









































































ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
1			<b>Project ACIS</b>	<b>162 days</b>	<b>Sun 12/17/17</b>	<b>Mon 5/28/18</b>	
2	✓		<b>Get Started</b>	<b>26.88 days</b>	<b>Sun 12/17/17</b>	<b>Fri 1/12/18</b>	
3	✓		Create GitHub Repo	1 day	Sun 12/17/17	Sun 12/17/17	
4	✓		Create GitHub Wiki	1 day	Sun 12/17/17	Sun 12/17/17	3
5	✓		Create GitHub Tasks	1 day	Sun 12/17/17	Sun 12/17/17	4
6	✓		<b>Meet With Adviser</b>	<b>0.88 days</b>	<b>Tue 12/19/17</b>	<b>Tue 12/19/17</b>	
7	✓		Add Meeting Notes	1 day	Tue 12/19/17	Tue 12/19/17	
8	✓		<b>Meet With Sponsor</b>	<b>2.88 days</b>	<b>Wed 1/10/18</b>	<b>Fri 1/12/18</b>	
9	✓		Preparing Slides And Questions	2 days	Wed 1/10/18	Thu 1/11/18	
10	✓		Add Meeting Notes	1 day	Fri 1/12/18	Fri 1/12/18	9
11	✓		<b>Plan</b>	<b>28.13 days</b>	<b>Fri 1/26/18</b>	<b>Fri 2/23/18</b>	
12	✓		<b>Requirements</b>	<b>6 days</b>	<b>Fri 1/26/18</b>	<b>Wed 1/31/18</b>	
13	✓		Write Project Schedule Draft	1 day	Fri 1/26/18	Fri 1/26/18	
14	✓		Review Project Schedule Draft	1 day	Sat 1/27/18	Sat 1/27/18	13
15	✓		Revise Project Schedule Draft	1 day	Sun 1/28/18	Sun 1/28/18	14
16	✓		Review Revised Project Schedule	1 day	Mon 1/29/18	Mon 1/29/18	15
17	✓		Approve Project Schedule	1 day	Tue 1/30/18	Tue 1/30/18	16
18	✓		Submit Project Schedule	1 day	Wed 1/31/18	Wed 1/31/18	17
19	✓		<b>Project Schedule</b>	<b>2 days</b>	<b>Sun 2/18/18</b>	<b>Tue 2/20/18</b>	
20	✓		Write Project Schedule Draft	1 day	Sun 2/18/18	Sun 2/18/18	
21	✓		Review Project Schedule Draft	1 day	Sun 2/18/18	Mon 2/19/18	20
22	✓		Revise Project Schedule Draft	1 day	Mon 2/19/18	Mon 2/19/18	21
23	✓		Review Revised Project Schedule	1 day	Mon 2/19/18	Mon 2/19/18	22

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Date: Wed 3/28/18




















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			

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
24			Approve Project Schedule	1 day	Mon 2/19/18	Tue 2/20/18	23
25			Submit Project Schedule	1 day	Tue 2/20/18	Tue 2/20/18	24
26			<b>Block Diagram</b>	<b>6.13 days</b>	<b>Sat 2/17/18</b>	<b>Fri 2/23/18</b>	
27			Create High Level Block Diagram	1.13 days	Sat 2/17/18	Sat 2/17/18	
28			Create Component Level Block Diagram	1 day	Sat 2/17/18	Sun 2/18/18	27
29			Create Motor Block Diagram	0.63 days	Sun 2/18/18	Sun 2/18/18	28
30			Create Sensor Sensor Block Diagram	1 day	Sun 2/18/18	Mon 2/19/18	29
31			Create Processor Block Diagram	0.63 days	Mon 2/19/18	Mon 2/19/18	30
32			Create Lights Block Diagram	1 day	Mon 2/19/18	Tue 2/20/18	31
33			Create Software Block Diagram	0.63 days	Tue 2/20/18	Tue 2/20/18	32
34			Review Block Diagrams	1 day	Tue 2/20/18	Wed 2/21/18	33
35			Revise Block Diagrams	1.88 days	Wed 2/21/18	Wed 2/21/18	34
36			Approve Block Diagrams	2 days	Wed 2/21/18	Thu 2/22/18	35
37			Submit Block Diagrams	1.13 days	Thu 2/22/18	Fri 2/23/18	36
38			<b>Barcode Detection</b>	<b>32 days</b>	<b>Thu 2/1/18</b>	<b>Sun 3/4/18</b>	
39			Research Barcode Detection Libraries	10 days	Thu 2/1/18	Fri 2/9/18	
40			Prototype OpenCV Barcode Detection	3.88 days	Fri 2/9/18	Sun 2/11/18	39
41			Finalize OpenCV Barcode Detection	2 days	Sat 3/3/18	Sun 3/4/18	40
42			<b>Image Stitching</b>	<b>59 days</b>	<b>Sat 1/13/18</b>	<b>Mon 3/12/18</b>	
43			Research Methods To Use OpenCV For Image Stitching	21 days	Sat 1/13/18	Fri 2/2/18	
44			Prototype OpenCV Image Stitching	2 days	Sat 2/10/18	Sun 2/11/18	43
45			Finalize OpenCV Image Stitching	3 days	Sat 3/10/18	Mon 3/12/18	44
46			<b>Defect Detection</b>	<b>91 days</b>	<b>Wed 1/3/18</b>	<b>Tue 4/3/18</b>	

Project: Schedule.mpp Date: Wed 3/28/18	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			




















ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
47			Research OpenCV Defect Detection	2 days	Wed 1/3/18	Thu 1/4/18	
48			Prototype OpenCV Defect Detection	5 days	Fri 1/5/18	Tue 1/9/18	47
49			Finalize OpenCV Defect Detection	3 days	Sun 4/1/18	Tue 4/3/18	48
50			<b>Main Application</b>	<b>6 days</b>	<b>Thu 3/29/18</b>	<b>Wed 4/4/18</b>	
51			Research What Control Should Main Application Have	2 days	Thu 3/29/18	Fri 3/30/18	
52			Design Main Application	6 days	Fri 3/30/18	Sun 4/1/18	51
53			Design The Different components Of The Application	1 day	Sun 4/1/18	Sun 4/1/18	52
54			Design Config File	1 day	Sun 4/1/18	Sun 4/1/18	53
55			Design The Interface Between The Classes	1 day	Sun 4/1/18	Mon 4/2/18	54
56			Prototype Main Application	5 days	Mon 4/2/18	Tue 4/3/18	55
57			Finalize Main Application	2 days	Tue 4/3/18	Wed 4/4/18	56
58			<b>Magazine</b>	<b>18.75 days</b>	<b>Wed 3/28/18</b>	<b>Sun 4/15/18</b>	
59			Research Magazine Design	2 days	Wed 3/28/18	Thu 3/29/18	
60			Design The Magazine	1 day	Thu 3/29/18	Fri 3/30/18	59
61			Design Safety Locks	1 day	Fri 3/30/18	Sat 3/31/18	60
62			Design CPU Holding Frame	1 day	Sat 3/31/18	Sat 3/31/18	61
63			Design Magazine Movement	1 day	Sat 3/31/18	Sat 3/31/18	62
64			Design Magazine Loading Mechanism	1 day	Sat 3/31/18	Sun 4/1/18	63
65			Research Magazine Parts	2 days	Sun 4/1/18	Sun 4/1/18	64
66			Order Magazine Parts	1 day	Sun 4/1/18	Mon 4/2/18	65
67			Prototype Magazine	5 days	Mon 4/9/18	Fri 4/13/18	66
68			Finalize Magazine	2.75 days	Fri 4/13/18	Sun 4/15/18	67
69			<b>Frame</b>	<b>88 days</b>	<b>Sat 1/27/18</b>	<b>Wed 4/25/18</b>	



