ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		**1. Sprint #1**	**24 days**	**Mon 8/15/22**	**Tue 9/13/22**	
2		**1.1 Repeat/Setup Mobile Application Tutorial**	**8.75 days**	**Mon 8/15/22**	**Thu 8/25/22**	
3		1.1.1 Download & Installer Dart Languages and Flutter	1 day	Mon 8/15/22	Mon 8/15/22	
4		1.1.2 Dart Languages Tutorials Learning	7 days	Mon 8/15/22	Tue 8/23/22	3
5		1.1.3 Flutter Tutorials Learning	7 days	Mon 8/15/22	Thu 8/25/22	4
6		1.1.4 Firebase Tutorials Learning	7 days	Mon 8/15/22	Tue 8/23/22	5
7		**1.2 Share the task & Management project**	**15 days**	**Fri 8/26/22**	**Tue 9/13/22**	
8		**1.2.1 Font-end (62011019)**	**6 days**	**Fri 8/26/22**	**Wed 8/31/22**	
9		1.2.1.1 Create Name Mobile Application	3 days	Fri 8/26/22	Sun 8/28/22	
10		1.2.1.2 Create Logo Mobile Application	3 days	Mon 8/29/22	Wed 8/31/22	9
11		**1.2.2 Back-end (62010175)**	**3 days**	**Sun 8/28/22**	**Tue 8/30/22**	
12		1.2.2.1 Prepare and Setup Firebase Authentication	1 day	Sun 8/28/22	Sun 8/28/22	
13		1.2.2.2 Prepare and Setup Firebase Storage	1 day	Mon 8/29/22	Mon 8/29/22	12
14		1.2.2.3 Prepare and Setup Firebase Realtime Database	1 day	Tue 8/30/22	Tue 8/30/22	13
15		**1.2.3 Database & ETC (All)**	**2 days**	**Mon 8/29/22**	**Tue 8/30/22**	
16		1.2.3.1 Create a new repository in GitHub	1 day	Mon 8/29/22	Mon 8/29/22	
17		1.2.3.2 Create a new Firebase Project	1 day	Tue 8/30/22	Tue 8/30/22	16
18		1.2.3.3 Create a new Firebase Project	1 day	Tue 8/30/22	Tue 8/30/22	
19		**1.3 Create Requirement**	**10 days**	**Wed 8/31/22**	**Tue 9/13/22**	
20		**1.3.1 Draft Requirement**	**7 days**	**Wed 8/31/22**	**Thu 9/8/22**	
21		1.3.1.1 Interview	4 days	Wed 8/31/22	Sat 9/3/22	

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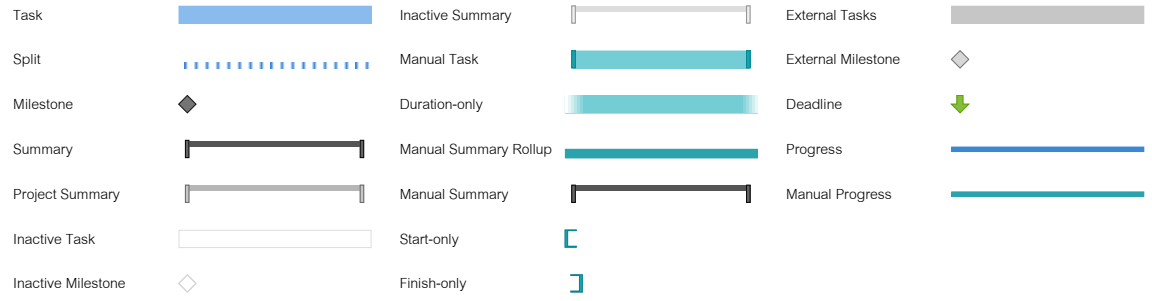

