

Project 2.5 - USCRecApp

Table of Contents

1. Team Information
2. Preface
3. The Sprint Plan
4. Daily Scrums
5. Sprint Review

1. Team 37

Zhi Syuen See - 6457173965, syuensee@usc.edu

Kelly Ma - 2028091600, kjma@usc.edu

Elizabeth Szabo - 9878707035, eszabo@usc.edu

2. Preface

USC requires their students to make reservations for any USC recreation center in order to gain access. The USCRecApp helps students easily make reservations at any USC recreation center. Users will be able to sign up for a time slot at any of the recreation centers. This is the fifth version of this document which outlines the iterative development workflow. We detail how we followed an iterative software development process (scrum). We produced a sprint plan, following the Scrum workflow.

3. The Sprint Plan

Product Backlog

a list of all the backlogged functionalities, i.e. user stories still missing in your Android app, and extra features your team wish to implement, if given more time

- Bug-free upcoming appointments window with connection to database
- Bottom navigation bar in the map view
- Notifications 10 minutes before a gym appointment
- “Streak” feature which tallies the number of consecutive days the user has gone to the gym to increase motivation and attendance
- Gym attendance statistics throughout the month
- Workout suggestions
- Bookings for workout classes for each gym (F45, boxing, etc)
- Bookings for in-gym amenities (racquetball courts, basketball courts, boxing gloves)
- Being able to book in advance by a certain amount of time (3 weeks or month, etc.)
- Being able to view bookings a week at a time
- Notifications for being taken off of waitlist

Sprint Backlog

a subset of the Product Backlog that your team selected to work on in this sprint. While you have the flexibility to set the scope, the expectation is that, at the end of this sprint, you have a functional, bug-free system

- Elle: Bug-free upcoming appointments window with connection to database
- Syuen: Notifications 10 minutes before a gym appointment
- Kelly: Being able to view bookings a week at a time (Sunday through Saturday)

4.

5. Daily Scrum Meetings

5 documented meetings

- List team members
- The start time and end time of each meeting
- The meeting location
- One-sentence summary of each team member's performance, w.r.t. questions below
 - What did I do since the last meeting that helped my 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 the team from meeting the Sprint goal?

Meeting 1

Team Members: Syuen, Kelly, Elle

Start Time: Thursday, April 21, 2:00pm

End Time: Thursday, April 21, 2:35pm

Meeting Location: Zoom

Team members' performance:

- Elle
 - I'm planning on incorporating my previous map code into the repo. Before, I tried to integrate my page with intents into the app such that the app remembered which gym it had last clicked on, and sent the user's info to and from every activity. This proved difficult because the intents have to be formatted uniformly throughout the entire app. I'm going to take a different approach and use file IO, something I had thought about for 2.3 but decided against at the time.
- Syuen
 - After discussing the current status of our project and where we want it to go in our first meeting, I will be focusing on doing research on the NotificationCompat API as well as Runnables and Handlers to create pop-up notifications for the user 10-minutes before a scheduled gym appointment.
- Kelly
 - Because in our initial app you can only view time slots for Monday-Wednesday, I will be focusing on expanding that and displaying time slots for a full week (Sunday-Saturday), which is more realistic.

Meeting 2

Team Members: Syuen, Kelly, Elle

Start Time: Friday, April 22, 3:00pm

End Time: Friday, April 22, 3:47pm

Meeting Location: Zoom

Team members' performance:

- Elle
 - Since the last meeting, I replaced the class that kelly and syuen made with my map class to make the code more intuitive to me.
 - Today, I'm going to work on adding the bottom navigation bar into the app so that the app experience is more seamless.
 - Because I didn't understand how the bottom navigation bar really worked in the other pages, I discussed with syuen how I would incorporate this, especially into my layout.xml file.
- Syuen
 - I added some functions like onResume() and onPause() to test out basic Toast notifications.
- Kelly
 - I added selections in the dropdown for Sunday, Thursday, Friday, Saturday on the gym slots page.

Meeting 3

Team Members: Syuen, Kelly, Elle

Start Time: Saturday, April 23, 2:30pm

End Time: Saturday, April 23, 3:30pm

Meeting Location: SAL

Team members' performance:

- Elle
 - Since the last meeting, I added the bottom navigation bar to the app. This involved intense reformatting of my layout.xml file because i had used a constraint layout instead of a linear layout at the beginning, and syuen made it under the confines of a linear layout. I had to reformat a couple of things on my page and bring them to the front. However, it now works and is clickable.
 - The next meeting, I am planning on starting window– this UI feature was a main to-do point in the original implementation that I missed. I plan on using some of the other classes' code to query the database and load some of the most recent things into the window.
 - We discussed the sizing of the window and placement– top left.

