

# **Sprint 3 Document**

***Focus!***

**Prepared by ProFlo**

**Mohammad Usman Sohail**

**Alexina Boudreaux**

**Cameron Chilson**

**Forrest Dunlap**

**Patrick Truong**

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# 1. Preface

The purpose of the sprint document is to provide an insight into what was accomplished over the course of the sprint. It will also provide a reference as to what we saw go well and what changes we can make for the future. The first part of the document recaps our six scrums and the feedback that was given during them. The second part is a summary of everything that was accomplished and what changes we need to make for the next sprint.

## 2. Daily Scrums

### 2.1 Scrum 1

#### **Alexina**

Work for today: Test data in Firebase and look for any errors which occurred when switching from Global.

Obstacles: Cannot fully test errors, since we may be keeping more storage in Global than we originally thought.

#### **Patrick**

Work for today: Look at how Firebase and Global should be combined and implemented.

Obstacles: Though we want to fully transition into the database, there are some new errors in functionality which occur, meaning we may have to keep more information in Global.

### **Usman**

Work for today: Understand what is actually going on with the Google API for calendars.

Obstacles: it seems like there are many different ways to implement Google API's, I'm not sure which way is correct.

### **Forrest**

Work for today: Figure out how to map schedules to infinite-time. IE) Make the calendar correctly roll with weeks given the existing java.util.calendar. Knowing that there are leap-years, different length months, and different start days for every month. And working around Android Week View's populate one month in advance paradigm.  
Not super pumped.

Obstacles: Mostly logical. I know that it is ~possible~ to do, as SW is infinitely malleable, but that doesn't make it straightforward.

### **Cameron**

Work for today: Assist with Google API and record all documentation necessary.

Obstacles: We have a lot of work ahead of us and very little time, it will be interesting to see how this gets done.

## **General Information**

Time: 8:30 - 9:00

Location: SAL

Summary: Today was mainly a research day as people are working on getting much of their initial research and planning done into how to execute their parts of the coming sprint.

## 2.2 Scrum 2

### **Alexina**

Work done yesterday: Reviewed code to make sure I was familiar with all recent changes.

Work for today: Fix Focus! notifications, and make sure they are correctly displayed when timers and schedules start and stop.

Obstacles: After switching to Firebase from Global, this functionality is not as simple as it once was.

### **Patrick**

Work done yesterday: read up on Firebase to help reason when to use local storage.

Work for today: Fix issue of timer restarting when switching tabs.

Obstacles: We may have to take the countdown functionality of timers off Firebase and put it in Global so countdown is stored locally because it is difficult to update and store the value in Firebase.

### **Usman**

Work done yesterday: I looked up many different ways to implement Google API's.

Work for today: I think the main problem with the google API is the parameters it uses for connection. I'm fairly certain my AUTH2 is setup correctly in the android console.

Obstacles: The biggest obstacle to get the calendar feature implemented is the status of AUTH2 on the android project console. It is not very clear if the correct access is given.

### **Forrest**

Work done yesterday: Got it! It's not a particularly pretty implementation, but it works. So don't touch it.

Work for today: Getting everything to open edit when it is tapped on.

Obstacles: None right now. Should be fairly straightforward.

### **Cameron**

Work done yesterday: Research and completing the last meetings documentation.

Work for today: Help to troubleshoot some existing problems and find bugs, as well as complete the documentation.

Obstacles: None

### **General Information**

Time: 8:00 - 8:15

Location: Leavey Library

Summary: Much of the initial research has been done and people are now starting to work on their implementations of their new features to the application.

## 2.3 Scrum 3

### **Alexina**

Work done yesterday: Continued to review code, began testing basic Focus! functionality.

Work for today: Fix notifications on notifications tab.

Obstacles: Update to Firebase has made storing package names for notifications difficult.

### **Patrick**

Work done yesterday: Put part of schedules back on Global.

Work for today: Continued to fix timers.

Obstacles: The timers issue is larger than just the timer, as it will decide how much data should be stored on Firebase vs locally.

### **Usman**

Work from yesterday: I was able to determine that in fact the correct authorization was given to the project.

Work for today: Although the application itself is allowed access to certain google features, I need to figure out how to get the correct authentication to be able to insert calendar events. The application is able to get the

authentication for logging in with a google account, I need to just transfer this over.

