

Sprint 1

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 test suite for the first release of the KeepFit application. This application is developed for the customer's benefit, Tian Xie, who has requested the product's testing in this document. This document is oriented explicitly for readership by the customer and developers of the system. It details the reasoning and instructions for running each test case and what the cases do. This robust testing system will ensure reliability for the KeepFit system as development progresses.

Following this preface, readers will be able to find instructions on running the KeepFit test suite. They will also see a description of the overall design and tools used for this test suite. This is followed by detailed reports of all implemented test cases. The README file submitted with this document also contains instructions for running the test cases, though those are within this document.

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

2. Daily Scrums

You should have at least 10 of these.

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?

You should document your daily scrum every day, possibly with the exception of weekends and the Wellness 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 March 31st, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:45pm

2.1.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Planned out how to implement history list for previously watched videos

What will I do today?

- Begin implementing history list for previously watched videos

Any impediments?

- None.

Devin Mui

What did I do yesterday?

- Build UI elements to display the user video list on the profile page.

What will I do today?

- Finish building UI elements for user video list.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- Planned out how to implement deleting accounts (UI element location, necessary handler, etc.).

What will I do today?

- I will begin implementing the UI for delete accounts (basically the button to take care of it).

Any impediments?

- Nothing yet, just have to determine how to properly handle deleting both the user record in the database and the google account for Firebase Authentication.

Max Friedman

What did I do yesterday?

- Planned sorting workouts from most liked to least liked

What will I do today?

- Begin implementing the sort

Any impediments?

- None

Victor Udobong

What did I do yesterday?

- Reinstalled my Expo CLI

What will I do today?

- Reinstall Node JS and clear node_modules files

Any impediments?

- Ran into some issues with administrative access to Node JS via cmd, will try powershell

Roddur Dasgupta

What did I do yesterday?

- Read online about how Redux works

What will I do today?

- Learn more about Redux, when to use it vs. React hooks

Any impediments?

- Understanding Redux as a beginner

2.1.2 Team Meeting Summary

Created a timeline for work to be completed. Members of the team provided resources to help with those who were experiencing technical difficulties and various bugs in the coding process. Created and submitted the document for part A of the assignment.

2.2 April 1st, 2021

Meeting Location: Zoom

Meeting Start: 8:00pm

Meeting End: 8:15pm

2.2.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Begin implementing history list for previously watched videos – made button press on video link add video to history

What will I do today?

- Continue implementing history list for previously watched videos

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Finish building UI elements for user video list.

What will I do today?

- Create Firebase calls to fetch the user video list.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- I added in the delete account button and handlers. The handler doesn't do anything yet.

What will I do today?

- I will connect the handler to firebase to delete the user account from firestore, delete the google account from Firebase Authentication, and will logout the user from Redux.

Any impediments?

- Nothing today. Mainly focused on working out styling for the button.

Max Friedman

What did I do yesterday?

- Began implementing sort by likes

What will I do today?

- Continue implementing sort by likes

Any impediments?

- None

Victor Udobong

What did I do yesterday?

- Reinstalled Node JS and cleared the node_module file

What will I do today?

- Port project and local repository to new folder, run project on powershell

Any impediments?

- Got everything to work except Expo GO; reading errors off the Expo CLI

Roddur Dasgupta

What did I do yesterday?

- Watched videos on Redux and solidified my understanding

What will I do today?

- Add a Redux reducer and action to auth.js which will keep track of user search history

Any impediments?

- None

2.2.2 Team Meeting Summary

Briefly recapped team progress. Specifically dedicated time during the meeting to resolving Victor's NodeJS issues. Devin and Sajan briefly discussed Firebase implementations for the additional requirements, and decided to explore options with Redux. Devin and Max also provided resources in React for the team.

2.3 April 2nd, 2021

Meeting Location: Zoom

Meeting Start: 11:00am

Meeting End: 11:15am

2.3.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Continue implementing history list for previously watched videos – started on code to display it on user profile page, specifically the front-end

What will I do today?

