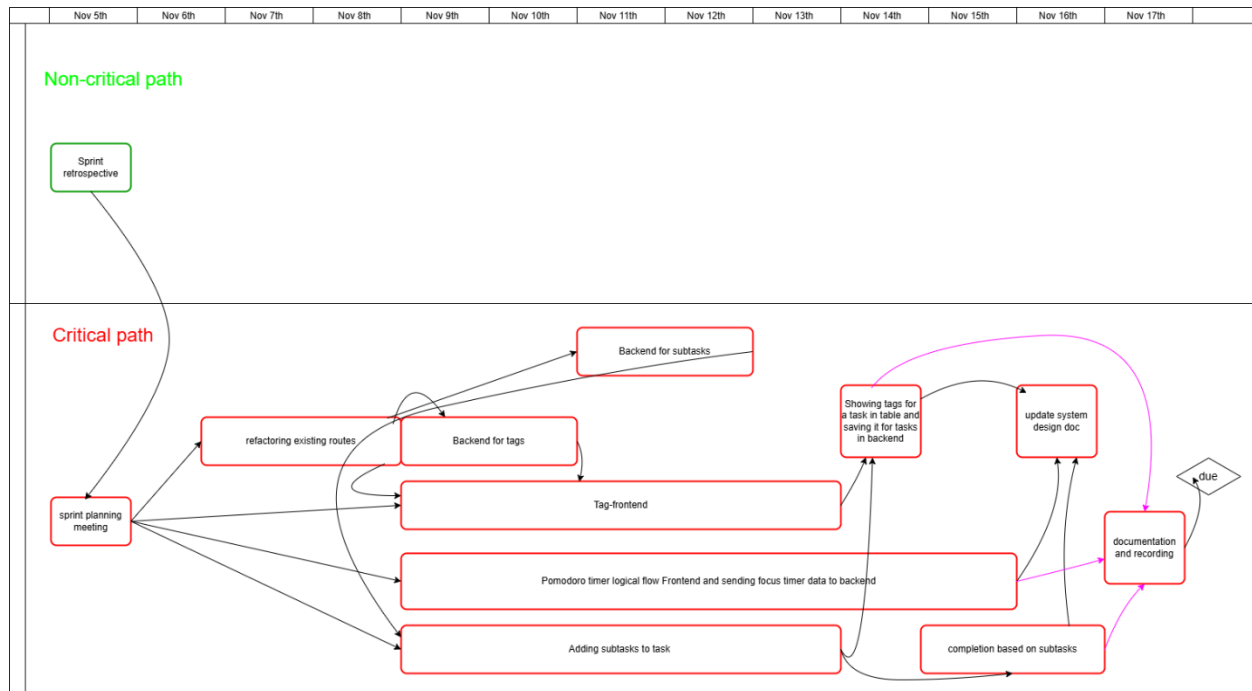


Schedule:

Critical path



To create our schedule, we first started by identifying dependencies and considering parallel work for portions of features that do not depend on each other.

We knew we needed to do the sprint retrospective and the sprint planning meeting in 1 day and since we started on Tuesday, we decided to dedicate that day for handling those meetings. Sprint retrospective and sprint planning are the first dependencies as we cannot start working on any features without these meetings.

We know that refactoring existing routes needs to be the first thing we do for the backend as the backend for tags and subtasks depends on the refactored routes. So, we decided to put that as the first tag and allow until November 8<sup>th</sup> considering the team had less time during the week.

On November 9<sup>th</sup> we would be able to start working on multiple tasks simultaneously. These tasks being:

- The backend for tags (it was necessary to do the backend for tags first as the backend for tasks and study sessions need the tags as a parameter as well)
  - This task depended on refactoring of existing routes
  - We gave this task 2 days.
- The tag frontend

- This task depended on the backend for tags. Although the member responsible for this tag started working on it on November 9<sup>th</sup> to develop the component on the frontend. It could not be fully implemented without the backend being done.
- we gave this task 5 days as to allow for integrating with the backend and debugging.
- Pomodoro timer logical flow Frontend and sending focus timer data to backend
  - This task depends on the refactoring done on existing routes as the end points for this task exist, but they are not refactored if not for the refactoring task.
  - We gave this task 6 days to account for considering and addressing all the edge cases as there seemed to be quite a few of them.
- Adding subtasks to tasks
  - This task is dependant to the backend for subtasks which does not start getting implemented until the 11<sup>th</sup> after the backend for tags(since we had too many frontend heavy features we decided to give all backend tasks to one team member.) so to account for the time required to address the backend changes we had to give this task more time but our team member did start working on the frontend components needed on the 9<sup>th</sup>.
  - We gave this task 5 days to account for the time needed to integrate with the backend.

On November 11<sup>th</sup> we would start working on:

- Backend for subtask
  - This task is dependant on refactoring existing routes and we need this task done to be able to finish the subtasks feature
  - We gave this task 2 days to allow enough time for the subtask frontend to integrate with the backend.

On November 14<sup>th</sup> we would start working on:

- Showing tags for a task in the table and allowing tasks to have tags assigned to them when creating them
  - This was a part of adding subtasks but since we depended on
    - the tag frontend being done
    - The backend for subtasks being done
 we decided to mention this task separately to show how it depends on the tag feature being completed

- We gave this task one day as the component was already ready and we just needed to update the backend calls

On November 15<sup>th</sup> we would start working on:

- Completion percentage based on subtasks
  - This task depends on the adding subtasks to a task feature, so we needed to wait for that feature to be completed
  - We gave this task 2 days to make sure we address any possible bugs as well

On November 16<sup>th</sup> we would start working on:

- Updating the system design document
  - We wanted to be able to go over our document to make sure there is nothing about this sprint that we had not added to our system design document
  - We decided to do this on Saturday before the due date

On November 17<sup>th</sup> we would like to do:

- Documentation and recording
  - We wanted to add any missing documentation and record our video for this sprint on the 17<sup>th</sup>

**To keep our sprint in schedule we need to make sure our tasks fall within the allotted time of the sprint and to do that:**

- we made sure to do tasks in parallel as much as possible so that we get more done in the same amount of time
- because of how heavy the frontend work for this sprint was, we decided to have 4 team members working on frontend features so we can have them moving in parallel with our one team member working on the backend.
- We made sure to allot time for possible debugging if we presumed a task could cause issues or bugs because of its features
- We made sure that our allotted tasks with their ideal time would fit in the sprint schedule and we can be done with them before the due date, and we can update the documentation as needed before our submission.

Based on the schedule, our calculation of the critical path tells us that we need 2 weeks to be able to complete these tasks in a way that the team can manage, and we should be able to deliver all the tasks mentioned in the diagram by the end of sprint 2.