






























































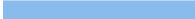

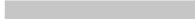




















































ID		Task Mode	Task Name	Work	Duration	Start	Finish	Predecessors
0			<b>IST645F20A1BDONGAREN</b>	<b>425 hrs</b>	<b>85 days</b>	<b>Mon 9/28/20</b>	<b>Mon 12/14/20</b>	
1			<b>1 Project Initiation</b>	<b>64 hrs</b>	<b>14 days</b>	<b>Mon 9/28/20</b>	<b>Thu 10/8/20</b>	
2			<b>1.1 Understanding the business case</b>	<b>6 hrs</b>	<b>1 day</b>	<b>Mon 9/28/20</b>	<b>Mon 9/28/20</b>	
3			<b>1.2 Introductory meetings</b>	<b>16 hrs</b>	<b>6 days</b>	<b>Mon 9/28/20</b>	<b>Fri 10/2/20</b>	
4			1.2.1 Meeting with stakeholders	8 hrs	3 days	Mon 9/28/20	Wed 9/30/20	2
5			1.2.2 Meeting with the team members	8 hrs	3 days	Wed 9/30/20	Fri 10/2/20	4
6			<b>1.3 Requirement gathering and analysis</b>	<b>18 hrs</b>	<b>6 days</b>	<b>Wed 9/30/20</b>	<b>Tue 10/6/20</b>	
7			1.3.1 Meeting with stakeholders for requiremnt gathering	8 hrs	4 days	Wed 9/30/20	Fri 10/2/20	4
8			1.3.2 Document stakeholder interviews	2 hrs	3 days	Wed 9/30/20	Fri 10/2/20	7SS
9			1.3.3 Analyze and create requirements document	8 hrs	2 days	Mon 10/5/20	Tue 10/6/20	7
10			<b>1.4 Project Charter development</b>	<b>14 hrs</b>	<b>2 days</b>	<b>Tue 10/6/20</b>	<b>Wed 10/7/20</b>	