- Continue implementing history list for previously watched videos

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Created function to fetch user videos from the database.

What will I do today?

- Allow a user to delete their video from the database.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- Yesterday, I connected the handler to firebase to delete the user account from firestore, delete the google account from Firebase Authentication, and logout the user from Redux.

What will I do today?

- Today, I will plan out how to implement the ability to clean up the user history for saved exercises (liked videos) and completed workouts.

Any impediments?

- I will just have to figure out how to make each individual item in these lists delete itself via the same handler. This should be fine with props. I will also have to make sure redux state properly updates everywhere else in the app.

Max Friedman

What did I do yesterday?

- Calculated the amount of likes that each video has

What will I do today?

- Sort videos from most liked to least

Any impediments?

- No

Victor Udobong

What did I do yesterday?

- Refreshed my entire local project.

What will I do today?

- Figure out how to get Expo Go and Expo CLI working. Read the documentation on Redux to figure out how to keep track of user search history.

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Added an UPDATE_SEARCHED_USERS reducer to auth.js: the part of the Redux state which will keep track of searched users history.

What will I do today?

- Add a Redux dispatch call to the onPress of displayed User search results.

Any impediments?

- None

2.3.2 Team Meeting Summary

Formally discussed using Redux for history related additional requirements. Sajan addressed some bugs which Max and Devin provided potential solutions to. Aaron mentioned that he had problems logging into Firebase so Victor re-shared the login details with the team.

2.4 April 4th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:40pm

2.4.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Continue implementing history list for previously watched videos – continued work on code to display it on user profile page, specifically creating snapshots from the database

What will I do today?

- Continue implementing history list for previously watched videos

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Wrote a function to delete videos and connected it to the UI.

What will I do today?

- Create a calendar UI on the profile page.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- I planned out how I will implement the clear history ability.

What will I do today?

- I plan on implementing the UI for each button, which can call a handler. For now, the handler that should delete the item will just console log the element of the id it is supposed to delete.

Any impediments?

- No major impediments today.

Max Friedman

What did I do yesterday?

- Sort videos from most liked to least

What will I do today?

- Get the data of each video

Any impediments?

- Need to figure out how to get the data for videos with no likes

Victor Udobong

What did I do yesterday?

- Test ran Expo Go and Expo CLI

What will I do today?

- Write code for keeping track of user search history.

Any impediments?

- Made a few logic errors in my local version of the project. Have decided not to push to Github until I talk to Roddur

Roddur Dasgupta

What did I do yesterday?

- Added a dispatch call to the onPress of displayed User search results.

What will I do today?

- Debug updateSearchedUsers, the Redux action in the dispatch call.

Any impediments?

- Yes. The searched users history is not updating correctly.

2.4.2 Team Meeting Summary

Meeting today was longer than anticipated because we decided to review branch commits to the main repository. Each team member briefly discussed their commit and the group collectively decided whether merging to main was necessary or not. A total of 3 branches were merged. Victor and Roddur made a point to communicate about the users search page in a separate private meeting.

2.5 April 5th, 2021

Meeting Location: Zoom

Meeting Start: 7:30pm

Meeting End: 7:45pm

2.5.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Continue implementing history list for previously watched videos – continued work on code to display it on user profile page, specifically combining the flat list itself with data from the database

What will I do today?

- Finish implementing history list for previously watched videos

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Developed a calendar and put it in the profile page UI.

What will I do today?

- Plan how the reminder system will work.

Any impediments?

- None.

Sajan Gutta

What did I do yesterday?

- I implemented the UI for each list item, adding a red X touchable to delete it from history, which calls a handler. For now, the handler that should delete the item just console logs the element of the id it is supposed to delete.

What will I do today?

- I will implement the handlers properly today. They will have to delete the relevant item from history and trigger a redux update, so that the history list also updates, not just the firestore.

