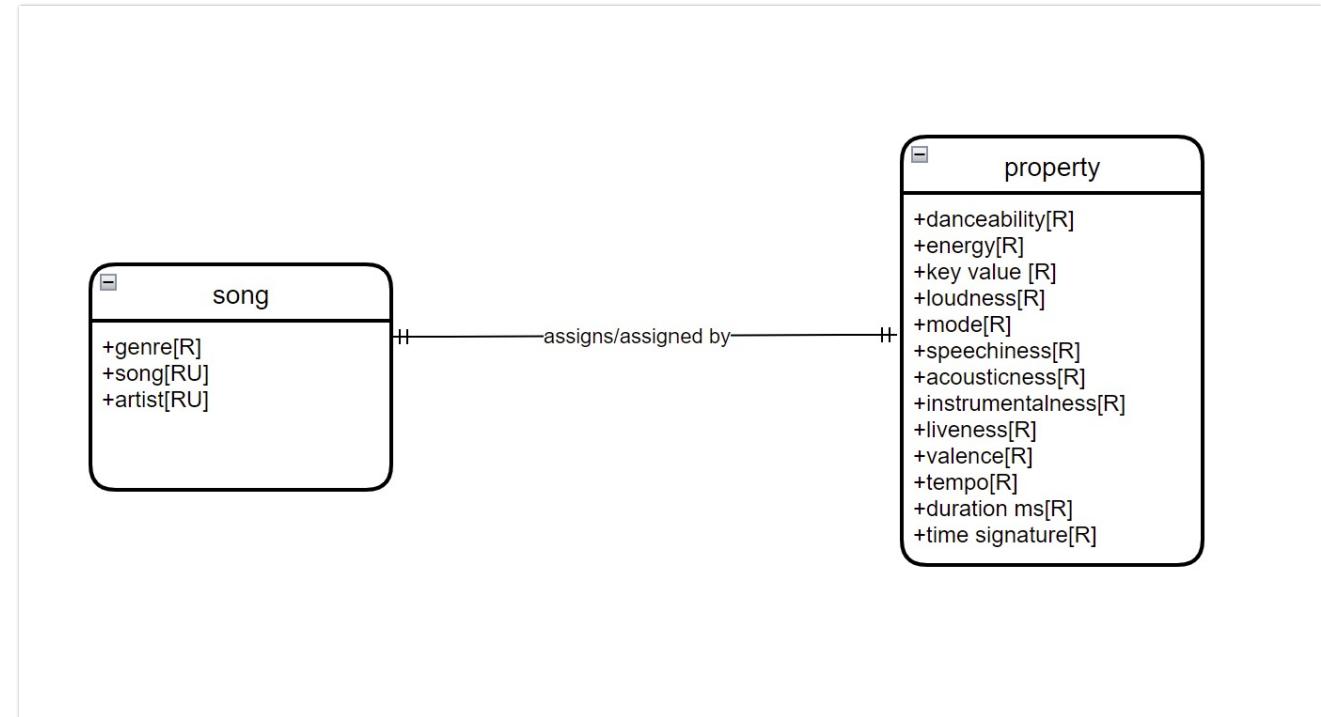


# Key Features in Data

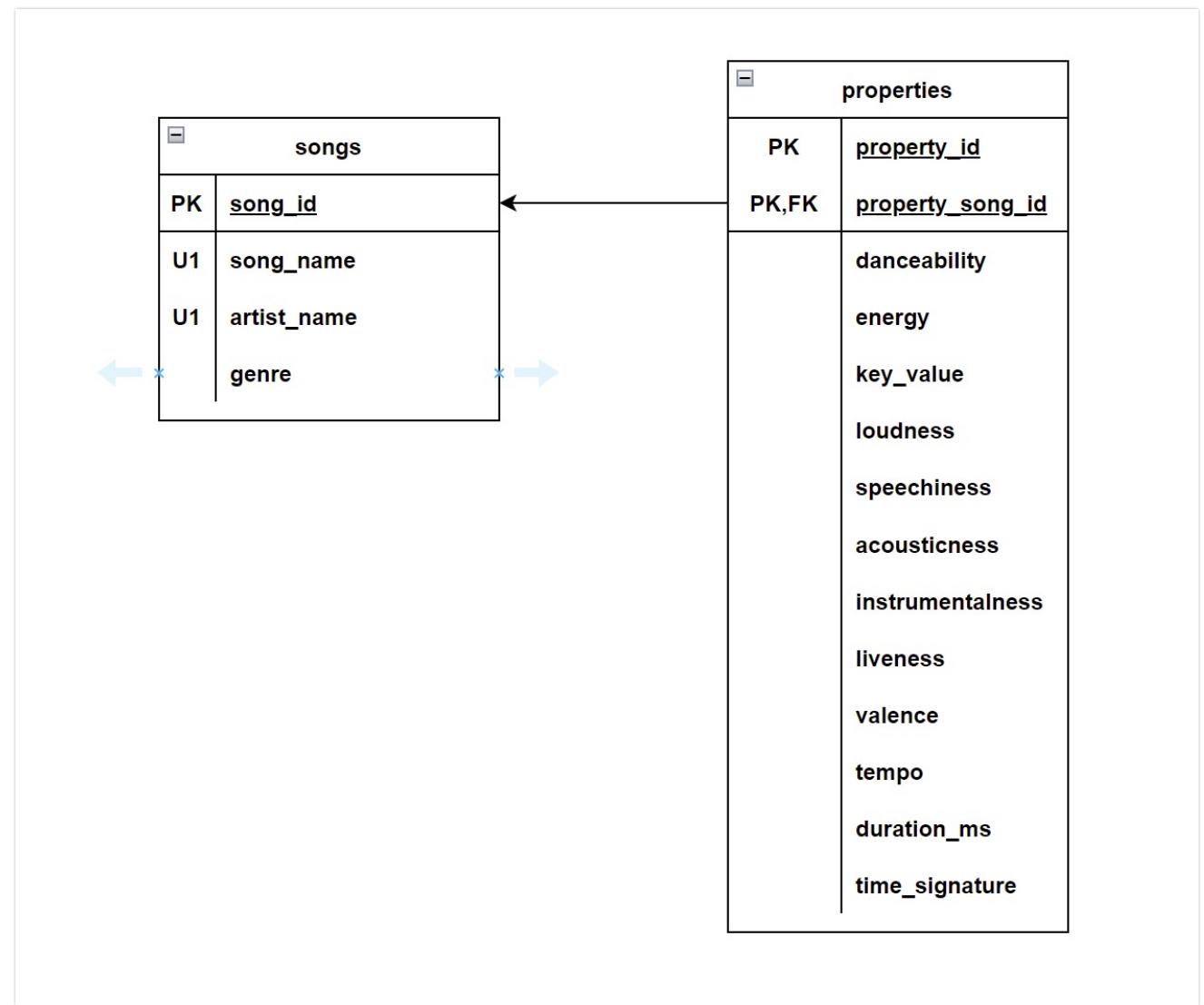
AutoSave		Off	H	Spotify DBMS (1)	Search (Alt+Q)																			
File	Home	Insert	Page Layout	Formulas	Data	Review	View	Help	Power Pivot	Comments														
Paste		Clipboard	Font	Font			Alignment			Number			Conditional Formatting			Insert		Cells		Editing		Analyze Data	Sensitivity	
Undo	Redo	Cut	Copy	Format Cells	Font	Font Style	Font Size	Font Color	Font Weight	Font Style	Font Size	Font Color	Font Weight	Font Style	Font Size	Font Color	Font Weight	Font Style	Font Size	Font Color	Font Weight	Font Style	Font Size	Font Color
H12																								
A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T						
1	danceability	energy	key	loudness	mode	speechiness	acousticness	instrumentalness	liveness	valence	tempo	id	url	duration_ms	time_signature	genre	song_name	artist_name						
2	0.831	0.814	2	-7.364	1	0.42	0.0598	0.0134	0.0565	0.389	156.985	2v6Nj9WPW9gD9q343XFRKx	spotify:track:2v6Nj9WPW9gD9q343XFRKx	124539	4	Dark Trap	Mercury: Retrograde	Ghostemane						
3	0.719	0.493	8	-7.23	1	0.0794	0.401	0	0.118	0.124	115.08	7pgBLv5Vmml7uGhMrJ6p	spotify:track:7pgBLv5Vmml7uGhMrJ6p	224427	4	Dark Trap	Pathology	Don Kenobi, SkyDxdyy						
4	0.85	0.893	5	-4.783	1	0.0623	0.0138	4.14e-06	0.372	0.0391	218.05	0vSwAlfyeowWCgeNmuhNy	spotify:track:0vSwAlfyeowWCgeNmuhNy	98821	4	Dark Trap	Symbiote	Gizmo						