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
22		1.3.1.2 User Story	4 days	Mon 9/5/22	Thu 9/8/22	21
23		**1.3.2 Draft System Structure**	**4 days**	**Thu 9/8/22**	**Tue 9/13/22**	
24		1.3.2.1 Choose a Database	1 day	Thu 9/8/22	Thu 9/8/22	
25		1.3.2.2 Create a Database	3 days	Fri 9/9/22	Tue 9/13/22	24
26		**2. Sprint #2**	**17 days**	**Fri 9/9/22**	**Fri 9/30/22**	
27		**2.1 Font-end (62011019)**	**12 days**	**Fri 9/9/22**	**Fri 9/23/22**	
28		2.1.1 Create UX/UI	9 days	Fri 9/9/22	Tue 9/20/22	
29		2.1.2 Connect the design together	1 day	Fri 9/23/22	Fri 9/23/22	28
30		**2.2 Back-end (62010175)**	**16 days**	**Mon 9/12/22**	**Fri 9/30/22**	
31		2.2.1 Create Authentication Routes and Services for Project	5 days	Mon 9/12/22	Fri 9/16/22	
32		2.2.2 Create Firebase Storage for Project	7 days	Mon 9/19/22	Tue 9/27/22	31
33		2.2.3 Create Firebase Realtime Database for Project	2 days	Thu 9/29/22	Fri 9/30/22	32
34		**3. Sprint #3**	**3 days**	**Sat 10/1/22**	**Tue 10/4/22**	
35		**3.1 Font-end (62011019)**	**3 days**	**Sat 10/1/22**	**Tue 10/4/22**	
36		3.1.1 Create Login/ Register Page	3 days	Sat 10/1/22	Tue 10/4/22	
37		3.1.2 Create Home Page	3 days	Sat 10/1/22	Tue 10/4/22	
38		**3.2 Back-end (62010175)**	**3 days**	**Sat 10/1/22**	**Tue 10/4/22**	
39		3.2.1 Testing Authentication with Firebase	3 days	Sat 10/1/22	Tue 10/4/22	

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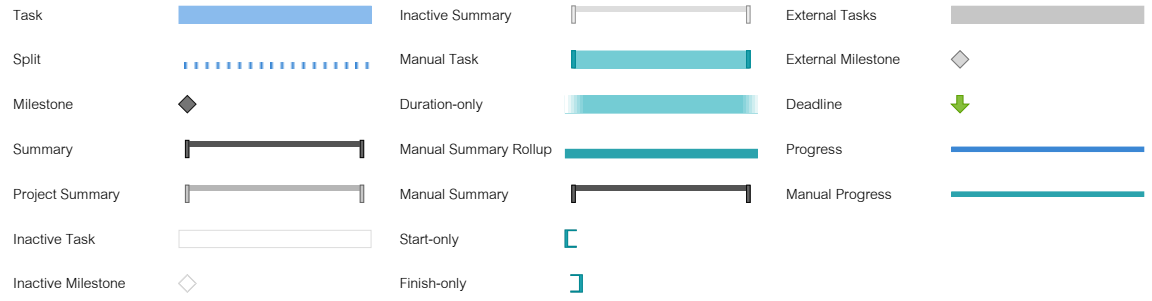

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
40		3.2.2 Testing Authentication with Google Account	3 days	Sat 10/1/22	Tue 10/4/22	
41		**4. Sprint #4**	**8 days**	**Wed 10/5/22**	**Wed 10/12/22**	
42		**4.1 Font-end (62010175)**	**8 days**	**Wed 10/5/22**	**Wed 10/12/22**	
43		4.1.1 Create User Interface : Register	4 days	Wed 10/5/22	Sat 10/8/22	
44		4.1.2 Create User Interface : Login	3 days	Thu 10/6/22	Sat 10/8/22	
45		4.1.3 Create User Interface : Edit Acount Details	4 days	Sun 10/9/22	Wed 10/12/22	
46		4.1.4 Create User Interface : Delete Account	4 days	Sun 10/9/22	Wed 10/12/22	
47		**4.2 Back-end + Server (62011019)**	**8 days**	**Wed 10/5/22**	**Wed 10/12/22**	
48		4.2.1 Back-end : Create User Account (Database)	4 days	Wed 10/5/22	Sat 10/8/22	
49		4.2.2 Back-end : Login Checking (Database)	4 days	Wed 10/5/22	Sat 10/8/22	
50		4.2.3 Back-end : Update User Details (Database)	4 days	Sun 10/9/22	Wed 10/12/22	
51		4.2.4 Back-end : Delete User Data (Database)	4 days	Sun 10/9/22	Wed 10/12/22	
52		**4.3 Connect Activity & Testing (62010175 & 62011019)**	**3 days**	**Mon 10/10/22**	**Wed 10/12/22**	
53		4.3.1 Connecting Application and Back-end / Testing / Fix bug	3 days	Mon 10/10/22	Wed 10/12/22	
54		**5. Sprint #5**	**9 days**	**Thu 10/13/22**	**Sun 10/23/22**	
55		**5.1 Font-end (62010175)**	**6 days**	**Thu 10/13/22**	**Thu 10/20/22**	
56		5.1.1 Create User Interface : Create Activity "Drinking 8 glasses of water a day"	4 days	Thu 10/13/22	Tue 10/18/22	
57		5.1.2 Create User Interface : Reset Challenges	1 day	Tue 10/18/22	Tue 10/18/22	
58		5.1.3 Create User Interface : Delete Challenges	1 day	Tue 10/18/22	Tue 10/18/22	
59		**5.2 Back-end + Server (62011019)**	**8 days**	**Thu 10/13/22**	**Sat 10/22/22**	

