13	Implement error handling for invalid searches	2	Shantanu

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 sends a request to create a trainer information profile, the user ought to be navigated to the webpage where he can input the information to create a new trainer, and have the backend updated to reflect the new database entry.
- Given that the backend was setup successfully, when the user sends a request to view the information of a trainer, the user ought to be navigated to the webpage where he can view and edit the information for that trainer.

User Story #5

As a user I would like to maintain and edit information on a vaccine's medical data.

- As a user I would like to maintain and edit information on the price of vaccines.
- As a user I would like to maintain and edit information on the providers of vaccines.
- As a user I would like to be able to search for vaccines' data.

#	Task Description	Estimated Time	Owner
1	Implement vaccine information webpage	4	Adam
2	Implement vaccine database	6	Pedro
3	Implement create-a-vaccine webpage	4	Adam
4	Implement search functionality for vaccines in database	2	Pedro
5	Implement error handling for invalid searches	2	Shantanu
6	Implement vaccine database webpage	6	Adam & Roy

Acceptance Criteria:
➢ Given that the backend was setup successfully, when the user sends a request to create a vaccine information profile, the user ought to be navigated to the create-a-vaccine webpage where they can input the information for the vaccine, and have the backend updated to reflect the new entry to the database.
➢ 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 searches for an invalid vaccine, the user ought to be notified that the vaccine does not exist in the database.
➢ Given that the backend was setup successfully, when the user sends a request to view a vaccine from the "layout" or "database" webpage where vaccine profiles are visually displayed, the user ought to be navigated to the webpage with the information for that vaccine.

Remaining Backlog

Functional requirements

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

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 regiments.
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 user I would like to have the information secure behind a password.
6. [ ] As a developer I would like to have cleanly organized code.
7. [ ] As a developer I would like to have well-documented code.
8. [ ] As a developer I would like to create an API for original code.
9. [ ] As a developer I would like to employ good design patterns to make the software maintainable.
10. [ ] As a developer I would like for bug reports to be sent in the unlikely event of a crash.
11. [ ] As a user I would like this software to be cross-compatible across browsers or OS.
12. [ ] As a user I would like the software to be intuitive and easy to install.
13. [ ] As a developer I would like to be able to test functionality before implementing new features into a working released version.