5	0.476	0.781	0	-4.71	1	0.103	0.0237	0	0.114	0.175	186.948	0V5XnqUhl2en1nQ1nu	spotify:track:0V5XnqUhl2en1nQ1nu	123661	3	Dark Trap	ProductOfDrugs (Prod. The Virus an Kamiyada+							
6	0.798	0.624	2	-7.668	1	0.293	0.217	0	0.166	0.591	147.988	g4y9qM7BmPhu753	spotify:track:g4y9qM7BmPhu753	123298	4	Dark Trap	Venom	Suicideboy, Shakeswell						
7	0.721	0.568	0	-11.295	1	0.414	0.0452	0.212	0.128	0.105	144.915	65yplP9WmHne1nSL01cos	spotify:track:65yplP9WmHne1nSL01cos	112511	4	Dark Trap	Gatetka	Ghostemane						
8	0.718	0.668	8	-4.162	1	0.137	0.0254	0.0078	0.124	0.036	130.826	OJqby7DmAnHwOgQ71eA6E	spotify:track:OJqby7DmAnHwOgQ71eA6E	75784	4	Dark Trap	kamikaze (+ pulse)	Goth						
9	0.694	0.711	8	-5.525	1	0.221	0.0397	0	0.112	0.183	138.049	OLEuBnwPogX37ayb3PT	spotify:track:OLEuBnwPogX37ayb3PT	127524	3	Dark Trap	T.R.U. (Totally Rotten Underground)	Suicideboy						
10	0.774	0.751	1	-2.445	1	0.198	0.0614	0	0.0728	0.189	219.96	37gbnUla2Z8y8WR56KDn	spotify:track:37gbnUla2Z8y8WR56KDn	140326	4	Dark Trap	I Put My Dick in Your Mental	Gizmo						
11	0.893	0.907	11	-10.406	1	0.367	0.152	0.0311	0.558	0.302	199.942	2qgfjdRgnOrXn0FwPj5	spotify:track:2qgfjdRgnOrXn0FwPj5	121979	4	Dark Trap	Andromeda	Ghostemane						
12	0.864	0.365	8	-10.219	1	0.0655	0.187	0	0.116	0.0478	189.938	7E1fJfnCP2WpH7yJr25	spotify:track:7E1fJfnCP2WpH7yJr25	101172	4	Dark Trap	BRAINFOOD	gizmo, Medicine Man						
13	0.736	0.932	1	-3.726	1	0.271	0.025	0.182	0.18	124.514	0fJ1617bVkrBkgd9MHE	spotify:track:0fJ1617bVkrBkgd9MHE	115775	4	Dark Trap	Troll Under the Bridge	Gizmo							