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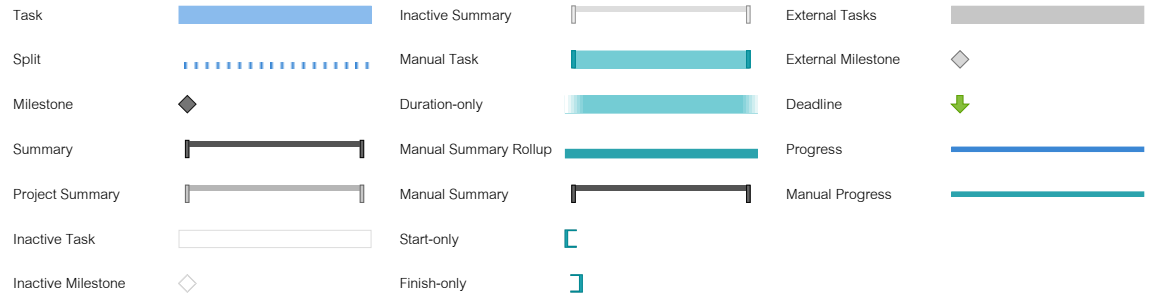

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
60		5.2.1 Back-end : Create Challenge Data (Database)	8 days	Thu 10/13/22	Sat 10/22/22	
61		5.2.2 Back-end : Update Challenge Data (Database)	1 day	Sat 10/22/22	Sat 10/22/22	
62		5.2.3 Back-end : Delete Challenge Data (Database)	1 day	Sat 10/22/22	Sat 10/22/22	
63		**5.3 Connect Activity & Testing (62010175 & 62011019)**	**3 days**	**Thu 10/20/22**	**Sat 10/22/22**	
64		5.3.1 Connecting Application and Back-end / Testing / Fix bug	3 days	Thu 10/20/22	Sat 10/22/22	
65		**6. Sprint #6**	**17 days**	**Sat 10/22/22**	**Sat 11/12/22**	
66		**6.1 Font-end (62010175)**	**16 days**	**Sat 10/22/22**	**Fri 11/11/22**	
67		6.1.2 Create User Interface : Create Activity "Running through 21 days challenges"	13 days	Sat 10/22/22	Tue 11/8/22	
68		6.1.2 Create User Interface : Reset Challenges	13 days	Sat 10/22/22	Tue 11/8/22	
69		6.1.3 Create User Interface : Delete Challenges	13 days	Sat 10/22/22	Tue 11/8/22	
70		**6.2 Back-end + Server (62011019)**	**15 days**	**Sat 10/22/22**	**Thu 11/10/22**	
71		6.2.1 Back-end : Create Challenge Data (Database)	15 days	Sat 10/22/22	Thu 11/10/22	
72		6.2.2 Back-end : Update Challenge Data (Database)	1 day	Thu 11/10/22	Thu 11/10/22	
73		6.2.3 Back-end : Delete Challenge Data (Database)	1 day	Thu 11/10/22	Thu 11/10/22	
74		**6.3 Connect Activity & Testing (62010175 & 62011019)**	**3 days**	**Thu 11/10/22**	**Sat 11/12/22**	
75		6.3.1 Connecting Application and Back-end / Testing / Fix bug	3 days	Thu 11/10/22	Sat 11/12/22	
76		**7. Sprint #7**	**8 days**	**Mon 11/14/22**	**Mon 11/21/22**	
77		**7.1 Font-end (62010175)**	**8 days**	**Mon 11/14/22**	**Mon 11/21/22**	
78		7.1.2 Create User Interface : Create Activity "Healthy walking challenges"	7 days	Tue 11/15/22	**Mon 11/21/22**	
79		7.1.2 Create User Interface : Reset Challenges	8 days	Mon 11/14/22	**Mon 11/21/22**	
80		7.1.3 Create User Interface : Delete Challenges	8 days	Mon 11/14/22	**Mon 11/21/22**	
81		**7.2 Back-end + Server (62011019)**	**8 days**	**Mon 11/14/22**	**Mon 11/21/22**	

