



AI Playlist Generator With Spotify
Integration Schedule

ID	Task name	Description	Resources	Duration	Priority	Start Date	Finish Date	2022											
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	<div><div></div>AI Playlist Generator With Spotify Integration</div>			107.0 d.	None	1/3/22	5/31/22	<div></div>											
2	<div><div></div>Phase 1: Requirement Analysis</div>			21.0 d.	None	1/3/22	1/31/22	<div></div>											
3	Gather User Needs	Conduct interviews, surveys, and research to gather user requirements and preferences. Document user stories and use cases.	Business Analyst / Project Manager	6.0 d.	1	1/3/22	1/10/22	<div></div>											
4	Define System Scope	Determine the boundaries and limitations of the AI Playlist Generator system. Establish the scope of functionalities to be developed.	Project Manager / System Architect	8.0 d.	1	1/11/22	1/20/22	<div></div>											
5	Identify Key Features	Identify the essential features and capabilities required for the AI Playlist Generator, considering user feedback and market trends.	Product Owner / Business Analyst	7.0 d.	1	1/21/22	1/31/22	<div></div>											
6	<div><div></div>Phase 2: System Design</div>			19.0 d.	None	2/1/22	2/25/22	<div></div>											
7	UI/UX Design	Create wireframes and mockups for the user interface (UI) and design the user experience (UX) to ensure an intuitive and visually appealing design.	UI/UX Designer	9.0 d.	2	2/1/22	2/11/22	<div></div>											
8	Database Design	Design the database schema, including tables, relationships, and data storage structures required to support playlist generation and user profiles.	Database Architect	15.0 d.	1	2/1/22	2/21/22	<div></div>											
9	API Design	Define the structure and endpoints of the application programming interfaces (APIs) needed for frontend-backend communication.	System Architect / Backend Developer	19.0 d.	1	2/1/22	2/25/22	<div></div>											
10	<div><div></div>Phase 3: Frontend Development</div>			31.0 d.	None	2/25/22	4/8/22	<div></div>											
11	Develop UI Components	Implement the UI components, including screens, buttons, forms, and interactive elements, based on the UI/UX design. Ensure responsiveness and cross-browser compatibility.	Frontend Developer / UI/UX Designer	20.0 d.	1	2/25/22	3/24/22	<div></div>											
12	Implement User Flows	Develop the logic for user navigation and interaction within the UI, ensuring smooth user experiences.	Frontend Developer	7.0 d.	2	3/25/22	4/4/22	<div></div>											
13	Testing and Debugging	Conduct unit testing and debugging of frontend components to identify and resolve issues and ensure proper functionality.	Quality Assurance Tester / Frontend Developer	6.0 d.	3	4/1/22	4/8/22	<div></div>											
14	<div><div></div>Phase 4: Backend Development</div>			43.0 d.	None	2/25/22	4/26/22	<div></div>											
15	Implement APIs	Develop the backend APIs required for user management, playlist generation, and data retrieval.	Backend Developer	23.0 d.	2	2/25/22	3/29/22	<div></div>											
16	Set Up Database	Create and configure the database system, including tables, indexes, and data storage, as per the database design.	Backend Developer	24.0 d.	1	2/25/22	3/30/22	<div></div>											
17	Implement Algorithms	Develop and implement AI and machine learning algorithms for playlist generation based on user preferences.	AI/ML Engineer / Backend Developer	43.0 d.	1	2/25/22	4/26/22	<div></div>											
18	<div><div></div>Phase 5: Integration With Spotify</div>			15.0 d.	None	4/8/22	4/28/22	<div></div>											
19	Authenticate with Spotify	Implement authentication mechanisms to securely connect the AI Playlist Generator with the Spotify platform.	System Integrator	15.0 d.	1	4/8/22	4/28/22	<div></div>											
20	Access Spotify Catalog	Develop features that allow users to browse and select songs from Spotify's music catalog.	Backend Developer / System Integrator	7.0 d.	2	4/8/22	4/18/22	<div></div>											
21	Playlist Integration	Establish mechanisms to integrate user-generated playlists with the user's Spotify account.	Backend Developer / System Integrator	6.0 d.	2	4/8/22	4/15/22	<div></div>											
22	<div><div></div>Phase 6: Testing and Quality Assurance</div>			11.0 d.	1	4/29/22	5/13/22	<div></div>											
23	System Testing	Conduct comprehensive system testing to verify the functionality of all features. Identify and address integration issues, performance bottlenecks, and security vulnerabilities.	Quality Assurance Team	11.0 d.	2	4/29/22	5/13/22	<div></div>											
24	<div><div></div>Phase 7: Maintenance and Updates</div>			13.0 d.	None	5/13/22	5/31/22	<div></div>											
25	Ongoing Maintenance	Establish an ongoing maintenance plan to address issues, apply security patches, and perform routine updates. Monitor system performance and scalability.	System Administrators	13.0 d.	2	5/13/22	5/31/22	<div></div>											

Planned start Date: January 3, 2022
Planned completion Date: May 31, 2022
Total construction Period: 107 days