

Sprint 2 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 2 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.

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 Thursday, April 15th, 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 – I'm in charge of the non-functional requirements, specifically cleaning up the UI.

Any impediments?

- NA

Devin Mui

What did I do yesterday?

- First day

What will I do today?

- I planned on adding the counting interface for sit ups.

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. This will help me to determine a good workflow for the sprint for myself.

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?

- Reviewed the current codebase to understand the context of the new feature to be implemented

What will I do today?

- Plan to meet with Roddur about planning the implementation of the new feature

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Researched implementations online used for features similar to mine

What will I do today?

- Schedule a planning meeting with Victor

Any impediments?

- Nothing

2.1.2 Team Meeting Summary

Today we did an overview of the sprint objectives and created a prospective timeline for the work to be completed and broadly discussed the resources we would be making use of for the new requirements. We also quickly formatted and turned in the document for the A part of this assignment, as before.

2.2 Friday, April 16th, 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?

- Determine which screens to work on when during the sprint. We have six screens (including log-in), so I chose to spend 1-2 days per screen.

What will I do today?

- Start working on the log-in screen.

Any impediments?

- NA

Devin Mui

What did I do yesterday?

- I planned the UI for the sit-up interface.

What will I do today?

- I will plan on the functionality for the UI.

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 the video comments feature, the video upload size limit feature, and the separation of searches. I will also do some other improvements in the application's backend.

What will I do today?

- Today, I will begin planning out the commenting feature. This entails UI elements, required database fields, necessary handlers, and more.

Any impediments?

- There wasn't anything major. However, I did have to be sure to coordinate this with the rest of the team to make sure work wasn't overlapping.

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 comments

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Scheduled a meeting with Roddur for planning the feature

What will I do today?

- Make a comprehensive set of descriptions for my contributions to the meeting

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Scheduled meeting with Victor

What will I do today?

- Plan how the alert feature will look and work

Any impediments?

- None

2.2.2 Team Meeting Summary

This meeting was more of a touch up on the previous meeting. Today we finalised the distribution of responsibilities for each of the team members, assigning roughly one requirement per person on the team. We discussed to make sure that there was no overlap in duties among team members.

2.3 Monday, April 19th, 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?

- Worked on the log-in screen. Added background image to it.

What will I do today?

- Continued work on log-in screen.

Any impediments?

- Minor issues getting the background image to appear behind the text.

Devin Mui

What did I do yesterday?

- I found a text to speech library for Expo that might be interesting to implement for counting the number of repetitions.

What will I do today?

- I will continue planning the functionality for the UI.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I began planning out the commenting feature. This entails UI elements, required database fields, necessary handlers, and more. I'm ready to eventually implement the feature, later in this sprint.

What will I do today?

- Today, I will handle the size limit for videos.

Any impediments?

- I had to be extra careful and thorough in this feature. This is mainly because of the redux considerations required to ensure comments are always updating on all clients when a new one is made. This could be done naively but the goal is to avoid unnecessary database queries.

Max Friedman

What did I do yesterday?

- I finalized my planning and determined today to be the first day I will begin implementing the comments into the individual videos details

What will I do today?

- Created the UI to input a new comment under a video

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Prepared for the meeting with Roddur

What will I do today?

- Meet with Roddur to plan the feature and write some code

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Planned how the alert will look and work

What will I do today?

- Meet with Victor and code part of the feature.

Any impediments?

- None

2.3.2 Team Meeting Summary

At the beginning of today's meeting we reviewed each team member's progress from the previous meetings. Sajan voiced some of his concerns about the concurrency of implementing the commenting feature, we discussed methodology and basic structure for this particular issue and Max volunteered some assistance.

2.4 Tuesday, April 20th, 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?

- Continued work on the log-in screen. Changed placements of header and subheader, added green color to all text and buttons.

What will I do today?

- Start working on the profile screen.

Any impediments?

- Minor issues changing the placement of header and subheader due to the way the style of the containers was written.

Devin Mui

What did I do yesterday?

- I finished planning the functionality for the sit-up interface.

What will I do today?

- I will start writing the counting function.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I implemented the video upload size limit feature today. The limit is 10 MB but this can be easily toggled with one number.

What will I do today?

- Today, I will be doing some refactoring of our code to make it more readable.

Any impediments?

- The most difficult part of this feature was determining how to find the video size programmatically. Furthermore, it was difficult to determine the file size directly on my device, as this information isn't easily accessible from the camera roll.

