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Team 6

Sprint 3 Planning Document

6th April 2021

Werk It

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Sprint Overview

By the end of this sprint, our team intends to have finished all basic functionality for our mobile app and web app. We have selected 15 user stories which will focus on the following tasks: editing and deleting workouts, connecting with friends, sending fitness challenges, and viewing visualizations on the web app. We hope to implement functionality that will allow the user to track their workout on the mobile app and see their results accordingly on the web app. Lastly, some user stories from sprint 2 are also being carried over to this sprint as they were not completed before.

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 to have challenges among our team members as we will be working on different areas of the project than we have for the first two sprints. Because of this, there will be foreseeable difficulties in getting acclimated with new technologies. Therefore, it is important the team collaborate effectively for this sprint since many team members will be working with new technologies that other team members may already have experience with. Lastly, a lot of work for this sprint pertains to visualizations. This can be difficult to implement because there is a lot of data to handle and it has to be visually appealing to the user.

Current Sprint Detail

User Story #1

As a user, I would like to be able to edit previously saved workouts, workout plans, and workout types.

#	Description	Estimated Time	Owner
1	Add backend patch route for editing saved workouts, workout plans, or workout types.	3 hrs	Katy
2	Make a server call on the mobile app to access the previously saved workout/workout plan/workout type	2 hrs	Chris
3	Populate the appropriate editor screen with the data retrieved from the database and allow it to be changed and resaved	3 hrs	Chris
4	Augment the workout type dropdown to include an edit option and functionality.	2 hrs	Chris
5	Debug and test	1 hr	Dithi
Total Hours		**11 hrs**	

Acceptance criteria - Mobile only
- Given a user is on the workouts/workout plans screen, when the user taps any of the workouts/workout plans displayed, then the appropriate editor screen should be displayed.
- Given a user taps on a workout/workout plan, when the editor screen is displayed, then all the information for that workout/workout plan should be displayed.
- Given that a user is on the editor screen and editing a previous workout/workout plan, when the user has finished editing their workout/workout plan and submits it, then the database will be updated.
- Given a user is on the workout editor screen, when the user opens the workout type dropdown menu and selects a workout type, then they should be given the ability to edit that workout type.
- Given the user is editing a previous workout type, when the user is finished editing and submits it, then the database will be updated.

User Story #2

As a user, I would like to be able to delete previously created workouts, workout plans, workout types, and exercises.

#	Description	Estimated Time	Owner
1	Add a backend route to delete previously created workouts, workout plans, workout types, and exercises.	3 hrs	Katy
2	Bind the server call to the workout/workout plan labels and remove them locally when deleted	3 hrs	Chris
3	Augment the workout type dropdown to include a delete option and functionality.	2 hrs	Chris
4	Debug and test	1 hr	Dithi
Total Hours		**9 hrs**	

Acceptance criteria - Mobile only

- Given a user is on the workouts/workout plans screen, when the user taps any of the workouts/workout plans displayed, then the appropriate editor screen should be displayed.
- Given a user taps on a workout/workout plan, when the editor screen is displayed, then all the information for that workout/workout plan should be displayed.
- Given that a user is on the editor screen and editing a previous workout/workout plan, if the user chooses to delete the workout/workout plan, then the data will also be removed from the database.
- Given a user is on the workout editor screen, when the user opens the workout type dropdown menu and selects a workout type, then they should be given the option to delete that workout type.
- Given the user selects to delete the workout type, then the workout type will be removed from the database.

User Story #3

As a user, I would like to be able to modify the user information on the profile page.

#	Description	Estimated Time	Owner
1	Setup backend route for posting the user data and retrieving the user data	1 hr	Katy
2	Modify the input text fields to be editable	2 hrs	Abhishek
3	Save the modified fields on the database	2 hrs	Abhishek
4	Debug and Test	1 hr	Dithi
Total Hours		**6 hrs**	

Acceptance criteria - Web only

- Given that the user is logged in, when they visit the profile page, then the current values of the name, username, email, and location should be displayed in the respective input text fields as read only.
- Given that the user visits the profile page, when they click the pen icon, then the user information should become modifiable.
- Given that the user visits the profile page, when they have modified any of the user information, the corresponding in the database should be changed to the modified value.

User Story #4

As a user, I would like to see a motivational quote whenever I access the app.

#	Description	Estimated Time	Owner
1	Build static UI web page and mobile screen for displaying quotes	6 hrs	Abhishek, Vivek
2	Enable redirection to dashboard page on web app	1 hr	Abhishek
3	Enable redirection to login/dashboard screen on mobile app	2 hrs	Vivek
4	Retrieve quote from a REST API for web and mobile app	4 hrs	Abhishek, Vivek
5	Display the motivational quote on the web and mobile app	1.5 hrs	Abhishek, Vivek
6	Debug and test	1 hr	Dithi
Total Hours		**15.5 hrs**	

Acceptance criteria - Web and Mobile

- Given that the user visits the *Werk It* web app, when they login to the application, then a randomized motivational quote should be displayed.
- Given that the user logins to the *Werk It* web app, when the motivation quote is displayed, then the user should be redirected to the dashboard page after 5 seconds.
- Given that the user opens the mobile app, while the app is loading data in the background, then the motivational quote should be displayed until the app is ready.

