

# SCRUM Reports

December 4<sup>th</sup>, 2023

CSCB07H3

Group 11

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## Sprint 1: November 13 — November 26

### November 13

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Summary: Today we held a planning session on our goals and expected challenges for the first sprint
- Goal for Sprint 1: Finish 5 of our 10 user stories
  - Finish 5 of our 10 user stories - one for each member
- Expected challenges for Sprint 1:
  - We are not familiar with GitHub, Android Studio, Android development, Jira, or Firebase
- Planning session for Sprint 1:
  - User stories: Each of us took a turn picking one user story based on our programming strengths. We considered user stories 6 & 8 as one, due to their similarities and the resulting convenience of implementing them together.
    - Soroush: User story 2
      - Since we considered user stories 6 & 8 as one, one group member will be having one less user story
      - Soroush has one less user story but instead, he will create a template UI, teach others how to use the programming software, and be capable of deeply delving into others' obstacles.
        - This also aligns with the goal of the SCRUM Master
    - Jarvis: User stories 1, 6, and 8
    - Hoang: User stories 4 & 7
    - Alex: User stories 9 & 10
    - Tongyu: User stories 3 & 5
  - Learning the software we will be using: We will each learn a subset individually, then teach our teammates
    - Soroush: Jira, Android Studio, Android Development, and connecting GitHub with Android Studio
    - Tongyu, Hoang, and Jarvis: Firebase
    - Alex and Soroush: GitHub
  - Deadlines:
    - November 20: Fully teach each other about the software we need to know
    - November 22: Have a template Android app that will facilitate adding our user stories
      - To be done by Soroush
      - Will consist of a sample login and home page

- November 26: Finish one user story each
- General decisions
  - We chose Soroush as the SCRUM Master due to experience in software development
  - We shared each others' schedules and decided to hold standups every weekday at 8:30 PM.
  - We decided to make Sprint 1 two weeks long and Sprint 2 one week long, because:
    - Each sprint's goal is to implement half the user stories
    - In the first sprint we will need to learn how to use the required software

## November 14

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Share what we have learned about the required software
- Soroush
  - Progress:
    - Set up a sprint on Jira
    - Presented how to create and manage both tasks and sprints on Jira
  - Goal for next standup: Present how XML files are used in an Android Studio project
  - Obstacles: Did not have the required knowledge on GitHub to connect it to Android Studio and Jira
    - Jarvis explained how branches, commits, and pull requests work
    - Alex and Soroush tried to connect Jira and GitHub but the process required installation of software, so we decided not to do this
- Tongyu
  - Progress: Created a firebase account
  - Goal for next standup: Learn how Firebase is used in Java
  - Obstacles: Did not know how to provide access to the database
    - Jarvis and Soroush helped navigate through settings to find the required information
    - Hoang's progress helped address this obstacle
- Hoang
  - Progress:
    - Studied the Model-View-Presenter (MVP) approach and the Firebase demo from Quercus
    - Presented the Firebase demo from Quercus and explained what he learned
  - Goal for next standup: None, had to study for a term test
  - Obstacles: Had trouble finding documentation on Firebase
    - Tongyu provided a helpful website
- Jarvis
  - Progress: Pushed an example Android Studio project from Quercus onto GitHub
  - Goal for next standup: Learn how Firebase is used in our Android Studio project

- Obstacles: Did not know where to find Firebase documentation
    - Tongyu provided a helpful website on how to use Firebase
- Alex
  - Progress: Created and shared a GitHub repository
  - Goal for next standup: Catch up on our discussion about Firebase and Android Studio
  - Obstacles: Could not catch up on Firebase discussion due to internet problems

## November 15

- Participation: Soroush, Jarvis, Hoang, and Tongyu
  - Alex participated asynchronously
- Standup: Share what we have learned about the required software
- Soroush
  - Progress: Presented how XML files are used to represent UI and variables in an Android Studio project
  - Goal for next standup: Catch up on how Firebase is used in Java
  - Obstacles: None
- Jarvis
  - Progress: Read Firebase documentation and the example Firebase app from Quercus
  - Goal for next standup: Push a test app using Firebase to GitHub
  - Obstacles: None
- Tongyu, Alex, and Hoang
  - Progress:
    - Read Firebase documentation and the example Firebase app
    - Hoang and Tongyu shared new relevant documentation on Firebase
  - Goal for next standup: Read into how Firebase stores data
    - Soroush explained what JSON is
  - Obstacles: None
    - Alex could not attend the discussion about Firebase. Soroush will catch him up tomorrow