11			1.4.1 Define business case, high level project scope and deliverables	6 hrs	1 day	Tue 10/6/20	Tue 10/6/20	9
12			1.4.2 Create project charter	8 hrs	2 days	Tue 10/6/20	Wed 10/7/20	11SS
13			<b>1.5 Project Charter approval</b>	<b>6 hrs</b>	<b>2 days</b>	<b>Wed 10/7/20</b>	<b>Thu 10/8/20</b>	
14			1.5.1 Review the charter	2 hrs	1 day	Wed 10/7/20	Thu 10/8/20	12
15			1.5.2 Rework if changes are required	4 hrs	1 day	Thu 10/8/20	Thu 10/8/20	14
16			1.5.3 Project Charter Approval and Sign off	0 hrs	0 days	Thu 10/8/20	Thu 10/8/20	15
17			<b>1.6 Legal undertakings</b>	<b>4 hrs</b>	<b>4 days</b>	<b>Tue 10/6/20</b>	<b>Thu 10/8/20</b>	
18			1.6.1 Draft a contract between Reliable and Hardcat	4 hrs	1 day	Tue 10/6/20	Tue 10/6/20	12SS
19			1.6.2 Contract approval and signoff by stakeholders	0 hrs	0 days	Thu 10/8/20	Thu 10/8/20	16SS
20			<b>2 Project Planning</b>	<b>128 hrs</b>	<b>31 days</b>	<b>Mon 9/28/20</b>	<b>Fri 10/23/20</b>	
21			<b>2.1 Communication plan</b>	<b>9 hrs</b>	<b>14 days</b>	<b>Mon 9/28/20</b>	<b>Fri 10/9/20</b>	






















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22			2.1.1 Define communication methods and frequency for meetings with stakeholders	2 hrs	1 day	Mon 9/28/20	Tue 9/29/20	4SS
23			2.1.2 Define communication methods and frequency for meetings with the team	2 hrs	1 day	Wed 9/30/20	Thu 10/1/20	5SS
