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Team 6

Sprint 2 Planning Document

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W e r k  I t

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Sprint Overview

By the end of this sprint, our team intends to have basic exercise functionality our apps are intended for. We have selected 20 user stories which will focus on the following tasks: creating and choosing a workout type, creating and choosing an exercise type, enabling dark mode, and creating a graphical visualization. We will implement functionality so that the mobile application will be the data tracker and the web application will display the graphical statistics from the inputted workouts. Some user stories from sprint 1 are also being completed this sprint as they were not completed before. We hope to accomplish rudimentary workout data tracking in this sprint.

Scrum Master:

Dithi Saxena

Meeting Schedule:

Thursdays | 8 PM EST | Zoom

Sundays | 10 AM EST | Zoom

Additional meetings as necessary

Risks and Challenges:

While we have a well-planned sprint with clear objectives, we are expecting some challenges. Firstly, we expect challenges in setting up the data flow from the mobile app saving data to the database and the web client retrieving that data. Right now, the web app and mobile app are both connected to the server, so we will need to investigate and find an approach for both clients to access and manipulate the same data to work as intended. Lastly, a lot of work for this sprint pertains to the mobile application. Therefore it is important that the team collaborate and communicate efficiently in order to make sure that everyone is equally contributing to the work of this project and that one person is not doing all of this work. This may mean that certain team members will need to study React Native in order to help the mobile developer for this project.

Current Sprint Detail

User Story #1

As a user, I would like to have face ID login once my credentials are saved.

#	Description	Estimated Time	Owner
1	Check whether device is capable of supporting face ID login	1 hr	Chris
2	Implement face ID login option for supported devices	2 hrs	Chris
3	Implement authentication handling in the backend to validate face ID login	2 hrs	Dithi
4	Debug and test	1 hr	Dithi
Total Hours		6 hrs	

Acceptance criteria - Mobile only

- Given that the user is on the login page when they open the mobile app, after providing their username and tapping the button for face ID, then the mobile client will start listening for a face ID input.
- Given that a user provides the correct face ID and username when they login, then the backend route will accurately identify the respective user.
- Given that there are no error messages, when the user uses face ID to login, then the user will be logged in and redirected to their dashboard.

User Story #2

As a user, I would like to have touch ID login once my credentials are saved.

#	Description	Estimated Time	Owner
1	Check whether device is capable of supporting touch ID login	1 hr	Chris
2	Implement touch ID login option for supported devices	2 hrs	Chris
3	Implement authentication handling in the backend to validate touch ID login	2 hrs	Dithi
3	Debug and test	1 hr	Dithi
Total Hours		6 hrs	

Acceptance criteria - Mobile only

- Given that the user is on the login page when they open the mobile app, when they input their username and tapping the button for touch ID, then the mobile client will start listening for a touch ID input.
- Given that a user provides the correct touch ID and username when they login, then the backend route will accurately identify the respective user.
- Given that there are no error messages, when the user uses touch ID to login, then the user will be logged in and redirected to their dashboard.

User Story #3

As a user, I would like my device to remember me until the next time I log out on the mobile app.

#	Description	Estimated Time	Owner
1	Create a token corresponding to the login credentials that persists even when the app is closed.	2 hrs	Chris
2	Access the token when the user boots up the mobile app to automatically log in.	2 hrs	Chris
3	Debug and test	1 hr	Vivek
Total Hours		5 hrs	

Acceptance criteria - Mobile only

- Given a user has never signed into their mobile app before, when they sign into the app and select the “Keep me signed in” option, then create a token in AsyncStorage that holds the user’s login credentials.
- Given a user has signed into their mobile app before with the “Keep me signed in” option selected, when they open the mobile app, then use the token to log in without user action.
- Given a user has a token created for their mobile app, when the user chooses to sign out, then delete the user token from AsyncStorage, causing the login screen to appear the next time the app is opened.

User Story #4

As a user, I would like to be able to input the number of sets I did for each type of lift.

#	Description	Estimated Time	Owner
1	Setup API routing for setting user data	2 hrs	Katy
2	Implement an input field that stores user input locally and is accessible for packaging for server call	2 hrs	Chris
3	Debug and test	1 hr	Dithi
Total Hours		5 hrs	

Acceptance criteria - Mobile only

- Given that a user selects the “sets” input field when on the workout editor screen, the input field will accurately reflect any input typed by the user.
- Given that a user inputs a value in the “sets” input field, when the user inputs a value larger than 99, then the input field will prevent them from writing more than two digits.
- Given that a user is done editing their exercise, when the user submits the exercise, then the number of sets for that particular exercise is saved to the database.