Obstacles: accessing correct mechanisms for authentication is difficult since there are many.

## **Forrest**

Work done yesterday: Got the schedules to be edited happily. And, edits are showing up in Week View.

Work for today: Let's pretty some things up. Make active schedules green, and fix the labels on the week view and the like.

Obstacles: Again, this should be pretty straight forward.

## **Cameron**

Work done yesterday: I helped with some troubleshooting and documentation.

Work for today: Do more documentation, look into what needs to be completed before final demo and plan to make sure everything is working properly.

Obstacles: None

## **General Information**

Time: 8:00 - 8:30

Location: VKC



Summary: Implementation has continued for the new features as well as some troubleshooting with the google API. We have also started beautifying the UI a little bit so that it will look like a much more polished product.

## 2.4 Scrum 4

### **Alexina**

Work done yesterday: Continued to test Focus! Basic features such as making profiles.

Work for today: Figure out why only one schedule can be created.

Obstacles: Again, update to Firebase is causing issues and for some reason only one profile can be created.

### **Patrick**

Work done yesterday: Added timer countdown to be part of local data.

Work for today: Start adding back in Global functions.

Obstacles: None.

### **Usman**

Work done yesterday: After trying thoroughly to get the correct authentication token for AUTH2 from GoogleAuthClient, I learned that the reason this wasn't working was because this functionality was in fact deprecated.

Work for today: Learn how to obtain an authentication token the proper way, to ensure access to google account data.

## **Forrest**

Work done yesterday: So I prettied up the week view, but there was some glitch re: coloring that I couldn't quite figure out. I figured a good night's rest might help.

Work today: Fix the glitch, and make things update in real time.

Obstacles: WeekView Events aren't changing color, but that's precisely the bug I'm working on today.

## **Cameron**

Work done yesterday: Mapped out what needs to be done and completed the new documentation.

Work for today: Start checking in with people to make sure they'll be able to follow our action plan for finishing it all on time, also more documentation, fun.

Obstacles: None

## **General Information**

Time: 8:00 - 8:30

Location: Leavey Library

Summary: So far everything seems to be going smoothly we are running into some minor difficulties with google API and some backend bugs but our frontend looks really pretty.

## 2.5 Scrum 5

### **Alexina**

Work done yesterday: Solved why profiles were having issues adding multiple.

Work for today: Test newly integrated Firebase and Global functionality.

Obstacles: None.

### **Patrick**

Work done yesterday: Added part of notification display back on global.

Work for today: Continue to add back in Global functions.

Obstacles: None.

### **Usman**

Work done yesterday: I was able to get the AUTH2 authentication token correctly.

Work for today: Now that I have finally gotten authorization to access the calendar data, I must now connect the client and service to each other using the correct access token.

Obstacles: poor internet connection throttles speed of progress.

### **Forrest**

Work done yesterday: For now finished week view. Everything ~looks~ fine.

Work for today: Do some R&D(esign) re: how to improve the timer interface.

Obstacles: Timer redesign might not be the right move forward, to be perfectly honest. I'll discuss with the group tomorrow. (If it ain't broke, don't fix it.)

### **Cameron**

Work done yesterday: Checked in with everyone and seems to be going fine with a few bugs here and there, documentation was completed.

Work for today: Try and establish a hard stop by tomorrow so that we will be able to do bug review the last few days and polish it up.

Obstacles: none

### **General Information**

Time: 8:00 - 8:45

Location: VKC

Summary: Things are really coming together and people are starting to finish up their new features. We are doing very well at sticking closely to our projected roadmap and all documentation is up to date.

## **2.6 Scrum 6**

### **Alexina**

Work done yesterday: Moved on to test newly integrated timer countdowns, specifically with switching tabs.

Work for today: Understand why schedules is being so difficult to integrate to both Firebase and Global.

Obstacles: Crash messages are difficult to debug.

### **Patrick**

Work done yesterday: Fixed Focus! Notifications with database issues.

Work for today: Begin integrating new features into database.

Obstacles: None.

### **Usman**

Work done yesterday: The app is now connected to the Google calendar API and is able to read content.

Work for today: Get the time and schedule information from the timeblock and pass this info to the insertion calls from the Google Calendar API.