Any impediments?

- Nothing this time.

Max Friedman

What did I do yesterday?

- Got the data for each video that has likes

What will I do today?

- Plan out how to get ids of videos without any likes

Any impediments?

- No

Victor Udobong

What did I do yesterday?

- Wrote some code for keeping track of user search history.

What will I do today?

- Zoom with Roddur and figure out what to do about my bugs

Any impediments?

- Nothing

Roddur Dasgupta

What did I do yesterday?

- Tried debugging `updateSearchedUsers`, compared my code with Max's and refactored to mirror his approach in updating workout history.

What will I do today?

- Finish up debugging `updateSearchedUsers`, hopefully get it to work.

Any impediments?

- Yes, still working on debugging.

2.5.2 Team Meeting Summary

A clarification from the professor and TAs on Piazza prompted us to discuss adding the features we had previously planned for Sprint 2 into our Sprint 1 to-do list. Devin and Sajan agreed to take on the calendar functionality that had been formerly reserved for Sprint 2 because of their familiarity with the libraries required. The team determined that the timeline for the Sprint wouldn't be affected.

2.6 April 6th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:20pm

2.6.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Continue implementing history list for previously watched videos – continued work on code to display it on user profile page, specifically combining the flat list itself with data from the database

What will I do today?

- Start cleaning up code on the user profile page

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Planned the calendar reminder system. Expo can provide push notification functionality without the use of a server or connection to Google or Apple. Notifications will trigger at specific times that the user specifies to the app.

What will I do today?

- Build the notification system to create and send a notification at a specified time.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- I implemented the handlers properly today. They delete the relevant item from history and trigger a redux update, so that the history list also updates, not just the firestore. The user can now clear their liked video history and completed workout history as stated in the requirement.

What will I do today?

- I plan on taking my wellness day!

Any impediments?

- Nothing today.

Max Friedman

What did I do yesterday?

- Planned out getting ids of videos with no likes

What will I do today?

- Implement getting ids for videos with no likes

Any impediments?

- No

Victor Udobong

What did I do yesterday?

- Zoomed with Roddur.

What will I do today?

- Try and figure out how to use Redux states instead of basic arrays for the search history.

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Debugged updateSearchedUsers. Managed to fix it; the Redux action now works,, and so far my tests show that the state is being handled properly.

What will I do today?

- Add additional logic to check if the searched user is already in user history, and bring them to the top if so.

Any impediments?

- No

2.6.2 Team Meeting Summary

Briefly recapped the progress for the day. Victor began transferring the meeting minutes into a formatted document for the deliverable. We deliberated for a while on using a Trello board to track progress but we ultimately decided that our team group chat was sufficient for updates and progress tracking.

2.7 April 7th, 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?

- Started cleaning up code in the user profile page – put some functions from index into separate pages

What will I do today?

- Continue cleaning up code in the user profile page

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Wrote a function that creates a notification that the user will receive in a minute.

What will I do today?

- Find libraries to help develop a modal datetime picker for input so the user can specify a reminder time.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- I took my wellness day yesterday so I didn't complete much work for KeepFit.

What will I do today?

- Today, I will be planning the implementation of displaying workout history in the calendar view. This will entail determining how it will look in the UI and how the user experience should be for displaying this information.

Any impediments?

- The main thing to determine is how to prevent a large number of queries for workout history. I believe this is already in our Redux state so it will be easy to

display in the calendar view with high performance. It will just require filtering based on the date on the calendar that a user has pressed.

Max Friedman

What did I do yesterday?

- Got ids of videos with no likes

What will I do today?

- Get data from videos with no likes

Any impediments?

- No

Victor Udobong

What did I do yesterday?

- Read some React Native documentation and attempted to incorporate my findings into the local codebase.

What will I do today?

- Start focusing on the documentation.

Any impediments?