Max Friedman

What did I do yesterday?

- Created the input field for comments under a video's details

What will I do today?

- I implemented the UI for the submit button to submit a comments

Any impediments?

- Need to add the backend for the comment so that when the submit button is clicked the actual comment text is saved in the database

Victor Udobong

What did I do yesterday?

- Met with Roddur and worked on the alert feature

What will I do today?

- Work on my local system on tests for the feature

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Met with Victor and planned/implemented the alert feature

What will I do today?

- Work on individual tests for the basic alert

Any impediments?

- I realized that it would be much better and equally efficient to do use basic alert

2.4.2 Team Meeting Summary

After recapping our meeting, we did a team demo of the most recent commit in the project repository. Aaron reviewed the UI changes and upgrades he had begun working on, and the team contributed tips and suggestions to improve the visual interface. We decided to meet later than usual to 7pm for the next meeting because of some unforeseen commitments for a couple team members.

2.5 Wednesday, April 21st, 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?

- Worked on the profile screen. Added horizontal scrolling to one of the navbars to allow full text to be displayed without abbreviations.

What will I do today?

- Continue work on the profile screen.

Any impediments?

- Minor issues getting horizontal scrolling to work.

Devin Mui

What did I do yesterday?

- I made the counting function.

What will I do today?

- I will create a React hook to execute a function every so often.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I completed some code refactoring today. This involved changing conditional logic in the profile screen, consolidating redux updates for things such as liked videos, and making reusable components for list items.

What will I do today?

- Today, I will be auditing the firestore and making sure that we don't have any extra data. I will also be ensuring that all of our functions properly delete old records (i.e. when deleting an account)

Any impediments?

- These were all improvements so no impediments. It was useful to do some much-needed maintenance on our code base.

Max Friedman

What did I do yesterday?

- Created UI for submit comment button

What will I do today?

- Save comments on the database

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Did some tests for the alert feature on my local system

What will I do today?

- Meet with Roddur to coordinate our contributions into a single commit

Any impediments?

- I was about to make a commit but then realised that it would be better to coordinate with Roddur to avoid any clashes, since we are both on the same feature.

Roddur Dasgupta

What did I do yesterday?

- Tested the alert feature

What will I do today?

- Meet with Victor to combine any changes made between our individual work.

Any impediments?

- Nothing

2.5.2 Team Meeting Summary

We did a quick recap of the team progress. Sajjan and Devin volunteered to comb through the codebase and perform some formatting and refactoring, for simplicity and readability. Aaron mentioned he had some scrolling issues, which Devin helped him to rectify. Victor and Roddur decided to meet afterwards to coordinate their work together.

2.6 Thursday, April 22nd, 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?

- Worked on the profile screen. Added calendar icon button to access the calendar page (replacing the text button)

What will I do today?

- Start working on the explore screen

Any impediments?

- Minor issues getting a clickable image.

Devin Mui

What did I do yesterday?

- I started writing the React hook.

What will I do today?

- I will finish writing the React hook.

Any impediments?

- There were some difficulties getting the useEffect to work properly.

Sajan Gutta

What did I do yesterday?

- I completed the firestore audit, removing old records. Our data is now all consistent and I will be shifting focus to the commenting feature, which I'm working on with Max.

What will I do today?

- Today, I will be taking my wellness day.

Any impediments?

- I didn't have any impediments while doing this audit.

Max Friedman

What did I do yesterday?

- Began the process of saving comments in the database

What will I do today?

- Add comments field to all current Video documents to save the comments with the corresponding video

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Coordinated my individual work with Roddur's

What will I do today?

- Work on planning how the alert will suggest videos based on history

Any impediments?

- None today

Roddur Dasgupta

What did I do yesterday?

- Augmented my code with Victor's contributions.

What will I do today?

- Come up with a cyclic dictionary which cycles between muscle groups, and another dictionary which maps muscle groups to recommended exercises.

Any impediments?

- Nothing

2.6.2 Team Meeting Summary

Recapped the progress for the day. Max announced that he had also taken initiative to go through most of the codebase and commented a majority of the code for the sake of continuity into sprint 3. For the sections that he was unable to comment, we addressed in the meeting and the respective authors of those sections resolved to complete the process themselves.

2.7 Friday, April 23rd, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:15pm

2.7.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Worked on the explore screen. Put borders around the text buttons.

What will I do today?