Project: Schedule.mpp  
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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			




















ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
70			Design The Frame	4 days	Sat 1/27/18	Sun 1/28/18	
71			Research Frame Parts	1 day	Sun 1/28/18	Mon 1/29/18	70
72			Order Frame Parts	2 days	Mon 1/29/18	Mon 1/29/18	71
73			Prototype Frame	5 days	Mon 3/5/18	Wed 3/7/18	
74			Finalize Frame Build	5 days	Mon 4/23/18	Wed 4/25/18	
75			<b>Lighting</b>	<b>11 days</b>	<b>Fri 4/6/18</b>	<b>Mon 4/16/18</b>	
76			Research Lighting	1 day	Fri 4/6/18	Fri 4/6/18	
77			Design Lighting	2 days	Fri 4/6/18	Sat 4/7/18	76
78			Order Lighting Parts	1 day	Sat 4/7/18	Sun 4/8/18	77
79			Prototype Lighting Parts	2 days	Sat 4/14/18	Sun 4/15/18	
80			Finalize Lighting	2 days	Sun 4/15/18	Mon 4/16/18	79
81			<b>Enclosure</b>	<b>9 days</b>	<b>Sun 4/1/18</b>	<b>Tue 4/10/18</b>	
82			Research Enclosure Material	1 day	Sun 4/1/18	Sun 4/1/18	
83			Design Enclosure	3 days	Sun 4/1/18	Mon 4/2/18	82
84			Order Enclosure Material	1 day	Sun 4/8/18	Sun 4/8/18	83
85			Prototype Enclosure	2 days	Mon 4/9/18	Tue 4/10/18	84
86			Finalize Enclosure	1 day	Tue 4/10/18	Tue 4/10/18	85
87			<b>Motor</b>	<b>104 days</b>	<b>Mon 1/1/18</b>	<b>Sat 4/14/18</b>	
88			Research Arduino Motor Control	5 days	Mon 1/1/18	Fri 1/5/18	
89			Design Stepper Motor Placement	1 day	Sun 1/28/18	Sun 1/28/18	88
90			Choose Motors	2 days	Mon 1/29/18	Tue 1/30/18	89
91			Order Motors	1 day	Tue 1/30/18	Tue 1/30/18	90
92			Prototype Motor Drivers	5 days	Thu 4/5/18	Mon 4/9/18	91































Project: Schedule.mpp  
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Inactive Task		Start-only			
Inactive Milestone		Finish-only			




















ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
93			Finalize Motor Driver	5 days	Tue 4/10/18	Sat 4/14/18	92
94			<b>Image Capturing</b>	<b>9.88 days</b>	<b>Wed 3/28/18</b>	<b>Fri 4/6/18</b>	
95			Research Camera	1 day	Wed 3/28/18	Wed 3/28/18	
96			Order Camera	1 day	Wed 4/4/18	Wed 4/4/18	95
97			Finalize Image Capturing	2 days	Thu 4/5/18	Fri 4/6/18	96
98			<b>Communication Between Arduino And Pc</b>	<b>2.88 days</b>	<b>Wed 4/25/18</b>	<b>Fri 4/27/18</b>	
99			Design The Protocol Between Main Application And Arduino	3 days	Wed 4/25/18	Thu 4/26/18	
100			Prototype Communication Between Arduino And Pc	2 days	Thu 4/26/18	Fri 4/27/18	99
101			Finalize Communication Between Pc And Arduino	2 days	Fri 4/27/18	Fri 4/27/18	100
102			<b>Power Supply</b>	<b>18 days</b>	<b>Sat 4/7/18</b>	<b>Wed 4/25/18</b>	
103			Calculate Power Requirements Based On Parts	2 days	Sat 4/7/18	Sun 4/8/18	
104			Research Power Supply	2 days	Sun 4/8/18	Mon 4/9/18	103
105			Order Power Supply	1 day	Mon 4/16/18	Mon 4/16/18	104
106			Test Power Supply	2 days	Mon 4/23/18	Tue 4/24/18	105
107			Finalize Power Supply	1 day	Tue 4/24/18	Wed 4/25/18	106
108			<b>Safety Locks</b>	<b>12 days</b>	<b>Mon 4/23/18</b>	<b>Fri 5/4/18</b>	
109			Research Safety Locks	2 days	Mon 4/23/18	Tue 4/24/18	
110			Order Safety Locks Parts	1 day	Wed 4/25/18	Wed 4/25/18	109
111			Prototype Safety Locks	1 day	Thu 5/3/18	Thu 5/3/18	110
112			Finalize Safety Locks	1 day	Fri 5/4/18	Fri 5/4/18	111
113			<b>Sensors</b>	<b>5 days</b>	<b>Sun 3/18/18</b>	<b>Thu 3/22/18</b>	
114			Research Sensors	2 days	Sun 3/18/18	Mon 3/19/18	
115			Order Sensors	1 day	Tue 3/20/18	Tue 3/20/18	114