24			2.1.3 Document the communication plan	5 hrs	1 day	Thu 10/8/20	Fri 10/9/20	17
25			<b>2.2 Resource management</b>	<b>10 hrs</b>	<b>1 day</b>	<b>Fri 10/9/20</b>	<b>Fri 10/9/20</b>	
26			2.2.1 Define roles and responsibilities of project team members	5 hrs	1 day	Fri 10/9/20	Fri 10/9/20	24
27			2.2.2 Define roles and responsibilities of key stakeholders	5 hrs	1 day	Fri 10/9/20	Fri 10/9/20	24
28			<b>2.3 Define budget and schedule baselines</b>	<b>26 hrs</b>	<b>4 days</b>	<b>Mon 10/12/20</b>	<b>Wed 10/14/20</b>	
29			2.3.1 Create a schedule with expected resource effort	10 hrs	3 days	Mon 10/12/20	Tue 10/13/20	26,27
30			2.3.2 Create a budget with schedule and cost assumptions	12 hrs	3 days	Mon 10/12/20	Tue 10/13/20	26,27
31			2.3.3 Establish tolerance thresholds considering change control	4 hrs	1 day	Tue 10/13/20	Wed 10/14/20	29,30
32			<b>2.4 Project schedule plan</b>	<b>18 hrs</b>	<b>3 days</b>	<b>Mon 10/12/20</b>	<b>Wed 10/14/20</b>	
33			<b>2.4.1 Create WBS</b>	<b>14 hrs</b>	<b>3 days</b>	<b>Mon 10/12/20</b>	<b>Wed 10/14/20</b>	
34			2.4.1.1 Define all activities and efforts required	6 hrs	2 days	Mon 10/12/20	Tue 10/13/20	29FS-2 days
35			2.4.1.2 Determine task dependencies using predecessors	8 hrs	2 days	Tue 10/13/20	Wed 10/14/20	29FS-1 day
