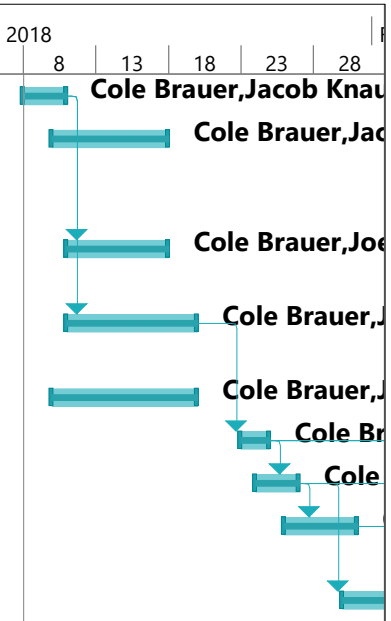
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		Invention Pitch	3 days	Mon 1/8/18	Wed 1/10/18		Cole Brauer,Jacob
2		Beginning of Semester Project Repository	6 days	Wed 1/10/18	Wed 1/17/18		Cole Brauer,Jacob Knaup,Joel Goodin,Shelby
3		Customer Discovery Dinner	5 days	Thu 1/11/18	Wed 1/17/18	1	Cole Brauer,Joel Goodin,Shelby
4		Business Model Canvas	7 days	Thu 1/11/18	Fri 1/19/18	1	Cole Brauer,Jacob Knaup,Joel
5		Team Charter	8 days	Wed 1/10/18	Fri 1/19/18		Cole Brauer,Jacob
6		Problem Definition	2 days	Tue 1/23/18	Wed 1/24/18	4	Cole Brauer,Jacob
7		Block Diagram	3 days	Wed 1/24/18	Fri 1/26/18	6	Cole Brauer,Jacob
8		Microcontroller Selection Rationale	3 days	Fri 1/26/18	Tue 1/30/18	7	Cole Brauer,Jacob Knaup,Joel
9		Major Component Selection Rationale	5 days	Tue 1/30/18	Mon 2/5/18	7	Joel Goodin,Jacob Knaup,Cole