User Story #5

As a user, I would like to be able to input the weight I did per set of each type of lift.

#	Description	Estimated Time	Owner
1	Setup API routing for setting user data	2 hrs	Katy
2	Implement an input field that stores user input locally and is accessible for packaging for server call	2 hrs	Chris
3	Debug and test	1 hr	Dithi
Total Hours		5 hrs	

Acceptance criteria - Mobile only

- Given that a user selects the “weight” input field when on the workout editor screen, the input field will accurately reflect any input typed by the user.
- Given that a user inputs a value in the “weight” input field, when the user inputs a value larger than 999, then the input field will prevent them from writing more than three digits.
- Given that a user is done editing their exercise, when the user submits the exercise, then the weight for that particular exercise is saved to the database.

User Story #6

As a user, I would like to be able to set the duration of my run.

#	Description	Estimated Time	Owner
1	Setup API routing for setting user data	2 hrs	Katy
2	Implement an input field that stores user input locally and is accessible for packaging for server call	2 hrs	Chris
4	Debug and test	1 hr	Dithi
Total Hours		5 hrs	

Acceptance criteria - Mobile only

- Given that a user selects the “duration” input field when on the workout editor screen, the input field will accurately reflect any input typed by the user.
- Given that a user inputs a value in the “duration” input field, when the user inputs a value larger than 999, then the input field will prevent them from writing more than three digits.
- Given that a user is done editing their exercise, when the user submits the exercise, then the duration for that particular exercise is saved to the database.

User Story #7

As a user, I would like to be able to set the speed for my run.

#	Description	Estimated Time	Owner
1	Setup API routing for setting user data	2 hrs	Katy
2	Implement an input field that stores user input locally and is accessible for packaging for server call	2 hrs	Chris
3	Debug and test	1 hr	Dithi
Total Hours		5 hrs	

Acceptance criteria - Mobile only

- Given that a user selects the “speed” input field when on the workout editor screen, the input field will accurately reflect any input typed by the user.
- Given that a user inputs a value in the “speed” input field, when the user inputs a value larger than 99, then the input field will prevent them from writing more than two digits.
- Given that a user is done editing their exercise, when the user submits the exercise, then the speed for that particular exercise is saved to the database.

User Story #8

As a user, I would like to be able to set the number of laps for my swim.

#	Description	Estimated Time	
1	Setup API routing for setting user data	2 hrs	Katy
2	Implement an input field that stores user input locally and is accessible for packaging for server call	2 hrs	Chris
3	Debug and test	1 hr	Dithi
Total Hours		5 hrs	

Acceptance criteria - Mobile only

- Given that a user selects the “laps” input field when on the workout editor screen, the input field will accurately reflect any input typed by the user.
- Given that a user inputs a value in the “laps” input field, when the user inputs a value larger than 99, then the input field will prevent them from writing more than two digits.
- Given that a user is done editing their exercise, when the user submits the exercise, then the laps for that particular exercise is saved to the database.

User Story #9

As a user, I would like to be able to select individual types of exercises.

#	Description	Estimated Time	Owner
1	Design and setup database schema for saved exercise types	3 hrs	Dithi
2	Setup API routing for retrieving data/saving new data	2 hrs	Katy
3	Make server call for saved exercise types and parse response from the server	1 hr	Chris
4	Render the dropdown selector based on parsed response	2 hrs	Chris
5	Debug and test	1 hr	Dithi
Total Hours		9 hrs	

Acceptance criteria - Mobile only

- Given that the user is on the workout editor screen, when the exercise type dropdown is tapped, the user will be able to select the type of exercise they would like to do.
- Given that the user selects the type of exercise when on the workout editor screen, then the UI prompts the user to input the required fields for that exercise.
- Given that the user did not select an exercise type, when the user tries to submit the workout, an error message will alert the user, "Please choose or create an exercise type."

User Story #10

As a user, I would like to be able to create a new type of exercise if it does not already exist.

#	Description	Estimated Time	Owner
1	Setup API routing for retrieving data/saving new data and creating new exercises	2 hrs	Katy
2	Add dynamic functionality to known exercise types	1 hr	Katy
3	Implement an “add type” to the exercise type dropdown	1 hr	Chris
4	Make a server call to insert the new exercise type into user database	1 hr	Chris
5	Debug and test	1 hr	Dithi
Total Hours		6 hrs	

Acceptance criteria - Mobile only

- Given that the user is on the workout editor screen, when the exercise type dropdown is tapped, the user will be able to select “add new exercise type” if it does not already exist.
- Given that the user is on the workout editor screen, when the user enters an existing type of exercise, an error message will alert the user, “This exercise type already exists.”
- Given that a user creates a new exercise type, when they view the exercise type dropdown, then the new exercise type should now exist.