14	0.825	0.761	8	-5.389	1	0.104	0.0111	0.0039	0.334	0.161	149.97	50zD7Df0ry1NnhLNB0Julo	spotify:track:50zD7Df0ry1NnhLNB0Julo	163371	4	Dark Trap	1000 Rounds	Pouya, Ghostemane						
15	0.767	0.576	10	-9.683	0	0.256	0.145	2.61e-06	0.0968	0.187	139.99	1umsBm7l47jnrauJ6u	spotify:track:1umsBm7l47jnrauJ6u	96062	4	Dark Trap	Sacrifice	Gizmo						
16	0.765	0.726	5	-5.58	1	0.191	0.0077	0	0.161	0.27	128.014	45kqHUKY5phgHSUVKIQON	spotify:track:45kqHUKY5phgHSUVKIQON	135079	4	Dark Trap	Backpack	Gizmo						
17	0.617	0.541	6	-4.113	1	0.78	0.125	0	0.369	0.433	159.996	4g89V7qSpuhrcpsXtSaw	spotify:track:4g89V7qSpuhrcpsXtSaw	107999	4	Dark Trap	DiR0Jvn	Ghostemane						
18	0.755	0.298	1	-15.032	1	0.0915	0.154	0.329	0.101	0.0372	199.958	28xkySP0SP05uSv7t6MQFCy	spotify:track:28xkySP0SP05uSv7t6MQFCy	123054	4	Dark Trap	Okay But This Is The Last Time	BONES						
19	0.814	0.575	11	-9.635	1	0.0635	0.172	0.000291	0.109	0.288	120.004	3uf1swbcRp5b064UnyEx	spotify:track:3uf1swbcRp5b064UnyEx	192833	4	Dark Trap	Taking Out The Trash	BONES						
20	0.812	0.813	10	-5.583	0	0.0984	0.0987	0.00015	0.0758	0.348	128.066	3KwrwQeuPhvhQgHoTz61	spotify:track:3KwrwQeuPhvhQgHoTz61	108080	4	Dark Trap	to sono qui	Salmo						
21	0.849	0.648	7	-6.188	1	0.0832	0.0725	0.00592	0.0984	0.196	212.15	4irYeuA87yyGHc149jox9	spotify:track:4irYeuA87yyGHc149jox9	111020	4	Dark Trap	Paris	Suicideboy						
22	0.602	0.578	0	-5.61	1	0.0283	0.0343	0	0.164	0.156	114.956	40UNXk04N0101B21nIke	spotify:track:40UNXk04N0101B21nIke	186261	4	Dark Trap	Murder	Dre Tamashi						
