

Event Name	Input/Output	Summary
User Requests Song(s) Analysis	Track(s) (input)	Analysis component receives user input song(s)
User Requests Recommendations	Track(s) (input)	User inputs track(s) to get track recommendations
User Requests music generation	Track(s) (input)	User inputs track(s) to get a generated snippet
Song(s) Analyzed for generation component	Analyzed Track(s) (input)	After the user requests the song generation feature, the track(s) are analyzed for the generation component
Song(s) Analyzed for recommendation component	Analyzed Track(s) (input)	After the user requests the song recommendations feature, the track(s) are analyzed for the recommendation component
Song recommendations generated	List of recommended tracks (output)	The service returns a list of generated songs to the user
Song Snippet generated	Track Snippet (output)	The service returns the generated snippet to the user
Song(s) analysis returned to user	Song Analysis Presentation (output)	The service responds to the user request for an analysis of their inputted track(s)