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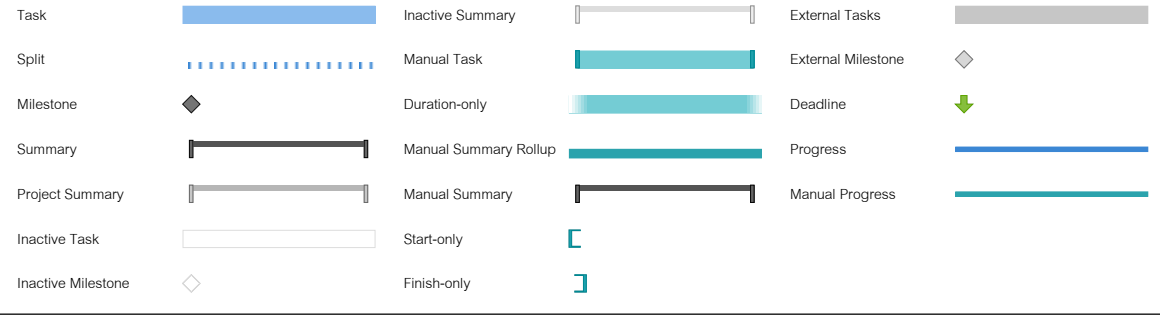

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
82		7.2.1 Back-end : Create Challenge Data (Database)	1 day	Mon 11/21/22	**Mon 11/21/22**	
83		7.2.2 Back-end : Update Challenge Data (Database)	1 day	Mon 11/21/22	**Mon 11/21/22**	
84		7.2.3 Back-end : Delete Challenge Data (Database)	1 day	Mon 11/21/22	**Mon 11/21/22**	
85		**7.3 Connect Activity & Testing (62010175 & 62011019)**	**3 days**	**Sat 11/19/22**	**Mon 11/21/22**	
86		7.3.1 Connecting Application and Back-end / Testing / Fix bug	3 days	Sat 11/19/22	**Mon 11/21/22**	
87		**8. Sprint #8**	**7 days**	**Tue 11/22/22**	**Wed 11/30/22**	
88		**8.1 Finall Testing & Fix Bug (62010175 & 62011019)**	**7 days**	**Tue 11/22/22**	**Wed 11/30/22**	
89		8.1.1 Connecting Application and Back-end / Testing / Fix bug	7 days	**Tue 11/22/22**	**Wed 11/30/22**	

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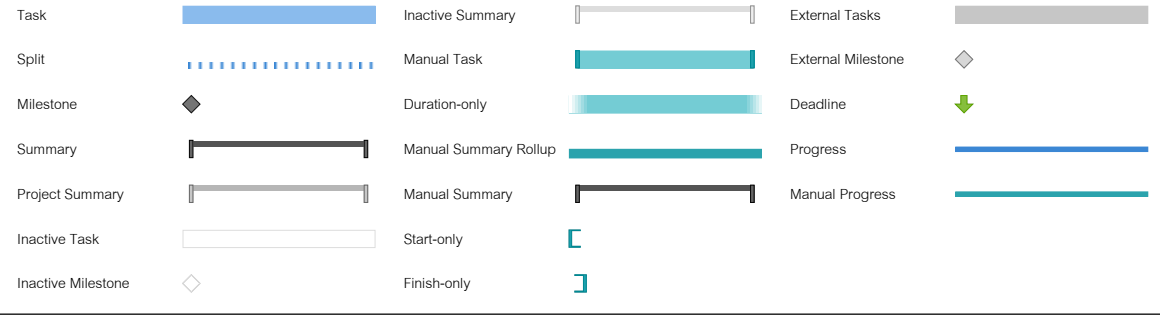

