

# Sprint 3 Schedule

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## Introduction

This is the document used to prioritize which subtasks must be completed first in each of the user stories. It helps us identify which subtasks have room for individual troubleshooting, and which ones require immediate team help if there is a block / ones that cannot be delayed at all. As developers, it essentially lets us know how we should be handling each of our assigned user stories.

We have two additional developer stories/chores this sprint, [PP-68] and [PP-69]. Although they are not user stories, their implementation does influence the final product release, so they have still been assessed for Critical Path. The first includes a number of minor fixes on our widget components in the app based off TA feedback from the Sprint 2 demo. This developer story also includes refactoring class components into functional components, and some other general code clean-up optimizations. The latter developer story associates Tasks and Notes to a user by their email address in lieu of implementing redux. This authorization enables Task Lists, Projects, Notes, Notifications, and point accumulation to function as intended. Thus, both developer stories are a requirement for the app itself to work properly.

Note that the “Earliest Finish” for each user story is denoted by the **EF** tag to the right of the table at the corresponding subtask row.

## Design Decisions

The idea behind not using the JIRA Ticket Number as the Subtask ID itself is that  $a \rightarrow b \rightarrow c \rightarrow d$  etc. flow in alphabetical order, reflecting the logical order of subtasks that the developer will likely tackle in. The JIRA Ticket Number on the other hand may have non-increasing numbers depending on the time they were created, which could potentially confuse the reader if it was also the Subtask ID.

While not shown because the information is readily available in sprint3.md and JIRA itself, the Criteria of Satisfaction for each User and Developer Story was used to determine the true end state of the respective critical path.

Note that the time estimates for each subtask are dependent on the specific developers responsible. Everyone codes and learns new technologies at a different rate.

## Jira Stories and Critical Paths

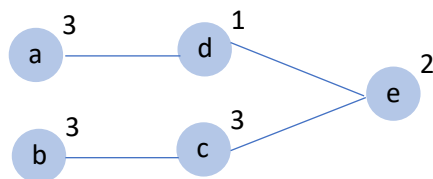
### User Story 4

[PP-4] As Lisa, a basic user, I want to group large tasks into projects with multiple smaller tasks in it, to better categorize my tasks.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-73]	Design/build the frontend card component, with title, and progress bar.	3	none	✗
b	[PP-74]	Design/build the modal where you can view subtasks and more details about a project.	3	none	✓
c	[PP-75]	Add editing/update functionality to the modal to allow for adding subtasks/changing the project name.	3	b	✓
d	[PP-76]	Add button to create new projects	1	a	✗
e	[PP-77]	Add backend functionality so all the users work gets saved.	2	c, d	✓

EF

Network Diagram:



**Critical Path:**  $b \rightarrow c \rightarrow e$ . Note that **a** and **b** can be worked on simultaneously, as they have no dependencies. Both **d** and **c** share the same fate.

**Total Time:** 8 hours. We take the bottom route to **e** as the top route will not allow for simultaneous completion of **c** (3 hours vs. **d**'s 1 hour).

### User Story 9

[PP-9] As Treyvon, an average user, I want to be able to accumulate points for completing tasks so I can use them to buy cool widgets/addons.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-71]	Implement backend.	4	none	✓
b	[PP-72]	Implement frontend.	3	a	✓

EF



**Critical Path:** a → b.

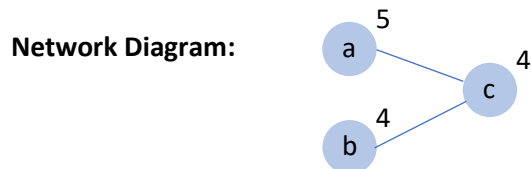
**Total Time:** 7 hours.

### User Story 10

[PP-10] As Treyvon, an average user, I want to be able to spend my accumulated productivity points on different addons or features in a feature store, so I can customize my planner and stay motivated to complete more task.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-84]	Front-end store page layout with multiple widgets.	5	none	✓
b	[PP-85]	Back-end points adjustment	4	none	✗
c	[PP-86]	Reflect widget purchases in the UX (usable)	4	a, b	✓

EF



**Critical Path:** a → c. Widgets purchased will need to both update the store itself (grey-out the option to buy if owned), as well adjust backend points at time of purchase.

**Total Time:** 9 hours.

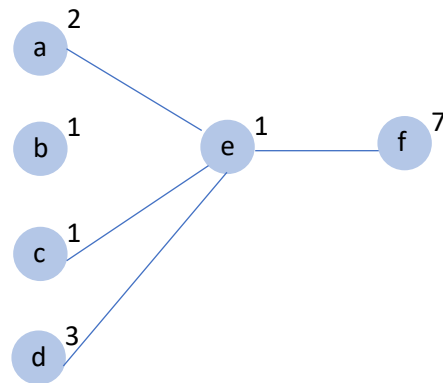
## Developer Story 68

[PP-68] As a developer, I want to refine the calendar, task dates, and Pomodoro timer with minor demo feedback changes. I also want to refactor class components into functional ones.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-78]	Styling the Task Scheduler Calendar	2	none	✗
b	[PP-79]	Human-readable date format	1	none	✗
c	[PP-80]	Pomodoro Timer slider labels	1	none	✗
d	[PP-81]	Task deletion backend	3	none	✓
e	[PP-87]	Refactor the minor/extensive components' styling into inline/CSS files styling respectively.	1	a, c	✓
f	[PP-88]	Refactor the class components into functional components.	7	e	✓

EF

### Network Diagram:



**Critical Path:**  $d \rightarrow e \rightarrow f$ . As the developer story is regarding miscellaneous clean-up, **a**, **b**, **c** and **d** have no dependencies and can therefore be worked on simultaneously. **f** is dependent on **e** because any styling within the components will need to be adjusted for the class to functional conversion. **e** relies on **a** and **c** because both include additional styling changes that will need to be accounted for in the refactoring of styling across all components to either inline or CSS files.

**Total Time:** 11 hours. This is because **a**, **b** and **c** can be worked on and completed at the same time as **d**.  $(3 + 1 + 7 = 11)$ .

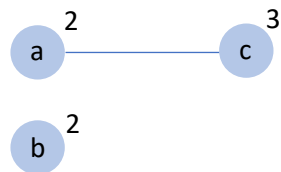
## Developer Story 69

[PP-69] As a developer, I want to associate Tasks and Notes to a User by their email address, and reflect this authorization in Notifications.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-89]	Associate Tasks with email address	2	none	✓
b	[PP-90]	Associate Notes with email address	2	none	✗
c	[PP-91]	Implement Tasks authorization in Notifications	3	a	✓

EF

Network Diagram:



**Critical Path:** a → c. **b** can be worked on simultaneously as **a**, as neither have dependencies. Notifications requires pulling the tasks of the current user, so **c** is dependent on that authorization being implemented in **a**.

**Total Time:** 5 hours.