



This network diagram illustrates the tasks in our trello, their due dates as well as flows and dependencies.

Critical Path

The critical path has length 2, and includes the following sequences

1. **S20-1.1 → S20-10, S20-9 → S20-10**
 - We must know the user location and spot locations to be able to sort our list, hence they are prerequisites.
2. **S20-4 and S20-5 → S20-7 OR S20-10 → S20-7**
 - We must have the map and the locations of each spot to be able to put the pins on the map.

Key Observations

1. **Dependencies:**
 - S20-1.1 must be completed on time for S20-10 to start on 28/11.
 - Any delay in S20-1.1 will cascade down the line, affecting S20-7 and, ultimately, the project completion date.
2. **Parallel Tasks:**
 - Tasks like S20-9 (updating the database) and S20-4/S20-5 (interactive map) are non-critical. These can be executed simultaneously to utilize resources effectively.

Ensuring the Sprint Stays on Schedule

To avoid delays and adhere to the planned dates:

1. **Strict Monitoring:**

- Daily check-ins to track progress for S20-1.1, S20-10, and S20-7, as they are on the critical path.
 - Assign a specific owner for each critical task to ensure accountability.
2. **Overlap Work for Non-Critical Tasks:**
- Start S20-4/S20-5 and S20-9 early in parallel to S20-1.1 to avoid resource idle time.

Summary

- Timely completion of critical tasks is essential, and parallelizing non-critical tasks ensures optimal resource utilization. Effective monitoring, risk management, and early testing helped us keep the sprint on schedule and meet the sprint deadline.