

Sprint 3 Plan

Product name: SmartShift

Team name: None / Same as Product Name

Sprint Completion date: Tuesday, May 23, 2023

Revision number: 1.0 (Release Plan 1.2)

Revision date: 5/9

Scrum Master: Annie

Goal: Learn React Native + Firebase (Prof recommended), set up the development environment, and develop the basic functionality of the app.

Spikes & Resources

❖ Learn React Native + Firebase

- Prof Recommended [Resources](#)
- O'Reilly [library](#) (also prof recommended)
 - <https://learning.oreilly.com/videos/react-native/9781789139747/> (React Native course)
- <https://reactnative.dev/> (React Native)

❖ Collapsible Lists

- <https://blog.logrocket.com/building-react-native-collapsible-accordions/>

❖ React Native Push Notifications

- <https://reactnative.dev/docs/pushnotificationios>

- <https://blog.logrocket.com/react-native-push-notifications-firebase-cloud-messaging/> (React Native push notifications with Firebase Cloud Messaging)
- <https://duckduckgo.com/?q=firebase+react+native+push+notifications&t=ffab&atb=v344-1&ia=web> (search on “firebase react native push notifications”)

❖ Account Set Up

- <https://blog.logrocket.com/email-authentication-react-native-react-navigation-firebase/> (Setting up email authentication with React Native, react-navigation, and Firebase)

Task Listing, organized by user story

User Story 4.0: As a forgetful student, I want to receive notifications before an upcoming deadline to remind me to finish an assignment and when a timer goes off. (1 story points)

1. Task 4.1: Make notifications based on the deadlines on the list(?) (3 hours)
 - a. Ask for permissions from user
 - b. 1 day before the deadline (by default)
 - c. Option to change alarm noise (1 h)
 - i. Put it into a little tab thing under the timer so user can change noise as timer is existing (going down) (like timer page on phone visually)

Done Conditions:

- ➔ User Story 4.0: User can get notification a day before the deadline **when the app is closed**. User can change the alarm noise.

Total for user story 4.0: 3 hours

User Story 5.0: As someone with specific needs or preferences, I want to be able to customize my personal settings for notifications (2 story points)

1. Task 5.1: Make a page allowing users to customize the settings (7 hours total)
 - a. Settings page (2 h)
 - i. Navigation + UI
 - b. Option to toggle notifications for alarm (1 h)
 - c. Option to toggle notifications for deadlines (2 h)
 - d. Option to change work/break timer (how long it is - default settings) (2 h)
 - i. The flow timer page changes temporarily - it's changes may not stick through an app reload and change back to default
 - ii. While the settings will permanently change the default settings that the app pulls timer from. (changes the hardcoded default to a user set new default set in the settings page - ask Liza if need further explanation)
2. Task 5.2: Set user name / icon / profile on a new settings page (3 h)
 - a. Preset set of images to choose icon from for user's own icon
 - b. Ensure that icon image and username are linked to Firebase

Total for user story 5.0: 10 hours

Done Condition:



User Story 10.0: As a student who wants to finish all my tasks before or by a due date I want to be able to prioritize my tasks by due date or some other variable. (5 story points)

1. Task 10.1: Allow users to sort tasks by ascending due date (2 hrs)

- a. <https://stackoverflow.com/questions/51742856/sorting-react-native-flatlist>
 - b. <https://stackoverflow.com/questions/68417736/react-native-sort-array-by-date>
2. Task 10.2: Filter tasks by different criteria (3 hrs)
- a. <https://www.npmjs.com/package/react-native-dropdown-select-list>
 - b. Change Select List to MultiSelect List to allow user to pick multiple categories like (urgent & important)

Total for user story 10.0: 5 hours

Done Condition:



User Story 11.0: As a student who wants to keep track of what I learned, I want to be able to frequently record what I've learned (reflection - when break starts, write what you accomplished during the pomodoro period) so that I can review it later for studying (3 story points)

1. Task 11.1: Add an option for the user to provide feedback/reflection on their past work cycle. (6 hrs)
 - a. Have a button that allows users to finish their “chunk” (which consists of multiple work/break cycles) that navigates to a reflection page
 - b. Each reflection records the date of the chunk, the number of work/break cycles, and the work/break timers for that chunk
 - c. Look at past reflections in the productivity tab.
 - d. Each reflection should store the time and date of the cycles
2. Task 11.2: Allow users to view and interact with reflections on the Productivity Scope page (12 hrs)

- a. User can manually delete individual reflections
- b. Automatically delete reflections that are older than a month
 - i. Additional settings (?): disable auto-delete, allow users to specify different time frames (older than a week/month/year etc.)