36			<b>2.4.2 Set major milestones and approval points</b>	<b>4 hrs</b>	<b>1 day</b>	<b>Mon 10/12/20</b>	<b>Tue 10/13/20</b>	<b>33SS</b>
37			<b>2.5 Risk management plan</b>	<b>28 hrs</b>	<b>6 days</b>	<b>Mon 10/12/20</b>	<b>Thu 10/15/20</b>	
38			2.5.1 Identify potential system and operational risks	4 hrs	1 day	Wed 10/14/20	Thu 10/15/20	32
39			2.5.2 Establish risk mitigation plans for potential risks	4 hrs	1 day	Wed 10/14/20	Thu 10/15/20	38SS
40			2.5.3 Evaluate the cause and impact of risks	2 hrs	1 day	Wed 10/14/20	Thu 10/15/20	38SS
41			2.5.4 Document risk prioritization and mitigation guidelines	4 hrs	1 day	Thu 10/15/20	Thu 10/15/20	38




















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42			2.5.5 Document risk assesment for schedule and budget baselines	4 hrs	1 day	Thu 10/15/20	Thu 10/15/20	38
43			2.5.6 Create budget for residual risks	10 hrs	1 day	Mon 10/12/20	Mon 10/12/20	30SS
44			<b>2.6 Change control plan</b>	<b>6 hrs</b>	<b>1 day</b>	<b>Wed 10/14/20</b>	<b>Thu 10/15/20</b>	
45			2.6.1 Document change control procedure for approved scope baseline	3 hrs	1 day	Wed 10/14/20	Thu 10/15/20	32
46			2.6.2 Document change controls for triggers in budget and schedule	3 hrs	1 day	Wed 10/14/20	Thu 10/15/20	32
47			<b>2.7 Project implementation plan</b>	<b>31 hrs</b>	<b>9 days</b>	<b>Thu 10/15/20</b>	<b>Fri 10/23/20</b>	