10		Proof of Major Parts	3 days	Mon 2/5/18	Wed 2/7/18	9	Joel Goodin,Jacob
11		Sensor Subsystem Schematic	6 days	Mon 2/5/18	Mon 2/12/18	9	Jacob Knaup
12		Photon Subsystem Schematic	6 days	Mon 2/5/18	Mon 2/12/18	9	Joel Goodin
13		RTC and PS Subsystem Schematic	6 days	Mon 2/5/18	Mon 2/12/18	9	Shelby Reed



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Split		Manual Task		External Milestone	
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Inactive Task		Start-only			
Inactive Milestone		Finish-only			

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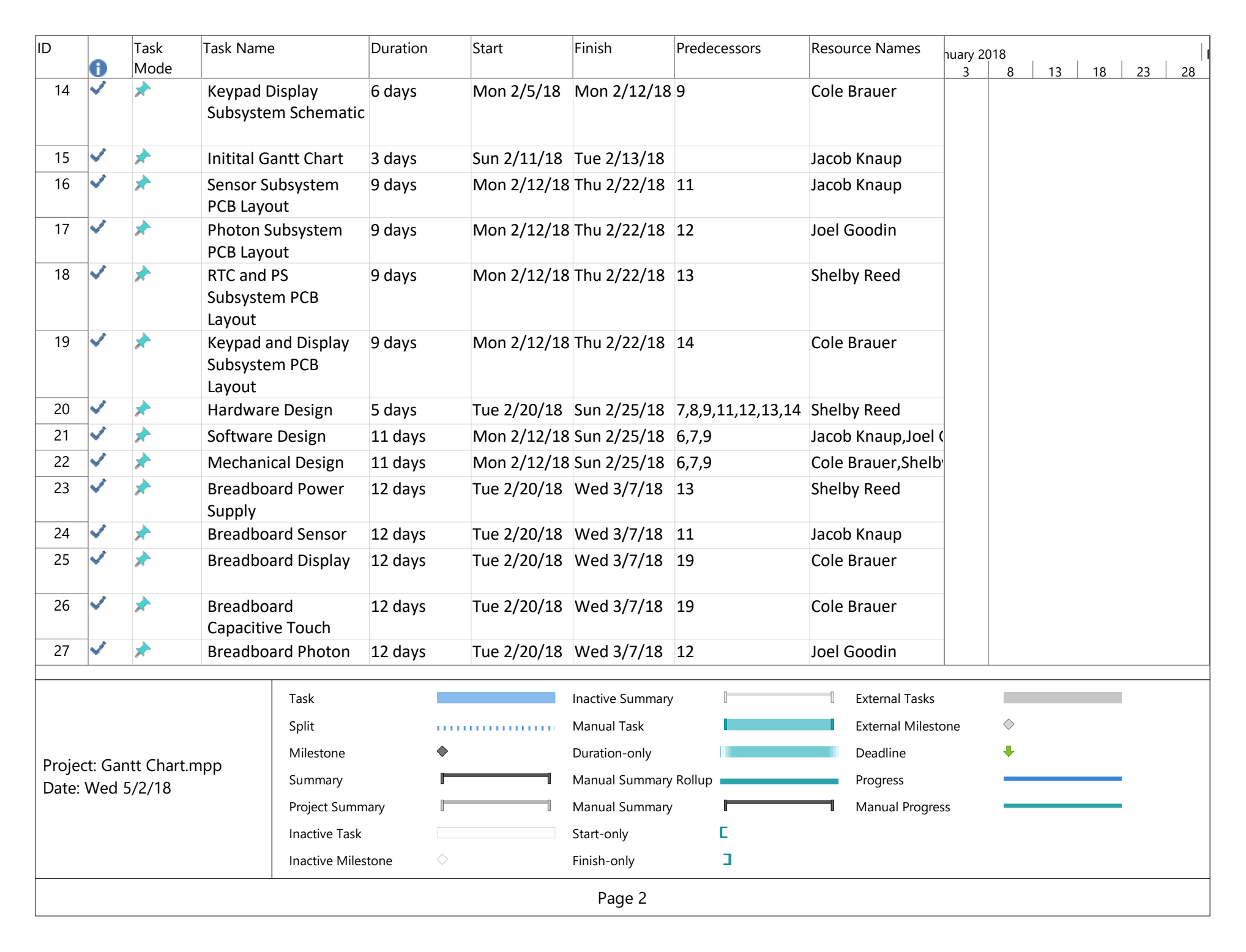
14		Keypad Display Subsystem Schematic	6 days	Mon 2/5/18	Mon 2/12/18	9	Cole Brauer
15		Initital Gantt Chart	3 days	Sun 2/11/18	Tue 2/13/18		Jacob Knaup