## November 16

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Incorporating Firebase into Android Studio
- Soroush
  - Progress: Fully read through Firebase documentation
    - Presented information we did not know in the last standup
  - Goal for next standup: Present how to connect Android Studio to GitHub
  - Obstacles: None
- Jarvis
  - Progress: Pushed a test app using Firebase onto GitHub
  - Goal for next standup: Learn how to incorporate the Firebase features the project may require on the test app

- Obstacles: None
- Tongyu, Alex, and Hoang: Asked questions on Firebase documentation

### November 17

- Participation: Soroush, Hoang, and Alex
- Standup: Clarify how Firebase is used in the test app on GitHub
- Soroush
  - Progress: Explained when and which Java files are being run when the Android app is opened, presented some basic functionalities such as Toasts
  - Goal for next standup: Demonstrate how to connect GitHub to Android Studio
  - Obstacles: None
- Hoang and Alex:
  - Progress: Explained how Firebase is being used in Java
  - Goals / obstacles: None

### November 20

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Connecting GitHub to Android Studio
- Soroush
  - Progress: Presented how to connect GitHub to Android Studio
  - Goals for next standup:
    - Begin a template Android app that will facilitate adding our user stories
    - Help Hoang and Alex connect GitHub to Android studio on their devices
  - Obstacles: Did not know how to manage branches
    - Jarvis helped navigate the UI and find the relevant features
- Hoang, Jarvis, Tongyu, and Alex
  - Followed along with the presentation on their devices
  - Obstacles: Login errors
    - Shared their screens to Soroush
    - Some had to use tokens to sign in, while others had to use a username and password
    - Hoang and Alex were not able to successfully connect

### November 21

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Creation of a template Android app that will facilitate adding our user stories
- Soroush
  - Progress:
    - Created a branch for the template UI
    - Presented how Fragments and Activities are used
  - Goals for next standup: Complete the template UI
  - Obstacles: Could not run the app that was previously pushed to Android Studio
    - Jarvis and Tongyu helped walk through the errors
    - Soroush was using an older version of Android Studio

- Hoang, Jarvis, Tongyu, and Alex
  - Progress: Everyone was able to connect GitHub to Android Studio
  - Goals / obstacles: N/A

## November 22

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Discussing a template Android app to facilitate adding our user stories
- Soroush
  - Progress:
    - Completed and presented the template UI
      - Used two fragments for the login page: Logging in and creating an account respectively
      - Login button opened a new activity with different tabs at the bottom, each opening a different fragment
    - Walked through a pull request of the template UI using Android Studio and GitHub
  - Goals for next standup: Begin user story 2
  - Obstacles: Emulators would not connect
    - Jarvis helped troubleshoot the emulators and run configurations
- Hoang, Jarvis, Tongyu, and Alex
  - Progress: Decided which user stories they will aim to complete by the end of Sprint 1
    - Considered if any user stories are prerequisites to others
    - Hoang: User story 7
    - Jarvis: User story 1
    - Tongyu: User story 3
    - Alex: User story 9
    - Soroush helped inform this discussion by explaining how we can anticipate implementing them programmatically
  - Goals for next standup: Read into UI and Java features relevant to their user stories
  - Obstacles: Did not know how to learn advanced UI structure
    - Soroush presented Android Studio's activity and fragment templates

## November 23

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Addressing the technical issues encountered when attempting to start our user stories
- Note: We decided to skip tomorrow's standup (November 24) due to an upcoming term test in STAB52. Everyone's goal for the next standup is to complete a user story.
- Soroush
  - Progress (User story 2):
    - Read into design patterns and chose the Strategy approach for determining POST qualification

- Made sketches for the final UI
  - Added a simple button opening a blank activity from the home screen
  - Presented how to improve organization by placing new Java files into relevant packages
- Obstacles: Some UI templates from Android studio would crash
  - Fixed by modifying theme XML files
- Hoang, Jarvis, Tongyu, and Alex
  - Read into Firebase features required for their user stories
  - Obstacles: Limited knowledge on UI and implementing ideas in Java
    - Soroush shared his thought process on choosing code and UI design

