

Sprint 1 Document

Focus!

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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

- Yesterday I researched SQL to move the data from local storage to an online database.
- Today I'll start making designing the architecture to organize the data
- Switching from the shared preferences to SQL will be a lot of refactoring code.

Patrick

- Yesterday, I worked on understanding SQL and how we planned on moving the database online.
- Today I'll start looking into the JDBC driver class to connect the database to our code
- We will have to change the code to support SQL and no longer rely on shared preferences.

Usman

- Yesterday I researched the tools needed to implement signing in with google into the android application. I now feel comfortable implementing them into the project.
- Today I plan on making the activity for signing in, and design the entire XML layout for this activity.
- From what I read, for this to work in the emulator we all need to have the correct dependencies installed. We will also need to know the location of our debug keystore, which is a file that is required to run the application in debug mode. A separate keystore will be required when the application is ready to release on the app store.

Forrest

- Yesterday I met with the DB team to discuss how we were going to transition from sharedPreferences to SQLite
- Today I'll brush up on my SQL so I'm not useless

- SQL is going to be a rough transition, but it should be doable. There might be an issue with compatibility with the networked functions down the line so I'm going to discuss alternatives with the rest of the group.

Cameron

- I created documentation template so we will be able to quickly update our requirements after meetings.
- Help plan out the architecture with our DB team.
- Possibly combining everything together at the end could be challenging.

General Information

Time: 8:00 - 8:30

Location: Leavey Library

Summary: Most of the team has started working to get the SQL up and running as that will far and away be the most challenging part of this sprint. Usman has begun working on the google sign in and researching what needs to be done for that. Cameron is building the documentation and writing the post meeting summaries.

2.2 Scrum 2

Alexina

- Yesterday, I outlined the tables we wanted for SQL in order to access the data. However, after hearing from the google authentication group, it was brought up that maybe firebase would be easier.
- I will present my tables and discuss with my team about switching the Firebase and the implications behind it.
- I have not had any experience to Firebase and would have to learn how it works.

Patrick

- Yesterday I built a very basic JDBC Driver class for accessing data. I also talked with my team about switching to firebase.
- I will work with the database group to decide whether to switch to firebase or not.
- Switching to firebase would be difficult because my group members and I don't have much experience with it compared to SQL (which i have done in the past).

Usman

- Yesterday I completed the basic layout needed for the login activity. So the part that the user will see is complete, minus some minor tweaking.
- Today I plan on implementing the logic for logging in in the activity itself. This also includes validation of the information, without the part where the database is queried for correct info.

- For the full validation to work, the login activity needs the database to be implemented.

Forrest

- Learned a bit of SQL, but ended up switching to firebase instead
- Start laying out firebase architecture w/ group.
- Using a NoSQL architecture is going to be a bit of a new challenge, but it does suit itself well to the application.

Cameron

- Provided support on SQL activities as well as helped create a timeline and plan for combining technologies together.
- Participated in discussions about switching to firebase and helped align the team to forward our progress.
- New learning curve for using firebase will take some time.

General Information

Time: 9:00 - 9:30

Location: Leavey Library

Summary: The main thing that came out of this scrum was the switch to firebase which we will have multiple team members working on and updating. Everything else progressed as expected.

2.3 Scrum 3

Alexina

- I researched how firebase works to prepare working on implementing it.
- I will work on the architecture part of Firebase and design how the JSON tree should look.
- Starting from scratch is a bit of a setback but I believe we can still work through it.

Patrick

- I looked up the documentation for firebase and tutorials on how it works.
- I will start working on implementing some of the basic functions with the database (specifically writing to the database)
- Learning firebase took some time but I don't see anything in particular blocking up from completing the sprint.

Usman

- The majority of the login logic is complete. Text validation is complete as well, meaning a valid email address is required, and the password cannot be left blank.

- Today I am going to work on the signing up part of the activity. I will have to modify the layout to handle this, so that is what I will do today.
- There is nothing that I can see stopping this sprint from being completed.

Forrest

- Worked on firebase yesterday.
- Pivoting my attention to UI improvements, as my time spent there will better serve the group. Going to fix some timer bugs today.
- As of now, I don't see any issues.

Cameron

- Learned some firebase and changed our schedule to compensate for setbacks from pivoting to firebase.
- Continue to provide support and update our meeting notes and summaries.
- Workload has definitely increased because of the move to firebase but it is still very doable.

General Information

Time: 8:45 - 9:00

Location: VKC

Summary: The core firebase team has started focusing on that heavily. Usman as continued to polish the google sign in implementation and Forrest has moved onto working on the UI bugs. Cameron continues to plug along with the documentation.

2.4 Scrum 4

Alexina

- I finished designing the tree and researched reading from and writing to the database.
- I will help with basic writing to the database for schedule and notifications.
- No, I believe we are on track to finishing the sprint.