23	0.876	0.768	7	-6.606	1	0.201	0.112	1.211e-05	0.283	0.72	119.958	09320yqAgd4q4Hjp5w9v0	spotify:track:09320yqAgd4q4Hjp5w9v0	124676	5	Dark Trap	High 'N Mighty	III-SCAR, Amni Six						
24	0.777	0.711	0	-3.902	1	0.137	0.312	0	0.205	0.293	139.973	1tRmB7J47jnrauJ6u	spotify:track:1tRmB7J47jnrauJ6u	153685	4	Dark Trap	Eunonymous	Ghostemane						
25	0.829	0.59	9	-7.818	0	0.263	0.0391	0.0107	0.114	0.332	112.97	OKRqkJPxG6T9z1QZGbf7n	spotify:track:OKRqkJPxG6T9z1QZGbf7n	127128	4	Dark Trap	Hades	Ghostemane						
26	0.783	0.929	11	0.551	0	0.0893	0.2	0.00414	0.689	0.152	118.03	3ufjEBnWqHlu9VgYV	spotify:track:3ufjEBnWqHlu9VgYV	134447	4	Dark Trap	Nails	Ghostemane						
27	0.787	0.727	1	-7.194	1	0.265	0.000997	0.0017	0.376	0.21	141.52	0vwXxry1YHgUkBaC1hp	spotify:track:0vwXxry1YHgUkBaC1hp	140038	4	Dark Trap	Squeeze	Ghostemane						
28	0.705	0.648	4	-10.467	0	0.141	0.00476	0.00059	0.373	0.398	130.037	0vUhboWxhd7dlen1HtP1	spotify:track:0vUhboWxhd7dlen1HtP1	155350	4	Dark Trap	No Teeth	Gizmo						
29	0.69	0.76	1	-5.431	1	0.0895	0.0525	0	0.134	0.079	157.013	6xnbX1ms19t6L20L2Ln	spotify:track:6xnbX1ms19t6L20L2Ln	154929	4	Dark Trap	Bang Ya Fucking Head	Gizmo						
30	0.799	0.966	0	-4.586	1	0.366	0.089	0	0.658	0.864	139.967	420XhwKhoHl2pzuOvUy	spotify:track:420XhwKhoHl2pzuOvUy	137221	4	Dark Trap	BLUE JUICE	Gizmo, Harvest						
31	0.936	0.476	1	-11.439	1	0.403	0.0139	0	0.402	0.363	121.979	2AoJ1NSLrpgo06T5Bq8	spotify:track:2AoJ1NSLrpgo06T5Bq8	175543	4	Dark Trap	Loch Ness	Gizmo, Purpdogg						