48			2.7.1 Meeting with team members to discuss implementati	10 hrs	4 days	Thu 10/15/20	Tue 10/20/20	42
49			2.7.2 Document the implementation plan	10 hrs	3 days	Fri 10/16/20	Tue 10/20/20	48FS-3 days
50			2.7.3 Implementation plan presentation to stakeholders	2 hrs	1 day	Tue 10/20/20	Tue 10/20/20	49
51			2.7.4 Rework if changes are needed	8 hrs	3 days	Tue 10/20/20	Thu 10/22/20	50
52			2.7.5 Project plan approval from the stakeholders	1 hr	1 day	Thu 10/22/20	Fri 10/23/20	51
53			<b>2.8 Project planning phase approval</b>	<b>0 hrs</b>	<b>1 day</b>	<b>Fri 10/23/20</b>	<b>Fri 10/23/20</b>	<b>52</b>
54			<b>3 Project Execution</b>	<b>138 hrs</b>	<b>38 days</b>	<b>Mon 10/26/20</b>	<b>Mon 11/30/20</b>	
55			<b>3.1 Initial account setup for cloud based Hardcat service</b>	<b>9 hrs</b>	<b>3 days</b>	<b>Mon 10/26/20</b>	<b>Tue 10/27/20</b>	
56			3.1.1 Meeting with Paulo Maina (Hardcat)	3 hrs	1 day	Mon 10/26/20	Mon 10/26/20	53
57			3.1.2 Setup account for cloud based asset tracking	6 hrs	2 days	Mon 10/26/20	Tue 10/27/20	56
58			<b>3.2 Technical training</b>	<b>26 hrs</b>	<b>7 days</b>	<b>Wed 10/28/20</b>	<b>Tue 11/3/20</b>	
59			3.2.1 Meeting with Hardcat implementation staff and team members	6 hrs	3 days	Wed 10/28/20	Fri 10/30/20	57FS+1 day
60			3.2.2 Technical training of the Hardcat software to the team	20 hrs	7 days	Wed 10/28/20	Tue 11/3/20	59SS
