

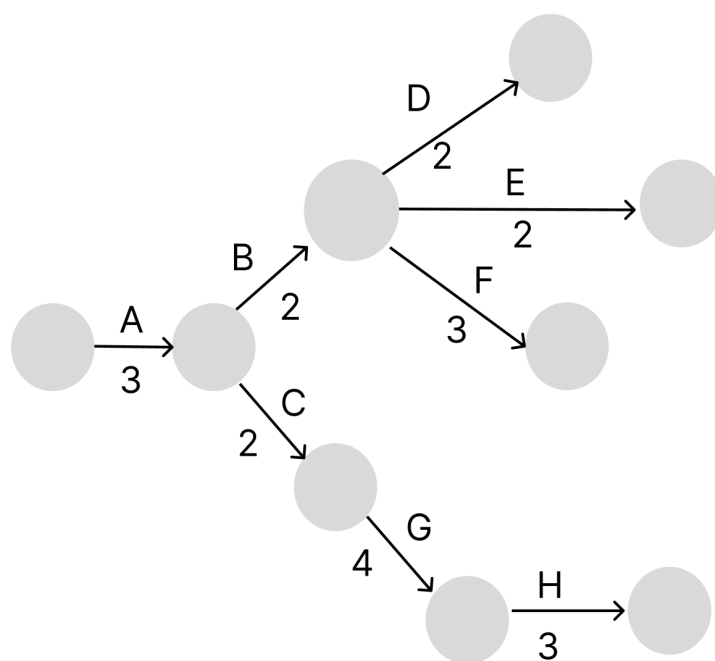
Sprint 2 Network Diagram

Legend

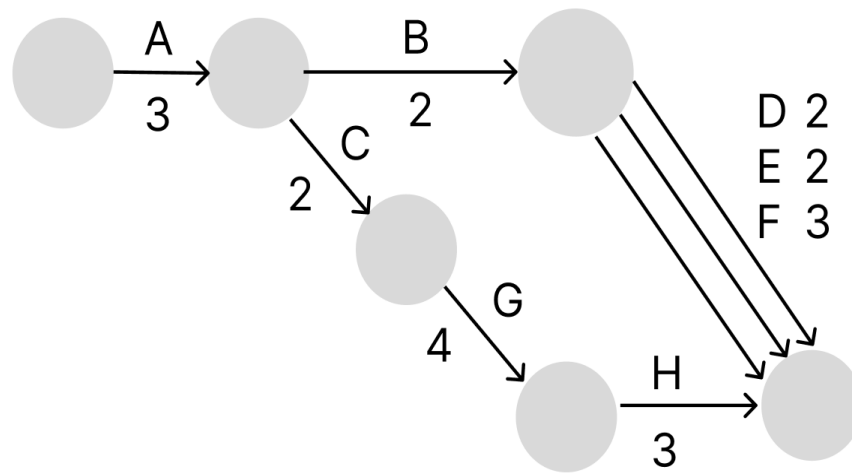
Activity	Predecessor	Duration
A=COB-2		3 days
B=COB-23	COB-2	2 days
D=COB-28	COB-23	2 days
E=COB-14	COB-23	2 days
F=COB-3	COB-23	3 days
C=COB-7	COB-2	2 days
G=COB-8	COB-7	4 days
H=COB-24	COB-8	3 days

Pre-diagram

As we can see the network diagram on the upper half has 3 free nodes. To reduce the use of dummy nodes we will connect the 3 edges towards the bottom half.



Final-diagram



$$A \rightarrow B \rightarrow D \Rightarrow 3 + 2 + 2 = 7$$

$$A \rightarrow B \rightarrow E \Rightarrow 3 + 2 + 2 = 7$$

$$A \rightarrow B \rightarrow F \Rightarrow 3 + 2 + 2 = 8$$

$$A \rightarrow C \rightarrow G \rightarrow H \Rightarrow 3 + 2 + 4 + 3 = 12$$

Critical Path: $A \rightarrow C \rightarrow G \rightarrow H$.

Conclusion

Based on the findings of a network diagram, our team made the decision to split into two groups, with each group focusing on either the upper or lower half of the graph. Greater emphasis was placed on the lower half of the graph throughout the sprint, as it represented the critical path in the network diagram. Utilizing this knowledge, the team successfully completed the sprint on time, accomplishing all user stories.