Network Diagram

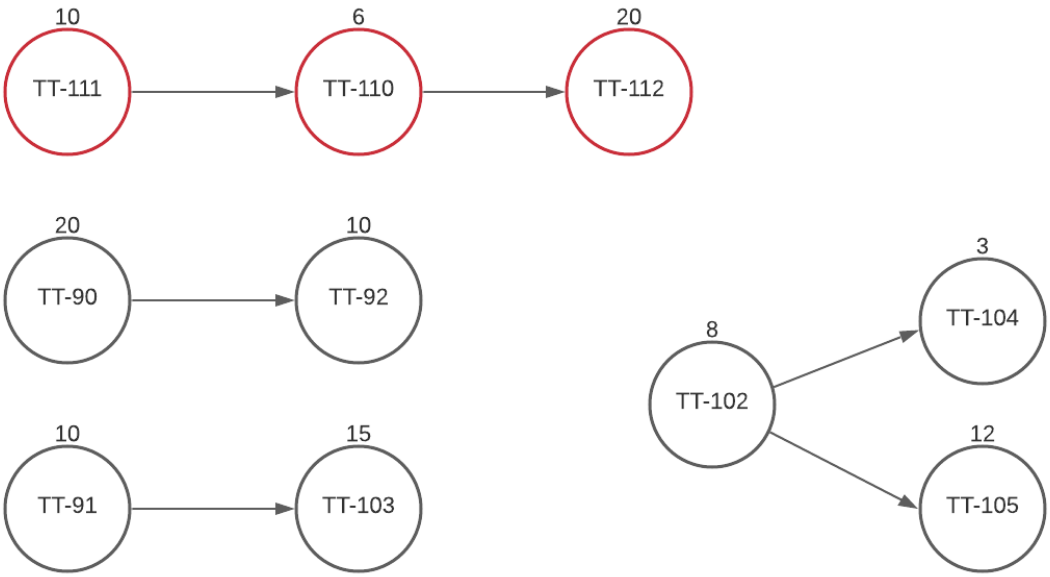

Figure 1: Network Diagram with Critical Path Outlined in Red

This network diagram illustrates the dependencies between sprint 3 tasks. The ticket number of the task on JIRA is indicated within the node. The number on-top of the node represents the time in hours the task is estimated to take. The critical path is outlined in red. An edge from A->B indicates that task A must be completed before task B can be started. Tasks not included in the graph have no dependencies and can be completed in parallel with the other tasks. Each connected component represents a user story with the nodes within the component representing tasks for the user stories. Note that user stories can be completed in parallel as indicated by the separation between the connected components.

This graph has a much less complicated structure than the graph presented in sprint2. There are not too many task dependencies and thus more parallelism can be achieved in this sprint compared to sprint2. Furthermore, this sprint contains many user stories with fewer tasks compared to sprint2 which had fewer stories with many tasks. Thus, many stories were assigned to be completed in their entirety by a single person since they are small and manageable. This reduces collaboration overhead and efficiency since a single person can take care of the dependencies introduced in their user story without having to collaborate with someone else.