61			<b>3.3 Prototype design</b>	<b>32 hrs</b>	<b>11 days</b>	<b>Tue 11/3/20</b>	<b>Fri 11/13/20</b>	




















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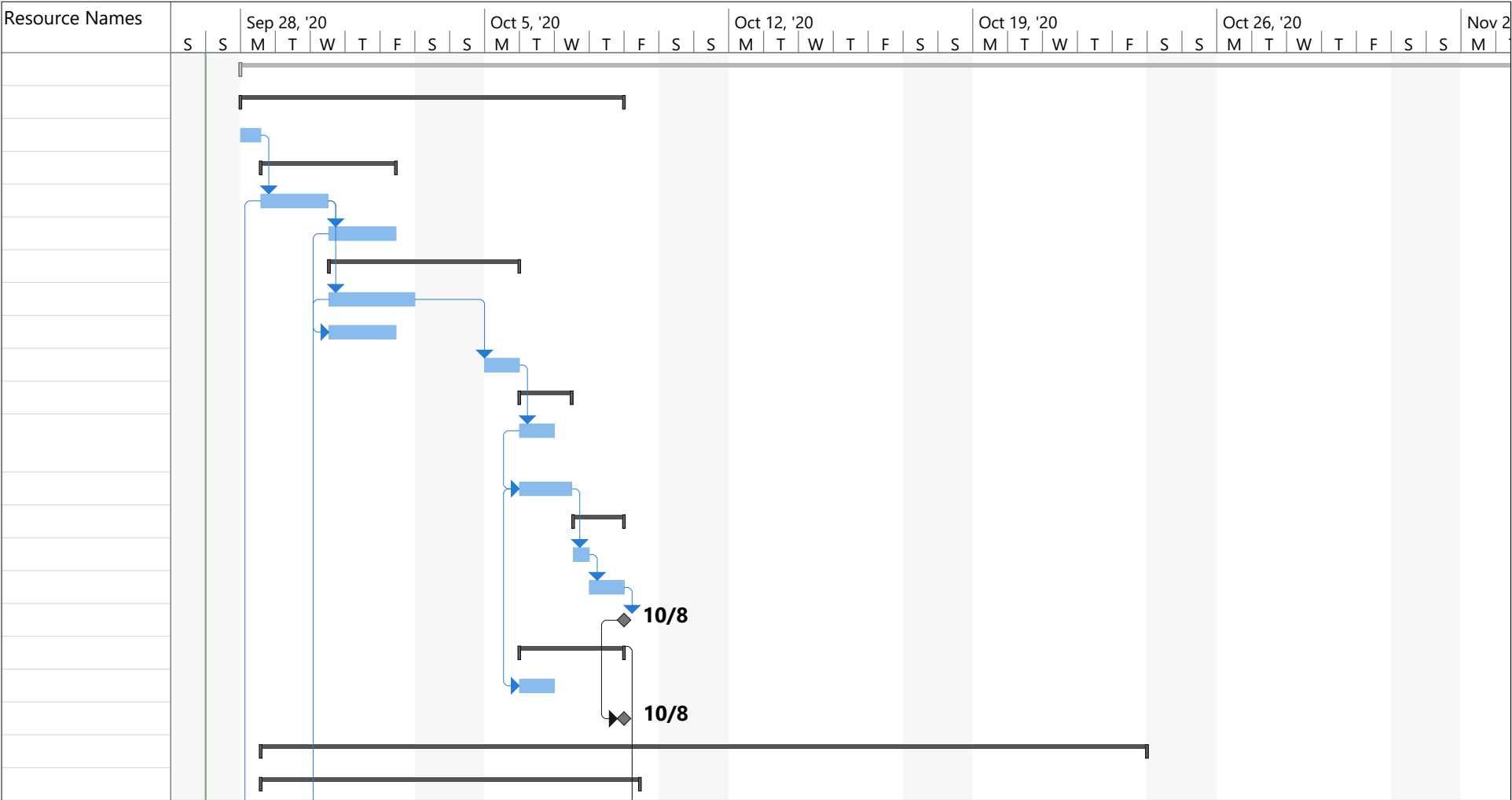
ID		Task Mode	Task Name	Work	Duration	Start	Finish	Predecessors
62			3.3.1 Prototype design by the team	30 hrs	10 days	Tue 11/3/20	Fri 11/13/20	60
63			3.3.2 Prototype presentation approval with the Adam Alberts and Craig Holland	2 hrs	1 day	Fri 11/13/20	Fri 11/13/20	62
64			<b>3.4 Integration of Reliable's system with Hardcat software</b>	<b>71 hrs</b>	<b>16 days</b>	<b>Fri 11/13/20</b>	<b>Mon 11/30/20</b>	
65			3.4.1 Check Hardcat's software compatibility with Reliable's existing shipping system	8 hrs	2 days	Fri 11/13/20	Mon 11/16/20	63
66			3.4.2 Deploy Hardcat's cloud based software in Reliable's existing system	8 hrs	5 days	Tue 11/17/20	Fri 11/20/20	65
67			3.4.3 Procurement of the sensors	5 hrs	3 days	Fri 11/13/20	Tue 11/17/20	65SS
68			3.4.4 Deployment of the sensors in valuable packages	20 hrs	5 days	Tue 11/17/20	Fri 11/20/20	67
69			3.4.5 Connect the sensors to Hardcat cloud based software	20 hrs	5 days	Fri 11/20/20	Wed 11/25/20	68
70			3.4.6 Enable real-time location tracking	10 hrs	3 days	Wed 11/25/20	Mon 11/30/20	69
71			<b>4 Testing</b>	<b>46 hrs</b>	<b>6 days</b>	<b>Mon 11/30/20</b>	<b>Fri 12/4/20</b>	