- Realised that Roddur has gone much further than I have for some functionality that overlapped. Switched gears to work on cleaning up documentation.

Roddur Dasgupta

What did I do yesterday?

- Zoomed with Victor and tried to help him debug his problems running Expo on his Windows machine.

What will I do today?

- Continue working on the logic to check if the searched user is already in user history.

Any impediments?

- Yes, I had to switch tracks and try to help Victor with his bugs.

2.7.2 Team Meeting Summary

We began discussing our projected timeline for Sprint 2 today. We arrived at a projection very similar to the current sprint timeline. Victor and Roddur gave accounts of their private Zoom meetings and were able to figure out most of their technical issues. Max suggested the team improve their commenting in the codebase to allow other teammates pick up in certain parts of the project more easily.

2.8 April 8th, 2021

Meeting Location: Zoom

Meeting Start: 11:00am

Meeting End: 11:20am

2.8.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Started cleaning up code in the user profile page – put more functions from index into separate pages

What will I do today?

- Continue cleaning up code in the user profile page

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Found the library react-native-modal-datetime-picker that can take in datetime input from the user.

What will I do today?

- Create a function to open the modal and ask for input.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- I came up with a plan for how I am going to implement the display of workout history in the calendar view, which fits well with Devin's calendar reminder functionality implementation.

What will I do today?

- I will start implementing the UI elements that will be rendered on the calendar view. The business logic will be saved for a later day but I will have most of this feature done when I've designed the UI.

Any impediments?

- The main thing to handle is how to coordinate these effort's with Devin's work on the calendar functionality and work in parallel with him. So far, we are doing well with this.

Max Friedman

What did I do yesterday?

- Get data from videos with no likes

What will I do today?

- Format data so that it can be saved into the state

Any impediments?

- No

Victor Udobong

What did I do yesterday?

- Formatted the document for easy logging of team minutes

What will I do today?

- Did some more formatting for the sprint 1 document

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Finished up logic for searched user history. Had trouble compiling the app on my phone: failed to get a push token for push notifications.

What will I do today?

- Debug this problem, and get the app running on my phone again.

Any impediments?

- Yes, I am no longer able to get past the sign in with Google stage in the app.

2.8.2 Team Meeting Summary

We briefly discussed the planning details for the next Sprint. Aaron brought up concerns of overcrowding in the User Interface of the profile pages. Sajan and Aaron agreed to take a look at the current implementation of the UI and decided to make some slight adjustments. A bit of confusion on Redux was cleared up by all team members.

2.9 April 9th, 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 cleaning up code in the user profile page – put most of the functions from index into separate pages

What will I do today?

- Start displaying real number of followers on user profile page

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Add a button to trigger the datetime modal on calendar view.

What will I do today?

- Attach the inputs to the notification system.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- Yesterday, I implemented the rendered UI elements for displaying workout history in the calendar view.

What will I do today?

- I will utilize these UI elements with business logic, so that the view displays a user's completed workouts on the selected day.

Any impediments?

- Nothing today.

Max Friedman

What did I do yesterday?

- Formatted data and saved it into the proper state

What will I do today?

- Test code and fix edge cases

Any impediments?

- No

Victor Udobong

What did I do yesterday?

- Did some formatting for the sprint 1 document

What will I do today?

- Work towards commenting and properly formatting my code.
- Discuss with teammates to plan for sprint 2

Any impediments?

- None

Roddur Dasgupta

What did I do yesterday?

- Worked on debugging the push notification token problem. Asked for help in the team group chat and figured it out.

What will I do today?

- Touch up the UI. Start logging my work and formatting the Sprint document.

Any impediments?

- No.

2.9.2 Team Meeting Summary

Did a brief recap on progress. We ascertained that we are slightly ahead of schedule. The extra requirements from the clarification on the meeting of the 6th of April are close to completion. We are mostly focused on making the document for the sprint and the codebase presentable and easy to understand/navigate.