User Story #5

As a user, I would like to be able to easily comprehend the visualizations generated based on my workout statistics.

#	Description	Estimated Time	Owner
1	Setup backend route for retrieving the relevant user data for each graph	5 hrs	Katy
2	Retrieve the user data from the database and generate the pie chart	7 hrs	Abhishek
3	Retrieve the user data from the database and generate the column chart	7 hrs	Abhishek
4	Retrieve the user data from the database and generate the geo chart chart	7 hrs	Abhishek
5	Debug and test	1 hr	Dithi
Total Hours		**27 hrs**	

Acceptance criteria - Web only

- Given the user is on the dashboard page on the web app, when the user has not completed any workouts for the week, then the pie chart should be empty.
- Given the user is on the dashboard page on the web app, when the user has completed at least one workout for the week, then a pie chart should show the percentage of workout time for each day of the week.
- Given the user is on the dashboard page on the web app, when they view their visualizations, then a column chart should show the number of workout types completed over the course of the year.
- Given the user is on the dashboard page on the web app, when they view their visualizations, then a geo chart should appear to show the locations of their friends.

User Story #6

As a user, I would like to be able to connect with my friends.

#	Description	Estimated Time	Owner
1	Add database field for list of friends for each user	2 hrs	Dithi
2	Add backend route for saving new friends	2 hrs	Katy
3	Design the UI for the friends screen	2 hrs	Chris
4	Implement the UI for the friends screen	2 hrs	Chris
5	Implement the functionality of the friends screen	3 hrs	Chris
6	Debug and test	1 hr	Dithi
Total Hours		**12 hrs**	

Acceptance criteria - Mobile only

- Given a user is on the dashboard screen, when they tap the home icon in the top right, then the drawer should open with a "Friends" option.
- Given a user navigates to the friends screen, when the screen loads, then they should see a search box and a list of their friends if they've previously added any.
- Given a user types in the username of another user in the search box, when they connect as friends, then their names should show up on each other's friend's list.

User Story #7

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

#	Description	Estimated Time	Owner
1	Add a dark mode option in the settings screen	1 hr	Chris
2	Separate dark mode option for mobile/web per user in database	1 hr	Katy
3	Add route for updating dark mode for mobile	1 hr	Katy
4	Render the mobile app based on the saved user preference	5 hrs	Chris
5	Debug and test	1 hr	Dithi
Total Hours		**9 hrs**	

Acceptance criteria - Mobile only

- Given the user has dark mode untoggled, when the user opens the app, then the app should be rendered using light mode colors.
- Given the user is on the settings screen, when the user chooses to toggle the dark mode switch, then the new preference is saved to the database.
- Given the user has dark mode toggled, when the user opens the app, then the app should be rendered using dark mode colors.

User Story #8

As a user, I would like to be able to start a workout session.

#	Description	Estimated Time	Owner
1	Setup backend route for saving data from workout session	2 hrs	Katy
2	Design UI for workout tracker screen	2 hrs	Chris
3	Implement UI for workout tracker screen	2 hrs	Chris
4	Implement functionality for workout tracker screen	4 hrs	Chris
5	Debug and test	1 hr	Dithi
Total Hours		**11 hrs**	

Acceptance criteria - Mobile only

- Given a user has an active workout plan, when the user visits the dashboard screen, then there should be an option to start the workout for the day if there is one.
- Given a user starts the workout, then the user should be navigated to the workout tracker screen where the exercises for that workout are displayed.
- Given a user is on the workout tracker screen, when they finish an exercise, then they should be able to check off the corresponding exercise.
- Given a user has checked off all the exercises in the workout, when they finish the workout, then the time elapsed and a completed status should be sent to the database.

User Story #9

As a user, I would like to be reminded when I have an upcoming workout scheduled.

#	Description	Estimated Time	Owner
1	Add backend route for getting active workout plan	1 hr	Katy
2	Design UI for the list of workouts scheduled	3 hrs	Dithi
3	Implement functionality for displaying workouts scheduled for the week	3 hrs	Dithi
4	Implement functionality for updating scheduled workouts if the active plan changes	3 hrs	Dithi
5	Debug and test	1 hr	Dithi
Total Hours		**11 hrs**	

Acceptance criteria - Mobile only

- Given that the user logs into the mobile app, the user should be able to see a list of upcoming workouts on the dashboard page.
- Given the user logs into the mobile app, the user should be able to see today's workout (if there is one) on the dashboard screen.
- Given that the user sees the list of upcoming workouts, the first on the list should be the next workout planned.
- Given that the user changes their active workout plan, the list of upcoming workouts should change accordingly.
- Given that there are no upcoming workouts within the current week, there should be text in the location of the list that says "No Upcoming Workouts".

User Story #10

As a user, I would like to see a line graph comparing my workout time with my friends.