Total for user story 11.0: 18 hours

Done Condition:

→ User can

User Story 14.0: As a student who has a workload of varying difficulties and importance, I want a way to assign priority categories to each task in order to come out with an efficient way to tackle my work schedule. (5 story points) - (Actually more like 2 story points)

- 1. Task 14.1: Allow users to mark and unmark tasks as urgent or important / Display this on Task Item (UI)

Total for user story: 2 hours

Done Condition:

→ Allows user to mark a task urgent / important when creating/editing a task which can be visually seen on the task item within the task list

Infrastructure Tasks:

- Merge Sprint 2 code (TEAM)
- Establish Code Style / Standards (TEAM)
- Implement Firebase for Tasks List
- Create & Test Existing Code / User Stories (TEAM)

- Update settings page to reflect new options being introduced

Team Roles

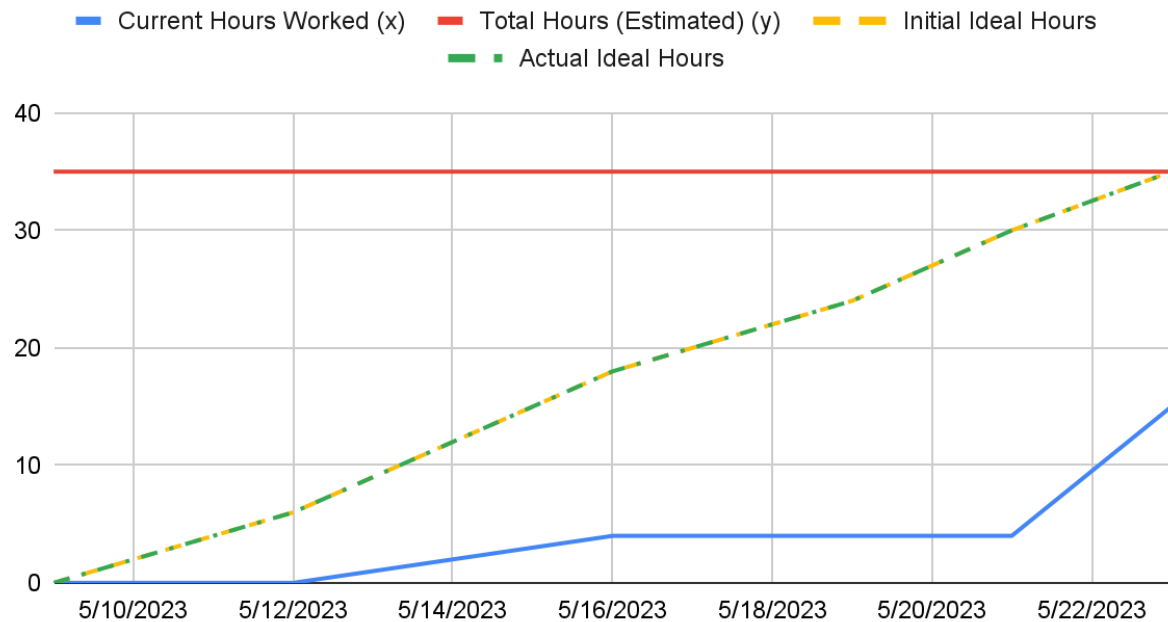
- Clarence: Product Owner
- Liza: Team Member
- Annie: Scrum Master
- Skyler: Team Member
- Christie: Team Member

Initial Burnup Chart

- Graph: (total hours (y-axis) vs. hours actually done so far (as of _ scrum meeting)
(x-axis))

https://docs.google.com/spreadsheets/d/1OXq3PdkAUIwz_ff5_04BCZmLf4Z WV5clJpkSt_DB60c/edit#gid=0

Burnup Chart (Sprint 3)



Initial Scrum Board

Titled user stories	Tasks not started	Tasks in progress	Tasks completed
4.0		Task 4.1 (Christie)	
5.0			Task 5.1 (Skyler) (2 h) Task 5.2 (Skyler) (6 h)
10.0			Task 10.1 (Christie) (2 h) Task 10.2 (Annie) (3 h)
11.0	Task 11.1 (Liza) Task 11.2		
14.0			Task 14.1 (Liza) (2 h)

Infrastructure Tasks:

- Merge (Clarence)

- Establish Code Style / Standards (TEAM)
 - Implement Firebase for Tasks List (Clarence)
 - Create & Test Existing Code / User Stories ()
 - UI Redesign (Liza - Login & Register pages)
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Scrum Times

Even if online you need to have cameras on.

- ★ Tuesday 7:30 pm (In person)
- ★ TA: Thursday 1:50 pm - 2:35 pm (zoom link currently)
- ★ Friday 7:30 pm - Online - Discord
- ★ Sunday 3:00 pm - Online - Discord