32	0.838	0.634	8	-8.076	1	0.0931	0.05537	0	0.111	0.224	144.771	30z5BSu8lBS19595mG08u7j4	spotify:track:30z5BSu8lBS19595mG08u7j4	168202	4	Dark Trap	Hold Uh	Gizmo, HIGHAF						
33	0.964	0.51	1	-7.003	1	0.242	0.000214	6.47e-06	0.0549	0.074	130.028	3x5SY5xQoxtLKHemPb	spotify:track:3x5SY5xQoxtLKHemPb	136650	4	Dark Trap	Bone Saw	Gizmo, BlvC Synd						
34	0.83	0.387	10	-12.908	0	0.345	0.0858	0.407	0.0926	0.561	120.008	2bmSwxQuardar10ZxKyTe	spotify:track:2bmSwxQuardar10ZxKyTe	132193	4	Dark Trap	Coffin Wave	CPsleincer						
35	0.455	0.525	5	-12.692	0	0.0455	0.136	0.734	0.125	0.279	119.999	2t4kHe1vF6r5yBmZQ	spotify:track:2t4kHe1vF6r5yBmZQ	159974	4	Dark Trap	OhNo!	BONES						
36	0.748	0.573	9	-9.907	1	0.0543	0.484	2.59e-06	0.0929	0.193	117.962	OGV9P2rt0XwChV0hy09sq5	spotify:track:OGV9P2rt0XwChV0hy09sq5	159875	4	Dark Trap	TheArtOfCremation	BONES						
37	0.745	0.688	6	-9.263	0	0.103	0.264	0.00096	0.077	0.522	114.997	78w3jkPwQABuJDBy3xAGH	spotify:track:78w3jkPwQABuJDBy3xAGH	107750	5	Dark Trap	OakGrove Road	BONES						
38	0.722	0.519	0	-12.871	1	0.0516	0.02533	0.014	0.189	0.128	199.974	028038183p8mKcJz13pp	spotify:track:028038183p8mKcJz13pp	143883	4	Dark Trap	WhatWasThat	BONES						
39	0.657	0.473	1	-12.051	1	0.0368	0.232	0.026	0.108	0.153	150.029	5Nf3jGoxQoJqR4lbtZ	spotify:track:5Nf3jGoxQoJqR4lbtZ	114500	4	Dark Trap	Funny o' See You Here	BONES						
40	0.936	0.474	1	-9.694	1	0.393	0.0213	0	0.111	0.168	129.999	7FLY8G5yDykuART0uwKH	spotify:track:7FLY8G5yDykuART0uwKH	166910	4	Dark Trap	John Doe	Ghostemane						