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Date: Wed 3/28/18




















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

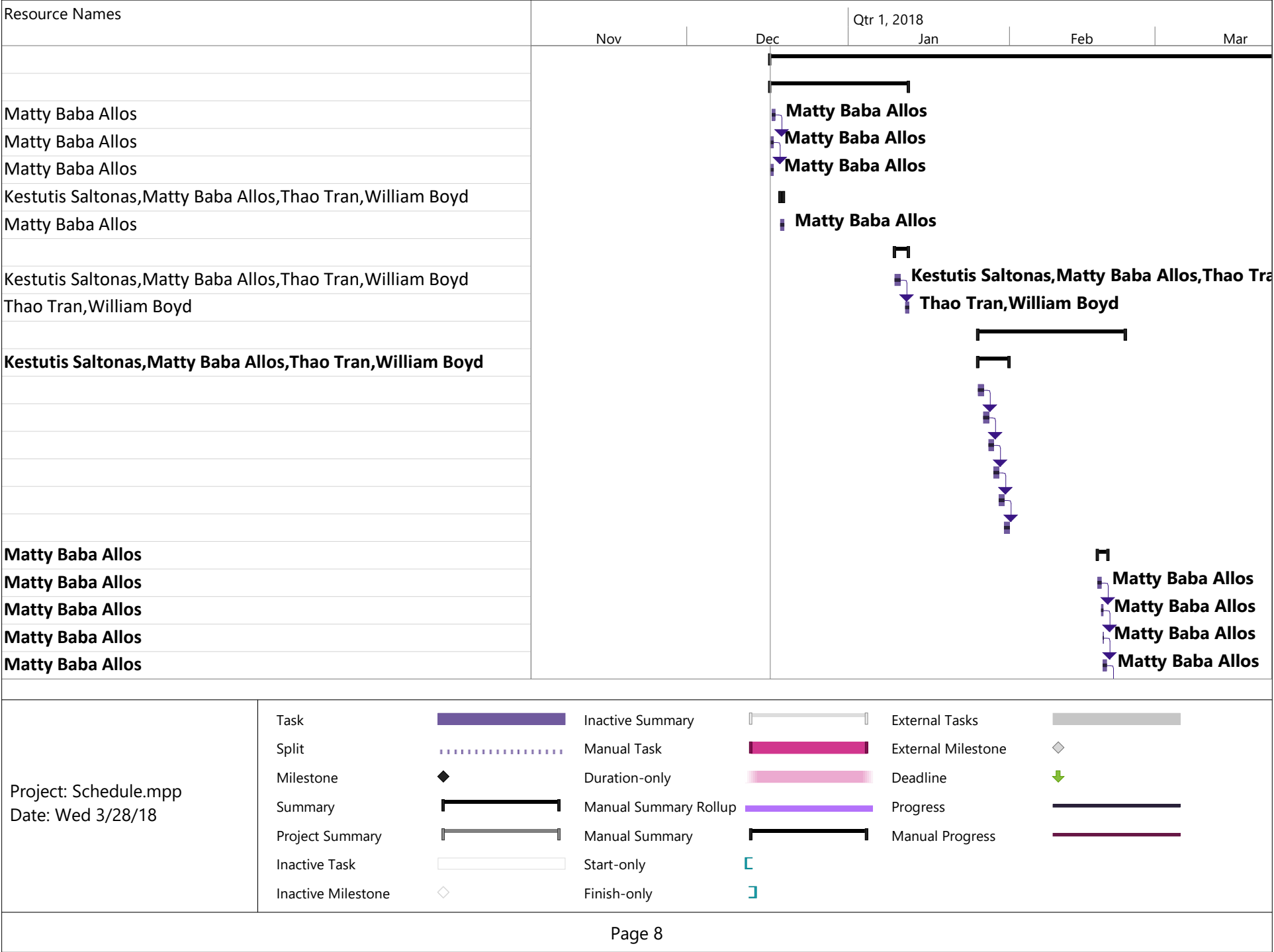
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
116			Prototype Sensors Software	1 day	Wed 3/21/18	Wed 3/21/18	115
117			Finalize Sensors	1 day	Thu 3/22/18	Thu 3/22/18	116
118			<b>First Term Project Assessment</b>	<b>2.25 days</b>	<b>Fri 3/23/18</b>	<b>Sun 3/25/18</b>	
119			Write First Term Project Assessment Draft	1.13 days	Fri 3/23/18	Fri 3/23/18	
120			Review First Term Project Assessment Draft	0.5 days	Fri 3/23/18	Sat 3/24/18	119
121			Revise First Term Project Assessment Draft	0.25 days	Sat 3/24/18	Sat 3/24/18	120
122			Review First Term Project Assessment Document	0.38 days	Sat 3/24/18	Sat 3/24/18	121
123			Approve First Term Project Assessment Document	0.25 days	Sat 3/24/18	Sat 3/24/18	122
124			Submit First Term Project Assessment Document	0.5 days	Sat 3/24/18	Sun 3/25/18	123
125			<b>Test</b>	<b>3 days</b>	<b>Mon 4/30/18</b>	<b>Thu 5/3/18</b>	
126			Unit Testing	2 days	Mon 4/30/18	Tue 5/1/18	
127			UI Testing	2 days	Tue 5/1/18	Tue 5/1/18	126
128			Integration Testing	2 days	Tue 5/1/18	Wed 5/2/18	127
129			System Testing	2 days	Wed 5/2/18	Thu 5/3/18	128
130			<b>Product Documentation</b>	<b>5 days</b>	<b>Sun 5/6/18</b>	<b>Thu 5/10/18</b>	
131			Write Product Documentation Draft	1.13 days	Sun 5/6/18	Sun 5/6/18	
132			Review Product Documentation Draft	2 days	Sun 5/6/18	Mon 5/7/18	131
133			Revise Product Documentation Draft	2 days	Mon 5/7/18	Tue 5/8/18	132
134			Review Product Documentation Schedule	2 days	Tue 5/8/18	Wed 5/9/18	133
135			Approve Product Documentation	2 days	Wed 5/9/18	Thu 5/10/18	134
136			Submit Product Documentation	0 days	Thu 5/10/18	Thu 5/10/18	135
137			<b>Project Report</b>	<b>10 days</b>	<b>Mon 5/14/18</b>	<b>Wed 5/23/18</b>	
138			Write Project Report Draft	3 days	Mon 5/14/18	Tue 5/15/18	

Project: Schedule.mpp  
Date: Wed 3/28/18

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
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Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
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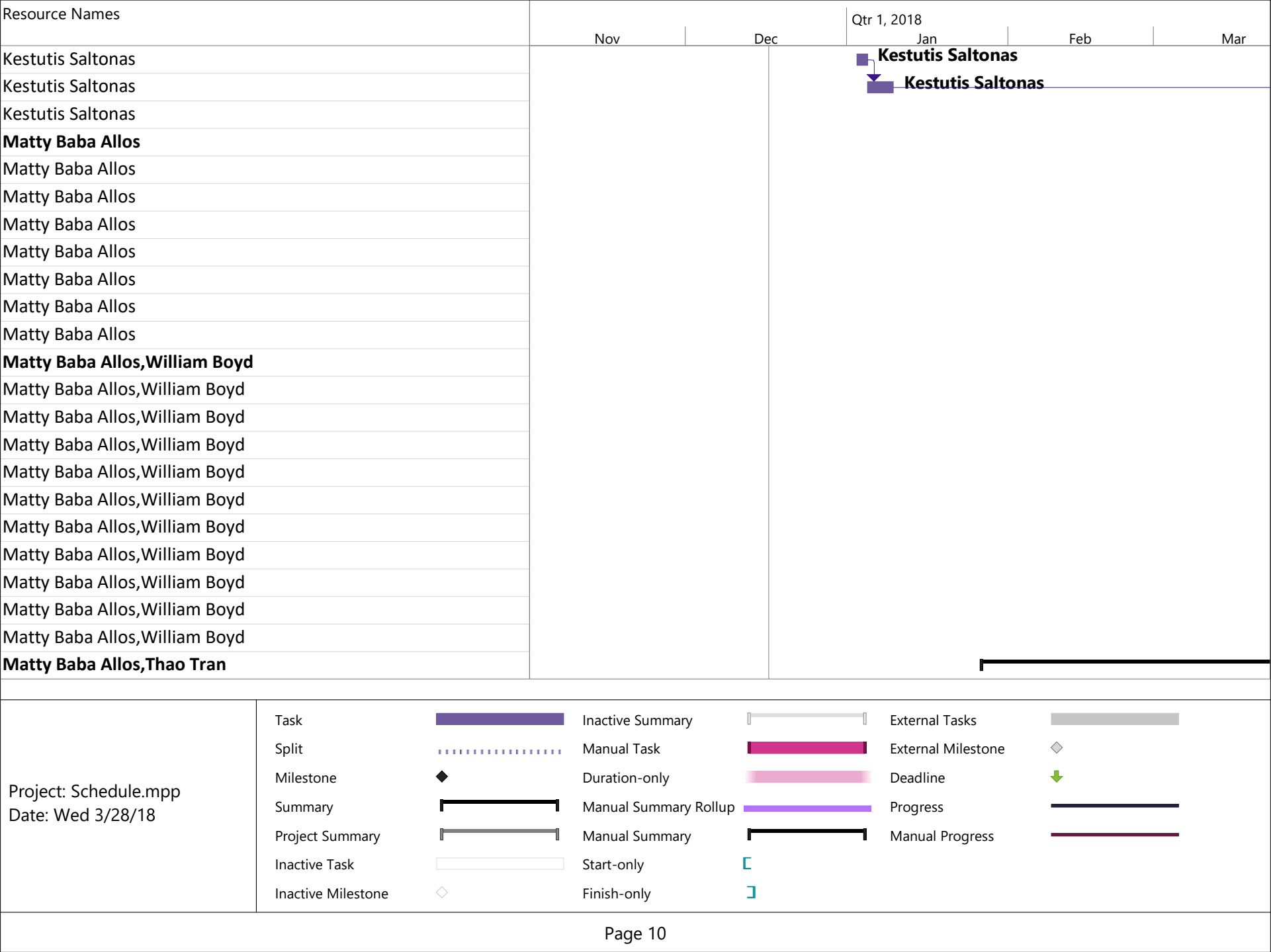
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
139			Review Project Report Draft	3.88 days	Tue 5/15/18	Thu 5/17/18	138
140			Revise Project Report Draft	3.88 days	Thu 5/17/18	Sat 5/19/18	139
141			Review Project Report Document	3.88 days	Sat 5/19/18	Mon 5/21/18	140
142			Approve Project Report Document	3.88 days	Mon 5/21/18	Wed 5/23/18	141
143			Submit Project Report Document	0 days	Wed 5/23/18	Wed 5/23/18	142
144			<b>Final Project Assessment</b>	<b>13 days</b>	<b>Mon 5/14/18</b>	<b>Sat 5/26/18</b>	
145			Write Final Term Project Assessment Draft	8 days	Mon 5/14/18	Fri 5/18/18	
146			Review Final Term Project Assessment Draft	3.88 days	Fri 5/18/18	Sun 5/20/18	145
147			Revise Final Term Project Assessment Draft	3.88 days	Sun 5/20/18	Tue 5/22/18	146
148			Review Final Term Project Assessment Document	3.88 days	Tue 5/22/18	Thu 5/24/18	147
149			Approve Final Term Project Assessment Document	3.88 days	Thu 5/24/18	Sat 5/26/18	148
150			Submit Final Term Project Assessment Document	0 days	Sat 5/26/18	Sat 5/26/18	149
151			<b>Project Poster</b>	<b>27 days</b>	<b>Tue 5/1/18</b>	<b>Mon 5/28/18</b>	
152			Design Project Poster	3 days	Tue 5/1/18	Wed 5/2/18	
153			Do Project Poster	7 days	Wed 5/2/18	Sun 5/6/18	152
154			Revise Project Poster	2 days	Sun 5/6/18	Mon 5/7/18	153
155			Review Project Poster	1 day	Mon 5/7/18	Tue 5/8/18	154
156			Approve Project Poster	0.63 days	Tue 5/8/18	Tue 5/8/18	155
157			Submit Project Poster	0 days	Mon 5/28/18	Mon 5/28/18	156