## **Sprint 2: November 27 — December 4**

### **November 27 - Retrospective call on Sprint 1 and Sprint 2 planning**

- Overview of Sprint 1
  - Hoang, Alex, and Tongyu's user stories were transferred to Sprint 2
  - Our approach of assigning team members different software to learn had limitations
    - Despite presenting, everyone was better at the software that they had learned, which introduced reliance on communication. This slowed down our progress since everyone was not always available
  - In setting our deadline for user stories, we did not consider scheduling challenges (such as the aforementioned term test). This made it difficult for everyone to meet the agreed user story deadlines
- Planning Sprint 2
  - We have until the deadline to finish our user stories
  - Goals:
    - Finish our user stories
    - Implement testing
    - Refactor code and improve UI
  - Deadlines:
    - December 3: All user stories should be finished
    - December 4: Implement testing and refactor UI
      - Testing to be done by Jarvis, since he wrote the login module

### **November 27 - Standup**

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Share user story progress and encountered obstacles
- Soroush
  - Progress:
    - Completed Sprint 1 on Jira
    - Completed and presented user story 2
    - Created a pull request for user story 2
  - Goals for next standup: Help teammates with technical issues

- Obstacles: None
- Jarvis
  - Progress: Completed user story 1
  - Goals for next standup: Begin user stories 6 & 8
  - Obstacles:
    - Choosing to create new users in a table directly or by using Firebase's integrated login feature
      - Decided to use the integrated login feature for reliability
- Hoang
  - Progress: Wrote functions to post a basic announcement on Firebase
  - Goals for next standup: Begin a UI and well-designed code
  - Obstacles: Needed help with UI
    - Arranged a call with Soroush for tomorrow
- Alex & Tongyu:
  - Progress: Read into required Firebase features for their user stories
  - Goals for next standup: As much progress as possible in user stories
  - Obstacles: Needed help with UI and writing code to use Firebase

**Note:** Past this point, it became difficult for Soroush to contribute due to worsening post-concussion problems.

#### **November 28 - Soroush's call with Hoang**

- Soroush revised Hoang's code, advising how to refactor it based on SOLID principles
- Soroush helped Hoang choose a fragment template from Android Studio and open it from a home activity using a button
- Soroush helped Hoang visualize how announcements should be structured on Firebase (i.e., fields)
- Soroush helped determine the project's requirements for announcements
- Soroush helped ensure announcements would only be posted if the UI was filled properly (ex. Title text box is not empty) and display Toasts for errors

#### **November 28 - Standup**

- Participation: Soroush, Hoang, Jarvis, and Tongyu
- Standup: Discuss future user story planning
- Soroush
  - Progress: As discussed in first meeting, role from here is to help with UI, Java, and Android Studio problems
    - Derived a plan for structuring announcement/review Java classes
    - Derived which design patterns should be most helpful to consider for each user story
  - Goals for next standup: Learn Firebase better to be able to help more
  - Obstacles: Teammates had learned more about Firebase while working on their user stories, so it was difficult to help.
- Hoang, Jarvis, and Tongyu

- Progress:
  - Revised their programming approaches for their user stories
    - Tongyu and Jarvis learned new helpful Firebase features
  - Began implementing test code to upload the data respective to their user stories
- Goals for next standup: Be able to upload data from UI input rather than hard-coded tests
- Obstacles: Unfamiliarity with accessing UI data from Java code
  - Soroush gave an overview of the methods he learned for user story 2

