

Sprint 3

Document

for

KeepFit

University of Southern California
Spring 2021

Team 12

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1. Preface

This document is intended to provide a detailed description of the process taken during Sprint 3 of developing the KeepFit application. This application is developed for the customer's benefit, Tian Xie, who has requested the product's features in this document. This document is oriented explicitly for readership by the customer and developers of the system. It details the process taken by the development team during the sprint and the features completed.

Following this preface, readers will be able to find logs of meetings during this sprint. Each member has completed a set of questions regarding their performance at each meeting. The README file submitted with this document contains instructions for running the application and seeing the new features at work.

We encourage readers to pay close attention to this document's information and contact the authors with any concerns or questions.

After this sprint, development of the product for this period is complete. All features in the backlog have been finished.

2. Daily Scrums

We have completed 10 Daily Scrums.

During the Daily Scrum, each team member answers three questions:

- What did I do yesterday that helped the team meet the Sprint goal?
- What will I do today to help the team meet the Sprint goal?
- Do I see any impediment that prevents me or the team from meeting the Sprint Goal?

We have documented our daily scrum every day, including the following information.

- A. Meeting start time and end time (~15 min is recommended)
- B. Meeting location (this year, it will be Zoom, Skype, Teams, Google Meet, BlueJeans, etc.).
- C. Summary of every team member's performance (short summary of the above three questions)

2.1 Sunday, May 2nd, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:15pm

2.1.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- First day

What will I do today?

- Begin planning out my tasks for the sprint, which is setting the max limit of participants for livestreams

Any impediments?

- NA

Devin Mui

What did I do yesterday?

- First day

What will I do today?

- Start researching documentation on the notifications API

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- This was the first day.

What will I do today?

- I will begin to plan out the tasks I'll be helping out with for this sprint. We determined our plan this meeting and submitted the deliverable

Any impediments?

- None yet since this was the first day for this sprint.

Max Friedman

What did I do yesterday?

- First day

What will I do today?

- Began planning out my schedule for the sprint

Any impediments?

- Nope, just planning

Victor Udobong

What did I do yesterday?

- Attempted to fix some issues with my Expo simulator

What will I do today?

- Meet with teammates to fix my NodeJS environment issues

Any impediments?

- More issues with the NodeJS environment; many of the dependencies seem to be missing even after downloading and installing.

Roddur Dasgupta

What did I do yesterday?

- Reviewed the codebase for implementation of the new feature

What will I do today?

- Plan how I will implement the new feature

Any impediments?

- None

2.1.2 Team Meeting Summary

In today's meeting we went over the instruction document for the sprint and used that as a guideline for assigning the features to be completed. Since we had completed the backlogs from previous sprints, we had no issue with designating assignments. We created the assignment 7a document and submitted it after the meeting, just as we had done with all of our previous sprints.

2.2 Monday, May 3rd, 2021

Meeting Location: Zoom

Meeting Start: 7:00pm

Meeting End: 7:20pm

2.2.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Planned how to set the max limit for livestreams. Decided to use a counter.

What will I do today?

- Work on front-end, specifically the form for setting the max limit for a livestream

Any impediments?

- Nope

Devin Mui

What did I do yesterday?

- Look up documentation on expo-notifications

What will I do today?

- Look for methods in the documentation to dismiss notifications

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I determined what I plan to work on in this sprint. I will be helping out with connecting our existing follow/unfollow functionality to redux so that it updates throughout the app when changes occur. This will entail storing the list of followers/following in redux and deriving counts to be rendered. Additionally, I'll coordinate with Max and connect with the user list and render this information.

What will I do today?

- Today, I will begin creating redux functions. I will connect some hooks on different parts of the app to update redux when relevant changes occur.

Any impediments?

- There wasn't anything major.

Max Friedman

What did I do yesterday?

- I began to plan what I would complete on each day for this sprint

What will I do today?

- Finalize plans and pick day to start implementation of viewing a user's followers and the users they are following

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- I got help from Aaron in fixing up my NodeJS, turns out it was a version mix-up in one of the dependencies. Cleared that up for good now.

What will I do today?

- Plan how I will work with Roddur on the new feature

Any impediments?

- Nothing today

Roddur Dasgupta

What did I do yesterday?

- Planned out the implementation of the new feature

What will I do today?

- Finalize planning for the new feature

Any impediments?

- None

2.2.2 Team Meeting Summary

Today's meeting was a short catch up meeting to make sure that we had all the objectives of the sprint clear. Since we would be having much fewer meetings, we decided that it was important to finish up the requirements as fast as possible.