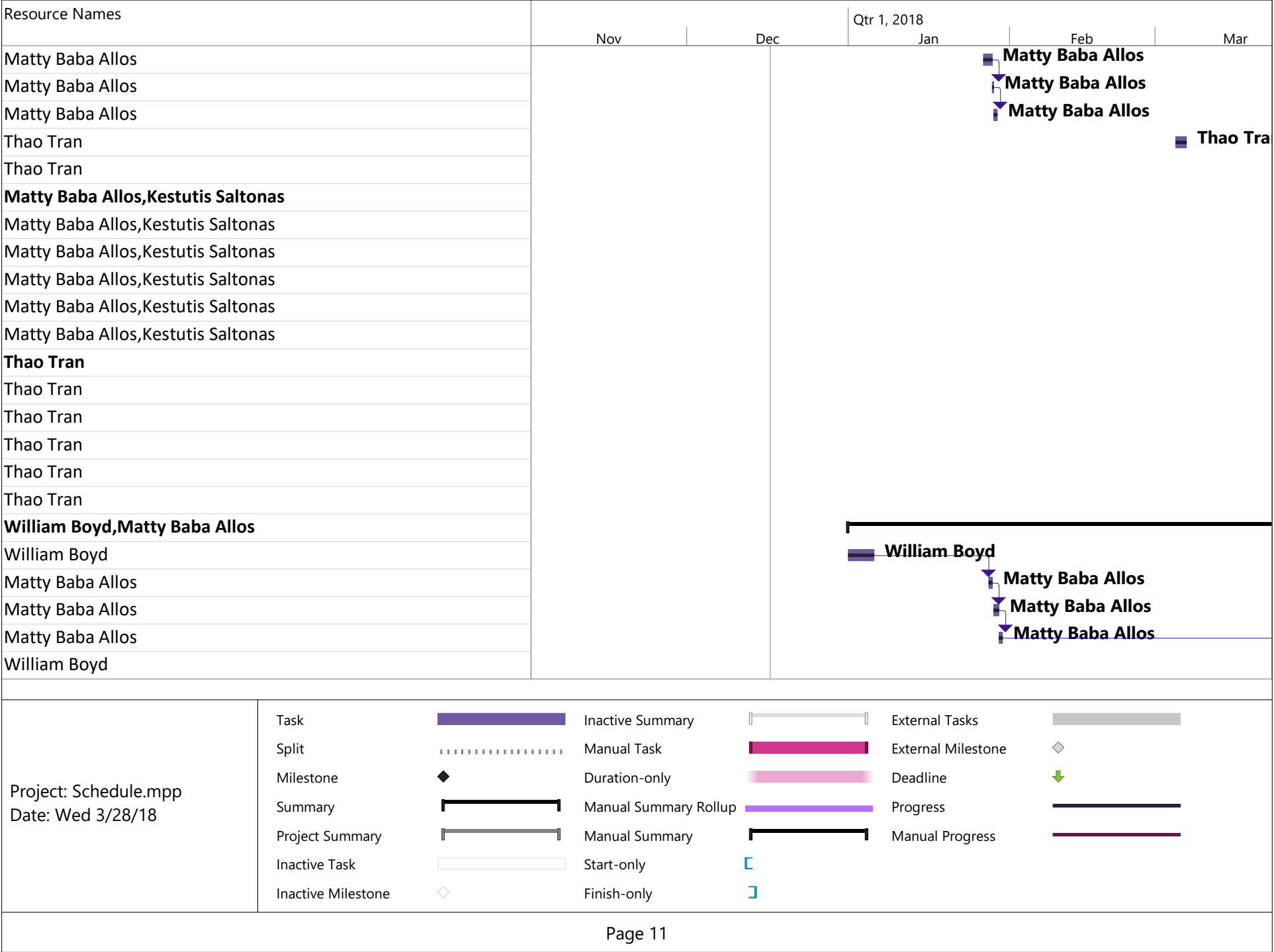
Project: Schedule.mpp Date: Wed 3/28/18		Task		Inactive Summary		External Tasks	
		Split		Manual Task		External Milestone	
		Milestone		Duration-only		Deadline	
		Summary		Manual Summary Rollup		Progress	
		Project Summary		Manual Summary		Manual Progress	
		Inactive Task		Start-only			
		Inactive Milestone		Finish-only			





