

Keepfit

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Section I

Project Title: Assignment #5 – Sprint-1 (Keepfit)

Team Number: 32

Team Members:

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Section II

Preface

Keepfit will be an iOS mobile application where customers will be taught to exercise at home and can share their own experience and help others to exercise as well.

Customers of Keepfit can register as users to log in to the mobile application. Once registered, Keepfit will set up a personal file for the user and user's information such as nickname, photos, exercise history can be publicly available to other users in the user's personal file page. Users can choose to join a live broadcast or watch exercise tutorial videos by their own. Users can also start a live stream themselves so that other users can join, and users can choose to follow or unfollow each other. Keepfit can also record the time of the user's exercises and the calorie user burnt during the exercise.

This document is intended for the Product Owner, Scrum Master, and members of our development team of the Keepfit Project.

Current Version of this Document: 5.0.

This document is created as a result of our Sprint Planning meetings with our Product Owner, Scrum Master, and members of our development team. This document mainly contains a Daily Scrums Section with 10 Daily Scrums. Each daily scrum includes its time, location, a summary of the performance of each team member in the previous day, and a plan of the current day. The document also includes a Sprint Review Section. The Sprint Review Section includes its time, location, and a summary of the Sprint-1 process (i.e. answers to a series of critical questions. For example, 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?). The document also contains a Product Backlog, which includes all the functionalities that are still missing in our current project based on our implementation in the Assignment-3. It also contains a Sprint-1 Backlog which includes the functionalities that we are supposed to come up with at the end of this Sprint-1, as reference.

Section III

Introduction

Keepfit responds to the growing need of at-home exercises during the COVID-19 pandemic. It will build a community for people who wish to keep fit while stuck at home. It will have help

users with tracking and recording exercises as well as connecting to a greater community of “keepfitters”.

Users can register an account and set up his or her individual personal profiles which contain information about the user’s nickname, photos, exercise history and so on. Users will be able to see exercises as well as post their own. They can join exercises and sort the exercises in both forms of live broadcast and exercise tutorial videos. They can also see streams and start their own stream, follow and unfollow each other, and record the time of their exercises and the calories they burn.

Keepfit is similar to other exercise applications. Taking the “Keep” application as an example, both applications have functions such as user registration and authentication systems, personal profiles, customized exercise plan, exercise tutorial videos and live broadcast to join, recording of time of exercise and calorie being burnt, etc. Keep also enables users to post content and pictures and reply to each other’s post which facilitates user interaction, whereas Keepfit enables users to start their own stream, which is a function absent in Keep.

Section IV

Daily Scrums (you should have at least 10 of these)

Disclaimer: For the meeting locations, since we are in different time zones and countries, our team members have different preferences on their communication tools. We are using Zoom and Wechat as our primary communication tool. To accommodate different time zones, the below recorded time are the suggested timings for the meeting each day, while the communication between team members often do not take place strictly within the time window provided below, and sometimes the team might not be able to meet as a whole. When the whole team is unable to meet, we use this as a tool to keep everyone on the same page by recording their separate contributions below.

1. Apr 1 (Thur)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I went through all the sprint 1 backlog to make sure I understand the requirements without any confusion.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I will pick from our sprint 1 backlog a functional requirement that I’m going to work on. I need to make sure that no one else is working on it so far. Also, it is ready to be completed. That is, all its prerequisites are satisfied.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**

- A: Even though we have plenty of time right now, I feel like we also have a lot of stuff to do. If we don't work together closely, I'm afraid we can't finish all the requirements.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I reviewed all the backlog from assignment 3, and laid out a plan as to how to tackle issues such as framework migration for this sprint.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I previously used MongoDB Realm and Atlas to write out the backend for our project. Since our team decided on moving on to Firebase, I will try to learn Firebase today.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Mainly the time concerns. We used nearly all late days last time, and we still have some backlog features left to implement.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I went through all the functionalities that haven't been implemented in assignment 3, and tried to select a set of requirements to be implemented in Sprint 1
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I will analyze the functionalities selected for sprint 1 and group them based on the common viewcontroller / data structure some subset of requirements need to work on.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: I can see the technical debt accumulated from assignment 3. We didn't implement some functionalities according to their optimal structures so that old functionalities need to be refactored before working on new functionalities.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: None
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: None
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Deadlines from other classes

Kevin:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**

- A:
- **Q: What will I do today to help the team meet the Sprint goal?**
- A:
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A:

2. Apr 2 (Fri)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I decided to work on user profile image functionality. It's required, and it's the prerequisite for many other requirements.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I will start to learn how to implement the user profile image functionality. I need to first learn how to work with Firebase Storage.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Since we are working as a team, there is a portion of the code written by other team members (mainly Yi and Peidi.) But we didn't go through the code together. So it's harder to work on the code that I'm not familiar with.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I watched several tutorials on Firebase, and did some toy projects on manipulating the Firebase backend.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I plan to continue learning Firebase, and change some of the underlying logic to facilitate the move from MongoDB to Firebase.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: There is a lot of new stuff to learn for us to code this project. We might spend more time on learning than coding.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I watched tutorials on Swift and storyboard from Youtube. It's necessary for me to familiarize myself with the storyboard first so that I can add new views easily.
- **Q: What will I do today to help the team meet the Sprint goal?**

- A: I decide to keep learning storyboard and make a plan about the set of new views need to be implemented for the new functionalities
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Time conflicts with other courses. We need to learn a lot of new frameworks but we still need to spend time on other courses as well.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: None
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Figure out CreateAccountViewController.swift, try to check height and weight information
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Deadlines for other classes, lack of knowledge about swift

Kevin:

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

3. Apr 5 (Mon)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Actually I didn't do what I planned to do yesterday. However, I did go through everything we have right now to get a full understanding of our current version of Keepfit. I went through, the view (i.e. frontend - Storyboard), the controller (i.e. all the .swift file in the Controller folder), and the model (i.e. both the backend - Firebase and the defined classes in our Model folder.) Now, I'm much more familiar with the coding environment, and more confident.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Again, I will start to learn how to implement the user profile image functionality. I need to first learn how to work with Firebase Storage.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**

- A: Not really. But we need to work harder on it. Our team doesn't have any real progress so far in terms of implementation. But it's reasonable. We need time to learn it.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I read through some of the Firebase logic Zhenyi wrote, and I modified some of the model files to facilitate move from MongoDB to Firebase.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I plan on taking a day off since I am getting the first dose of the COVID vaccine today.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: We each have different skill sets, and it is sometimes difficult for people with different technical backgrounds to work together.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I took a break to finish up work required by other courses.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I decide to read through other team members' code so that I can write new code on top of their progress.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Difficulties in coordination with other team members. Different team members have their own work and due dates so that they may not finish up necessary prerequisite functionalities for other work to go on.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Learn about CreateAccountViewController.swift, how variables are passed, how input is taken
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Check account information, check height, weight, birthday
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Deadlines for other classes, lack of understanding of Swift

Kevin:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A:
- **Q: What will I do today to help the team meet the Sprint goal?**
- A:

- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A:

4. Apr 6 (Tue)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I watched several tutorials in terms of the Firebase Storage. Now I have a general idea of how to work with it.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I will start to implement the user profile image functionality.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Yes. I don't know why, but I can't run our project on my Xcode simulator. It makes it much harder to test what I wrote.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I got the COVID vaccine to better protect humanity.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Learn image display controller and try to figure out how to fetch images from the Firebase backend.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: We are in midterm season right now. I feel like we are not spending enough time working in this sprint.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I encountered a bug when testing existing functionalities and finally found out that the bug occurred because other team members inadvertently corrupted the database when experimenting with new functionalities.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I will work on delete user functionality and research on functions that can achieve this functionality.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Since we directly push to the master branch to avoid merging issues, other team members' work may corrupt the existing project and create new bugs that require time and energy to fix them.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Completed verification for height, weight, tried to do birthday in account creation
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Try to do a date input for birthday in account creation
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Deadlines from other classes, lack of understanding of Swift

Kevin:

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

5. Apr 7 (Wed)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I successfully implemented the user profile image functionality. Now, users can pick a profile photo when they create an account. Moreover, the profile photo they picked is stored in our Firebase Storage! We can see it on the backend side.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I really want to know why I can't run the simulator on my computer. Because it makes it much harder for me to test my code. I have to use a real iPhone to test it, but again, without any debug logging message.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Not really. We just need more time. I hope I can have 48 hours a day. That would be great! Anyways, guys we can do it!