2.3 Tuesday, May 4th, 2021

Meeting Location: Zoom

Meeting Start: 12:00am

Meeting End: 12:15am

2.3.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Created the form for setting the max limit for a livestream. Also made a numerical keypad appear instead of a standard keyboard when setting max limit.

What will I do today?

- Backend, specifically connecting the result of the form (max limit) to Firebase

Any impediments?

- Making the max limit field of the form accept only numbers. Solved it through use of function isNaN()

Devin Mui

What did I do yesterday?

- Found a method to dismiss future notifications

What will I do today?

- Create a list to display the future notifications in the calendar view

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I implemented redux actions and reducers for the following and follower information for the logged in user. I added useEffect hooks in all the relevant places to make sure these counts and information stay up to date throughout the app.

What will I do today?

- Today, I will coordinate with Max to review my redux changes and connect the stored redux information to be rendered on his list component and details screen for users.

Any impediments?

- I had to be extra careful and thorough in this feature. This is mainly because of all the different places that follow/unfollow transactions can occur. It was critical to update redux info each time which becomes complex state management.

Max Friedman

What did I do yesterday?

- Finalize my plan for implementing user's followers and following

What will I do today?

- Coordinate with Sajan to make sure his update of the details screen will work with my changes

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Met with Roddur on the implementation of the feature. Discussed what React components that I would need to familiarise myself with

What will I do today?

- Create database queries with Firebase for followee videos

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Finalised the planning for the new feature. Met with Victor on how we should go about implementing the new feature.

What will I do today?

- Figure out how to use useEffects in the exercise demo interface, and use those make the followee upload list constant throughout the app

Any impediments?

- None

2.3.2 Team Meeting Summary

We reviewed all the team member's progress today and addressed a few technical issues and suggestions to the project. Slight improvements were made to the UI of the app and all team members reported good progress on the work.

2.4 Wednesday, May 5th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:30pm

2.4.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Connected the result of the form (max limit) to Firebase. This meant creating the field within the database itself and updating our livestream model to reflect this change.

What will I do today?

- Create a counter that would increment when users enter a livestream

Any impediments?

- Nope

Devin Mui

What did I do yesterday?

- Created list to display notifications

What will I do today?

- Fix scrolling bug

Any impediments?

- There is a scrolling bug where a user cannot scroll through the notifications in the calendar view

Sajan Gutta

What did I do yesterday?

- I coordinated with Max to determine the strategy for passing my redux info to his list components and detail screen, so that users can view their following and followers.

What will I do today?

- Today, I will be making the followers and following on the profile screen touchable in order to display a list of them, which Max is styling.

Any impediments?

- The most difficult part of this feature is to properly render the different views within the profile screen. Lots of user info can be accessed from there so state management is complex.

Max Friedman

What did I do yesterday?

- Coordinated with Sajan

What will I do today?

- Add new views to the user screen that show the users followed and following

Any impediments?

- Just need to check back with Sajan at the end that everything is working correctly

Victor Udobong

What did I do yesterday?

- Wrote some Firebase queries to aid the implementation of the feature. Roddur has indicated that he'd be able to complete the remaining parts of the feature

What will I do today?

- Divert my attention towards preparing the documentation and code maintenance/formatting.

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Implemented the basic structure of the feature. Used useEffects to accomplish continuity throughout the application.

What will I do today?

- Work towards setting up logic flows for edge cases like no followees, no uploaded videos, etc

Any impediments?

- Had some problems with the alerts for errors and edge cases. I'll seek help on the matter with teammates.

2.4.2 Team Meeting Summary

After recapping our meeting, we discussed a common issue we were having with in-app alerts and mobile device notifications. We eventually discovered how to address at least 2 methods of solving those issues and live tested one of the methods in the team meeting. We closed out the meeting with some discussions on our individual features.

2.5 Thursday, May 6th, 2021

Meeting Location: Zoom

Meeting Start: 7:00pm

Meeting End: 7:30pm

2.5.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Created the counter that would increment when users enter a livestream. Used an if statement that compared the max limit with the current number of participants. Required creating a num_participants field within the database.

What will I do today?

- Connect the participants counter to the button click on live streams.

Any impediments?

- Ran into some problems with incrementing a firestore value, particularly retrieving doc ID from within the doc. Got around this by retrieving the ID of the doc from outside the doc.

Devin Mui

What did I do yesterday?

- Fix the scrolling bug by eliminating a nested ScrollView and making the screen container a ScrollView

What will I do today?

- Implement the calendar dismiss API

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I made the followers and following touchable so that Max can render his component and display the lists.

What will I do today?

- I will make the details page for users to connect to Max's list.

Any impediments?

- Nothing today

Max Friedman

What did I do yesterday?

