Sprint 2 Schedule

Table of Contents

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-44] and [PP-46]. As they are not user stories, and their implementation does not influence the final product release (i.e. it can still be completed without them), they have not been assessed for Critical Path. However, this is not to be confused with considering them of minor importance. Configuring a redux to store a global state, as well as setting up TypeScript data models are absolutely essential to readable, organized, and manageable code. The redux also makes a lot of the coding significantly easier for the rest of the team.

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 → b → c → 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 sprint2.md and JIRA itself, the Criteria of Satisfaction for each User 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.

User Stories and Critical Paths

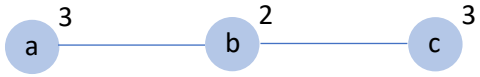
User Story 5

[PP-5] As Lisa, a basic user, I want to schedule tasks in advance so that I can plan future events/to-do's up to a year ahead.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-60]	Make the task due date optional.	3	none	✔
b	[PP-61]	Add support for datetime filters on Task API endpoints.	2	a	✘
c	[PP-62]	Cleanup/redesign React TaskList (i.e. the date picker).	3	b	✘

EF

Network Diagram:



Critical Path: a. Note the user's needs in this User Story can be satisfied without subtasks **b** and **c**.

Total Time: 3 hours.

User Story 6

[PP-6] As Lisa, a basic user, I want to reschedule tasks so that if I don't complete them, I can include them in my next plan.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-63]	Create the front-end component for rescheduling.	2	none	✔
b	[PP-64]	Implement the back-end.	5	a	✔

EF

Network Diagram:

Critical Path: a → b.

Total Time: 7 hours.

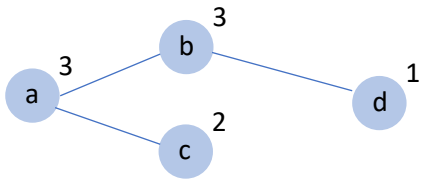
User Story 18

[PP-18] As Aayan, a power user, I want a built-in pomodoro timer to help me work, as this way I can schedule a cycle of controlled breaks amongst my productivity bursts to prevent burnout and better hold my focus.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-66]	Create the front-end component for rescheduling.	3	none	✔
b	[PP-65]	Implement the back-end.	3	a	✔
c	[PP-55]	Styling the component.	2	a	✘
d	[PP-67]	Points allocation.	1	b	✘

EF

Network Diagram:



Critical Path: a → b. Note that the user's needs in this User Story can be met without styling or points allocation.

Total Time: 6 hours.

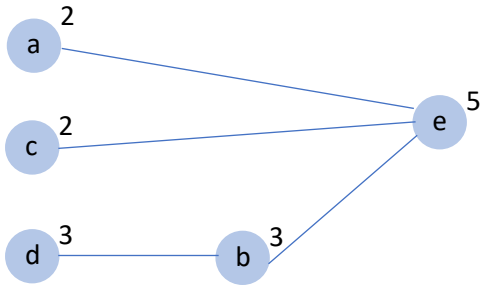
User Story 23

[PP-45] As Lisa, a basic user, I want to intuitively understand the main dashboard layout, have easy access to my notes/projects, and see the widgets I care about right away.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-47]	Add tabs to the left side of the screen.	2	none	✗
b	[PP-48]	Add the widgets column to the right side of the screen. Place widgets here.	3	d	✓
c	[PP-49]	Add a notes page with the notes bar.	2	none	✗
d	[PP-50]	Create template pages for analytics, settings, and widget store.	3	none	✓
e	[PP-51]	Layout the main dashboard of the app.	5	a, b, c	✓

EF

Network Diagram:



Critical Path: d → b → e. Note that **b** is reliant on **d** because setting up the template widgets in the widget store page will determine which widgets will become available to place in the sidebar on the main dashboard page.

Total Time: 11 hours. This is because even though **e** is reliant on **a** and **c** for completion, they can be worked on simultaneously.

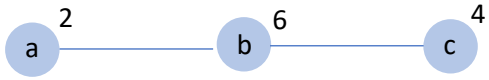
User Story 13

[PP-13] As Aayan, a power user, I want to be able to add a music player widget to the planner so I can quickly turn on music to help me focus.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-56]	Research on how to create/start the component.	2	none	✔
b	[PP-58]	Implementing the audio player (front/back-end)	6	a	✔
c	[PP-59]	Testing the component for full functionality.	4	b	✔

EF

Network Diagram:



Critical Path: a → b → c. Each subtask is dependent on the previous, meaning a linear workflow.

Total Time: 12 hours.

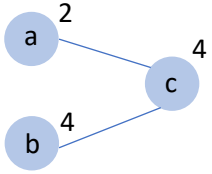
User Story 14

[PP-14] As Lisa, a basic user, I want to be notified of important tasks coming up, so I don't miss them and can plan in advance.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-52]	Setting User Node attribute for storing a list of dates.	2	none	✘
b	[PP-53]	Creating the front-end pop-up notification.	4	none	✔
c	[PP-54]	Merging notifications with Do Not Disturb feature, so user can control when they are thrown.	4	a, b	✘

EF

Network Diagram:



Critical Path: **b**. Note the User Story is satisfied with the completion of **a** and **b** themselves. Earliest Finish cannot be **a**, as it leaves no time for **b**.

Total Time: 4 hours, since **a** and **b** can be worked on simultaneously.

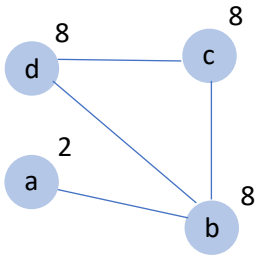
User Story 21

[PP-21] As Aayan, a power user, I should be able to turn on a do not disturb mode, to help tune out distractions while I work.

Subtask ID	JIRA Ticket Number	Task Description	Estimated Time (hrs.)	Dependencies	Required for Critical Path?
a	[PP-25]	Research how turning on do not disturb works	2	none	✔
b	[PP-39]	Create front-end pop-up notification.	8	a	✔
c	[PP-40]	Implement DND back-end.	8	b, d	✔
d	[PP-43]	Making Clock Component with React	8	none	✘

EF

Network Diagram:



Critical Path: a → b → c. The User Story description can be satisfied without **d**.

Total Time: 10 hours, since **c** and **b** can be worked on simultaneously.