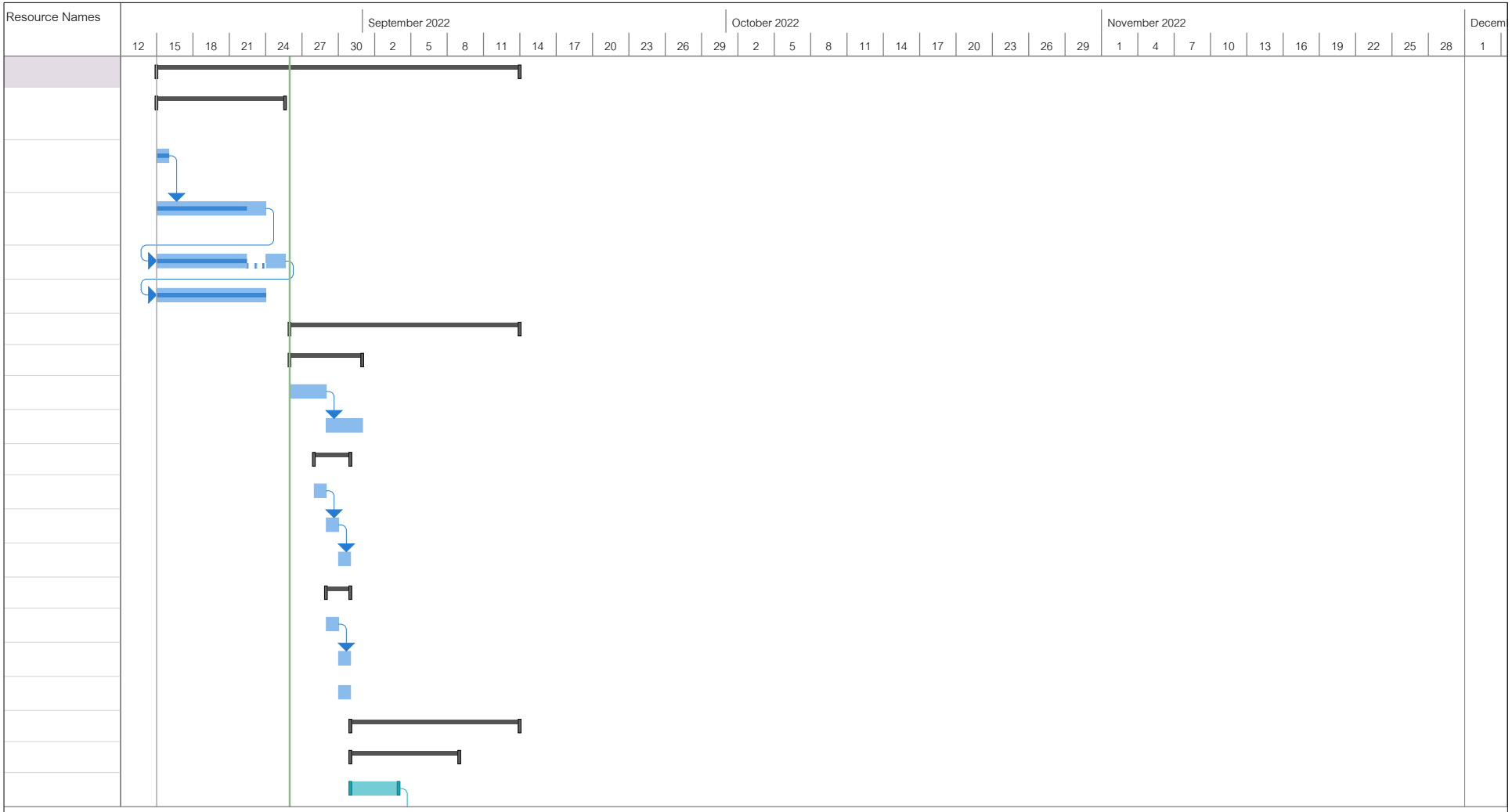

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