72			4.1 Identify potential point of failures	8 hrs	2 days	Mon 11/30/20	Tue 12/1/20	70
73			4.2 Perform fault testing on those points	8 hrs	2 days	Mon 11/30/20	Tue 12/1/20	72FS-2 days
74			4.3 Testing the accuracy and reliability of sensors	10 hrs	2 days	Wed 12/2/20	Thu 12/3/20	73
75			4.4 Testing the accuracy of real-time tracking on maps	10 hrs	3 days	Wed 12/2/20	Fri 12/4/20	74FS-1 day
76			4.5 Document test cases for future use	5 hrs	1 day	Wed 12/2/20	Thu 12/3/20	75SS,74SS
77			4.6 Document a backup plan for software failure cases	5 hrs	1 day	Wed 12/2/20	Thu 12/3/20	75SS,74SS
78			<b>5 Deployment</b>	<b>31 hrs</b>	<b>5 days</b>	<b>Fri 12/4/20</b>	<b>Wed 12/9/20</b>	
79			5.1 Final review and approval with stakeholders	3 hrs	1 day	Fri 12/4/20	Mon 12/7/20	77FS+2 days
80			5.2 Launch the Hardcat software integrated with Reliable's shipping system	8 hrs	1 day	Mon 12/7/20	Mon 12/7/20	79
81			5.3 Generate user manual for understanding Hardcat's cloud based software	8 hrs	4 days	Fri 12/4/20	Tue 12/8/20	79SS

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82			5.4 Provide software and system training to end users	12 hrs	4 days	Mon 12/7/20	Wed 12/9/20	80SS
83			<b>6 Project Closure</b>	<b>18 hrs</b>	<b>8 days</b>	<b>Mon 12/7/20</b>	<b>Mon 12/14/20</b>	
84			<b>6.1 Requirement check</b>	<b>2 hrs</b>	<b>1 day</b>	<b>Mon 12/7/20</b>	<b>Mon 12/7/20</b>	