Obstacles: I have never used Dates, DateTimes, or even RFC3339 formatting before, so this may take some getting used to.

### **Forrest**

Yesterday: Got a design. Yay.

Today: Talked to the group and we decided it would be more worth our time to implement a tutorial/onboarding feature of some kind. I'm all for it, just concerned about the difficulty thereof.

Obstacles: Finding a library that I can implement in a relatively short amount of time.

## **Cameron**

Work done yesterday: General checkins and documentation.

Work for today: More of the same, start helping with some testing to make sure we won't have any bugs once this is implemented and pushed as our final project.

Obstacles: None

## **General Information**

Time: 7:00 - 7:30

Location: Leavey Library

Summary: People are starting to wrap up their implementations and testing of them has begun. Looks like we will have a lot of work in the next few days to fix all these bugs and get everything running properly but still seems very doable.

## **2.7 Scrum 7**

## **Alexina**

Work done yesterday: Tested new database integrations such as focus notifications tab.

Work for today: Ensure that all previous and new functionality for database is fully functioning.

Obstacles: New features are being added

### **Patrick**

Work done yesterday: Looked at new Google API features to integrate into databases.

Work for today: Continue to integrate new features into database.

Obstacles: Not everyone is done adding new features.

### **Usman**

Work done yesterday: The logic to get the date data from the schedule has been implemented.

Work for today: Today I plan on creating the reverse situation possible, bringing in a schedule to Focus, from Google Calendar. The default or automated app selection criteria needs to be built.

Obstacles: There may be a lot of GUI work that needs to be done for this.

### **Forrest**

Yesterday: Found TourGuide - an aptly named library that allows for tutorials inside an app. I played with their sample app and have a workable idea of what I need to do with it.

Today: Implement ½ of the TourGuide stuff.

Obstacles: New framework, but that's nothing new.

### **Cameron**

Work done yesterday: Started to help with testing and completed checkins and documentation.

Work for today: Work further on documentation, make sure everyone is still up to dates. Also help with bug hunting and testing as this is going to take most of our effort at this phase.

Obstacles: None

## **General Information**

Time: 7:00 - 8:00

Location: Leavey Library

Summary: Most of our effort is now focused on fixing existing bugs so that we will be able to have everything polished and complete by the time we have to submit our final project.

## 2.8 Scrum 8

### **Alexina**

Work done yesterday: Finished thorough testing of Focus features.

Work for today: Finish up all testing for Global and Firebase.

Obstacles: None.

### **Patrick**

Work done yesterday: Finished up integrating new features into database.



Work for today: Help Alexina finish testing for database functionality.

Obstacles: None.

### **Usman**

Work done yesterday: The app is able to import google events into the app, although this is still a buggy feature.

Work for today: with the deadline approaching, I plan to fix all the bugs in the calendar - schedule syncing portion. If I have time I will try to add other polish to the app for overall quality.

### **Forrest**

Yesterday: Got through all of the TourGuide stuff except for Timers, TimerCreate, and Notifications. Once those are finished up, should be good to go.

Today: The above. Yay.

### **Cameron**

Work done yesterday: Continue to assist with testing and bug hunting for the final push as well as work on continuing to update the documentation.

Work for today: Help run final tests to ensure that everything is functioning properly and ready to turn in, final updates to documentation, so close!

Obstacles: None

### **General Information**

Time: 6:00 - 6:30

Location: Leavey Library

Summary: We are adding our final updates to the application and finishing up tests. Still some small cosmetic updates at the last minute that shouldn't break anything but will help to polish it up and make sure it is ready to go for the final presentation.

### 3. Sprint Review

Time: 7:00 - 8:30

Location: House on West 28th Street

Summary: The main work that was carried over from the last sprint was some bugs we had for the Google sign-in integration which tied into our database as well as led to a slightly buggy demo. Once we were able to fix that we implemented some new features as well. Our flagship new feature was adding compatibility with google calendars so any schedule you create you have the ability to export into your google calendar. Furthermore, we were also able to polish up the front end and make it look much nicer and more like a professional application hitting the market.

It was clear that we once again greatly improved our efficiency throughout this process. One factor I think was the increase in our meetings really helped to align us better and keep us going in the right direction and keep us focused. Furthermore, getting on top of the bugs we had greatly improved our ability to keep the system running properly.