Team 25 - Sprint 1 Planning Document

Revanth Nagurla, Aldio Ngudjiharto, Simron Patel, Willy Tanggono, Jackie Wu

Sprint Overview

For the first sprint, we want to design a strong foundation for our mobile application. Users will be able to register for accounts and manage them. This includes setting up our backend and database and making sure they work well with each other. Additionally, the user interface will have a smooth navigation feel to it. This is important to have initially because the user experience will have the most development throughout the lifecycle of the application. Lastly, the application will have the ability to generate routes, and show an outline on a map. Not only will this sprint be a solid base for the application, it will also be a learning process.

Scrum Master: Revanth Nagurla

Meeting Schedule: Tuesdays and Thursdays at 2:00pm

Risks and Challenges:

Most team members are not familiar with the frameworks, languages, and technologies we are using such as Node.js, JavaScript, MySQL, React. As a result, the first sprint will deal members learning the new technologies in order to contribute effectively to the project. Furthermore, this is the first time some members are working on a big project with other team members; we will have to figure out a plan on what will allow us to cooperate and communicate effectively.

Current Sprint Detail

User Story #1: As a user, I would like to be able to register for an account.

#	Task Description	Estimated Time	Owner
1	Setup back end server	4 hours	Simron Patel
2	Implement Passport.js	14 hours	Simron Patel
3	Implement functionality for profile creation on backend	3 hours	Simron Patel
4	Generate Unit tests	4 hours	Simron Patel

Acceptance Criteria:
- Given that the backend to create an account is complete, when a request to create an account is performed, then the new account will be added to the database
- Given that passport.js is implemented, users will sign in to the app through Facebook login.
- Given that the account has been linked to Facebook, the user will be able to add additional attributes to their account that is unrelated to Facebook.
- Given that passport.js is implemented, testing criteria will be as follows: A user should be able to login to their account. A user should be denied access if they supply the incorrect password. When a user logs in, the database should always return the correct information.

User Story #2: As a user, I would like to be able to manage my account.

#	Task Description	Estimated Time	Owner
1	Implement a profile page UI	6 hours	Willy
2	Implement delete account	2 hours	Willy
3	Implement change name	2 hours	Willy
4	Generate Unit tests	3 hours	Willy

Acceptance Criteria:
- Given that the user is logged in and on the main page, the user will able to see their profile page.
- Given that the user has an account, they are able to delete their account and any statistics associated with it.
- Given that the user has an account, they are able to change their profile nickname.

- Given a working implementation of the previous tasks, create unit tests in order to test the functionality of the tasks.

User Story #3: As a user, I would like to stay logged in in my account.

#	Task Description	Estimated Time	Owner
1	Implement functionality where users don't have to log in again if they click on the stay signed in box (cookies/persistent/local storage tokens)	5 hours	Willy
2	Create a stay logged in checkbox option on the login page	3 hours	Willy
3	Generate unit tests	3 hours	Willy

Acceptance Criteria:
- Given that the user can see the UI, there exists a stay logged in checkbox on the login page.
- Given that the users checked the stay logged in option on login, they are not required to restart the whole authentication process after minimizing the application or fully killing the process.
- Given that the previous tasks are implemented, create unit tasks which will test the functionality of the previous tasks.

User Story #6: As a user, I would like to see a map that outlines my path.

#	Task Description	Estimated Time	Owner
1	Create visual of a map after route generation	3 hours	Jackie Wu
2	Implement route details	2 hours	Jackie Wu
3	Implement a directions view	4 hours	Jackie Wu
4	Generate Unit Tests	4 hours	Jackie Wu

Acceptance Criteria:
- Given that the user has generated a route, the map view will display the route overview.
- Given that the user has generated a route, the user can click on a button to open a directions view.
- Given that the user has generated a route, the user see the generated route's settings.

User Story #8: As a user, I would like to able to transfer my information from one facebook account to a different facebook account.