16		Sensor Subsystem PCB Layout	9 days	Mon 2/12/18	Thu 2/22/18	11	Jacob Knaup
17		Photon Subsystem PCB Layout	9 days	Mon 2/12/18	Thu 2/22/18	12	Joel Goodin
18		RTC and PS Subsystem PCB Layout	9 days	Mon 2/12/18	Thu 2/22/18	13	Shelby Reed
19		Keypad and Display Subsystem PCB Layout	9 days	Mon 2/12/18	Thu 2/22/18	14	Cole Brauer
20		Hardware Design	5 days	Tue 2/20/18	Sun 2/25/18	7,8,9,11,12,13,14	Shelby Reed
21		Software Design	11 days	Mon 2/12/18	Sun 2/25/18	6,7,9	Jacob Knaup,Joel (
22		Mechanical Design	11 days	Mon 2/12/18	Sun 2/25/18	6,7,9	Cole Brauer,Shelb
23		Breadboard Power Supply	12 days	Tue 2/20/18	Wed 3/7/18	13	Shelby Reed
24		Breadboard Sensor	12 days	Tue 2/20/18	Wed 3/7/18	11	Jacob Knaup
25		Breadboard Display	12 days	Tue 2/20/18	Wed 3/7/18	19	Cole Brauer
26		Breadboard Capacitive Touch	12 days	Tue 2/20/18	Wed 3/7/18	19	Cole Brauer