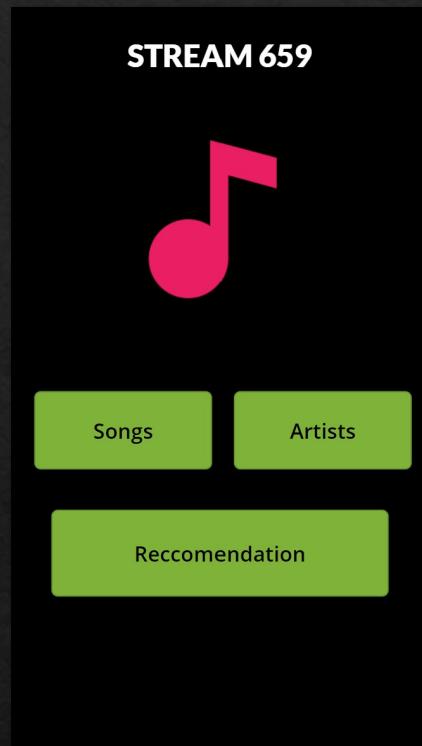


# Conceptual Model



# Logical Model





Songs	
<input type="text"/> Search items	
10 Years of DNA	hardstyle >
Serzo	
1000 Rounds	Dark Trap >
Pouya, Ghostemane	
2012 (It Aint The End)	RnB >
Jay Sean	
21 Questions	Hiphop >
50 Cent	
223 s (feat. 9lokknine)	Rap >
YNW Melly	
4 Years	dnb >
Cyantific	

Moods
Party Music
Bedtime
Commute
Feeling Myself
Workout

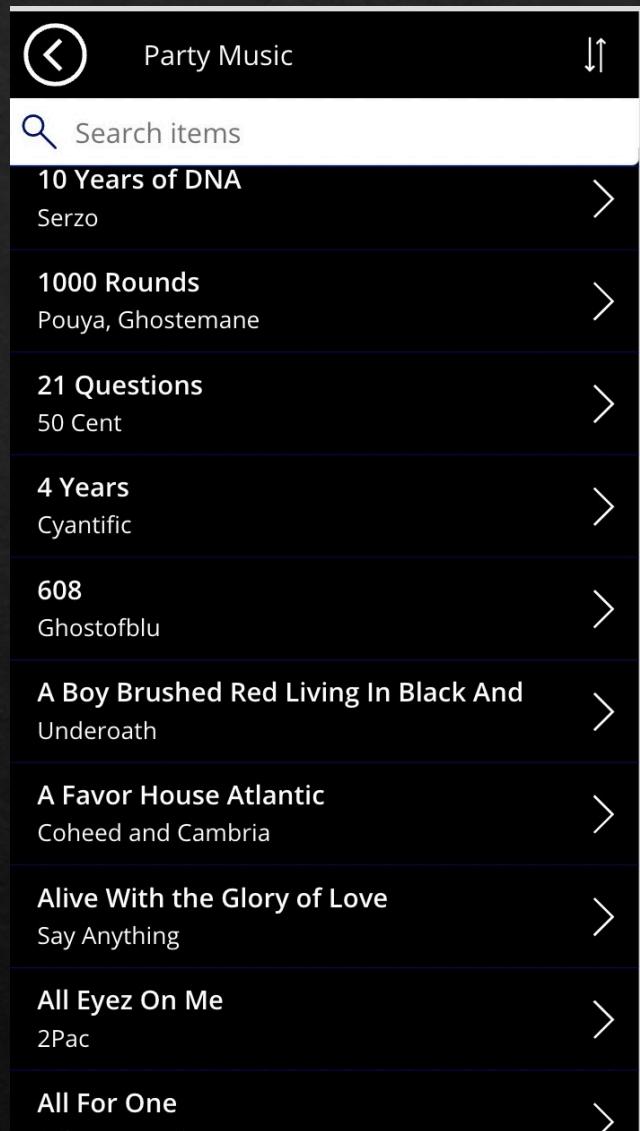
Party Music
<input type="text"/> Search items
10 Years of DNA >
Serzo
1000 Rounds >
Pouya, Ghostemane
21 Questions >
50 Cent
4 Years >
Cyantific
608 >
Ghostofblu
A Boy Brushed Red Living In Black And Underoath >
A Favor House Atlantic >
Coheed and Cambria
Alive With the Glory of Love >
Say Anything
All Eyez On Me >
2Pac
All For One >

