

Release Plan 1.3

Product Name: Smart Shift

Team Name: None / Same as Product Name

Product Owner: Clarence

Scrum Master (current): Skyler (Sprint 4)

Team Members: Liza Sokolova, Annie Liu, Clarence Matthew Ortega , Man Ying Ho, Skyler Cao

Release Name: Sprint 2 Release Status

Release Date: 5/9

Revision Number: 1.1

Revision Date: 5/9

Important Note: All documents (Shared Drive) HAS to be shared with assigned TA and other staff. Please do so at once when one is assigned and emails are found.

Current Languages

➤ React + Firebase

Initial Description

- Introduction

- SmartShift is a productivity app that leverages multiple proven methods to maximize productivity, active learning, and reduce burnout. We aim to

differentiate the app from other productivity apps on the market by placing an emphasis on proven productivity techniques, personalization (through the use of machine learning), and data analysis.

- **Key Features**

- **Flow Timer:** SmartShift helps you work smarter with proven timer-based techniques like the Pomodoro Method. Start the Flow Timer when you begin working and take 5 minute breaks every 25 minutes to reduce burnout. Record what you accomplished in the app after each 25 minute chunk to facilitate active learning. Easily customize the timer and try other methods like the 52/17 Rule to find what is best for reducing your burnout and maximizing your active learning.
- **Impact Chart:** Inspired by the Eisenhower Matrix, user's will have the opportunity to sort tasks into 4 categories: "urgent and important," "urgent but not important," "not urgent but important," and "not urgent and not important." This will help users prioritize their tasks and decide how much total time to allocate to each task. Machine learning may also be utilized here: SmartShift could suggest categories for certain tasks, or allocate certain time slots for each category.
- **Data Analysis and ML:** Users can set certain goals for how much work they want to complete, and SmartShift will recommend ways to reach this goal using data analysis and machine learning. For example, if the user consents, SmartShift may access the user's Google Calendar and recommend certain time settings to use in the Flow Timer for each task to maximize success. Additionally, SmartShift provides organized data that the user can look at to see their work ethic patterns

and trends with various Flow Timer configurations. User's would also be able to see how much time they spend on each category of tasks in the Impact Chart!

- **Team Capability:**
- **Organize by classes:**

- **Vision**

- We are hoping to make this into a mobile application, either Android or iOS. We have experience with building complete Android Applications from scratch, but are learning towards making an iOS app to explore a new field of programming.

★ **Product owner: (first priority - MVP (Minimal Viable Product))**

- Individual user experience
 - Own account experience that saves (on own phone)
 - Stretch Goal: (linked sign email or app store (apple id) etc) (especially between devices)
- Fully implementing the Pomodoro Timer
 - Pomodoro default
 - Allows for custom time settings
 - Only account for impromptu tasks; implement coordination with planned tasks and TaskBites after
- Send notifications for timers (Alarms - custom sounds?)
- Then user can write what they did

High Level Goals

A description of the top-level goals for the release. Examples include, for a game: "Be able to play one complete level (but with limitations xx, yy, & zz)," "Have all controller capabilities implemented," "Be able to create levels using a level design tool;" or for the Osric system: "Be able to handle service requests for new and existing customers with access to requests by managers and technicians." These high-level goals may map to a single user story, but more typically will map to multiple user stories.

★ Product owner: (first priority - MVP (Minimal Viable Product))

- Individual user experience
 - Own account experience that saves (on own phone)
 - Stretch Goal: (linked sign email or app store (apple id) etc) (especially between devices)
- Fully implementing the Pomodoro Timer
 - Pomodoro default
 - Allows for custom time settings
- Send notifications for timers (Alarms - custom sounds?)
- Then user can write what they did (to keep track of time usage - data analysis)

★ Additional features/ideas:

- Be able to send notifications to the user whenever the timer is done
- Be able to have a fully functional Timer

- Taskbar between different app features (aka Flow Timer, Impact Chart, Data Analysis and ML, etc.)
- Integrated calendar?
- Prioritization system?
- Suggestion system?
- Introductory survey to figure out what the best style of working style: multiple breaks vs. long stretches of time
- Create timer and at end ask user if they want to continue working or want a break and adapt accordingly
- Fixed tasks?

★ **Stretch goals?:**

- Scheduler / Recommendations for which tasks to do
- Team based timers / schedules

User Stories

#	User Story	Story Points
0.0	<ul style="list-style-type: none"> ● As a {user role}, I want {goal} [so that {reason}]. 	
1.0 [1]	<ul style="list-style-type: none"> - As student who needs help managing time, I want a pomodoro timer to keep me on track and give me break times. 	2
2.0 [1]	<ul style="list-style-type: none"> - As a student who sometimes wants to keep working through a break time, I want the option to customize my pomodoro timer or skip past break times to keep working on a task. 	2
3.0 [2]	<ul style="list-style-type: none"> - As a student who wants to access my account via different devices, I want to login with my email/phone 	5 (tie it like website of