27		Breadboard Photon	12 days	Tue 2/20/18	Wed 3/7/18	12	Joel Goodin



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28		Breadboard MCU ICSP	12 days	Tue 2/20/18	Wed 3/7/18		Jacob Knaup,Joel Goodin
29		Design Review Presentation Plan	2 days	Sun 2/25/18	Mon 2/26/18	20,21,22	Cole Brauer,Jacob Knaup,Joel
30		Middle of Semester Project Repository	24 days	Tue 1/30/18	Fri 3/2/18		Joel Goodin,Jacob Knaup,Cole
31		Proof of All Parts	5 days	Mon 2/26/18	Fri 3/2/18	8,9,10,11,12,13,14	Cole Brauer,Jacob
32		Manufacture Sensor PCB	7 days	Thu 2/22/18	Fri 3/2/18	16	Jacob Knaup
33		Manufacture Photon PCB	7 days	Thu 2/22/18	Fri 3/2/18	18	Joel Goodin
34		Manufacture RTC and PS PCB	7 days	Thu 2/22/18	Fri 3/2/18	17	Shelby Reed
35		Manufacture Keypad and Display PCB	7 days	Thu 2/22/18	Fri 3/2/18	19	Cole Brauer
36		Revised Gantt Chart	20 days	Wed 2/14/18	Tue 3/13/18	15	Jacob Knaup
37		Test Sensor Subsystem	10 days	Mon 3/5/18	Fri 3/16/18	32	Jacob Knaup
38		Test Photon Subsystem	10 days	Mon 3/5/18	Fri 3/16/18	33	Joel Goodin
39		Test RTC and PS Subsystem	10 days	Mon 3/5/18	Fri 3/16/18	34	Shelby Reed
40		Test Keypad and Display Subsystem	10 days	Mon 3/5/18	Fri 3/16/18	35	Cole Brauer

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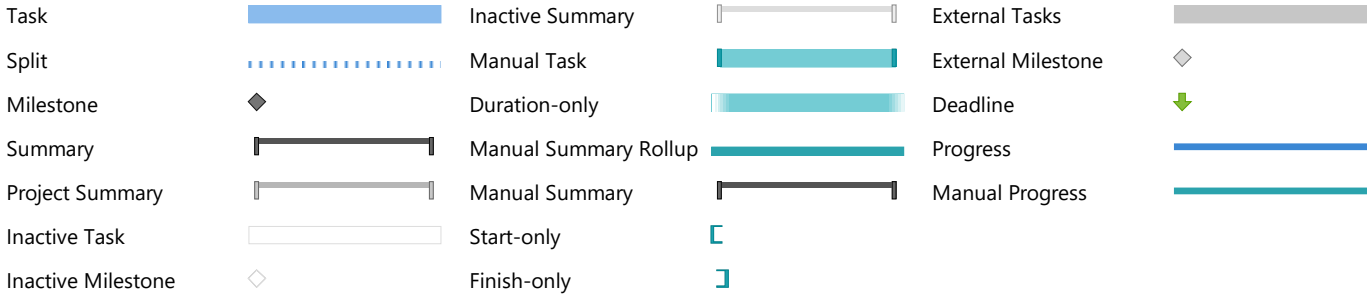

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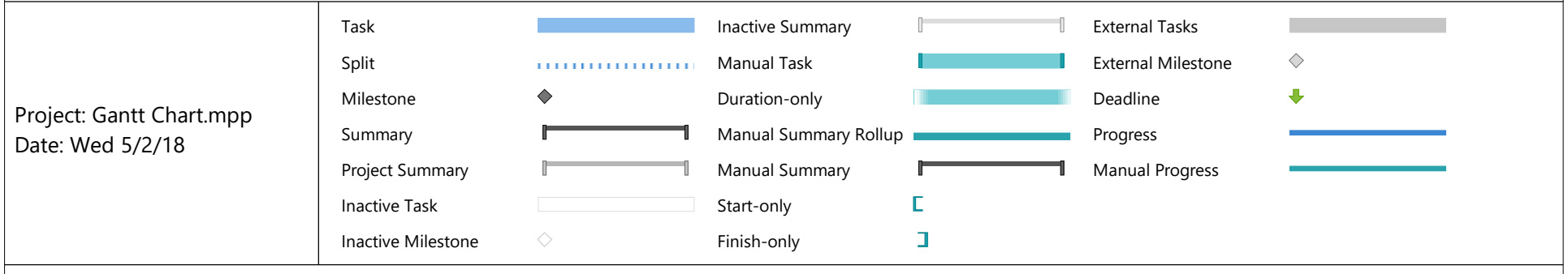
41		Full PCB Layout	17 days	Thu 2/22/18	Fri 3/16/18	16,17,18,19,20,37,	Shelby Reed
42		Manufacture Full PCB	4 days	Thu 3/29/18	Tue 4/3/18	41	Shelby Reed
43		Solder Full PCB	4 days	Wed 4/4/18	Mon 4/9/18	42	Cole Brauer,Jacob