User Story #11

As a user, I would like to be able to select the type of workout I plan to do (lifting, running, swimming, etc.).

#	Description	Estimated Time	Owner
1	Design and setup database schema for workout type	3 hrs	Dithi
2	Setup API routing for retrieving data/saving new data	2 hrs	Katy
3	Make server call for saved workout types and parse response from the server	1 hr	Chris
4	Render the dropdown selector based on parsed response	2 hrs	Chris
5	Debug and test	1 hr	Dithi
Total Hours		9 hrs	

Acceptance criteria - Mobile only

- Given that the user is on the workout editor screen, when the workout type dropdown is tapped, the user will be able to select the type of workout they would like to do.
- Given that the user selects the type of workout when on the workout editor screen, then the UI prompts the user to input the required fields for that exercise.
- Given that the user did not select a workout type, when the user tries to submit the workout, an error message will alert the user, "Please select a workout type."

User Story #12

As a user, I would like to be able to set a custom type of workout.

#	Description	Estimated Time	Owner
1	Setup API routing for retrieving data/saving new data and creating new workouts	2 hrs	Katy
2	Add dynamic functionality to known workout types	1 hr	Katy
3	Implement an “add type” to the workout type dropdown	1 hr	Chris
4	Make a server call to insert the new workout type into user database	1 hr	Chris
5	Debug and test	1 hr	Dithi
Total Hours		6 hrs	

Acceptance criteria - Mobile only

- Given that the user is on the workout editor screen, when the workout type dropdown is tapped, the user will be able to select “add new workout type” if it does not already exist.
- Given that the user is on the workout editor screen, when the user enters an existing type of workout, an error message will alert the user, “This workout type already exists.”
- Given that a user creates a new workout type, when they view the workout type dropdown, then the new workout type should now exist.

User Story #13

As a user, I would like to be able to set the exercises for my custom workout.

#	Description	Estimated Time	Owner
1	Setup API routes for setting custom workout	2 hrs	Katy
2	Design and setup schema in database for saving custom workout with exercises	3 hrs	Dithi
3	Keep track of workout metadata (exercises) on the workout editor screen	2 hrs	Chris
4	Package the local metadata and make a server call	1 hr	Chris
5	Debug and test	1 hr	Dithi
Total Hours		9 hrs	

Acceptance criteria - Mobile only

- Given a workout type is selected when a user creates a new workout, then the exercise dropdown menu should be filtered for exercises of the matching type.
- Given that the user is on the workout editor screen, when the user enters a duplicate exercise, an error message will alert the user, "This exercise already exists."
- Given the user creates a new workout, when the user submits the workout, then the workout will be added to the user database and accessible from the workout editor screen.

User Story #14

As a user, I would like to be able to create my own workout plans.

#	Description	Estimated Time	Owner
1	Setup API routes	2 hrs	Katy
2	Design the UI for the workout plan editor screen	2 hrs	Vivek
3	Implement the workout plan editor screen UI	3 hrs	Vivek
4	Implement functionality of the workout plan editor screen	4 hrs	Vivek
5	Debug and test	1 hr	Dithi
Total Hours		12 hrs	

Acceptance criteria - Mobile only

- Given a user has previously created workouts, when they go to make a workout plan, they should be able to select from those workouts to create a workout plan.
- Given a user is creating a workout plan, when they select a workout and a day of the week, then the workout should be assigned to that day of the week.
- Given a user is done creating their workout plan, when they submit it, then the user's workout plans should be updated in the database and the mobile dashboard will be updated to include the new workout plan.

User Story #15

As a developer, I need to display a loading symbol if requests take longer than a second so that the user does not think the app has frozen.

#	Description	Estimated Time	Owner
1	Design loading symbol UI for web app if requests to the server take longer than one second.	3 hrs	Vivek
2	Design loading symbol UI for mobile app if requests to the server take longer than one second.	3 hrs	Vivek
3	Debug and test	1 hr	Vivek
Total Hours		7 hrs	

Acceptance criteria - Web and mobile

- Given that the elapsed time since the button click is at least 1 second and no response has been received, the loading symbol will appear.
- Given that the loading symbol appears when the client is waiting for a response, then the loading symbol should be in motion to indicate the process is still occurring.
- Given that the loading symbol appears when there is an error with the request, then the loading symbol should indicate the error (e.g. network connectivity, etc.)