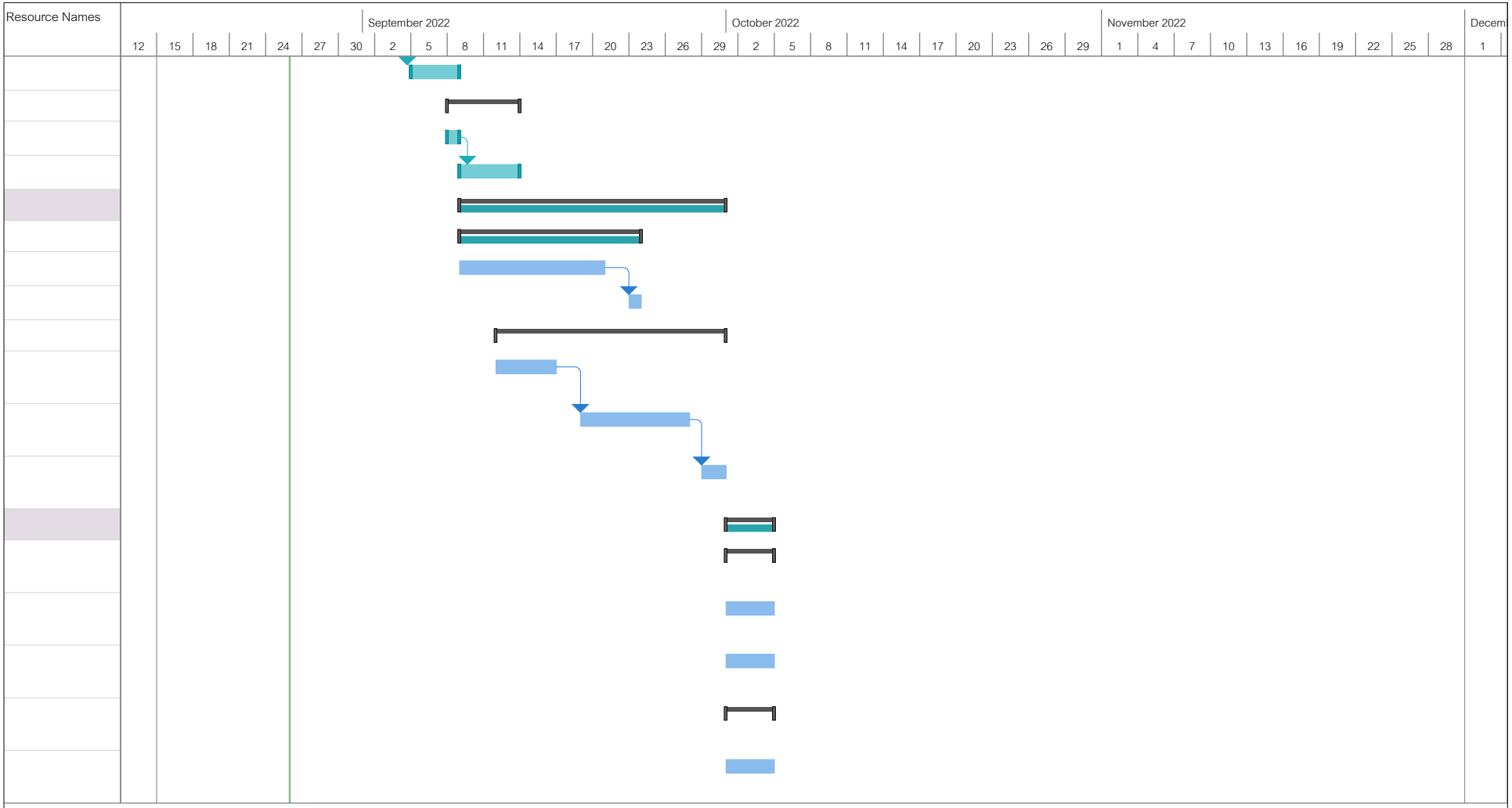
Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			