44		Hello World of Digital I/O	26 days	Fri 2/16/18	Fri 3/23/18	8,10	Cole Brauer,Jacob Knaup,Joel
45		Hardware Unit Testing Demos	24 days	Fri 3/2/18	Wed 4/4/18	31,37,38,39,40,41	Cole Brauer,Jacob Knaup,Joel
46		In system Programming & Analog I/O	10 days	Mon 3/26/18	Fri 4/6/18	44	Cole Brauer,Jacob Knaup,Joel Goodin,Shelby
47		RTC Interface Programming	15 days	Tue 3/27/18	Mon 4/16/18	31	Shelby Reed
48		Sensor and I/O Expander Interface I2C Programming	15 days	Tue 3/27/18	Mon 4/16/18	31	Jacob Knaup
49		Keypad Capacitive Touch Interface Programming	15 days	Tue 3/27/18	Mon 4/16/18	31	Cole Brauer
50		Display SPI Interface Programming	15 days	Tue 3/27/18	Mon 4/16/18	31	Cole Brauer
51		Photon I2C Interface Programming	15 days	Tue 3/27/18	Mon 4/16/18	31	Joel Goodin
52		MCU SPI Interface Programming	15 days	Tue 3/27/18	Mon 4/16/18	31	Jacob Knaup,Joel Goodin