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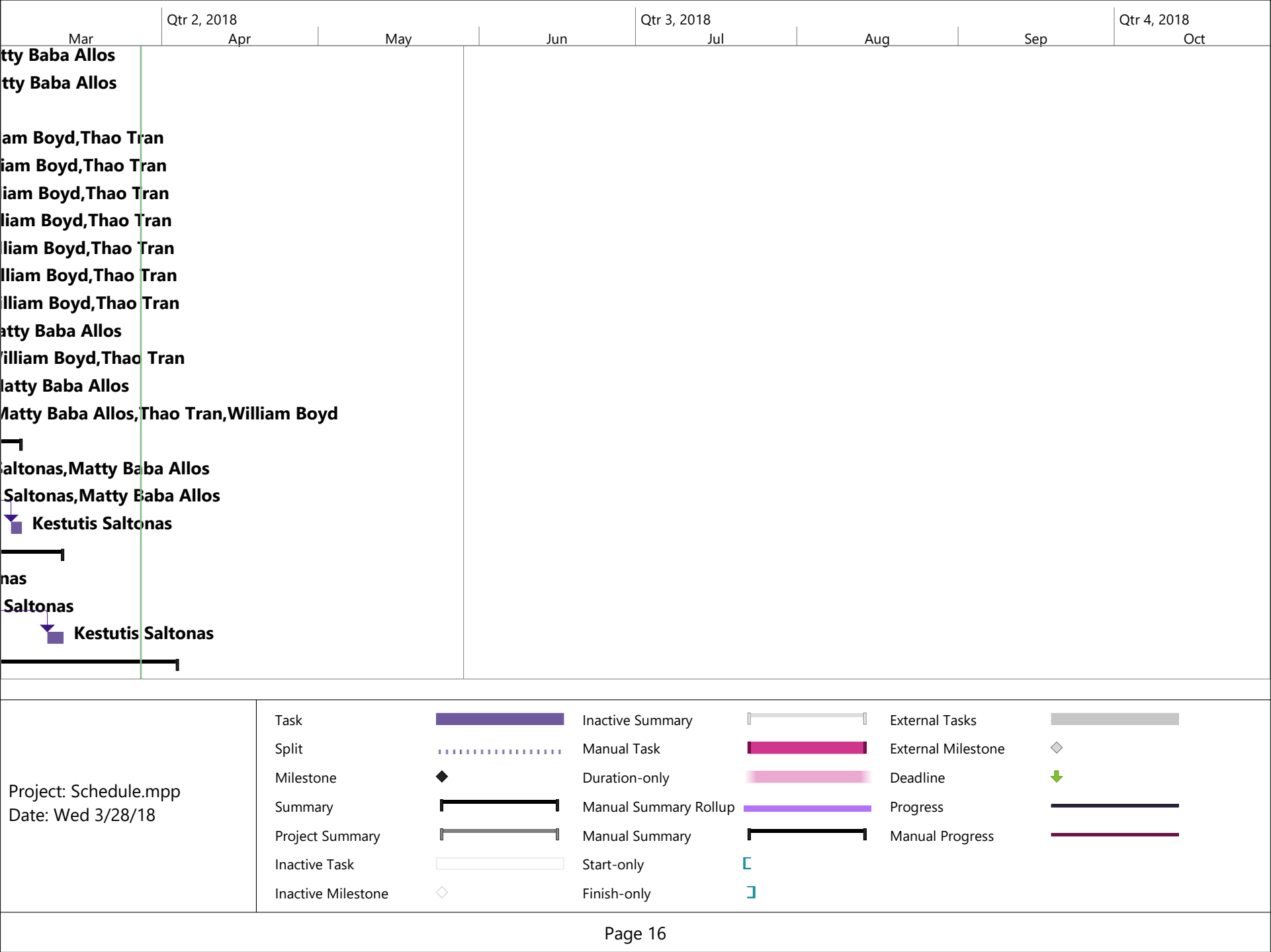


Resource Names				Nov		Dec		Qtr 1, 2018		Jan		Feb		Mar	
William Boyd															
Matty Baba Allos,Kestutis Saltonas															
Matty Baba Allos,Kestutis Saltonas															
Matty Baba Allos,Kestutis Saltonas															
Matty Baba Allos,Kestutis Saltonas															
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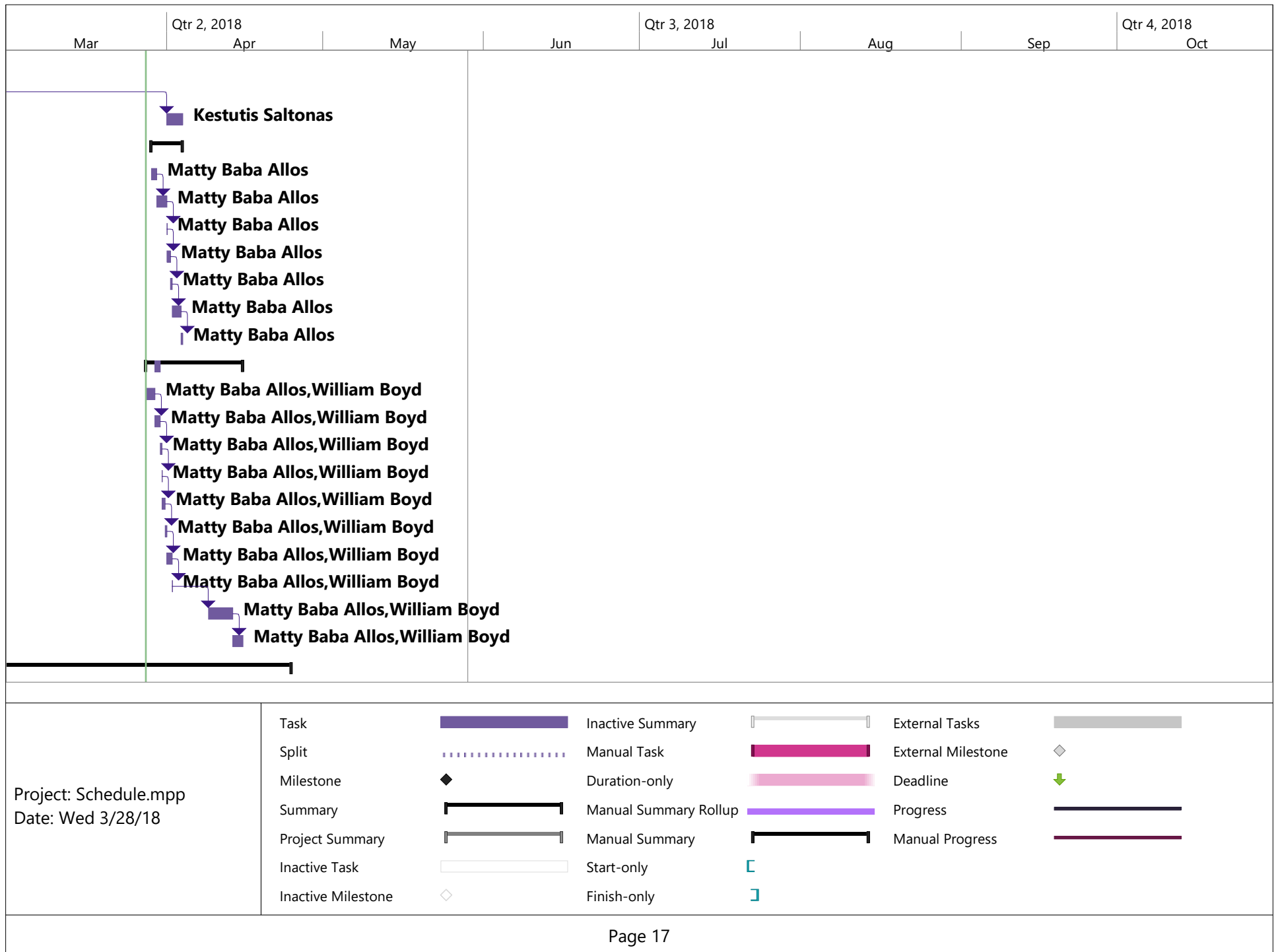