- Continue working on the explore screen.

Any impediments?

- Minor issues getting borders to appear the way I wanted around the text buttons.

Devin Mui

What did I do yesterday?

- I finished the React hook.

What will I do today?

- I will hook the counting function to the React hook.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I didn't do much work due to the wellness day.

What will I do today?

- Today, I will be adding the UI elements to video uploading to allow users to flag the video as having comments enabled/disabled.

Any impediments?

- None since it was a wellness day.

Max Friedman

What did I do yesterday?

- Added Comments field to Video documents on Firebase to save comments on individual videos

What will I do today?

- Make the submit comment button add to the Comments of a Video in Firebase

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Planned out how the alerts recommend videos

What will I do today?

- Plan out the deliverable document

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Came up with a cyclic dictionary between muscle groups.

What will I do today?

- Implement the cyclic dictionary with the video recommendation plan Victor and I agreed on

Any impediments?

- Minor bugs with React, was able to figure them out with some teammate help

2.7.2 Team Meeting Summary

After recapping the progress of the previous week, we did another review of the UI and tested out some of the features and elements that Aaron had added. There were some minor frontend styling issues but those were resolved for the meantime with Devin sharing resources for the particular problem encountered. We will check in on the progress of this in our next meeting next week.

2.8 Monday, April 26th, 2021

Meeting Location: Zoom

Meeting Start: 12:00am

Meeting End: 12:20am

2.8.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Continued work on the explore screen. Put buttons on one line and added horizontal scrolling. Added a header and placeholder pictures.

What will I do today?

- Start working on the create screen

Any impediments?

- NA

Devin Mui

What did I do yesterday?

- I connected the React hook with the counting function.

What will I do today?

- I will write the UI.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I added the UI element allowing users to choose whether a video has comments or not. I also made sure to update the video upload UI overall.

What will I do today?

- I will start implementing handler updates.

Any impediments?

- I had some issues with avoiding clutter on the video uploading UI. I was able to resolve this with some design changes though.

Max Friedman

What did I do yesterday?

- Comments are now saved in the database

What will I do today?

- Add rendering of existing comments under a video's details

Any impediments?

- The styling is a little all over the place and adding comments was a little bit janky but I was able to fix it by replacing the list of Comments each time a new one is added. Styling will be fixed next.

Victor Udobong

What did I do yesterday?

- Planned out the documentation skeleton

What will I do today?

- Start converting the sprint meeting minutes into the final document

Any impediments?

- My laptop got damaged for a while so I had to do my work today from a public workstation

Roddur Dasgupta

What did I do yesterday?

- Began implementation of the video recommendation feature

What will I do today?

- Continue work on the feature, keeping track of the edge cases I'll be testing afterwards.

Any impediments?

- Ran into a few problems with getting Expo to render the alerts, but I was able to self-rectify them

2.8.2 Team Meeting Summary

This meeting we very quickly recapped our progress, and then referred to the frontend problems that Aaron encountered last week. Fortunately, Aaron was able to resolve the problem over the weekend. Victor has established that he will start transferring the scrum meeting minutes into the final deliverable document. We also established that most of the features have been completed or very near completion.

2.9 Tuesday, April 27th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:20pm

2.9.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Finished work on the create screen. Put borders around the text buttons, added a header, and a placeholder picture.

What will I do today?

- Start working on the track screen.

Any impediments?

- NA

Devin Mui

What did I do yesterday?

- I created the UI for the sit-up interface.

What will I do today?

- I will connect the counting to the UI.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I updated our database queries and handlers to determine whether a video has comments or not. The backend logic is now complete and can be derived from on the video pages where comments are displayed and created.

What will I do today?

- Today, I will update the video handler to properly delete all comments when videos are deleted. This is a garbage collection related task to keep the database consistent.

Any impediments?

- There weren't any major difficulties with implementing this.

Max Friedman

What did I do yesterday?

- Added rendering of comments under each video

What will I do today?

- Style the comments for readability and sort them by most recent

Any impediments?

- None, fixed the problem with saving new comments

Victor Udobong

What did I do yesterday?

- Started the process of logging the meeting minutes into the final deliverable document

What will I do today?

- Continue working on the documentation

Any impediments?

- Nothing for today

Roddur Dasgupta

What did I do yesterday?

- Continued coding work on the video recommendation alert feature

What will I do today?

- Finalize the alert with adjustments to length, sound and format

Any impediments?