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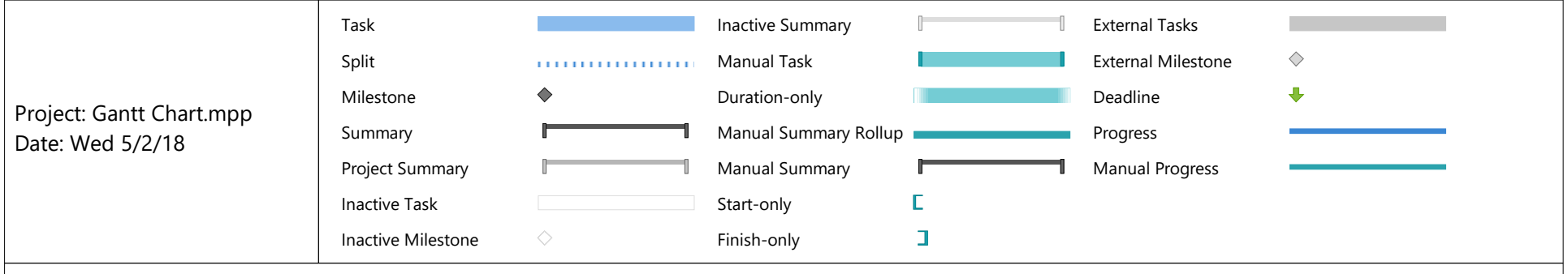
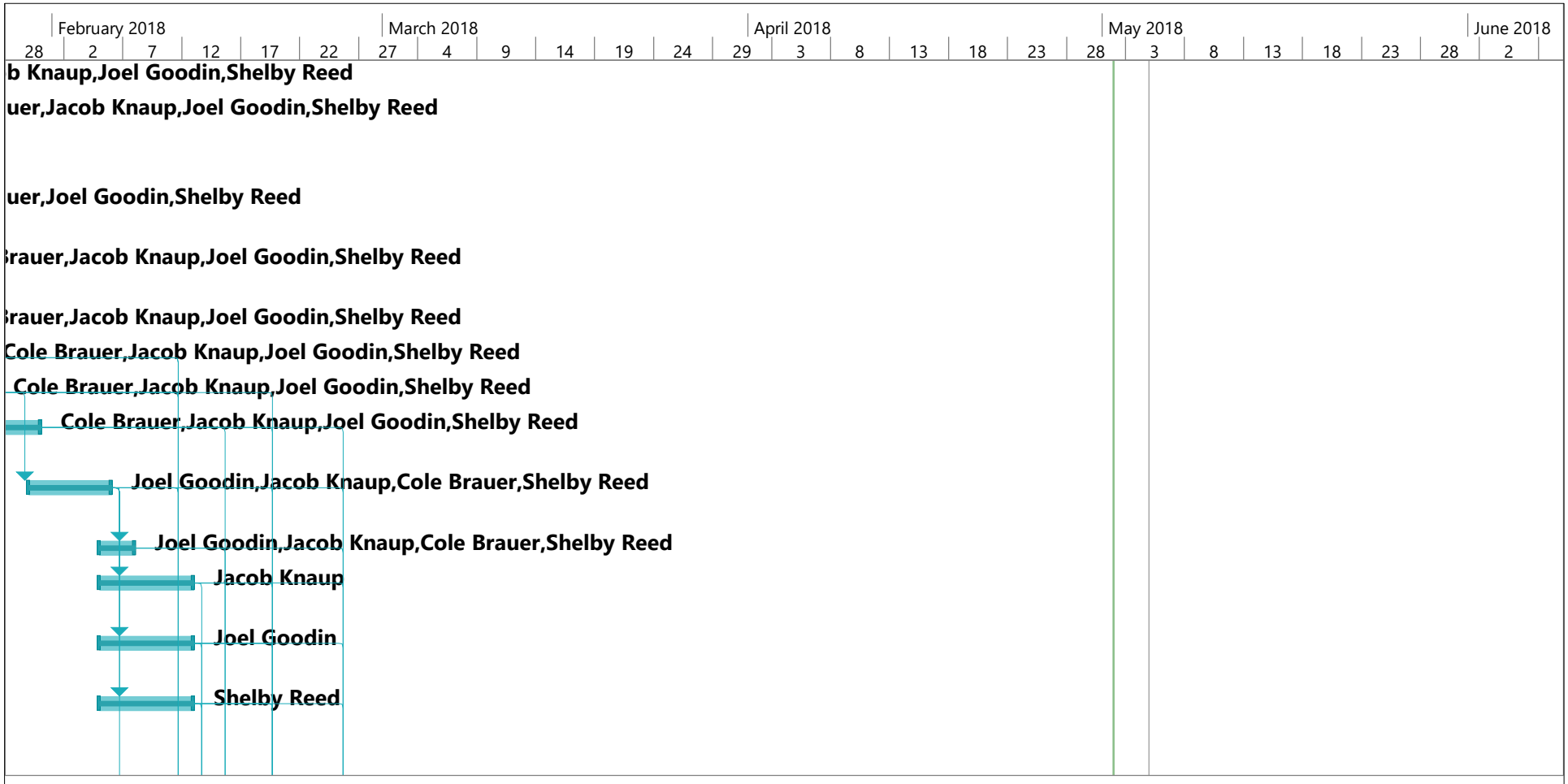
53		Software Unit Testing Demo	9 days	Wed 4/4/18	Mon 4/16/18	45	Jacob Knaup,Joel Goodin
54		Innovation Showcase Poster	33 days	Thu 3/8/18	Sun 4/22/18	20,21,22	Cole Brauer,Jacob Knaup,Joel
55		Prepare Showcase Setup	25 days	Mon 3/26/18	Fri 4/27/18	22	Cole Brauer,Jacob Knaup,Joel
56		Random Events Programming	16 days	Mon 3/26/18	Mon 4/16/18	21	Shelby Reed
57		Full Scorepad Program	6 days	Mon 4/16/18	Sun 4/22/18	21	Cole Brauer,Jacob Knaup,Joel
58		Full Board Program	6 days	Mon 4/16/18	Sun 4/22/18	21	Cole Brauer,Jacob
59		Innovation Showcase	1 day	Fri 4/27/18	Fri 4/27/18	53,54	Cole Brauer,Jacob Knaup,Joel
60		Final Report	5 days	Mon 4/30/18	Fri 5/4/18	20,21,22,54,59	Cole Brauer,Jacob
