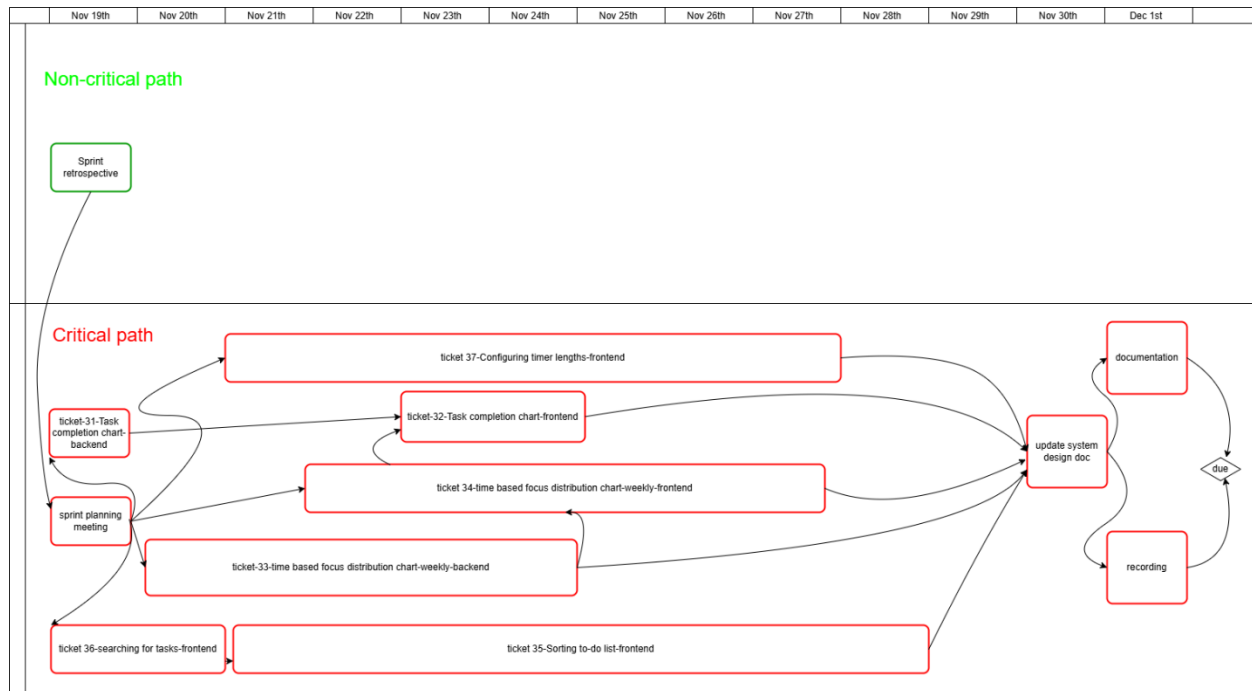Schedule:

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 started first by handling the sprint retrospective and the sprint planning meeting in 1 day 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.

On November 19th after the meetings two of our team members had the time to be able to work on their tasks. The tasks being:

- ticket-31-Task completion chart-backend
  - this did not have a dependency but is a dependency for "ticket-32-Task completion chart-frontend" so the sober it could be addressed the better for addressing the other ticket.
  - We gave this task 1 day

- ticket 36-searching for tasks-frontend

Schedule:

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- ticket-31-Task completion chart-backend
  - this did not have a dependency but is a dependency for "ticket-32-Task completion chart-frontend" so the sober it could be addressed the better for addressing the other ticket.
  - We gave this task 1 day

- ticket 36-searching for tasks-frontend

- This ticket does not have a dependency but since one member will work on this ticket and "ticket 37-Configuring timer lengths-frontend" it was better to start the easier ticket as soon as possible

- We gave this task 2 days

On November 20th the day after the meeting we could start working on:

- ticket-33-time based focus distribution chart-weekly-backend

  - This task does not have a dependency, but it is a dependency for "ticket 34-time based focus distribution chart-weekly-frontend" to work
  - We gave this task 5 days.

On November 21st and onwards we would be able to start working on multiple tasks simultaneously. These tasks being:

- ticket 35-Sorting to-do list-frontend

  - this ticket depends on "ticket 36-searching for tasks-frontend" because the same member would be doing both tickets

  - this task could have a lot of edge cases, so we gave this task 8 days.
- ticket 37-Configuring timer lengths-frontend
  - this task does not have any dependencies
  - we gave this task 7 days to make sure we can achieve the style that we want.

On November 22nd we would start working on:

- ticket 34-time based focus distribution chart-weekly
  - this task depends on "ticket-33-time based focus distribution chart-weekly-backend" for the backend but we could start on the frontend earlier.
  - We gave this task 6 days

On November 23rd we would start working on:

- ticket-32-Task completion chart-frontend
  - This task depends on "ticket-31-Task completion chart-backend "which should be done before it and it also needs some setup work done by "ticket 34-time based focus distribution chart-weekly-frontend"
  - We gave this task 2 days

On November 30th 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.

On December 1st we would:

- Updating any documentation
  - We wanted to make sure that we have all our documentation done and available on GitHub.
  - We decided to do this on Sunday before the due date
- Recording our demo
  - We decided to do this on Sunday before the due date

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:

- Because of our teammates other responsibilities and assignments, we did start more tickets in the first week and we allowed for more time than usual to make sure no one is feeling rushed without it affecting the other tickets.
- We made sure to leave some time at the end to test everything together to make sure they all work as expected.
- we made sure to do tasks in parallel as much as possible so that we get more done in the same amount of time
- 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 3.