2.10 April 11th, 2021

Meeting Location: Zoom

Meeting Start: 6:00pm

Meeting End: 6:15pm

2.10.1 Summary of Team Member's Performance

Aaron Ly

What did I do yesterday?

- Finished displaying real number of followers on user profile page – added database call in place of hard-code

What will I do today?

- All done!

Any impediments?

- None

Devin Mui

What did I do yesterday?

- Attached the form to the notification function so the user can specify reminder times.

What will I do today?

- Nothing.

Any impediments?

- Nothing.

Sajan Gutta

What did I do yesterday?

- I finished up the display workout history feature in the calendar view.

What will I do today?

- I will run final tests on my code to verify that it works. Then, I will prepare as my team and I will likely have a final sprint review today and will submit our deliverable.

Any impediments?

- Nothing major.

Max Friedman

What did I do yesterday?

- Tested code and fixed small bugs and edge cases

What will I do today?

- All done!

Any impediments?

- Nope

Victor Udobong

What did I do yesterday?

- Discussed plans for code review and debugging for the past sprint

What will I do today?

- Finalise the sprint 1 document

Any impediments?

- Nothing

Roddur Dasgupta

What did I do yesterday?

- Made the search history look prettier. Worked on the sprint document.

What will I do today?

- Finish up working on the sprint document.

Any impediments?

- Nothing

2.10.2 Team Meeting Summary

Did a large scale recap of the Sprint's work. Most of the work has been ascertained to have been completed. We have all decided to push and review pending commits for merging into the repository and using the latest version of the project to run tests locally on our computers. We have also decided to finalize the documentation as soon as possible, preferably tomorrow.

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 April 12th, 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 1.

1. There is a history list for previous watched videos.
2. These two history lists (previous exercises and videos) can be cleaned by users.
3. There is a list in the personal interface storing videos that the user uploaded.
4. The user can delete what he / she has uploaded before.
5. There is another calendar interface.
6. The user's exercise history should be marked on the calendar.
7. The user can plan for exercise by clicking the date in the calendar.
8. There is a reminder for the upcoming exercise.
9. There is a recommendation of the videos, i.e., the videos shown in the interface should be based on the number of likes.
10. There is a search history list when you are searching.
11. The user can delete the account.

At the beginning of the meeting, we covered our completed tasks for the Sprint. The group established that the requirements in the backlog had been completed in its entirety. A particular highlight of the meeting was our recap of the calendar requirements that had been originally put off for completion in Sprint 2. We were able to confirm that these requirements had also been completed.

Due to our mid-Sprint adjustment, there were no functionalities that were left uncompleted. And we found that our completion of the Sprint goals closely followed our schedule, though at some point halfway we were ahead of schedule and towards the end we were slightly behind schedule.

The team discussed testing and final checks before submission. We ascertained that each requirement was tested with the latest versions of the entire project to avoid version errors. We also live demoed the project via Expo Go in our Zoom meeting via screen sharing.

We discussed our methodologies and the sprint in general. We found that our interpersonal communication had significantly improved from our previous working sessions due to the increased frequency in team meetings (the scrum meetings). More issues were more readily addressed on time and we were able to help each other out faster and more efficiently. An example of this was sharing React resources during the meetings happened more frequently, as opposed to solely through the group chat.

We also discussed things that could be improved. We recognised that our meeting scheduling could be improved because we always scheduled the exact timing of the next meeting at the end of the current meeting. We resolved to fix this issue by scheduling the scrum meetings in 3-day chunks via WhenIsGood instead of individually trying to figure out our availability.

Regarding interpersonal communication, we have resolved to have our technical issues communicated to the entire team on time. We have been able to identify team members that are more experienced with the technical tools of the project and they have resolved to be of help to our less experienced teammates, provided these issues are raised in a timely manner.

The remainder of the meeting was spent carrying out last minute checks and clarifications among team members.