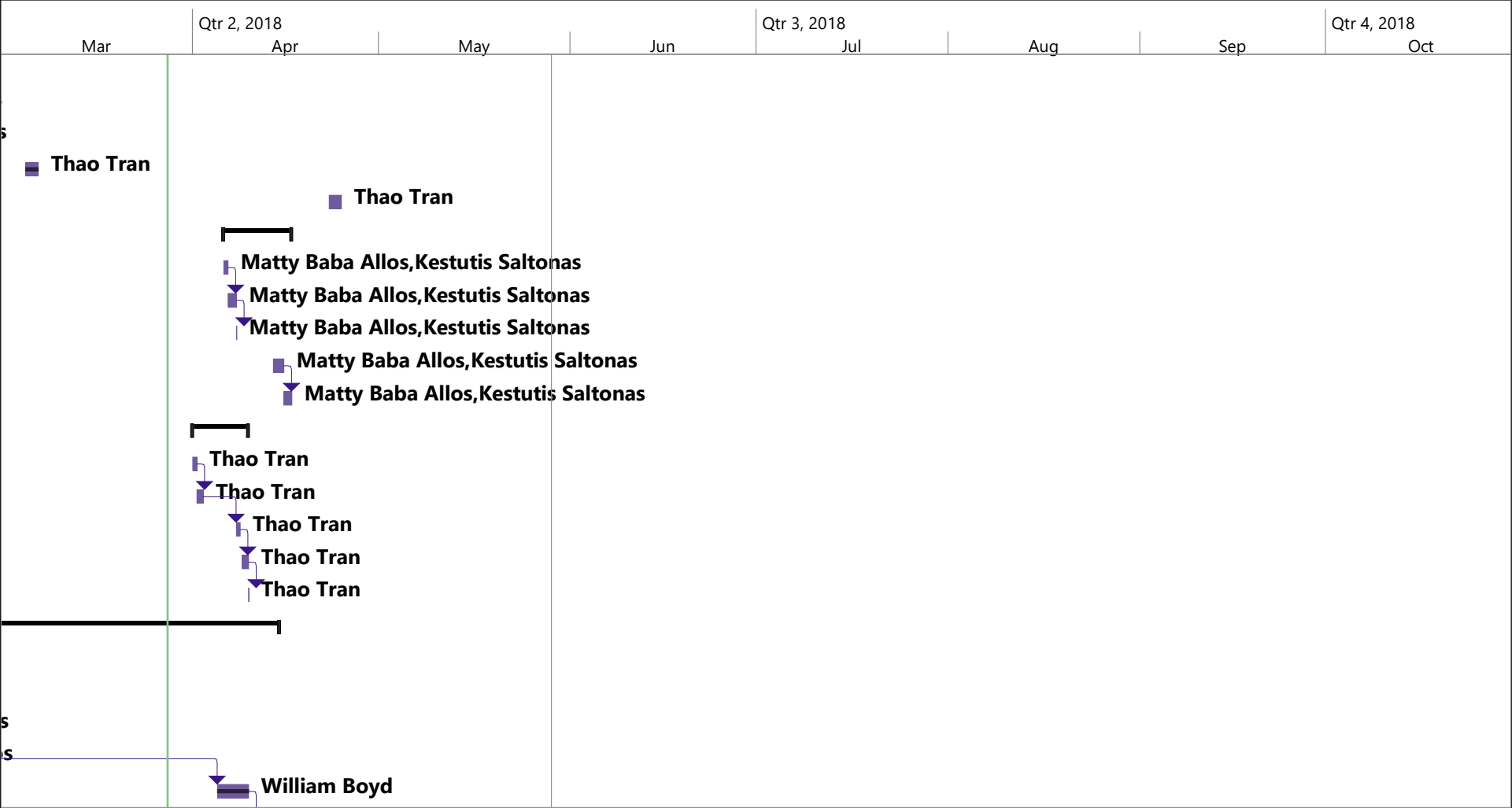






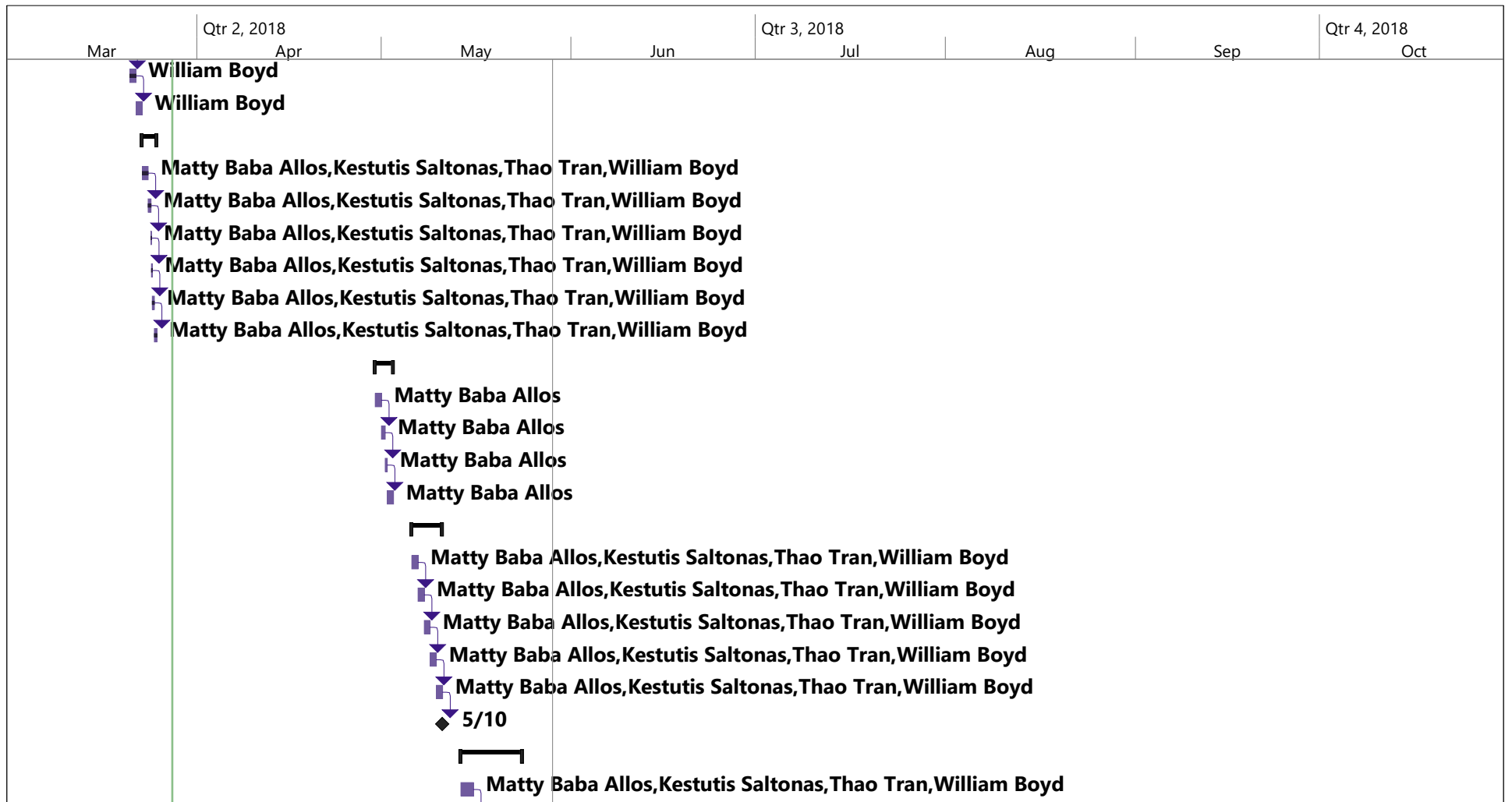




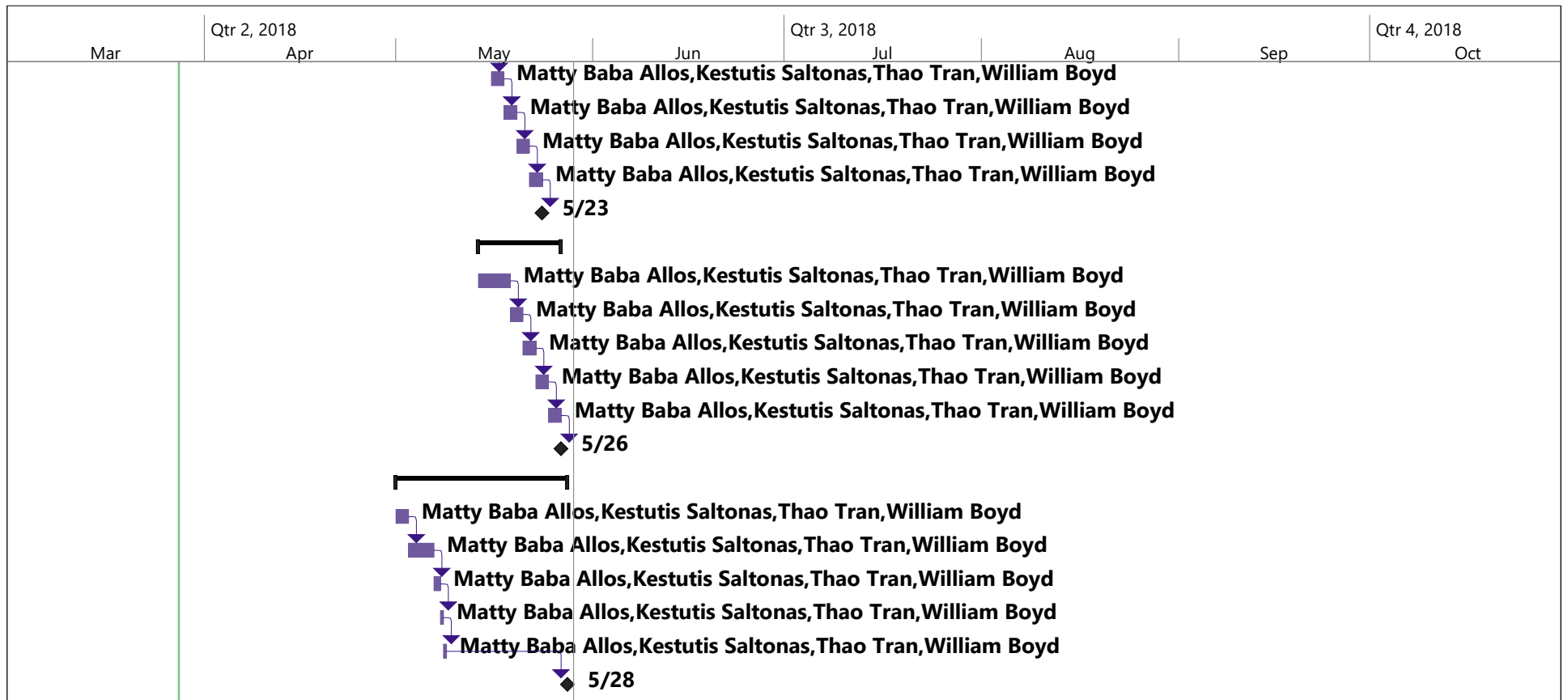


Project: Schedule.mpp Date: Wed 3/28/18	Task		Inactive Summary		Manual Task		External Tasks	
	Split		Manual Task		External Milestone			