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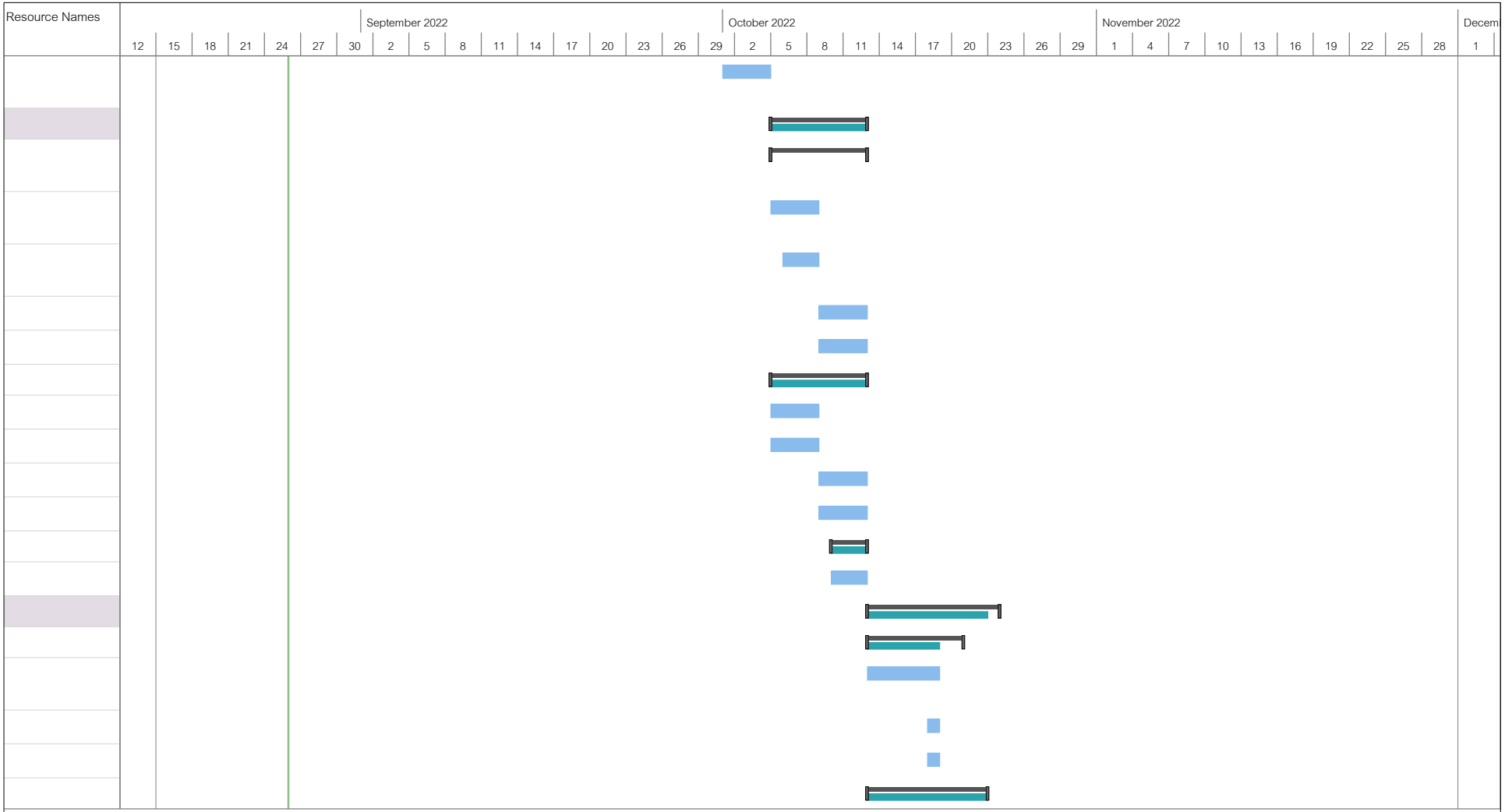
Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			