- None

2.9.2 Team Meeting Summary

After recapping the team progress, we each decided to individually test the new features one by one. Using Sajan's computer, we ran the latest version of the project on Expo. We discovered that one of the branch versions of the project had a few bugs so we decided to go with the immediate previous version and discard that branch since the differences between the two were insignificant. We will attempt to address this in our final sprint if we have the time.

2.10 Wednesday, April 28th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:20pm

2.10.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Finished work on the track screen. Added a header and numbers to the subheaders to make it easier to understand.

What will I do today?

- Start working on the homepage and finalize work of other screens.

Any impediments?

- NA

Devin Mui

What did I do yesterday?

- I made the UI count for a specific interval and only up to a user inputted number.

What will I do today?

- Nothing.

Any impediments?

- NA

Sajan Gutta

What did I do yesterday?

- I was able to finish updating the delete video handler to clean up comments and keep the database consistent.

What will I do today?

- I will do a final review of features for this sprint and make sure everything is working before we wrap up.

Any impediments?

- There weren't any impediments. However, the firebase query for cleanup was a bit complex and involves many nested completion handlers.

Max Friedman

What did I do yesterday?

- Style comments section

What will I do today?

- All done! :)

Any impediments?

- Nope!

Victor Udobong

What did I do yesterday?

- Continued formatting work on the deliverable document.

What will I do today?

- Work with Roddur to report the tests I did on my local system and complete formatting of the deliverable document.

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Finalized the alert feature for workout recommendations

What will I do today?

- Perform the final tests on edge cases that I've been keeping track of, including for the case where there is no history

Any impediments?

- I noticed a few situations from testing where adjustments needed to be made and I made sure to make those adjustments

2.10.2 Team Meeting Summary

After our usual daily recap, we did a mini-review of the Sprint's work, since we will do this in the final sprint review as well. Sajan has reviewed all branches and we have determined that our version control is solid and workable. Roddur announced that the issues he had encountered in his final round of testing had been effectively resolved. Like with the previous sprint, Victor will be finalizing the document tomorrow after the 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 Thursday, April 29th, 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 2.

Functional requirements:

1. The user can write some comments under each video and the comments are visible to other users, e.g., the comments under each video in YouTube.
2. This comment functionality (available / unavailable) should be decided when the user is uploading the video.
3. The user cannot upload extremely large video files. You should set a restriction on the file size and video length.
4. Every time when the user logs in the app, there is a notification to suggest the user workout to do. The suggestion should be based on the user's previous workout. If there is no history workout. Then no need for the notification.
5. Users can also search other users and it should not be mixed up with the videos, i.e., videos with the same tags as the users should not be shown when searching for users.

6. Right now, all the workout interfaces are simple. I want a specific interface for the workout sit-up. When users start the sit-up, the app should start the counting, e.g., showing numbers on screen, so that the user can follow its instructions. The app should decide when to stop this workout period.

Non-functional requirements:

7. Right now, there is lots of information in each interface. For example, there are different lists in the personal interface. You should try to design your UI user-friendly.

Optional requirements:

8. The app should be stable under a large number of users online. In another word, you should know the traffic capacity of your app.

We did a recap of the entire sprint and each of the features that we were to complete in this sprint. We decided that it would be best if we perform an internal demo to mock up what to expect from the graders later on. We determined that the entire backlog had been taken care of.

A good improvement from the previous sprint was the use of WhenIsGood to plan our scrum meetings in chunks of 3 meetings at a time. It saved us the time for scheduling our meetings and was especially helpful for planning the meeting on the 21st of April when team members realised that they would not have been able to attend the meeting at our usual times.

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.

Our internal mockup demo was done on Zoom via the Expo App as we did last time. However Sajan's computer had a minor issue at the time we tried to do this during the final sprint review so we used Max's computer instead. Members of the team also volunteered to demo the project with the graders seeing that the scheduling for grading had proven difficult last sprint.

We also discussed things that could possibly be improved. We discovered that version control was especially tricky when performing the tasks such as refactoring code blocks

and commenting out code, as attested to by Devin and Sajan and Max respectively. We decided to more frequently request and review merges into the main branch of the repository. To avoid overwhelming Sajan, who is the admin for the repository, we agreed to privately arrange meetings with him to explain and demo changes where necessary.

We finished the meeting by discussing how we would demo the app and making sure that each member was familiar with the new features added and how they interact with the other previously existing features in the project.