	Milestone		Duration-only		Deadline			
	Summary		Manual Summary Rollup		Progress			
	Project Summary		Manual Summary		Manual Progress			
	Inactive Task		Start-only					
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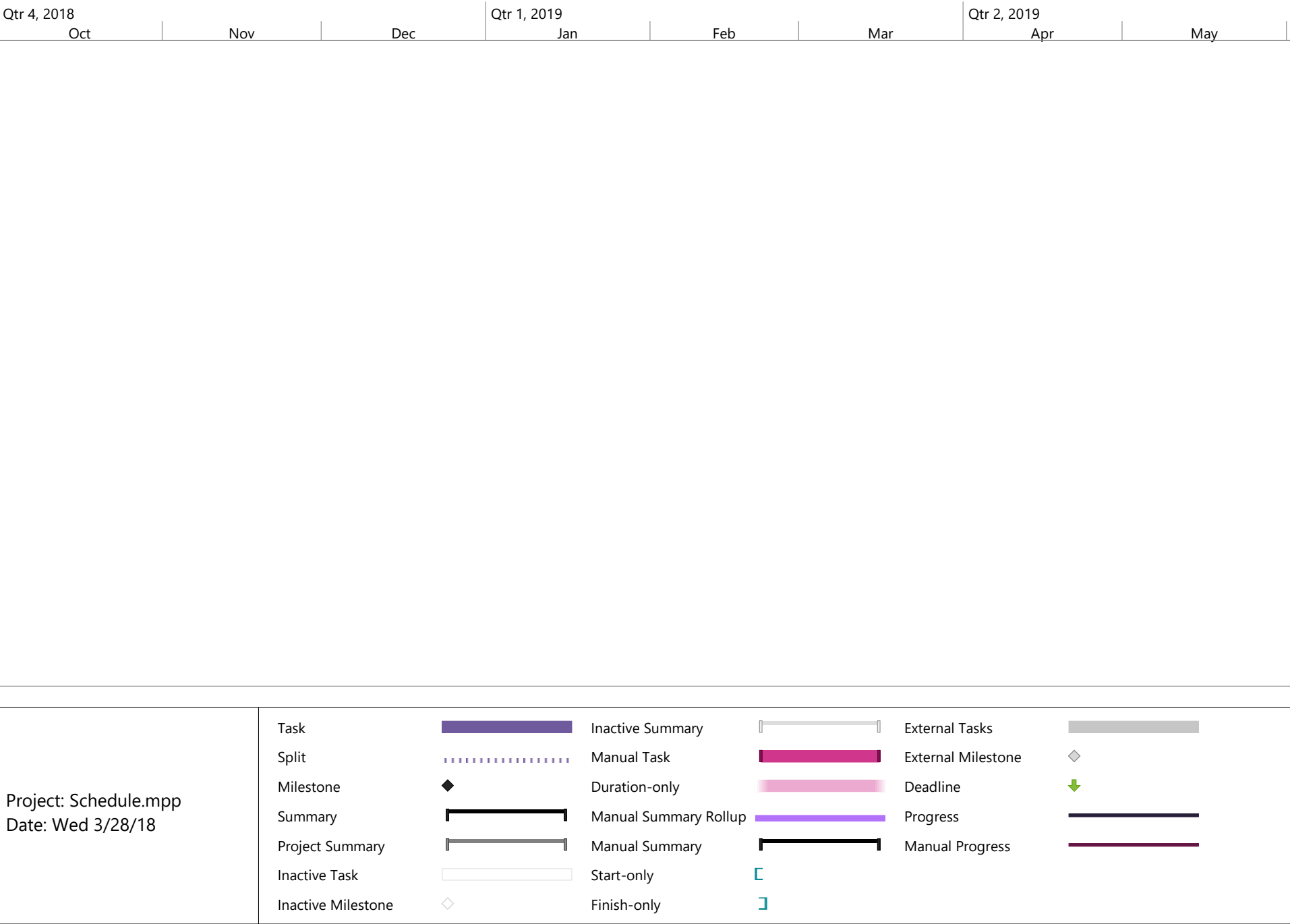