- I don't see any impediments as of now, other than it might be a little tricky merging syuen and kelly's code into my code, as we are all independently working on our branches at the same time.
- Syuen
 - I manipulated the onResume() and onPause() functions to display notifications 10 minutes before the registered time slot, but it's still slightly buggy so will debug tomorrow.
- Kelly
 - I added to our database all the time slots for Lyon and will do some testing to make sure they display correctly on the gym slots page.

Meeting 4

Team Members: Syuen, Kelly, Elle

Start Time: Sunday, April 24, 4:00pm

End Time: Sunday, April 24, 5:00pm

Meeting Location: SAL

Team members' performance:

- Elle
 - As of this meeting, I created a static window for the app located in the top left corner of the maps page. It doesn't load in any of the timeslots yet, so it's lacking in that functionality, however, it loads properly and took me a long time to format correctly. I have started looking into how to put the timeslots into the table, but have not completed that part yet.
 - Today, I will complete making the app functional and also adding the intents such that, from any activity page, the map page knows who the user is so that it can query the database for the user's upcoming meetings.
 - An impediment is that the app crashes right now if I don't hardcode the docName into the maps page— this is annoying, but is caused by the intent malfunctioning. I just need to figure out what is wrong.
- Syuen
 - I debugged the new notification functions so the notification only displays once, as long as the current time is at least 10 minutes away from the upcoming appointment.
- Kelly
 - Time slots displayed correctly for all of the days for Lyon gym, so I will proceed and add the remaining time slots for Village and Uytengsu gyms.

Meeting 5

Team Members: Syuen, Kelly, Elle

Start Time: Monday, April 25, 9:00pm

End Time: Monday, April 25, 9:32pm

Meeting Location: Zoom

Team members' performance:

- Elle
 - Since the last meeting, I used the file io to create a new class that reads and writes the username from a file. This has fixed all of my intent issues, and provides more flexibility in the code to access the user's information. It no longer crashes and actually does load in the user's upcoming time slots into the window. I added on-click methods so that the window when clicked goes to the summary page.
 - Today, I will do some testing on the app to make sure that every action a user takes is errorless— going to and from the gym slots. However, it looks pretty good as of now, as when I cancel the upcoming meeting, the appointment in the window disappears, and when I add a new appointment, it reappears.
- Syuen
 - I made the 10-minute notification persist throughout all pages of the app so the user can view their 10-minute warning easily, meeting the Sprint goal.
- Kelly
 - All of the gyms now have updated time slots from Sunday-Saturday and I am able to successfully sign up/join the waitlist for each of the new time slots, which was the goal for this sprint.

6. Sprint Review Meeting

Planned Work Completed During Sprint

- Elle:
 - I replaced the map view
 - Created a class for window adapter
 - Created several xml layout files for formatting it
 - added data file read/write functionality so that each independent Activity class can access the user's username (and thus avoid messy intent passing while still being able to query the database), creating a FileIO class
- Syuen: Successfully implemented notifications 10-minutes prior to a registered gym slot.
- Kelly: Ability to view time slots for a whole week for each gym.

Planned Work Not Completed During Sprint

- Elle: None
- Syuen: N/A
- Kelly: N/A

Process Improvement Actions

- For the most part, our process for this 2.5 sprint was pretty good as we were able to efficiently work on our own portions of the app effectively.
- To improve in the future, we could keep each other up-to-date about when we plan to work on certain tasks and features so we know everyone's status and we're all communicating effectively.
- Also in the future, we could use git more and commit more frequently so that we don't run into as many merge errors. Elle tried to merge into master at the end, and it was rejected because of a lot of errors that she had to fix.

Review Meeting Start Time: Tuesday, April 26, 8:45pm

Review Meeting End Time: Tuesday, April 26, 9:03pm

Review Meeting Location: Zoom

Review Meeting Attendees: Syuen, Kelly, Elle

Meeting Summary

- What has been done?
 - We were able to complete features that we felt we missed in our first implementation of the app. Elle was able to integrate her map feature that makes navigating our app easier. Syuen was able to add notifications to notify users 10 minutes prior to their registered time slot. Kelly was able to add the remaining days of the week for users to select on the gym slots page.
- What was planned but wasn't completed, and why?
 - We were able to complete what was planned.
- What went well during the sprint?
 - We all had clear plans on what we each needed to complete and were able to complete them on time for this sprint. We were able to complete features that we initially wanted when originally working on the implementation of our app. After every meeting, we each wrote a quick summary in the google doc of what we had achieved.
- What could be improved going forward?
 - There are a lot more (unnecessary) features that we weren't able to implement, and we also could have improved upon our existing features a lot more if we allocated our time better or had a longer timeline. However, the time from 2.4 to 2.5 was quite small, so we did the best we could.