#	Description	Estimated Time	Owner
1	Setup backend route for retrieving the relevant user data	2 hrs	Katy
2	Retrieve the individual workout time for the user	2 hrs	Abhishek
3	Retrieve the workout data for all the friends of a respective user	2 hrs	Abhishek
4	Generate and display the line graph	2 hrs	Abhishek
5	Debug and test	1 hr	Dithi
Total Hours		**9 hrs**	

Acceptance criteria - Web only

- Given the user is on the dashboard page on the web app, when the user has not completed any workouts for the week, then there should be no line graph for the user.
- Given the user is on the dashboard page on the web app, when none of the user's friends have completed any workouts for the week, then there should be no line graphs for any of the user's friends.
- Given the user is on the dashboard page on the web app, when the user and his friends have completed at least one workout in the week, then there should be one line graph for the user and one line graph for each of the friends who completed at least one workout.

User Story #11

As a user, I would like to be able to send my workout plan to my friends.

#	Description	Estimated Time	Owner
1	Add backend route for getting workout plan to send to friends	2 hrs	Katy
2	Create a dropdown list of workout plans to select	3 hrs	Dithi
3	Create send icon to bind sending functionality to	2 hrs	Katy
4	Design UI popup to display the message	3 hrs	Dithi
5	Debug and test	1 hr	Dithi
Total Hours		**11 hrs**	

Acceptance criteria - Mobile only

- Given that the user taps on the name of an existing friend, a popup should show up with an option to send a workout plan to the selected friend.
- Given that the user selects the option to send a workout plan to the selected friend, the user will be able to select one of their workout plans to send from a predefined list.
- Given that the user selects a workout plan to send to a friend, the next time the friend logs into the mobile app, the friend will be able to view the message on their dashboard screen.

User Story #12

As a user, I would like to be able to send fitness challenges to my friends.

#	Description	Estimated Time	Owner
1	Add fitness challenge field in database for each user	1 hr	Katy
2	Add backend route to save fitness challenge	1 hr	Katy
3	Setup pre-defined challenges to offer for users to send	2 hrs	Katy
4	Design UI popup for sending challenges	3 hrs	Dithi
5	Debug and test	1 hr	Dithi
Total Hours		**8 hrs**	

Acceptance criteria - Mobile only

- Given that the user taps on the name of an existing friend, a popup should show up with an option to send a fitness challenge to the selected friend.
- Given that the user selects the option to send a fitness challenge to the selected friend, the user will be able to input the number of workouts for the challenge.
- Given that the user selects a challenge to send to a friend, the next time the friend logs into the mobile app, the friend will have the option to accept or decline the fitness challenge.

User Story #13

As a developer, I need to display a loading symbol if the user is disconnected from Wifi.

#	Description	Estimated Time	Owner
1	Design loading symbol UI for mobile app for the scenario of a loss in wifi connection	6 hrs	Vivek
2	Debug and test	2 hrs	Vivek
Total Hours		**8 hrs**	

Acceptance criteria - Web only

- Given that the user is on the web app, while the user is using the app, if the device disconnects from wifi, then after 15-30 seconds, the loading symbol should appear.
- Given that the user is on the web app, while the user is using the app, if the device reconnects to wifi, then after 15-30 seconds, the loading symbol should disappear.
- Given that the user is on the web app, while the user is using the app, if the device is disconnected from Wifi, the user should not be able to navigate between pages.

User Story #14

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 mobile app.	12 hrs	Vivek
2	Debug and test	2 hrs	Vivek
Total Hours		**14 hrs**	

Acceptance criteria - Mobile only

- Given that the user is on a mobile device with the app installed, when the user is on the Dashboard screen and taps their profile pic, they will be given the option to change their profile pic.
- Given that the user selects a new picture from the device, this new picture will be shown in the profile pic component.
- Given that the user has set a profile pic, the original picture will be cropped to fit the profile pic component.

User Story #15

As a user, I would like to receive a confirmation email when I go to reset my password.

#	Description	Estimated Time	Owner
1	Backend methods to set up sending an email	3 hrs	Katy
2	Backend API route to accept the code and check validity	2 hrs	Katy
3	Build UI for reset password page	2 hrs	Abhishek
4	Build UI for confirmation page	2 hrs	Abhishek
5	Debug and test	1 hr	Dithi
Total Hours		**10 hrs**	

Acceptance criteria - Web and Mobile

- Given that the user goes to change their password, the user will be prompted to input their username and password.
- Given that the user inputs their username and email correctly, the user will receive an email with a unique 6-digit code, and they will be directed to a page to input this code.
- Given that the user inputs the 6-digit code that was emailed to them correctly, they will then be directed to the page to input their new password.

Individual Team Member Hour Totals

Team Member	Total Hours
Dithi Saxena	**33 hrs**
Katy Penquite	**34 hrs**
Abhishek Gunasekar	**42.5 hrs**
Christopher Yu	**33 hrs**
Vivek Nair	**30 hrs**

Remaining Backlog

Functional

#	User Stories
1	~~As a user, I would like to be able to easily access the *Werk It* landing page.~~
2	~~As a user, I would like to be able to register for a *Werk It* account on the web app.~~
3	~~As a user, I would like to be able to login to my *Werk It* 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 Werk It 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.