Sprint 4 Plan

Product name: SmartShift

Team name: None / Same as Product Name

Sprint Completion date: Tuesday, June 06, 2023

Revision number: 1.0 (Release Plan 1.3)

Revision date: 5/9

Scrum Master: Skyler

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)

- ❖ For Charts in React Native:

  - ➤ https://www.npmjs.com/package/react-native-chart-kit

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. User can get notification when the timer goes

off. User can set if they want to receive notification for the task and when the timer goes off.

Total for user story 4.0: 3 hours

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. Dropped Requirement (no longer necessary): 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:

➔ Users can create a reflection once a pomodoro period/slice is over which saves the date they did the work, along with the time of work period and break period and number of slices they completed in a row. This reflection can be seen in agenda format and is delectable from there.

User Story 9.0: As a goal oriented student, I want an easy way to **set goals for myself and check progress over time**, so that I do not lose focus on achieving the goals. (Goals as in achieve _ time productively working or finish _ tasks over __ time overall) (3 story points)

- Easier if manually input goal & then check off

- Harder to do automatically like a timer based one, if they did __ hours automatically check off the task that asks __ hours worked.

- Make it a subfolder of the Productivity Page: "Daily Goals"

- Same day goals seem simple enough:

    - Day working & hours worked that day variables

        - if same day keep adding hours working

        - Else reset hours working to zero

    -

1. **Task 9.1**: Make a daily goal based on hours (2 hr)

2. **Task 9.2**: Make a daily goal based on tasks (2 hr)

3. **Task 9.3**: Make a daily goal based on # of chunks to work (1 hr)

Total for user story 9.0: 5hr

Done Conditions:

➔ User can set a goal and see how far towards completion of that goal a user is on that specific day (goals reset daily) in a representative pie chart.

User Story 17.0: As a studious student, I want to **work multiple periods of the pomodoro timer**, so that I can do multiple slices of pomodoro periods

1. **Task 17.1**: Button at the end of the break timer that lets a user do another slice of the pomodoro period. (2 hr)

2. **Task 17.2**: Counts the number of slices a user does at one time (in a row). (1 hr)

Total for user story 17.0: 3 hours

Done Condition:

➔ Users can do multiple pomodoro work/break periods in a row, while it is stored how many such periods in a row are done in a 'slices' variable (may not be called 'slices').

Infrastructure Tasks:

- Merge sprint 3 code (Clarence - COMPLETED)

- Establish Code Style / Standards / Run the code formatter (TEAM)

- Implement Firebase for reflections page and other features (Clarence)

- Create & Test Existing Code / User Stories (Skyler)

- Remove unused imports / functions / comment code (TEAM)

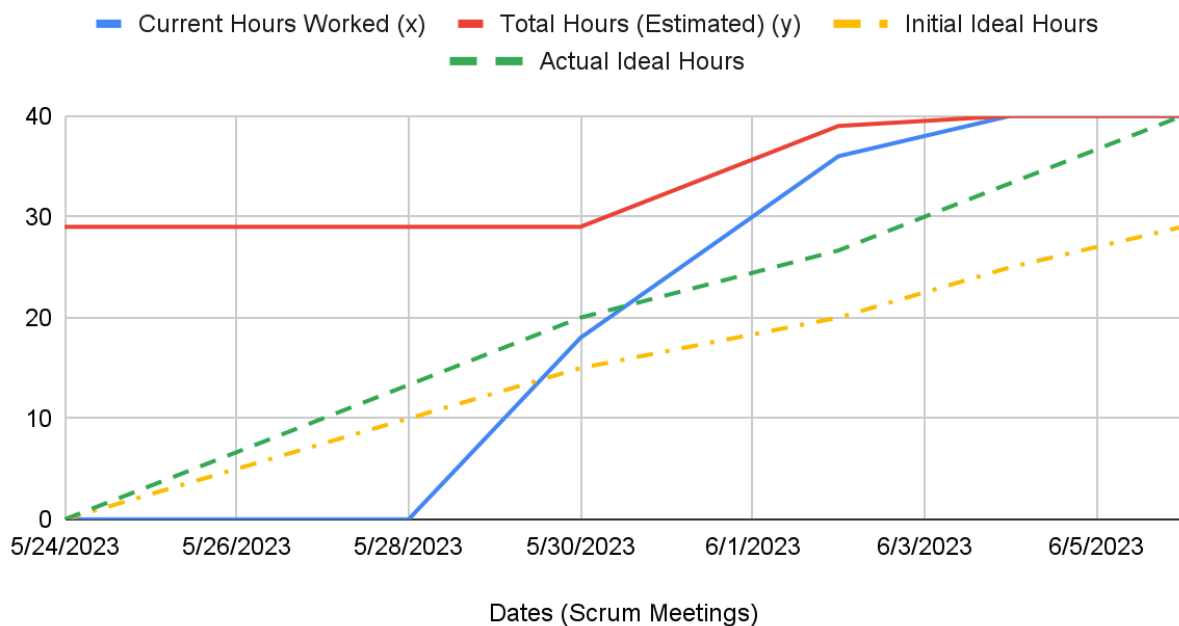Team Roles

- Clarence: Product Owner

- Liza: Team Member

- Annie: Team Member

- Skyler: Scrum Master

- Christie: Team Member

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

https://docs.google.com/spreadsheets/d/1ZkOHuKL6NjPPhoVvx2KiM97FN5Fu9k1zeMF3j44vMYI/edit#gid=0

Burnup Chart (Sprint 4)

Legend: Current Hours Worked (x) — Total Hours (Estimated) (y) — Initial Ideal Hours — Actual Ideal Hours

X-axis: Dates (Scrum Meetings) — 5/24/2023, 5/26/2023, 5/28/2023, 5/30/2023, 6/1/2023, 6/3/2023, 6/5/2023

Y-axis: 0, 10, 20, 30, 40

Initial Scrum Board

Titled user stories	Tasks not started	Tasks in progress	Tasks completed
4.0			Task 4.1 (Christie) (12h)
9.0			Task 9.1 (Clarence) (1h) Task 9.2 (Clarence) (6h) Task 9.3 (Clarence) (3h)
11.0			Task 11.1 (Liza) (9 hours) Task 11.2 (Liza) (6 hours)
17.0			Task 17.1 (Annie) (2 hours) Task 17.2 (Annie) (1 hours)

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<u>Scrum Times</u>

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