	number.	sign in with email)
4.0 [2]	- As a forgetful student, I want to receive notifications before an upcoming deadline to remind me to finish an assignment.	1
5.0 [2]	- As someone with specific needs or preferences for notification, I want to be able to customize my personal settings for notifications .	2
6.0 [2]	- As a student with multiple tasks to do, I want a way to keep track of all these tasks and add them to a list as well as mark them complete as I finish them.	5
7.0 [4]	- As a student who gets overwhelmed by large assignments, I want a way to break my tasks down into smaller tasks so that I can manage them more easily <input type="checkbox"/> Big task (due date) <input type="checkbox"/> sub task (no due date) <input type="checkbox"/> sub task (no due date)	8
8.0 [2]	- As a student I want to keep track of things that I've completed already. - Difference b/w task being marked complete (still stored) and it being deleted from memory entirely	2
9.0 [4]	- 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 (b/c it probably needs own page display)
10.0 [3]	- 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 (assume variables we're sorting by are implemented in this task also)
11.0 [3]	- 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 (Separate reflection w/ total timer)

	- Can reflect by percentage too (of I completed % of task in this period)	
12.0 [4]	<ul style="list-style-type: none"> - As a student who is trying to fix my work habits, I want a way to easily see my work trend history so that I can pinpoint areas of growth - (work time vs. break time in total time spent) - (how much work (tasks) complete in total time spent) 	5
13.0	- As someone who wants to manage a group project, I want a collaborative organizational tool that allows me to easily assign tasks to members and track overall progress .	13
14.0 [3]	<ul style="list-style-type: none"> - 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. - Categorize tasks (Customized categories - also some tasks might not have deadline but are important) 	5
15.0 [4]	- As someone who typically gets motivated by the productivity of others, I want a way to compare productivity with my friends complete so that I can be inspired to work as hard as them	8
16.0	<ul style="list-style-type: none"> - As a student working on a large assignment, a system that recommends due dates for subtasks based on the due date of the larger task would be helpful for visualization. - In the same vein, customizing due dates for subtasks? 	21

Prioritized List of User Stories

01. Sprint 1: (~7 per person + 4 story points)

- a. Spikes: Learning React + Firebase (~2 story points per person)
- b. Infrastructure: Set up development environment (~2 story points per person)
- c. User Story 1.0: As a student who needs help managing time, I want a **pomodoro timer** to keep me on track and give me break times. (2 story points)

- d. User Story 2.0: As a student who sometimes wants to keep working through a break time, I want the option to **customize my pomodoro timer or skip past break** times to keep working on a task. (2 story points)

02. Sprint 2: (~2 per person + 21-2 story points)

- a. Spikes: Learning React + Firebase (~2 story points per person)
- b. User Story 3.0: As a student, I want to **access my account via different devices**. (5 story points)
- c. User Story 4.0: As a forgetful student, I want to **receive notifications before an upcoming deadline** to remind me to finish an assignment. (1 story points)
- d. User Story 5.0: As someone with specific needs or preferences for notification, I want to be able to **customize my personal settings for notifications** (2 story points)
- e. User Story 6.0: As a student with multiple tasks to do, I want a way to **keep track of all these tasks and add them to a list** as well as mark them complete as I finish them. (5 story points)

03. Sprint 3: (~2 per person + 15+2 story points)

- a. Spikes: Learning React + Firebase (~2 story points per person)
- b. User Story 5.0 (Started Sprint 2 continuing Sprint 3): As someone with specific needs or preferences for notification, I want to be able to **customize my personal settings for notifications** (2 story points)
- c. 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)

- d. 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)
 - e. 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. Can reflect by percentage too (of I completed % of task in this period) (3 story points)
04. Sprint 4: (~2 per person + 16 story points)
- a. Spikes: Learning React + Firebase (~2 story points per person)
 - b. User Story 12.0: As a student who is trying to fix my work habits, I want a way to easily **see my work trend history** so that I can pinpoint areas of growth (5 story points)
 - c. 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)
 - d. User Story 17.0: As a studious student, I want to **work multiple periods of the pomodoro timer**, so that I can do multiple chunks of pomodoro periods (3 story points)

Sanity Check

☐ Is the plan within the team's capacity?

☐ YES

☐ Given what you know about your team's capabilities at this point, is the the total amount of work doable (add up the story points for all user stories and compare with the team's capacity).

☐ We think this is relatively good in terms of distribution (though ambitious at times, especially with our already existing product backlog.

☐ Is the work distribution across sprints reasonable?

☐ Mostly

☐ Did you allow for time spent on infrastructure tasks and spikes?

☐ Yes

☐ Holidays?

☐ Maybe?

☐ Midterms?

☐ Haven't currently compensated for it.

Product Backlog

- ❖ User Story 13.0: As someone who wants to manage a group project, I want a **collaborative** organizational tool that allows me to easily **assign tasks to members and track overall progress**. (13 story points)

- ❖ User Story 16.0: As a student working **on a large assignment**, a system that **recommends due dates for subtasks based on the due date of the larger task** would be helpful for visualization. (21 story points)
- ❖ User Story 7.0: (ATTEMPTED Sprint 2 - moved to backlog after) As a student who gets overwhelmed by large assignments, I want a way to **break my tasks down into smaller tasks** so that I can manage them more easily (8 story points)
- ❖ User Story 15.0: As someone who typically gets motivated by the productivity of others, I want a way to **compare productivity with my friends complete** so that I can be inspired to work as hard as them (8 story points)