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Since Zhenyi is on his way to complete implementing uploading profile image during user registration, I started working on displaying profile image in the user's private profile.
- **Q: What will I do today to help the team meet the Sprint goal?**

- A: Complete working on displaying user's private profile image.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Since we are across different time zones, it is sometimes difficult for the whole team to meet.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I worked on deleting user functionality and encountered several bugs. It appears that the user needs to be re-authenticated to pass the security check from firestore.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Keep debugging to perfect the functionality.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Learning curve. It takes extra time to work on a programming language and framework that you're not familiar with. Bugs may arise with simple mistakes you may not realize.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Tried to do date input for the birthday variable
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Learn about other ways of doing date input in Swift and try to make it work
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Work from other classes, lack of Swift knowledge

Kevin:

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

6. Apr 8 (Thur)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**

- A: Finally! I found that bug that causes me being unable to run the project on the simulator on my computer! See my commit message: “I don't remember how many times I tell u guys that I can't run Keepfit in my Mac Xcode simulator even after I fixed my internet issue completely. Yi says it's probably because my Mac is too old and getting slow. WRONG!!! I fixed that bug. It's because the Workout View Controller that Kevin created has some kind of bugs. Because that's the only exception caught in my console. This is the error in case u want to know: `'NSUnknownKeyException', reason: '[<UIViewController 0x7fa425415b00> setValue:forUndefinedKey:]: this class is not key value coding-compliant for the key workoutTableView.'` Moreover, there is a very interesting thing i found: when open View->Main.storyboard, if u r in the assistant editor automatic mode, if u click one view controller, it should show u the corresponding .swift automatically as long as u set it up correctly. Well, if i click any view controller other than the WorkoutNowViewController, their corresponding .swift will show up, meaning it's the problem of the file rather than the Xcode assistant editor automatic mode. The way I fix it is: copy all the code from the original WorkoutNowViewController, rename the controller to WorkoutNowViewController_tmp, create a new UIViewController and name it WorkoutNowViewController, paste the code from the original file. Here is the MAGIC, it worked!!!
- I think probably, when Kevin create this file, there are mistakes introduced, such as wrong selection of the type of the controller file (UIView vs UIViewController vs UITableViewController), or the target setting when create the file are wrong.”
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Today is actually the Wellness day. I decided to take a day off, since I really need a rest. I'm planning to meet with a friend in China. He is also a USC student. I didn't see a single USC student in person for this entire semester so far. I need to. But, I will be available by WeChat. So if you guys have any questions in terms of my code or ios development in general, just let me know.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Yes. The COVID-19 complicates the situation. I feel like I'm not as energetic as I was in a normal semester. Maybe I need some more social life...

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Refactored some code in the profile page and the model files. Now the user image can be successfully fetched from the backend.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Try to also display the user profile image in their public profile. Learn how Firebase Storage works.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: When the whole team is unable to meet, we have to opt for communicating via chat messages, and that sometimes is not efficient enough.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Working on delete user functionality. Realizing that reauthentication may require complicated work such as threads and locks.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Try to finish up on delete user functionality and its re-authentication method. Ensure the functionality is bug free
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Communication problems with other team members. Not knowing the exact progress each team member was on creates worries and concerns about repeating existing work.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Searched up multiple ways to do date input but tried and failed to implement them
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Figure out ExerciseDetailViewController.swift, learn about Timer in Swift
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Work from other classes, lack of Swift knowledge

Kevin:

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

7. Apr 9 (Fri)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: As I said yesterday, I took a day off. However, I did communicate with Yi Xu in terms of the project. Because he is implementing some functionalities based on the user profile image functionality.
- **Q: What will I do today to help the team meet the Sprint goal?**

- A: I will pick a new functionality today. Again, I need to make sure that no one else is working on it so far. Also, it is ready to be completed. That is, all its prerequisites are satisfied.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Yes. We need more time. I guess we choose too many requirements for the sprint-1. I'm afraid we can't finish all of those. Because some members are not contributing enough. We choose 13/21 requirements. I think we did it not because we are sure that we can finish them. We choose more than we can do so that we can make sure we always can find something needs to be done.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Learnt about Firebase Storage. I also watched some tutorials on SwiftUI. I have implemented the functionality of showing image profile in the user's public profile when their nickname is searched and clicked on.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Start working on the stream starting and ending functionality.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Mainly time concerns. I think we are falling behind schedule a lot.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Realizing that Firestore actually provides a function that easily implements reauthentication. Encountered more bugs using Firestore's function.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Keep debugging to ensure that re-authentication works. Decide between prompting the user to re-enter the password in profile page or segue to login page.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Time concerns. We spend too much time on a few requirements and apparently there are many requirements left.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Learned about Swift, how Controllers work, how variables and functions work, how UIButton works, learned about Timer
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Fill in functionality for ExerciseDetailViewController.swift, do Timer stuff

- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Work from other classes, lack of Swift knowledge

Kevin:

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

8. Apr 12 (Mon)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: I chose to fully implement the search functionality in our Keepfit project. I want our search by name functionalities to support partial match and be bug free. We need it for searching videos by titles, as well as searching users by names. This is also a prerequisite for some other functionalities in our project. It's important.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: I will watch some tutorial on how to implement it.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: We are about to run out of time. Hang in there guys.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Completed the front end logic of starting and stopping a stream.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Complete the backend logic of start/stop a stream, as well as loading the stream zoom link. Work with Peidi on deleting accounts.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Mainly time concerns. We are behind on clearing the backlog.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Keep debugging. The Firestore authentication method was not working for whatever reason and we have to make it work.

- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Communicating with Yi on how to debug the functionality. It's time to request help from other team members.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Third-party framework doesn't provide enough documentation and the black-box nature of its functions and classes make it difficult to debug

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Wrote code for ExerciseDetailViewController.swift, wrote up the Timer, used it to calculate hours/minutes/seconds passed
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Try to figure out why the @IBAction function is not being called
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Work from other classes, lack of Swift knowledge

Kevin:

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

9. Apr 13 (Tue)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Watched some tutorials on how to implement the partial search by text functionality.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Start to do the real implementation.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: No. I believe I can do it! Nothing can prevent me from completing this functionality.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Completed backend functionality of start/stop streaming.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Implement front-end pages for deleting accounts.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Some team members are not contributing to the coding process.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Communicating with Yi on how to debug the functionality.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Yi and I decide to create a new view for re-entering the password so that the profile page has other space for putting videos and other features. It's good to avoid technical debt.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Time concern. There isn't time left for implementing other requirements.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Tried to figure out bugs in ExerciseDetailViewController.swift but failed
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Try to figure out the bug, and work on calorie counting for ExerciseDetailViewController.swift
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Work from other classes, lack of Swift knowledge

Kevin:

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

10. Apr 14 (Wed)

- a. Meeting start time and end time: 10:00 AM - 10:15 AM (Beijing Time)
- b. Location: Zoom/Wechat
- c. Team Members:

Zhenyi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Successfully implemented the partial search by text functionality.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Complete the documentation for Sprint-1. I will write the Preface, as well as part of the Sprint Review.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: We really need more time. We also need more communication for some of our team members.

Yi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Completed the delete account functionality with Peidi.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Complete the documentation for Sprint 1. Set up a whole group meeting for the final review.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: It is the last day of sprint 1, and we are running out of time and have to settle for the coding part of sprint 1 and work on documentation.

Peidi:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Finishing up on the delete functionality with Yi.
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Working on documentation for Sprint 1 with team members. Join the group meeting on sprint review.
- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: There isn't time left to implement all other functionalities originally planned for sprint 1.

Gloria:

- **Q: What did I do yesterday that helped the team meet the Sprint goal?**
- A: Searched up how to calculate calorie count and partially implemented the functionality, missing the weight value of the user, failed to figure out the button call bug in ExerciseDetailViewController.swift
- **Q: What will I do today to help the team meet the Sprint goal?**
- A: Go back to CreateAccountViewController.swift, implement UIPickerView for the birthday variable so that the user must scroll through month, day, year and pick a date when inputting their birthday

- **Q: Do I see any impediment that prevents me or the team from meeting the Sprint goal?**
- A: Work from other classes, lack of Swift knowledge

Kevin:

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

Section V

Sprint Review

Date: Apr 14 (Wed)

- a. Meeting start time and end time: 11:00 AM - 12:00 AM (Beijing Time)
 - b. Location: Zoom
 - c. Meeting summary
- i. What has been done?
 - According to the Sprint-1 Backlog from our intermediate deliverable of Sprint-1 (Section VI), we have finished the following requirements:
 - #2, [by Zhenyi / Yi]. Now users are able to choose a profile photo when they create the account. And their profile image will be shown in their profile page as well as Keepfit community page.
 - #4, [by Zhenyi]. Now users are able to watch the videos from the exercise demo interface.
 - #5, [by Yi]. Users are able to start and stop his/her own live stream.
 - #8, [by Yi]. Users are able to view other users' interfaces by clicking their nicknames or profile images.
 - #25, [by Peidi / Yi]. Users can delete their accounts.
 - ii. What was planned but wasn't completed?
 - Functionality #7, #10, #11, #15, #16, #21, #22, #24 (Refer to the Sprint-1(Section VI))
 - iii. Why?
 - Since some team members made very little contribution to the original implementation as well as the testing of such implementation, they are not familiar with the existing codebase, and thus were unable to catch up to speed with the rest of the team.
 - We did not plan our development process well enough, and we ran out of time in the end to finish many of the planned features.