User Story #16

As a user, I would like to be able to set my profile picture.

#	Description	Estimated Time	Owner
1	Add profile pic feature on the web app.	6 hrs	Vivek
2	Add profile pic feature on the mobile app.	6 hrs	Vivek
3	Debug and test	1 hr	Vivek
Total Hours		13 hrs	

Acceptance criteria - Web and mobile

- Given that the user clicks the profile image, then the user can choose to set or update the profile picture.
- Given that the user chooses to set or update the profile picture when they click the profile image, then the user can upload a pre-existing photo.
- Given that the user sets a profile picture, when they are on the profile page then it will be displayed at the top of the page.
- Given that the user sets a profile picture, when they are on the dashboard page then it will be displayed in the top corner of the page.

User Story #17

As a user, I would like to see my workout time per week on a histogram.

#	Description	Estimated Time	Owner
1	Implement the workout time per week field in the database	2 hrs	Dithi
2	Implement API route in server for setting/retrieving weekly workout time for the user from the database	2 hrs	Katy
3	Retrieve the workout time per week from the database	4 hrs	Abhishek
4	Develop the UI for embedding a chart of the weekly workout time	6 hrs	Abhishek
5	Debug and test the graphic for the weekly workout time	1 hr	Abhishek
Total Hours		15 hrs	

Acceptance criteria - Web only

- Given that a user visits the *Werk It* dashboard page, when the workout time per week for the respective user changes on the database, then the charts should be changed accordingly.
- Given that a user visits the *Werk It* dashboard page, when the average workout time per day for the week is greater than 3, there should be an alert pop up congratulating the user.
- Given that a user visits the *Werk It* dashboard page, when the workout time is 0 for all the days for the week and the day is Sunday, then there should be an alert pop up motivating the user to workout more the next week.

User Story #18

As a user, I would like to be able to stay motivated through a workout streak counter.

#	Description	Estimated Time	Owner
1	Implement daily and weekly streak counter field in the database	2 hrs	Dithi
2	Implement API route in server for setting/retrieving daily and weekly streak counters from the database	2 hrs	Katy
3	Retrieve the weekly streak counter using the API route	4 hrs	Abhishek
4	Retrieve the daily workout streak counter in the database	4 hrs	Abhishek
5	Develop special text field to display the workout streak counter	4 hrs	Abhishek
6	Debug and test the workout streak counter	1 hr	Abhishek
Total Hours		17 hrs	

Acceptance criteria - Web only

- Given that a user visits the *Werk It* dashboard page, when the weekly goal progress bar is completely filled, the workout streak counter should increase by one.
- Given that a user visits the *Werk It* dashboard page, when the weekly goal has not been met, then the workout streak counter should be set to 0.
- Given that a user visits the *Werk It* dashboard page, when the workout streak counter is reset to 0, there should be an alert popup that motivates the user to workout more in the future.

User Story #19

As a user, I would like to see a progress bar at the start of the week indicating how much of the weekly goal is accomplished.

#	Description	Estimated Time	Owner
1	Setup API routing for getting weekly progress data and tracking time	2 hrs	Katy
3	Implement the UI for a progress bar on the dashboard page	3 hrs	Abhishek
4	Retrieve weekly workout data from server	3 hrs	Abhishek
5	Update the progress bar after the workout data has been retrieved	3 hrs	Abhishek
6	Debug and test	1 hr	Dithi
Total Hours		12 hrs	

Acceptance criteria - Web only

- Given that a user has set a weekly workout plan on the mobile app, when they complete a workout within a given week, then the progress bar should be increased accordingly.
- Given that a user has set a weekly workout plan on the mobile app, when they fail to complete a workout within a given week, then the progress bar should not increase.
- Given that a user visits the *Werk It* dashboard page, when the progress bar is full, there should be an alert pop up congratulating the user.

User Story #20

As a user, I would like to be able to view the web app in dark mode.

#	Description	Estimated Time	Owner
1	Implement UI for <i>Werk It</i> in the user profile page	4 hrs	Abhishek
2	Save the dark mode preference for users in the database cluster	1 hr	Dithi
3	Adjust login return body from server to include user's dark mode preference	1 hr	Katy
4	Debug and Test UI for dark mode	1 hr	Abhishek
Total Hours		6 hrs	

Acceptance criteria - Web only

- Given a user is logged in, when they visit the *Werk It* user profile page, then the switch for the dark mode option should be displayed.
- Given the user has the dark mode functionality disabled, when they visit the dashboard page, it should not be displayed in dark mode.
- Given the user has the dark mode functionality enabled, when they visit the dashboard page, it should be displayed in dark mode.
- Given the user has logged out, when they login again, then their preference for dark mode will persist and be reflected in the dashboard page.