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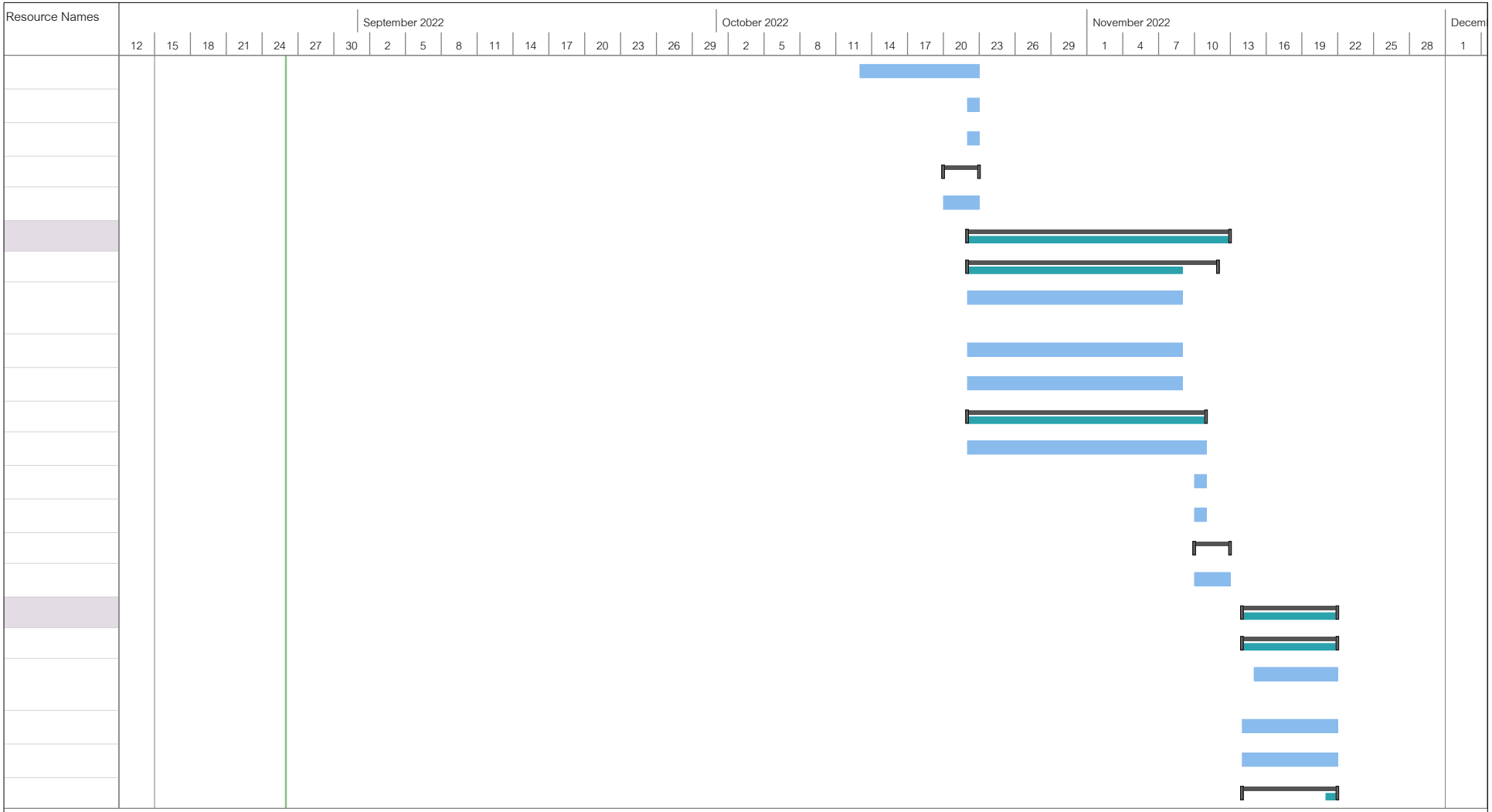
Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			



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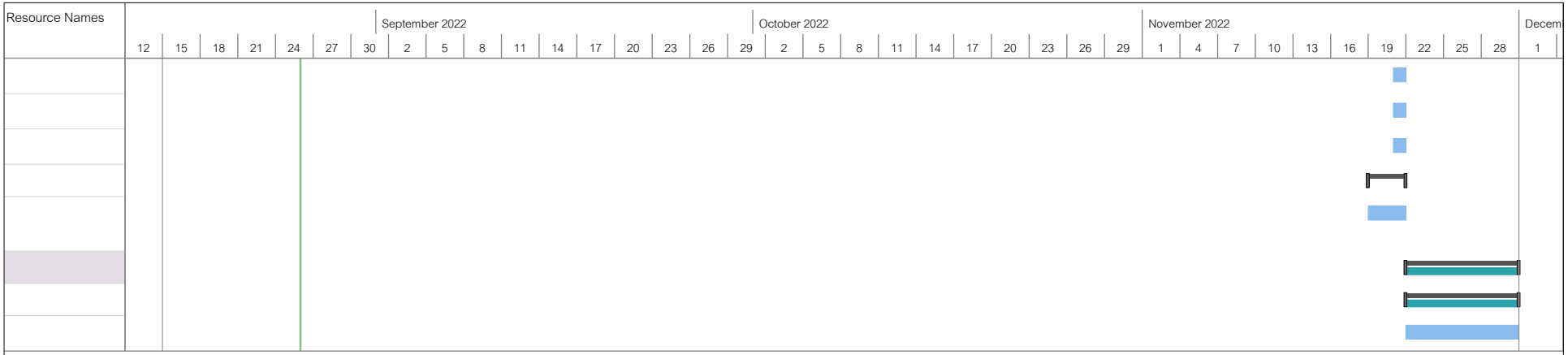
Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			



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Task		Inactive Summary		External Tasks	
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Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			