#	Task Description	Estimated Time	Owner
1	Implement functionality to change account on backend	5 hours	Aldio Ngudjiharto
2	Implement forgot password change account on frontend	2 hours	Aldio Ngudjiharto
3	Implement functionality for users to be able to change their facebook account after hitting the button and receiving the email	3 hours	Aldio Ngudjiharto
4	Create mailer in order to send emails to the users that click on change account	3 hours	Aldio Ngudjiharto
5	Generate unit tests	4 hours	Aldio Ngudjiharto

Acceptance Criteria:
- Given that the database works and updates, when the user switches accounts, it will change after the user successfully changed his or her facebook account.
- Given that the transfer information account button has been implemented, when the user presses the button, then the user will be able to change their account with a different facebook account
- Given that the change account button functionality has been implemented correctly. When a user clicks the change account button, the user will get the email with instruction of how to change his or her facebook account written in that email.
- Given that the email functionality has been implemented, when the user receives the email, then he or she can successfully change their facebook account.
- Given that the change account button implementation is implemented and completed, the testing criteria is as follows: the user should able to click on change my account button and receive email. After the user follow the instruction, the database will be updated accordingly. The user will able to log in with his or her new information.

User Story #9: As a user, I would like to be able to easily access my data across all of my devices.

#	Task Description	Estimated Time	Owner
1	Implement functionality to login to	5 hours	Revanth Nagurla

#	Task Description	Estimated Time	Owner
	accounts in multiple mobile devices		
2	Implement functionality for logging out of an account and then logging in to a different one	3 hours	Revanth Nagurla
3	Create and implement a "switch user" button on frontend	2 hours	Revanth Nagurla
4	Generate unit tests	3 hours	Revanth Nagurla

Acceptance Criteria:
- Given that the basic user interface is implemented, when a user wishes to login to their account to another mobile, then he or she will be able to log in to another mobile device
- Given that the basic user interface is implemented, when a user wishes to switch accounts, then he or she will be able to log out of the current account and log into the desired account
- Given that the basic user interface is implemented, when a user wishes to switch users, then he or she will be able to click the switch user button to log in to their desired account
- Given that the implementations of the previous tasks are complete, then we will have unit tests in order to test the functionality so they work properly

User Story #10: As a user, I would like to be able to generate a route according to my preferences.

#	Task Description	Estimated Time	Owner
1	Connect to Google Maps API	4 hours	Simron Patel
2	Implement functionality where users choose their starting point and how many miles they want	8 hours	Simron Patel
3	Implement algorithm that creates the route closest to the requested distance	6 hours	Simron Patel
4	Generate unit tests	4 hours	Simron Patel

Acceptance Criteria:
- Given that the app has Google Maps API credentials, the app will be able to send and receive Google Maps API calls.
- Given the route configuration page is implemented correctly, the user will be able to pick a starting point and traveling distance.

- Given the route configuration page is implemented correctly, the user will be able to generate a route given a starting point and traveling distance.
- Given that Google Maps is completely implemented, testing criteria is as follows: When a user picks a starting location and traveling distance, the same route should generate each time, the route should also generate the right distance every time.

User Story #20: As a user, I would like to see the weather that is related to my route.

#	Task Description	Estimated Time	Owner
1	Connect to openweathermap api	4 hours	Revanth Nagurla
2	Implement functionality to view weather of starting point location	2 hours	Revanth Nagurla
3	Implement functionality to view weather conditions on the route screen	3 hours	Revanth Nagurla
4	Create and implement "View Weather" button on the front end	2 hours	Revanth Nagurla
5	Generate unit tests	3 hours	Revanth Nagurla

Acceptance Criteria:
- Given that the basic user interface is implemented, the the app will be able to send and receive OpenWeatherMap API calls
- Given that the basic user interface is implemented, when the users wants to know the weather of their starting point, then he or she will be able to see how the weather is at the current time
- Given that the basic user interface is implemented, when the user wishes to see the weather on the screen, then he or she will be able to look at the weather conditions on the route screen
- Given that the basic user interface is implemented, when the user wishes to view the weather, then he or she will be able to click on the view weather button and see what the weather is like at the starting location
- Given that the weather implementation is implemented and completed, the testing criteria is as follows: when a user picks a starting location, he or she will be able to see the current weather conditions and it will match with other weather sources

User Story #24: As a user, I would like to be able to easily navigate through the user interface.