- We are still in the process of migrating from MongoDB to Firebase on the framework level.
 - We are also facing the difficulty that our members are in different time zones so it's a little bit harder for us to communicate with each other. Messages and responses could be delayed.
 - Another very important reason is that we are now close to the end of the semester and each member has many other classes that require a lot of time and energy as well. Since we are taking 4 to 5 classes in the semester as full-time students rather than taking full-time software engineering jobs, we cannot really perfectly mimic an industrial sprint.
- iv. What went well during the Sprint?
- Version control went very well. We were able to solve merge conflicts along the way and integrate the code from different team members.
 - Pair programming was a success. We were able to uncover some really subtle bugs during the process, and actually boosted the efficiency of development.
 - Although we did not pre-plan each team member's workload carefully, we successfully laid out a plan for incremental development. Functionalities were built on top of one another.
 - Time management, in terms of delivering the sprint, was a relative success since we did not use a late day.
- v. What could be improved in the next Sprint?
- We should plan ahead of everyone's workload from other classes, and more clearly define the responsibilities of each team member.
 - We should improve our communication between team members. As noted before, the daily scrum record is sometimes only used as a tool for team members to post updates. We should meet as a team more often in the next scrum.
 - Some team members should familiarize themselves with the existing codebase. Meanwhile, we should make more "comments" in the code so that the code is more readable.
 - Increase the amount of pair programming so that we can be more efficient in implementing functions that tie the frontend to the backend, which requires integrating different technical skills.

Section VI

Product Backlog:

The "backlogged" functionalities that are not implemented in our project yet are presented as following (in comparison with the list of required functionalities specified in the assignment instruction):

2. The photo of the personal profile needs to be correctly configured. Birthday, weight, and height information needs to be stored in their correct data types.

4. There should be one exercise demo interface containing live streams and videos. The user should be able join the live streams or watch the videos.
5. The user should be able to start his own live stream or upload exercise videos.
7. The user should be able to add videos into like / unlike lists and the liked videos should be shown in the personal interface.
8. The user should be able to view other users' interfaces by clicking their nickname or photos.
10. The user should be able to click on an exercise choice to record the time and calorie accordingly.
11. The user can follow / unfollow other users.
12. There is a history list for previous watched videos.
13. There is a history list for previous done exercises.
14. These two history lists can be cleaned by users.
15. There is a list in the personal interface storing videos that the user uploaded.
16. The user can delete what he / she has uploaded before.
17. There is another calendar interface.
18. The user's exercise history should be marked on the calendar.
19. The user can plan for exercise by clicking the date in the calendar.
20. There is a reminder for the upcoming exercise.
21. The videos and live streams should be shown by category.
22. There is a recommendation of the videos, i.e., the videos shown in the interface should base on the number of likes.
23. There is a search history list when you are searching.
24. The search can be done by category.
25. The user can delete the account.

Sprint-1 Backlog:

The list of "backlogged" functionalities we select to be implemented in sprint 1 is presented as following:

2. The photo of the personal profile needs to be correctly configured. Birthday, weight, and height information needs to be stored in their correct data types. [Zhenyi / Yi - Profile Photo now synchronized across all devices] [Gloria - UIPickerView implemented for birthday information in account creation; weight and height information checked for being integers]

4. There should be one exercise demo interface containing live streams and videos. The user should be able join the live streams or watch the videos. [Zhenyi]

5. The user should be able to start his own live stream or upload exercise videos. [Yi - A backend boolean value for stream status was created. It is now available in the users' public profile]

7. The user should be able to add videos into like / unlike lists and the liked videos should be shown in the personal interface.

8. The user should be able to view other users' interfaces by clicking their nickname or photos. [Yi -User's profile image is now shown in their public profile]

10. The user should be able to click on an exercise choice to record the time and calorie accordingly. [Gloria - Mostly completed, missing weight value, button-function call not linked up]

11. The user can follow / unfollow other users.

15. There is a list in the personal interface storing videos that the user uploaded.

16. The user can delete what he / she has uploaded before.

21. The videos and live streams should be shown by category.

22. There is a recommendation of the videos, i.e., the videos shown in the interface should base on the number of likes.

24. The search can be done by category.

25. The user can delete the account. [Peidi/Yi Completed]