85			6.1.1 Check whether all the requirements and deliverables are executed according to the project scope	2 hrs	1 day	Mon 12/7/20	Mon 12/7/20	80SS
86			<b>6.2 Meeting with stakeholders</b>	<b>4 hrs</b>	<b>1 day</b>	<b>Tue 12/8/20</b>	<b>Tue 12/8/20</b>	
87			6.2.1 Presentation of the final project	2 hrs	1 day	Tue 12/8/20	Tue 12/8/20	80FS+1 day
88			6.2.2 Get formal acceptance from the stakeholders regarding project expectations	2 hrs	1 day	Tue 12/8/20	Tue 12/8/20	87SS
89			<b>6.3 Project closure report</b>	<b>10 hrs</b>	<b>4 days</b>	<b>Wed 12/9/20</b>	<b>Fri 12/11/20</b>	
90			6.3.1 Create a final report including all deliverables, time required to complete the project, resources used and	10 hrs	4 days	Wed 12/9/20	Fri 12/11/20	88
91			<b>6.4 Approval and closure of the project</b>	<b>2 hrs</b>	<b>1 day</b>	<b>Fri 12/11/20</b>	<b>Mon 12/14/20</b>	<b>90</b>

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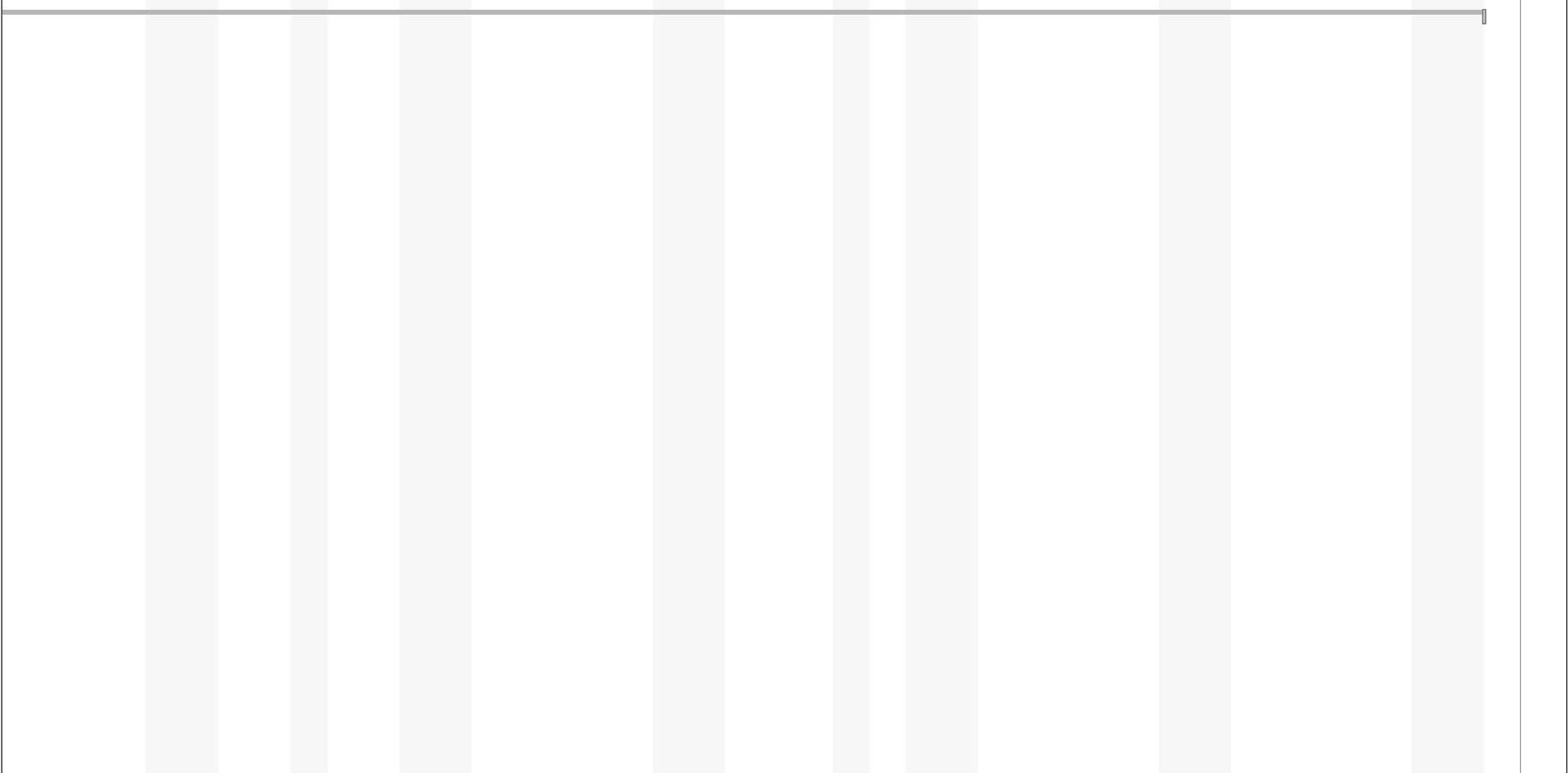




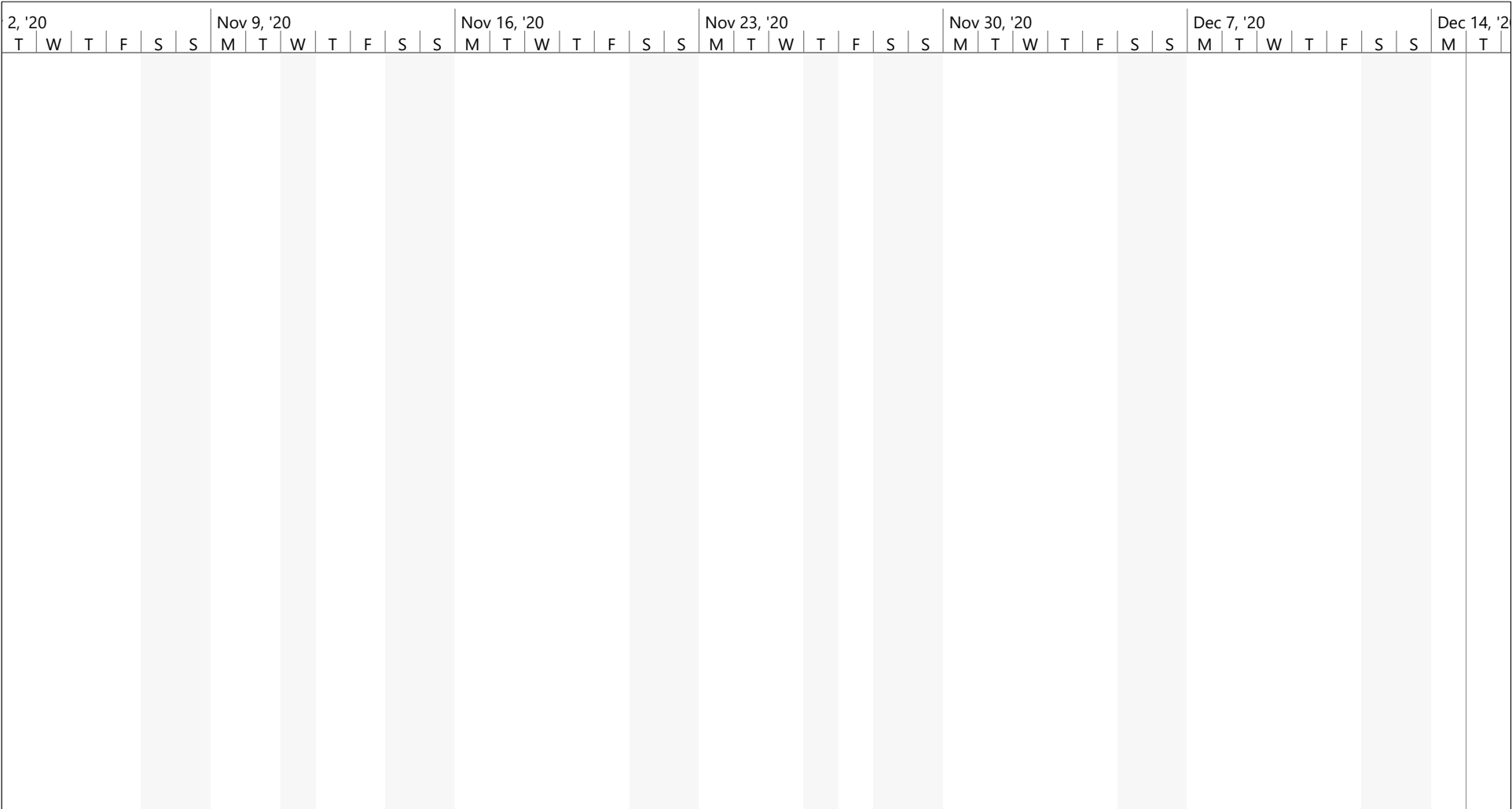
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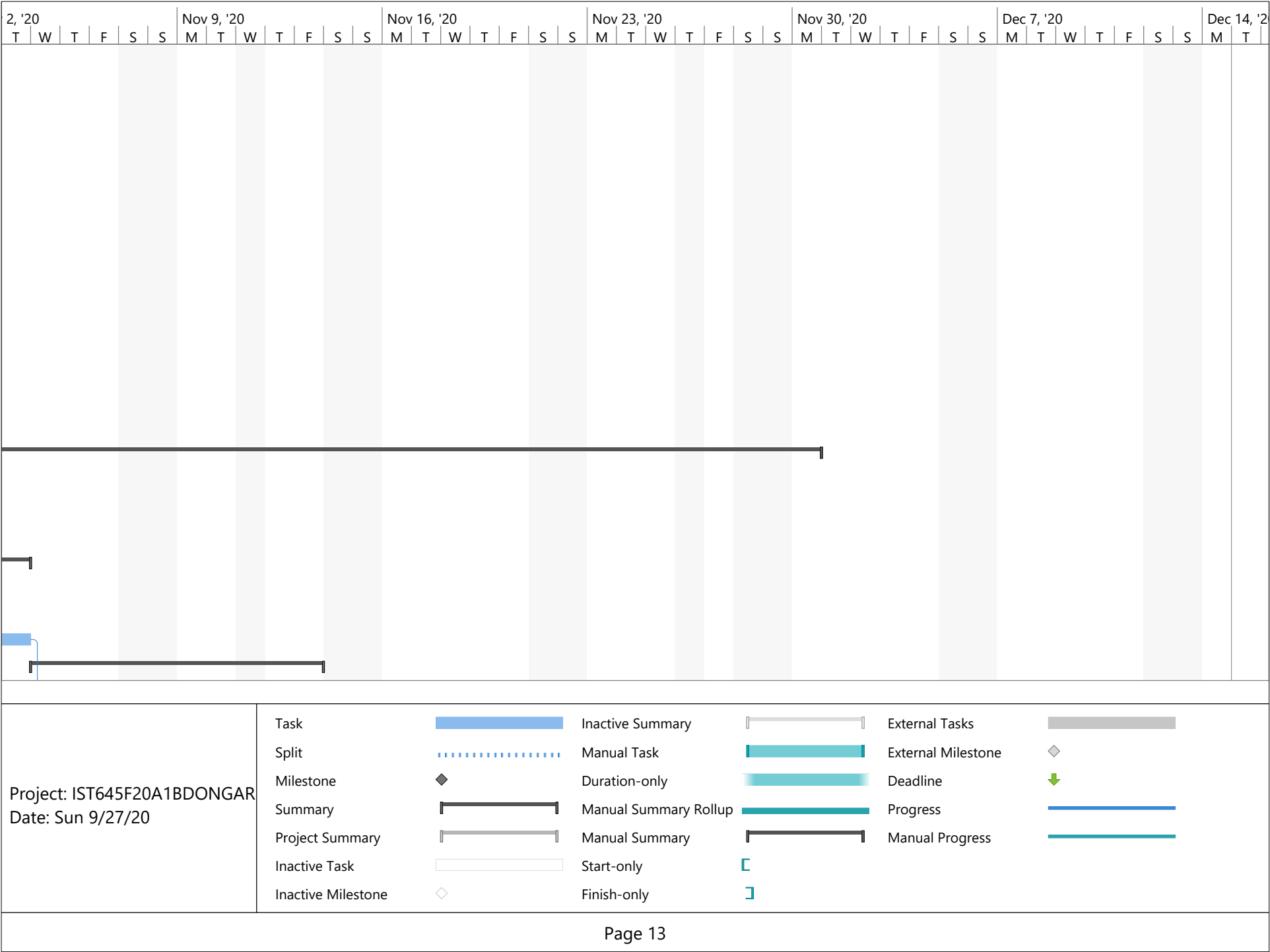


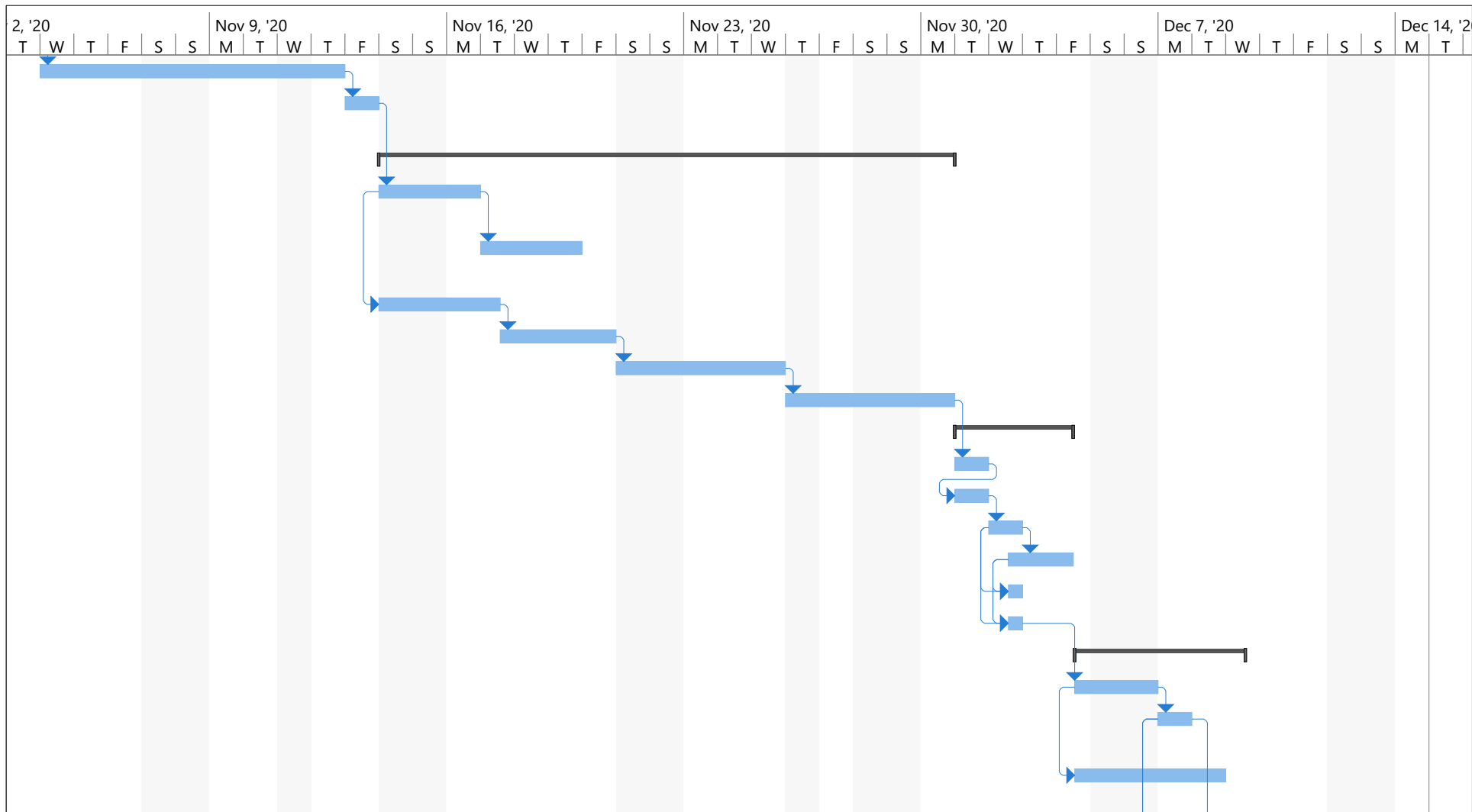
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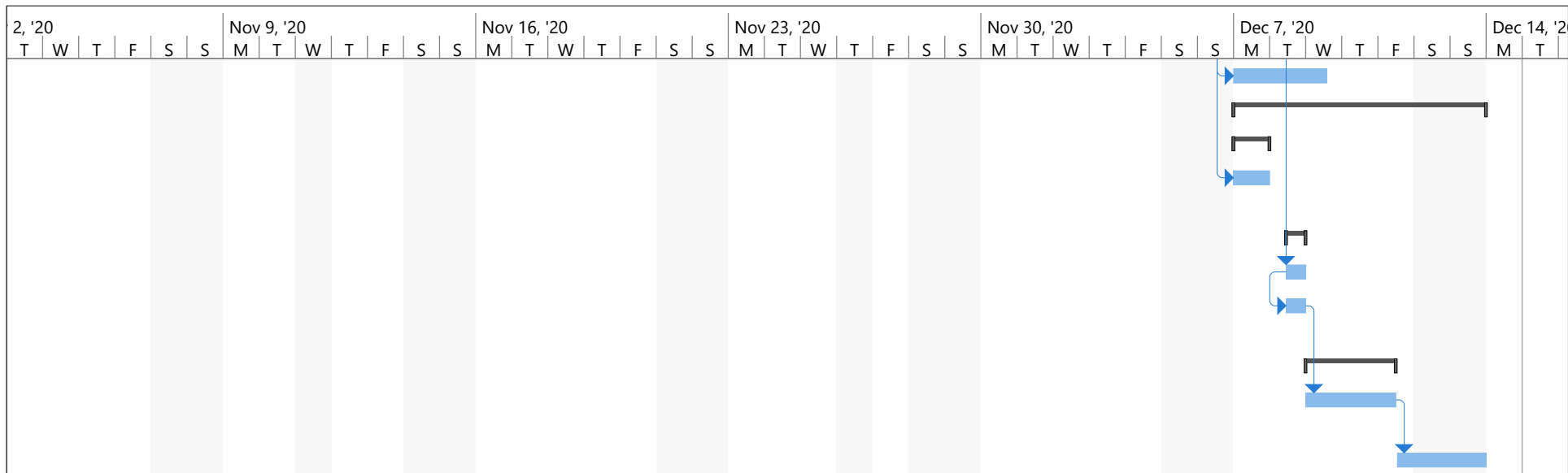
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