## November 29

- Participation: Soroush, Hoang, Jarvis, and Tongyu
- Standup: Discuss progress on user stories
- Soroush
  - Progress: Went through Tongyu and Huang's branches to learn how they are using Firebase, and be able to help them better
  - Goals for next standup: Look deeper into ways to refactor Tongyu and Hoang's code according to SOLID principles (as per their requests)
  - Obstacles: None
- Jarvis
  - Progress: Began implementing a UI for user stories 6 and 8
  - Goals for next standup: Complete missing fields for event rating data
  - Obstacles: Needed plan on differentiating student/admin data
    - Soroush shared the idea of connecting user IDs to a table, where there is a field differentiating between admins and students
  - Helped Hoang with UI design, ex. Constraints
- Hoang
  - Progress: Finished writing Java functions believed to be required for user story 7
  - Goals for next standup: Test the Java functions by uploading test data
  - Obstacles: Limited planning on UI design
    - Jarvis and Soroush walked Huang through UI design, ex. constraints
- Tongyu
  - Progress: Read into Firebase features believed to be required for user story
  - Goals for next standup: Upload data from UI rather than hard-coded tests
  - Obstacles: App crashes
    - Soroush shared debugging techniques he used while developing user story 2 (ex. Try-catch blocks that update a TextView with the error message)

## November 30

- Participation: Soroush, Hoang, Jarvis, and Tongyu
- Standup: Discuss obstacles in developing user stories
- Soroush



- Progress: Had a list of suggestions for Tongyu and Hoang to help refactor their code
- Goals for next standup: Be prepared to provide additional help to Tongyu and Hoang for UI design
- Obstacles: Tongyu had significantly rewritten part of his code since yesterday's standup
- Hoang
  - Progress: Was able to use hard-coded test cases, showed a finished UI
  - Goals for next standup: Complete the user story
  - Obstacles: Had an error after deleting a fragment
    - Soroush walked Hoang through safe deletion and the files forming each fragment and activity.
- Jarvis
  - Progress: Completed a pull request on user story 8
  - Goals for next standup: Make progress on user story 6 UI features
  - Obstacles: None
- Tongyu
  - Progress: Rewrote his user story code based on a tutorial on YouTube
  - Goals for next standup: Upload data from UI rather than hard-coded tests
  - Obstacles: Error when uploading a subsequent complaint
    - Soroush helped walk through the errors and find the source. Tongyu was creating IDs based on the user's email, creating a duplicate ID
    - Jarvis showed Tongyu how to create new IDs

## December 1

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Standup: Discussing UI implementation of reviews and announcements
- Soroush
  - Progress: Presented an example of a RecyclerView
  - Goals for next standup:
    - Be able to populate a RecyclerView from Firebase data
    - Keep track of everyone's progress to help with issues that may arise near the deadline
  - Obstacles: None
- Jarvis
  - Progress: Made a pull request where student/admin users were differentiated
  - Goals for next standup: Refactor login module according to MVP approach
  - Obstacles: None
- Hoang
  - Progress
    - Started user story 4
    - Shared a helpful video about Recyclerview
  - Goals for next standup: Complete the user story
  - Obstacles: None

- Alex
  - Progress: Completed his first user story
  - Goal for next standup: Begin user story 10
  - Obstacles: None

### December 3

- Meeting between Soroush, Jarvis, Alex, and Hoang
- Jarvis
  - Made improvements to UI, database queries, and bugs
  - Shared a function to check whether a user is a student or an admin
  - Helped Hoang with querying by date and storing dates
  - Helped Alex with a Recyclerview bug and GitHub issues
- Hoang: Helped teach MVP approach to Jarvis
- Soroush:
  - Helped Tongyu with debugging Firebase and UI bugs
  - Presented a strategy involving making pull requests before work sessions instead of after finishing a goal, so everyone has the most up-to-date version of code they may need from others' contributions

### December 4

- Participation: Soroush, Hoang, Jarvis, Tongyu, and Alex
- Soroush
  - Progress: Finalized the SCRUM report document
  - Obstacles: Required updating on everyone's individual working sessions
    - Shared the document and gave everyone a chance to review and add
- Hoang, Jarvis, Tongyu, and Alex
  - Progress
    - Finishing up last user stories
    - Jarvis finished the testing element
    - Hoang made improvements to his user stories' UIs
  - Obstacles:
    - Hoang encountered a bug with the method being used to check whether a user was a student or an admin
      - Jarvis helped fix the bug
    - Hoang and Alex were having UI layout issues when using new emulators
      - Soroush helped show how to use constraints
- Jarvis helped Alex understand how bindings and activities worked
  - Obstacles: Alex encountered errors with fragments and bindings
    - Jarvis walked through the issue with him