#	Task Description	Estimated Time	Owner

1	Implement login functionality on frontend	3 hours	Jackie Wu
2	Implement route generator functionality on frontend	4 hours	Jackie Wu
3	Implement manage account interface on frontend	2 hours	Jackie Wu

Acceptance Criteria:
- Given that account authentication is implemented, upon successful authentication, the user will be taken to the initial view of the route generator.
- Given that the user is logged in, the route generator view will display a map of current location, customizable route options including distance, estimated time, and activity type.
- Given that the user is logged in, the user can switch between route generator view and profile view using the tab bar.
- Given that the user is logged in, the profile view will display the user's name, statistical summary, and button for account settings.

User Story #29: As a user, I would like to choose my preferred units of measurement for weather and statistics.

#	Task Description	Estimated Time	Owner
1	Implement the change measurement button on frontend	5 hours	Aldio Ngudjiharto
2	Implement the calculation for change measurement button on backend	3 hours	Aldio Ngudjiharto
3	Generate unit tests	4 hours	Aldio Ngudjiharto

Acceptance Criteria:
- Given that the user able to click on different type of measurement for weather and statistics, when they do press the button, then they will be able to view the measurements according to their preference
- Given that the user is able click on his or her preferred units of measurement, when the user changes the measurement, it will be an accurate conversion between units.
- Given that the previous tasks are implemented, the testing criteria is as follows: when the user presses the button and changes the measurements, it will show their preferred unit of measurement correctly convert the measurements which will be compared to another measurement converting source

Remaining Backlog

Total Stories Left: (20/30)

1. ~~As a user, I would like to be able to register for an account.~~
2. ~~As a user, I would like to be able to manage my account.~~
3. ~~As a user, I would like to stay logged in in my account.~~
4. As a user, I would like to be able to view my account statistics.
5. As a user, I would like to see the directions of my route.
6. ~~As a user, I would like to see a map that outlines my path.~~
7. As a user, I would like audio that tells me as I need to travel a new direction.
8. ~~As a user, I would like to be able to transfer my information from one Facebook account to a different Facebook account~~
9. ~~As a user, I would like to be able to easily access my data across all of my devices.~~
10. ~~As a user, I would like to be able to generate a route according to my preferences.~~
11. As a user, I would like to be able to see the time elapsed during my run.
12. As a user, I would like to be able to see the distance traveled during my run.
13. As a user, I would like to be able to see how many calories I burned during my run.
14. As a user, I would like to be able to view my past routes taken.
15. As a user, I would like to be able to view popular routes.
16. As a user, I would like to receive notifications about exercising if I have been skipping workouts.
17. As a user, I would like to be able to set workout goals.
18. As a user, I would like to modify my workout during the route.
19. As a user, I would to have the option of stopping my workout during a route.
20. ~~As a user, I would like to see the weather that is related to my route.~~
21. As a user, I would like to save my favorite routes.
22. As a user, I would like to pause my workout.
23. As a user, I would like to see the average of all my statistics taken which can include average miles per session and average pace.
24. ~~As a user, I would like to be able to easily navigate through the user interface~~
25. As a user, I would like to see how many times I have ran a specific route.
26. As a user, I would like to add notes to my saved routes.
27. As a user, I would like to be able to view my personal workout records.
28. As a user, I would like to receive daily notification reminders to work out at specified times.
29. ~~As a user, I would like to choose my preferred units of measurement for weather and statistics.~~
30. As a user, I would like to sort my statistics based on running, biking, and walking.
31. As a user, I would like to see routes based on the scenery my area has to offer.
32. Time Permitted: As a user, I would like to see routes based on elevation change.
33. Time Permitted: As a user, I would like to connect and travel with other users on a route.

34. Time Permitted: As a user, I would like to see areas that are not safe for me to travel in and inform me about this news.
35. Time Permitted: As a user, I would like to be able to send messages with other users of the app.