

		Name	Duration	Start	Finish	Predecessors	Resource Names	M	T	W	T	F
1		Define scope & roles	1 day?	11/6/25, 11:00AM	11/7/25, 11:00AM		Project Manager					
2		research relevant APIs	3 days?	11/7/25, 11:00AM	11/12/25, 11:00AM	1	Data Analyst					
3		Design system architecture	3 days?	11/7/25, 11:00AM	11/12/25, 11:00AM	1	Frontend Developer					
4		Create GitHub repo & docs	3 days?	11/7/25, 11:00AM	11/12/25, 11:00AM	1	Project Manager					
5		Design GUI wireframe	3 days?	11/7/25, 11:00AM	11/12/25, 11:00AM	1	Frontend Developer					
7		Implement Spotify OAuth f...	5 days?	11/12/25, 11:00AM	11/19/25, 11:00AM	5	Backend Developer					
8		Fetch user's top tracks & a...	3 days?	11/19/25, 11:00AM	11/24/25, 11:00AM	7	Backend Developer					
9		Connect TMDb & OMDB APIs	3 days?	11/12/25, 11:00AM	11/17/25, 11:00AM	5	Backend Developer					
10		Create prototype recomm...	5 days?	11/12/25, 11:00AM	11/19/25, 11:00AM	5	Backend Developer					
12		Build main GUI layout (PyQ...	3 days?	11/13/25, 11:00AM	11/18/25, 11:00AM	5	Frontend Developer					
13		Integrate backend APIs	5 days?	11/13/25, 11:00AM	11/20/25, 11:00AM	5	Backend Developer					
14		Add loading/error handling	3 days?	11/19/25, 11:00AM	11/24/25, 11:00AM	10	Backend Developer					
15		Connect images & posters	3 days?	11/19/25, 11:00AM	11/24/25, 11:00AM	12	Frontend Developer					
17		Improve mood classification	3 days?	11/19/25, 11:00AM	11/24/25, 11:00AM	10	Backend Developer					
18		Correlate moods movie ...	3 days?	11/19/25, 8:00AM	11/21/25, 5:00PM	5	Backend Developer					
19		Add user feedback loop	3 days?	11/19/25, 8:00AM	11/21/25, 5:00PM	5	Frontend Developer					
21		Integration & GUI tests	2 days?	11/24/25, 8:00AM	11/25/25, 5:00PM	10	Backend Developer					
22		Performance & rate-limit h...	2 days?	11/24/25, 8:00AM	11/25/25, 5:00PM	12	Backend Developer					
23		Documentation & user ma...	2 days?	11/25/25, 8:00AM	11/26/25, 5:00PM	19	Documentation Writer					
24		Update earned value shee...	2 days?	11/25/25, 8:00AM	11/26/25, 5:00PM	19	Documentation Writer					
25		Prepare presentation/dem...	2 days?	11/25/25, 8:00AM	11/26/25, 5:00PM	19	Documentation Writer					
26		Submit final report & repo	1.5 days?	11/25/25, 8:00AM	11/26/25, 1:00PM	19	Project Manager					

The Gantt chart illustrates the project timeline across four weeks:

- Week 1 (9 Nov 25 - 16 Nov 25):** Project Manager, Data Analyst, and Frontend Developer tasks are shown.
- Week 2 (16 Nov 25 - 23 Nov 25):** Project Manager, Data Analyst, Frontend Developer, and two Backend Developer tasks are shown.
- Week 3 (23 Nov 25 - 30 Nov 25):** Project Manager, Data Analyst, Frontend Developer, three Backend Developer tasks, and a Documentation Writer task are shown.
- Week 4 (30 Nov 25 - 7 Dec 25):** Project Manager, Data Analyst, Frontend Developer, three Backend Developer tasks, and three Documentation Writer tasks are shown.
- Week 5 (7 Dec 25 - 14 Dec 25):** Project Manager, Data Analyst, and Frontend Developer tasks are shown.
- Week 6 (14 Dec 25 - 21 Dec 25):** Project Manager, Data Analyst, and Frontend Developer tasks are shown.

Legend:

- Project Manager (Blue)
- Data Analyst (Blue)
- Frontend Developer (Blue)
- Backend Developer (Blue)
- Documentation Writer (Red)

	9 Nov 25	16 Nov 25	23 Nov 25	30 Nov 25	7 Dec 25	14 Dec 25	21 Dec 25
S	S	S	S	S	S	S	S
S	S	M	T	W	T	F	S
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W	S	T	M	S	T	F	S
F	T	F	S	M	T	F	S
S	F	S	S	M	T	W	T
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M	S	S	S	S	M	T	S
T	S	S	S	S	T	W	T
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Project Manager							
Data Analyst							
Frontend Developer							
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Documentation Writer							
Documentation Writer							
Documentation Writer							
Project Manager							