Patrick

- I tested writing to the database for profiles and timers and it worked.
- I will communicate with Alexina on writing to the database, and then start working on reading data from the database.
- No, we are doing well at this point.

Usman

- Yesterday I added the layout elements for signing up with a new account.
- Today I will implement the actual logic for a user to sign up with a new account.
- To complete this part, the database will have to be completed. Still very possible, but I cannot fully complete this part until then. I will move on to other parts and come back to this once that is done.

Forrest

- Fixed some timer bugs, and improved the backend a bit.
- Today I'm going to implement a few new delete functions, and again - more cleaning of the UI.
- Nope.

Cameron

- Helped finalize database implementation and testing.
- Assist in regression testing as well as add all the writeup for these meetings to google docs.
- At this time I see no impediments.

General Information

Time: 7:30 - 8:30

Location: House on West 28th Street

Summary: Things are starting to get close to the end implementation of databases are starting as well as testing. We are starting to focus on cleaning up some of the bugs we had leftover from before.

2.5 Scrum 5

Alexina

- I tested writing, updating, and deleting from the database for schedules and notifications and it works.
- I will continue to work on reading data from the database.
- Do I see any impediment that prevents me or the team from meeting the sprint goal?

Patrick

- I worked on reading from the database, but ran into some glitches where the view was not updating when we retrieve data (along with some crashing)
- I will debug the reading errors with Alexina and finish up reading from the database.
- The bug is an issue that I can't figure out but I am confident Alexina will help me work through this.

Usman

- The logic to sign up for a new account is complete and working. The form validates the email, a fullname must be given, as well as matching passwords.
- Today I will implement the ability to login with an existing google account.
- Although I have learned how to implement this feature, I worry about actually implementing this part properly since it is something I have never done before. I know this part has a lot of dependencies and graddle subtleties that I am not an expert in. Hopefully, I can complete this.

Forrest

- Yesterday I implemented schedule deleting.
- Today I'm going to implement profile deleting
- I'm mildly concerned about the backend data association with the users. Also, I'm not sure how I'm going to go about updating the frontend in future sprints - it's all kind of bogged down now. I'll have to figure out some kind of workflow in the near future.

Cameron

- Worked on doing some database testing.
- I will continue to assist with working out some of the kinks with the databases and writing the documentation.

- No

General Information

Time: 8:30 - 8:45

Location: Leavey Library

Summary: Implementation of our database has continued as well as the google sign on which is completed. Finally some new UI features are being added as well.

2.6 Scrum 6

Alexina

- I tested reading from the database for schedules and notifications after fixing the bug with Patrick at the last meeting, and it worked.
- I plan to discuss the integration with google authentication and Firebase.
- It took us a while to figure out reading from the database, and I am slightly concerned for the integration part.

Patrick

- I helped Alexina fix a bug with reading data from Schedules and started collaborating with the google authentication group for integrating the database with logging in.

- I will work with the google authentication team to put user data online and retrieve data for authentication
- Each part works separately and I am confident that we all can work together to string every functionality together.

Usman

- I was able to successfully implement the google sign in functionality, adding the layout elements as well as the logic.
- Today I will ensure that the database logic is properly incorporated with my login activity.
- It seems like all the parts are functioning independently, so I feel confident that there is enough time left to merge them together. This is the only concerning part since I know this can be tricky, as several people are working together.

Forrest

- Finished up delete functionality
- Make notifications launch their associated app from within Focus
- Shouldn't be an issue. The concern from yesterday still stands.

Cameron

- I helped with some final bugs in our project.
- Provide support for combining google sign on with the firebase.

- None

General Information

Time: 9:15 - 9:30

Location: Leavey Library

Summary: Today's the big day where we finally combine Google sign on with the Firebase database. Everything seems to be going smoothly though which is fantastic.

3. Sprint Review

Time: 9:00 - 10:00

Location: House on West 28th Street

Summary: Of the things we planned there were a few we had to push back or scratch. The names on the timers was scrapped completely as the client did not want that feature. We also pushed back deleting multiple notifications at the same time. Early on we realized we had taken on a little too much so in order to deliver a higher quality product we decided to push this feature back to the next sprint. Logging in with google and storing all the data in a backend database was completed and by far took the most effort as we were learning both new technologies as well as combining them with our pre existing app. Finally we were able to add smaller UI features such as deleting profiles and timers as well as cleaning up some pre existing bugs to increase the quality of the application.

One thing that went well was our communication drastically improved throughout this sprint. Everyone was on the same page and the scrums definitely helped with that. This helped us avoid many of the last minute problems we ran into previously which were caused by this lack of communication. One thing I think we could improve on is our initial planning. I think building in a research phase would greatly help build realistic expectations as often early on plans will change based what is discovered during the initial research phase.