Individual Team Member Hour Totals

Team Member	Total Hours
Dithi Saxena	32 hrs
Katy Penquite	31 hrs
Abhishek Gunasekar	38 hrs
Christopher Yu	33 hrs
Vivek Nair	32 hrs

Remaining Backlog

Functional

#	User Stories
1	As a user, I would like to be able to easily access the <i>Werk It</i> landing page.
2	As a user, I would like to be able to register for a <i>Werk It</i> account on the web app.
3	As a user, I would like to be able to login to my <i>Werk It</i> account on the web app.
4	As a user, I would like to be able to sign up on the mobile app.
5	As a user, I would like to be able to login to my <i>Werk It</i> account on the mobile app.
6	As a user, I would like to have face ID login once my credentials are saved.
7	As a user, I would like to have touch ID login once my credentials are saved.
8	As a developer, I need to display an error message if at least one of the user's credentials already exist in the database when creating an account.
9	As a developer, I need to display an error message if at least one of the user's credentials is incorrect.
10	As a user, I would like my password to be reset if I forget it.
11	As a user, I would like the ability to change my username.
12	As a user, I would like to be able to view my app history on the web app.
13	As a user, I would like to be able to set my profile picture.
14	As a user, I would like to see a motivational quote whenever I access the app.
15	As a user, I would like to be able to easily navigate the dashboard of the mobile app.
16	As a user, I would like to be able to easily access the Create New Workout screen on the mobile app.
17	As a user, I would like to receive workout suggestions based on my activity.
18	As a user, I would like to be able to select the type of workout I plan to do (lifting, running, swimming, etc.).
19	As a user, I would like to be able to select individual types of exercises.
20	As a user, I would like to be able to create a new type of exercise if it does not already exist.

21	As a user, I would like to be able to input the number of sets I did for each type of lift.
22	As a user, I would like to be able to input the weight I did per set of each type of lift.
23	As a user, I would like to be able to set the duration of my run.
24	As a user, I would like to be able to set the speed for my run.
25	As a user, I would like to be able to set the number of laps for my swim.
26	As a user, I would like to be able to set a custom type of workout.
27	As a user, I would like to be able to set the exercises for my custom workout.
28	As a user, I would like the option to choose set/reps/weight for my custom workout.
29	As a user, I would like to be able to easily comprehend the visualizations generated based on my workout statistics.
30	As a user, I would like to see my workout time per week on a histogram.
31	As a user, I would like to see a line graph comparing my workout time with my friends.
32	As a user, I would like to see a progress bar at the start of the week indicating how much of the weekly goal is accomplished.
33	As a user, I would like to be able to connect with my friends.
34	As a user, I would like to be able to send my workout plan to my friends.
35	As a user, I would like to be able to send fitness challenges to my friends.
36	As a user, I would like to post my activities to social media applications.
37	As a user, I would like to be able to view the web app in dark mode.
38	As a user, I would like to be able to stay motivated through a workout streak counter.
39	As a user, I would like to be reminded if I am inactive for prolonged periods of time.
40	As a user, I would like to be able to connect my music streaming platform.
41	As a user, I would like to be able to create my own workout plans.
42	As a user, I would like to be able to keep track of my caloric intake.
43	As a user, I would like to be able to view the mobile application in dark mode.
44	As a user, I would like to be able to have my data persist within the mobile app.
45	As a user, I would like my device to remember me until the next time I log out.
46	As a user, I would like to be able to choose workouts that help me achieve my body goal.

47	As a user, I would like to be able to set a workout schedule for the week.
48	As a user, I would like to be reminded when I have an upcoming workout scheduled.
49	As a user, I would like to have music that syncs to the rhythm of my workouts.
50	As a developer, I need to display a loading symbol if requests take longer than a second so that the user does not think the app has frozen.

Non-Functional

1. Must have a modern and simplified user interface that makes it easy for the typical user to navigate.
2. Must be accessible 24 hours a day and 7 days a week on both the web and mobile platforms.
3. Must protect user information such as username and password on the database through encryption.
4. Must not display complex workout visualizations that make it hard for the user to understand.
5. Must provide easy access to the database for both the mobile and web applications.