# Design of UI

# As a user you want to listen party songs

- Genre should be DnB or Hardstyle or Psytrance
- Tempo should be greater than 128
- Loudness should be greater than -6
- Energy greater than 0.5

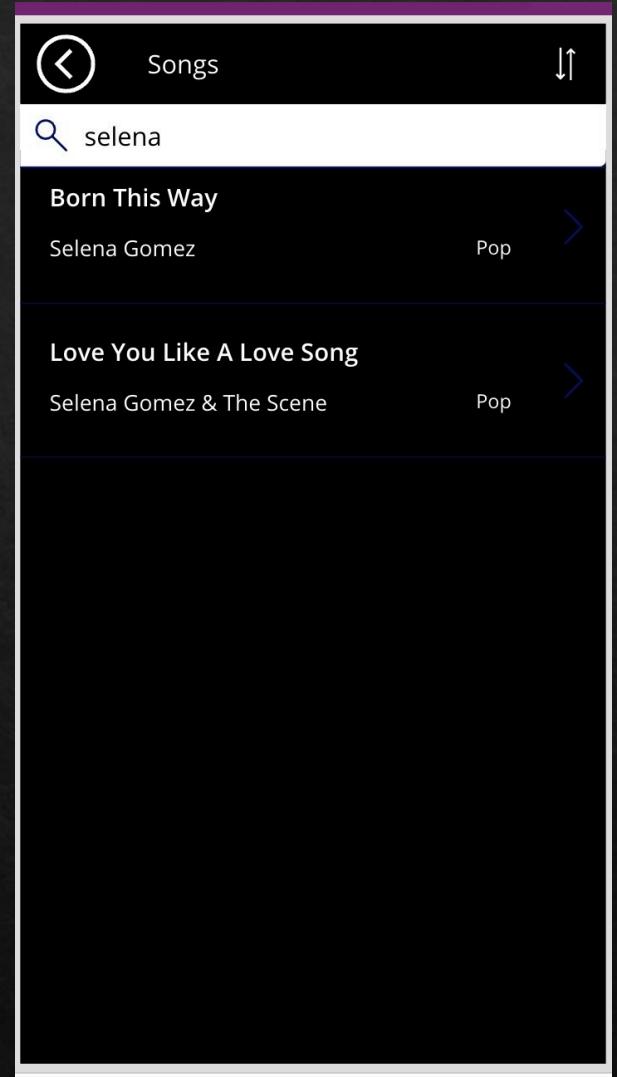
```
SortByColumns(Search(Filter(track , (genre="Dnb"&&genre="Hardstyle" &&genre="Psytrance" && genre="Techno" ) ||  
(tempo> 128 && loudness>-6 && energy>0.5)),TextSearchBox_partymusic.Text,"song_name","artist_name"),  
"song_name",If(SortDescending1, Descending, Ascending))
```



As a user you want to  
listen songs of any  
specific artist (Example:  
Selena Gomez)

```
SortByColumns(Search(song, TextBox1_SongsList.Text, "song_name", "artist_name", "genre"), "song_name", If  
(SortDescending1, Descending, Ascending))
```

Format text Remove formatting Find and replace



# As a user you want to listen to Bed Time

- Genre should be Emo, RnB
- Tempo should be less than 90
- Loudness should be less than -3
- Energy less than 0.35

```
SortByColumns(Search(Filter(track , (genre="emo" || genre="RnB") && (tempo<90 || loudness<-0.3 || energy<0.35)),  
TextSearchBox_partymusic_5.Text,"song_name","artist_name"),"song_name",If(SortDescending1, Descending,  
Ascending))
```

Format text

Remove formatting

Find and replace