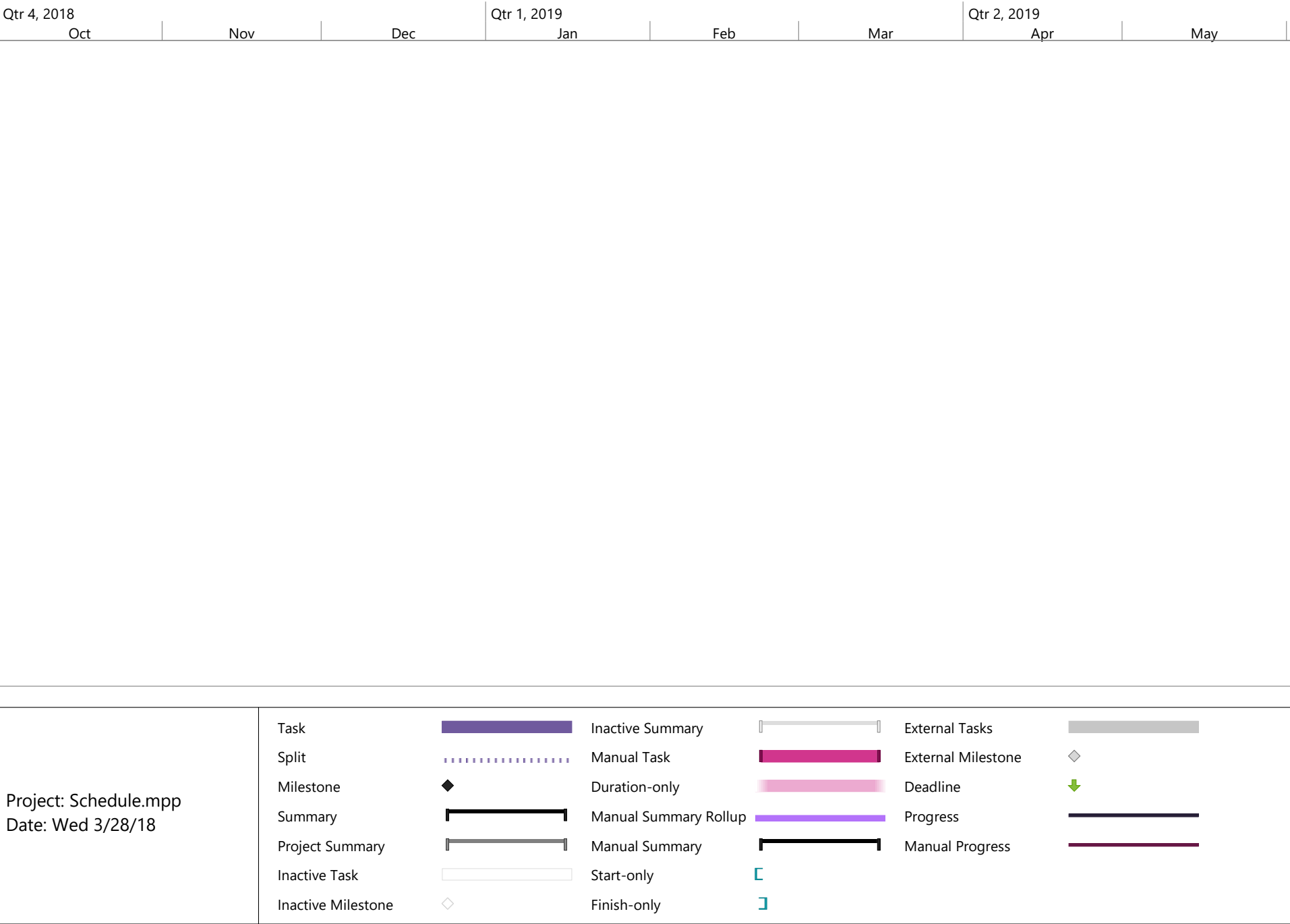





















Project: Schedule.mpp Date: Wed 3/28/18	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Progress	
	Project Summary		Manual Summary		Manual Progress	
	Inactive Task		Start-only			
	Inactive Milestone		Finish-only			






















Project: Schedule.mpp Date: Wed 3/28/18	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			

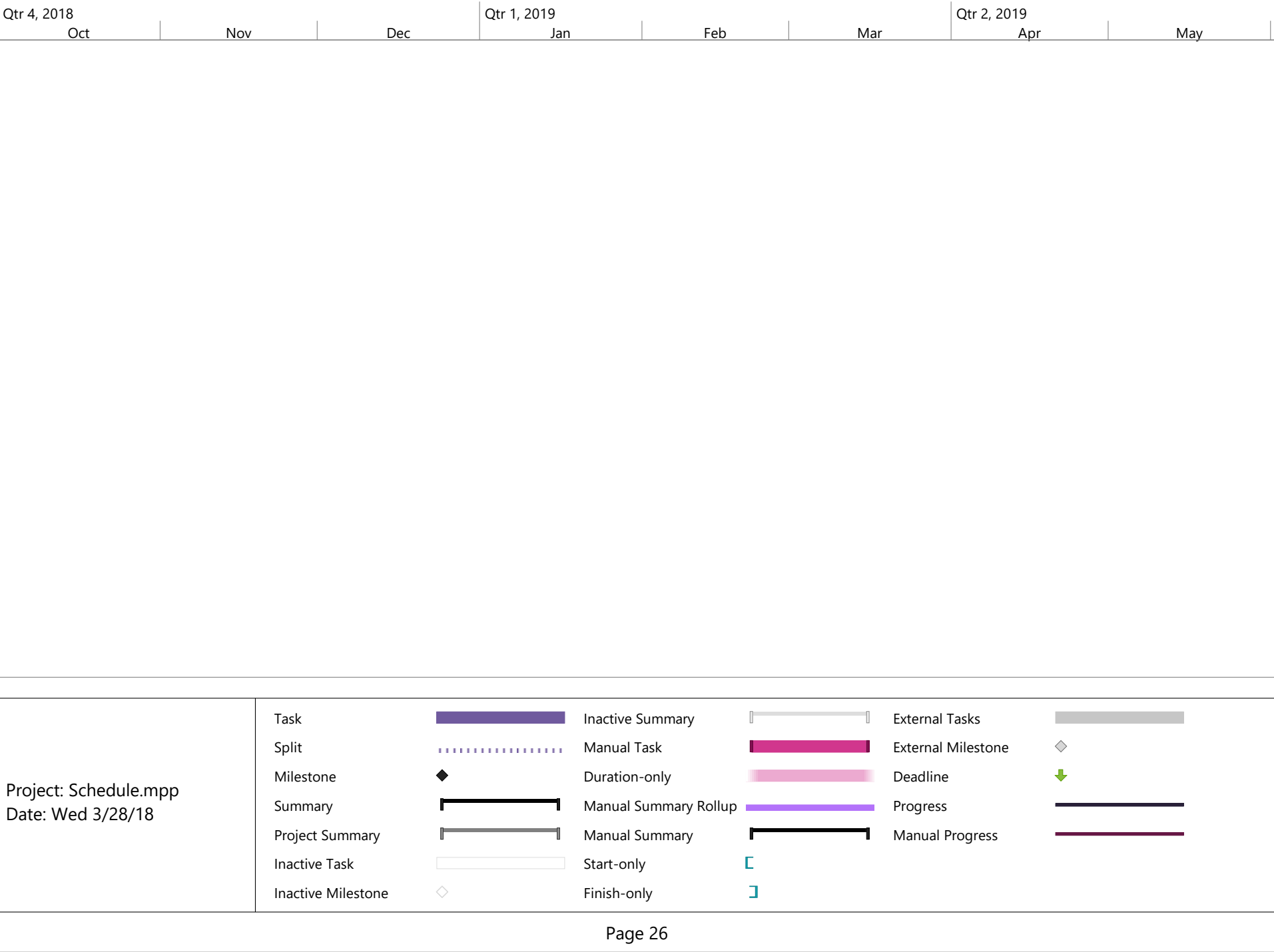























<div>Project: Schedule.mpp</div> <div>Date: Wed 3/28/18</div>	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Progress	
	Project Summary		Manual Summary		Manual Progress	
	Inactive Task		Start-only			
	Inactive Milestone		Finish-only			





















<div>Project: Schedule.mpp</div> <div>Date: Wed 3/28/18</div>	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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<div>Project: Schedule.mpp</div> <div>Date: Wed 3/28/18</div>	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			

<div>Project: Schedule.mpp</div> <div>Date: Wed 3/28/18</div>	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
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	Project Summary		Manual Summary		Manual Progress	
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