61		End of Semester Project Repository	45 days	Mon 3/5/18	Fri 5/4/18	30	Cole Brauer,Jacob Knaup,Joel





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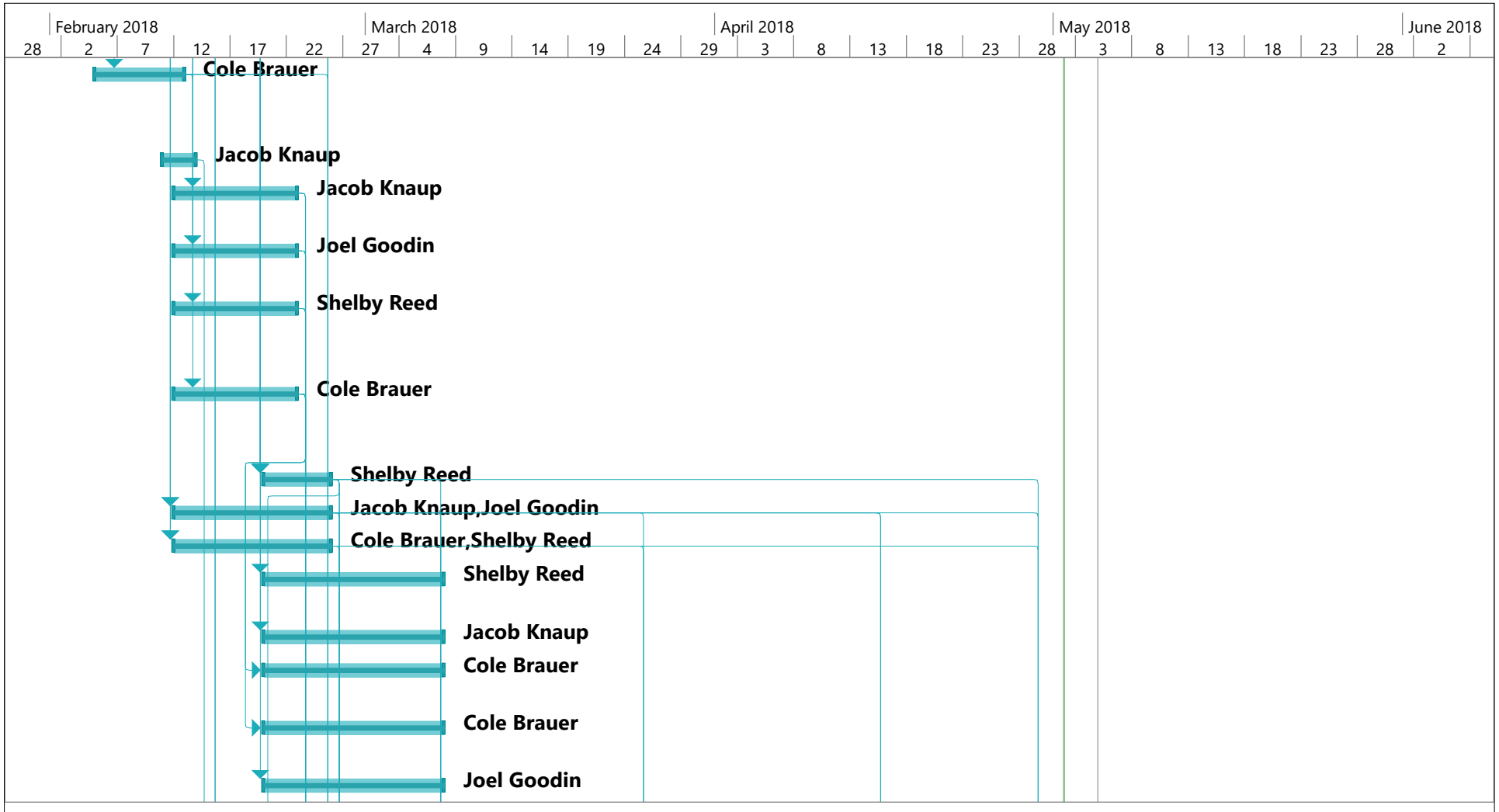

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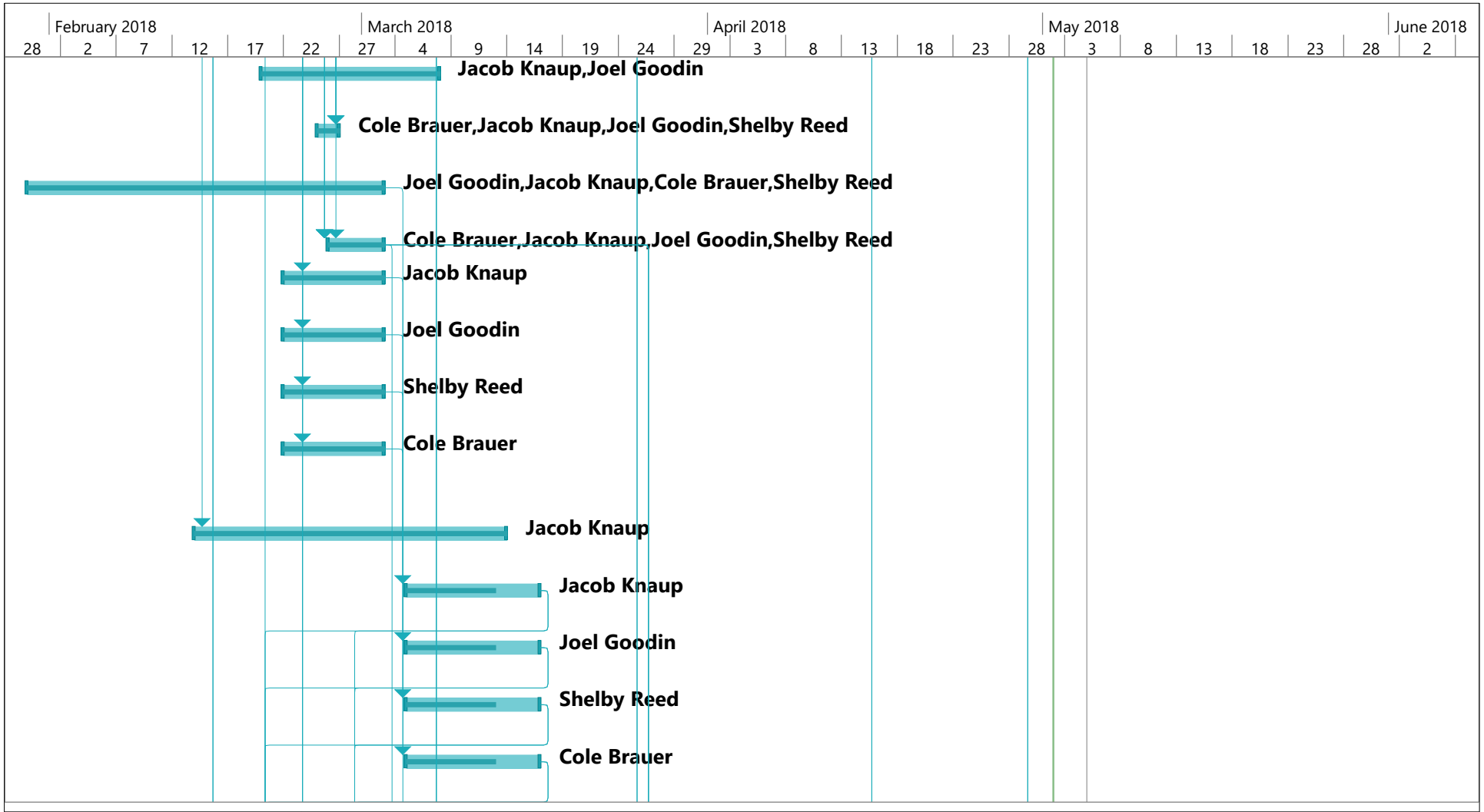

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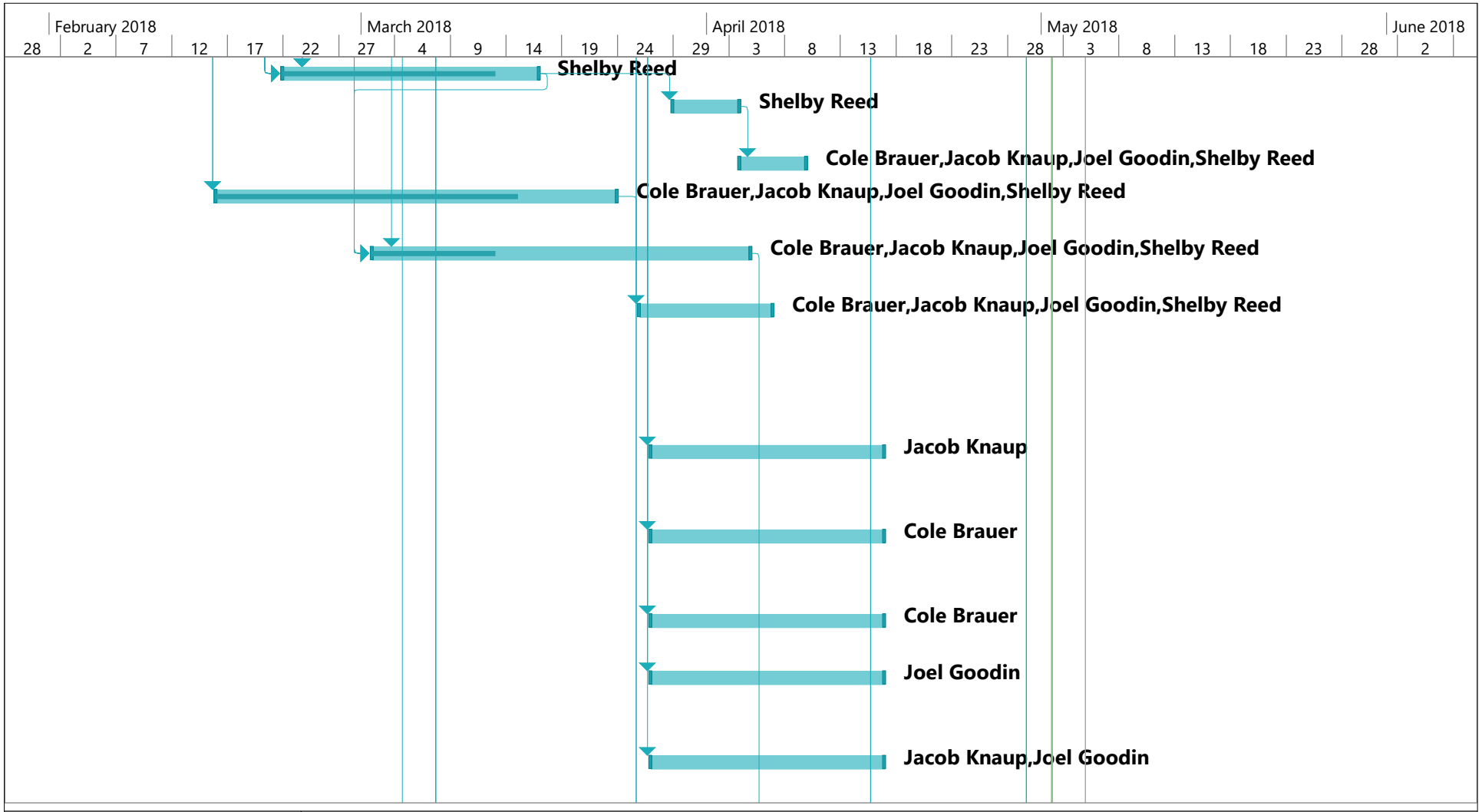

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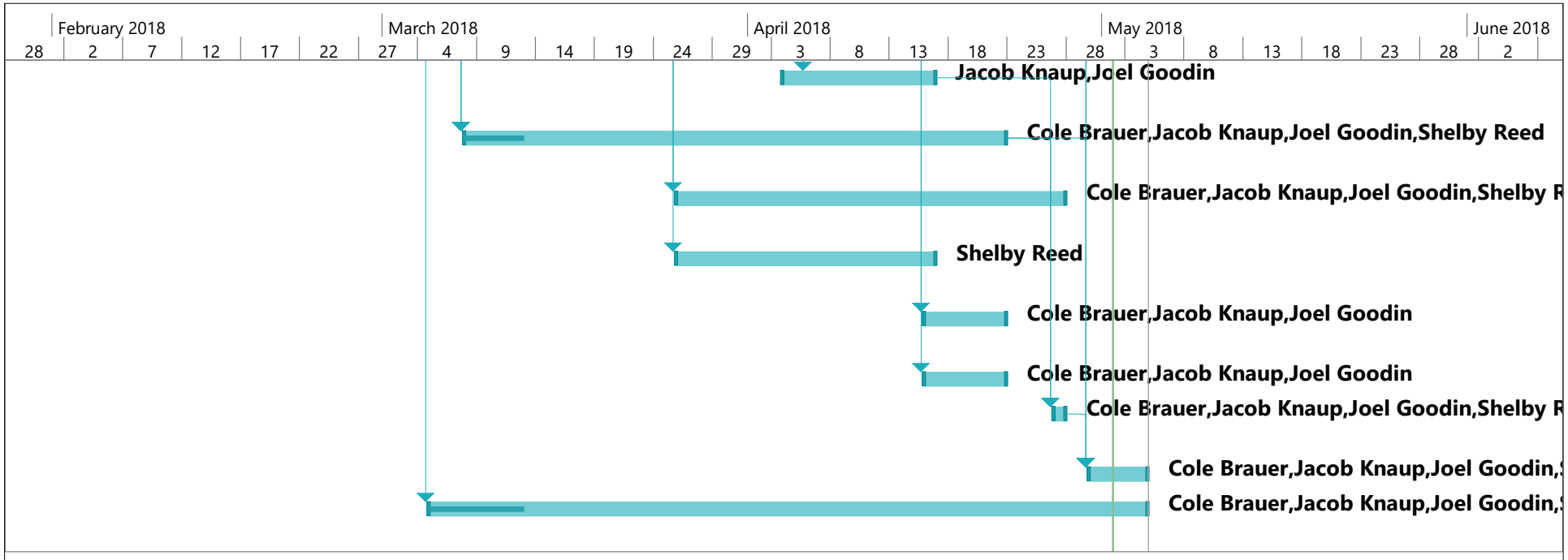

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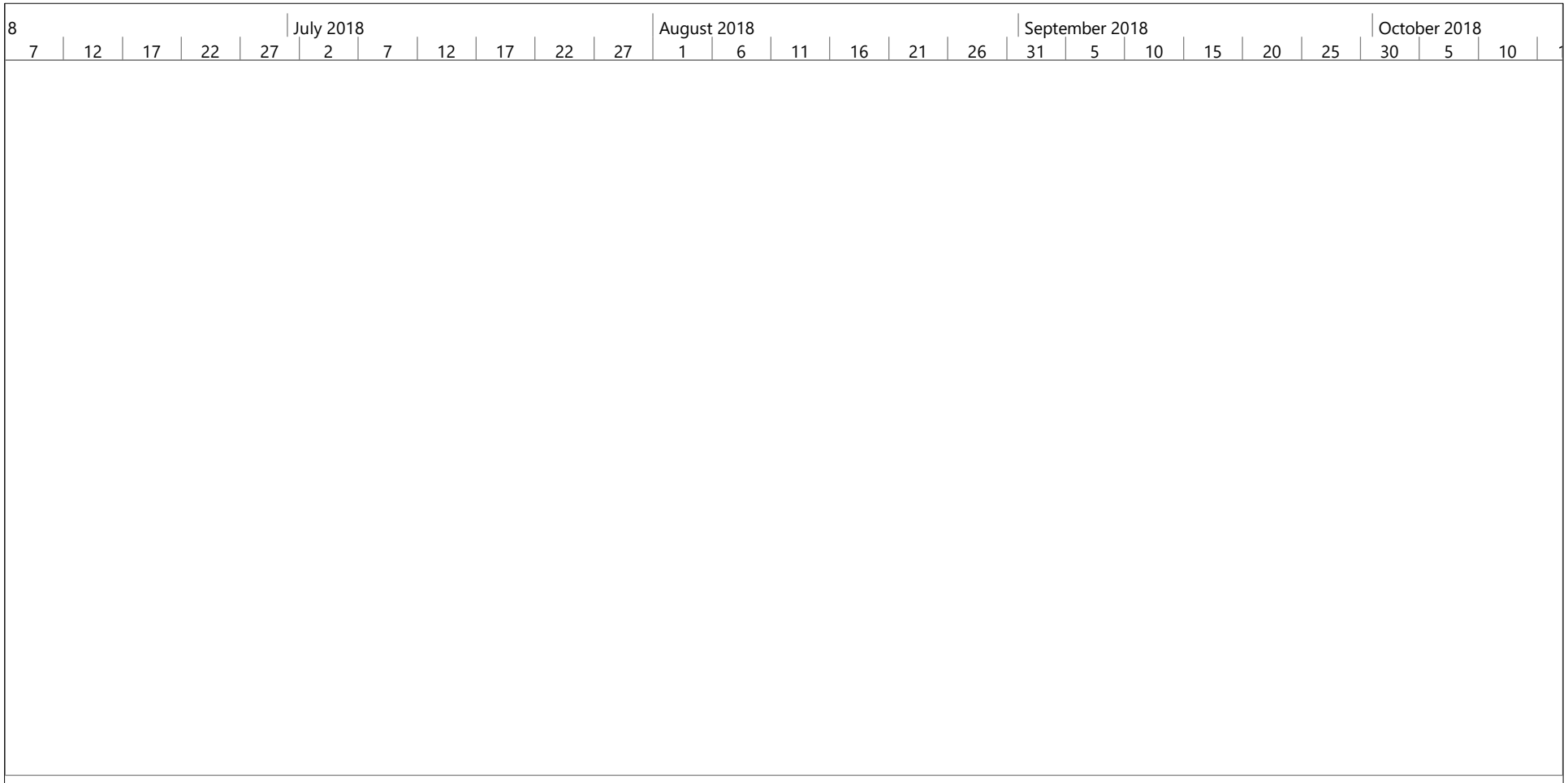

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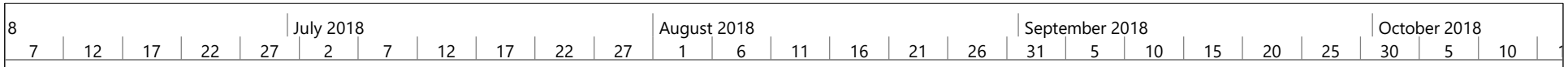

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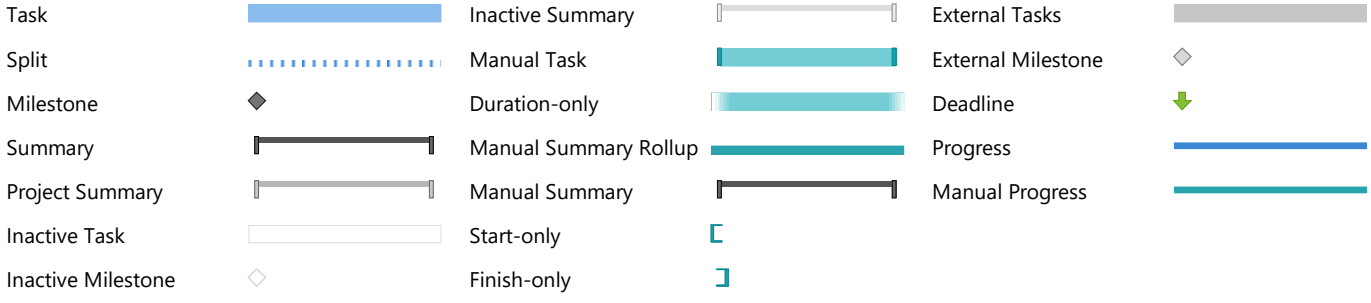
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