- Added list view for followers and following

What will I do today?

- Make followers and following user items touchable and pass the user object to the details page

Any impediments?

- Coordinate the data being passed with Sajan

Victor Udobong

What did I do yesterday?

- Went through some of the code in the repository's recent commits and did some formatting/editing. Also worked on formatting the sprint document.

What will I do today?

- Start moving the meeting minute transcriptions to the final sprint document

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Met with and consulted the team on how to address the alert problem

What will I do today?

- Finalise my implementation of the followee video upload feature. Will run a couple of specialised tests for the feature

Any impediments?

- Nothing

2.5.2 Team Meeting Summary

We did a quick recap of the team progress. We decided to carry out our internal demo of the app and the new features in this meeting. We went over each of the requirements and noted out some minor changes that needed to be made and a few areas/features that needed improvement, mostly in the quality of the user interface.

2.6 Friday, May 7th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:15pm

2.6.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Finished up max limit, connected the counter to be incremented on button press.

What will I do today?

- Last minute clean ups on the UI

Any impediments?

- `onClick()` can only take in one function at a time, so I had to create another function to have the link open and the counter increment

Devin Mui

What did I do yesterday?

- Created the calendar dismiss function that will dismiss a notification when the cancel button is clicked

What will I do today?

- Nothing

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I completed the details screen. Max and I also talked about it with each other to coordinate connecting this to the list.

What will I do today?

- Today we will finalize connecting the list and have our sprint review tomorrow.

Any impediments?

- Nothing major, just a few rendering issues that came up with using a `FlatList` nested within many other components.

Max Friedman

What did I do yesterday?

- I coordinated with Sajan and made sure all of the data was being passed correctly

What will I do today?

- Sajan and I will fully connect our work and finish up for the sprint review!

Any impediments?

- None!

Victor Udobong

What did I do yesterday?

- Started moving the meeting minutes into the final sprint document

What will I do today?

- Finalise the sprint document entirely

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Did some stress testing on the followee upload history feature.

What will I do today?

- Do a final review and ensure that the current version of the project works and runs on Expo without errors

Any impediments?

- None

2.6.2 Team Meeting Summary

After we recapped the progress for the day we moved forward with another demo and a quick review. We decided on a few UI changes that were carried out quickly during the meeting since they were mostly colour changes and we also reviewed the sprint document right before the final sprint review meeting.

3. Sprint Review

Your entire team should hold a sprint review meeting at the end of Sprint-1. In the meeting, you should review the work that was completed and the planned work that was not completed. Also, you should reflect on the past Sprint, identify and agree on continuous process improvement actions. You should document your sprint review including the following information.

- A. Meeting start time and end time
- B. Meeting location
- C. Meeting summary (e.g., What has been done? What was planned but wasn't completed? Why? What went well during the Sprint? What could be improved in the next Sprint?)

3.1 Saturday, May 8th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:45pm

3.1.1 Meeting Summary

To recap, these are the requirements that were backlogged for Sprint 3.

1. There should be a maximum limit to participants of each live stream. The maximum number is set by the host when he / she starts it.
2. You can view all your followers / followees in the personal interface, with their nicknames and profile pictures.
3. Each follower / followee is clickable and you can view their personal interface accordingly.
4. When a user is viewing other users' interface, only the exercise history list can be viewed. In another word, the watched history list should not be visible.
5. In the exercise demo interface, there is a specific list showing the videos that your followees uploaded previously.
6. The user can cancel the planned exercise in the calendar.

For our final sprint review meeting, we did a review of the entire sprint, including the two previous sprints and reviewed every single requirement that we completed during the sprints. Like before, we did another quick internal demo to make sure that we were prepared for our eventual TA demo, and since we had done this a couple of times before, we had no substantial changes to make for the project.

Our use of WhenIsGood for the meeting scheduling again proved to be a good decision as we were able to schedule our scrum meetings effectively, especially given that some scrum meeting days were during finals and study days. We were able to schedule meetings without any major issues.

Our version control procedure improvements were good as well, and we managed to plan the merging of commits much more easily due to the maximization of our meeting times and coordination. Our code maintenance and formatting was also much better as a whole and we were able to coordinate that throughout the sprint with most team members taking the initiative at multiple points to do that, especially for their own parts.

Again, communication between team members was much better. Our ability to share problems with the team as a whole made the debugging processes much faster and comprehensive, allowing the other team members to learn more quickly and provide contributions to the team. This particular scenario played out multiple times in this sprint and so we were all extremely pleased that we were able to address that previously.

We finished the meeting on a good note and summarily agreed that the project had turned out to be a good success after months of work and contribution.