

Team number: 20

Member's Names:

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Project Design

Explanation

Entities:

1. User: holders that listen to music (everyone can have an account).
2. Song: Media that users can listen to.
3. Artist: Content creators for our music platform.
4. Album: A collection of songs from artists.
5. Playlist: User selected collection of music.
6. Register: user will have to register for an account so that they can perform creating a playlist

Attributes:

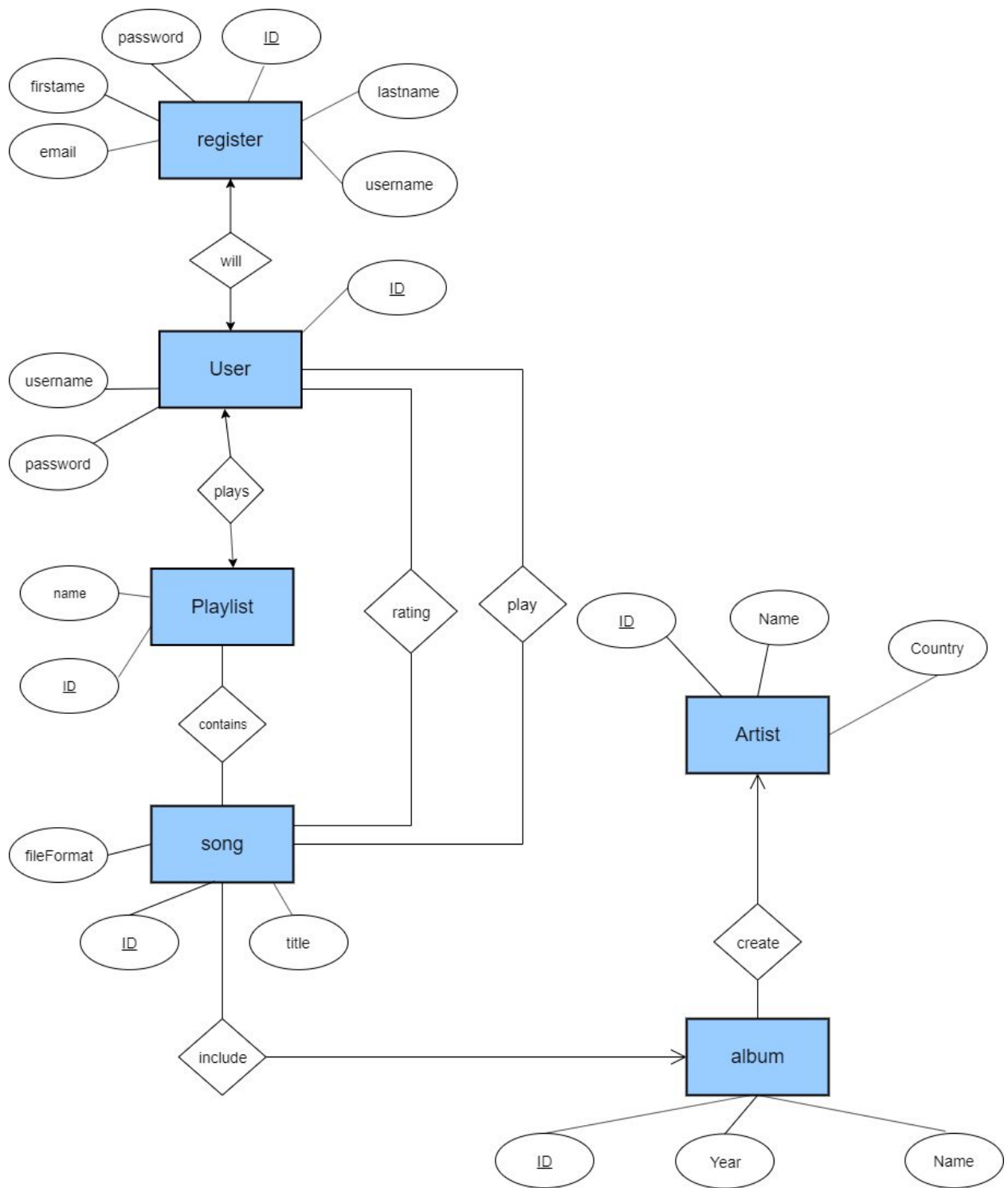
1. User: Username, password, ID.
2. Song: ID, Title and Duration.
3. Artist: Name, Country, and ID.
4. Album: ID, Name and Year.
5. Playlist: ID, and Name.
6. Register: ID, first name, password, email, Lastname, username

Relationships:

1. Plays: The user with a user account can play music in the playlist
2. Plays(between user and song): The users can listen to many songs
3. Rating(between user and song): the users can leave the rating for many songs
4. Contains: The playlist will contain a number of songs, which can be none
5. Include: Song is included in a specific album
6. Create: An artist will create an album
7. Will: a user will register for an account to get some advance ability like making a playlist

Dependency:

1. A user with an account can play one playlist at a time
2. One Playlist can contain many songs and a song can be included in many playlists
3. A song can only be in one album but an album can have many songs
4. An album can only be created by one artist but an artist can create many albums



Schemas:

1. register(ID, firstname, last name, email, password)

	id	firstname	lastname	email	password
▶	1	Kenny	Johnson	kenFun@gmail.com	ken123
	2	Ken	SanSan	kenSan@gmail.com	passwordhere
	3	Cara	Carvsen	caran@gmail.com	randompassword123
	4	John	Wicked	ilovedog@yahoo.com	whereismydog
	5	Charlotte	Brown	Char78@gmail.com	char123
	6	Mia	Davis	DavisYoung@yahoo.com	davisboy
	7	sophia	Scott	sophiaS@yahoo.com	sophia321
	8	Amelia	Adams	Amelin@gmail.com	kingdom1
	9	Ava	Baker	Harrypotter@yahoo.com	harryspell
	10	John	Wicked	watchmymovieplease@yahoo.com	whereismydog
	11	Benjamin	Cooper	Benjamin56@gmail.com	123456789
	12	Lucas	Long	lucasone@yahoo.com	lucas123
	13	Mason	Coleman	coldmanmanman@gmail.com	qwerty
	14	Logan	Hill	onthehill@gmail.com	silenthill1
	15	Mike	Ranger	IlovemikeWu@gmail.com	password12
*	NULL	NULL	NULL	NULL	NULL

2. User(ID, username, password)

	id	username	password
▶	1	kennysang	ken123
	2	sanken	passwordhere
	3	caragirl	randompassword123
	4	assasin	whereismydog
	5	char78	char123
	6	davismia	davisboy
	7	sophiahere	sophia321
	8	listentomusic	kingdom1
	9	bakerpie	harryspell
	10	JohnnyNguyen	whereismydog
	11	BenCoo	123456789
	12	longerthanyou	lucas123
	13	slacking	qwerty
	14	sweetheart	silenthill1
	15	cookingLife	password12
*	NULL	NULL	NULL

3. Playlist(ID, name)

	id	name
	1	A Path For Lost Wanderers
	2	Coffeehouse
	3	Chillin
	4	study songs
	5	too deeps
	6	sweet lyrics
	7	strong beat
	8	bed time
	9	summer time
	10	sea travel
	11	love is in the air
	12	nature sound
	13	young blood
	14	traveling
▶	15	morning songs
✱	NULL	NULL

4. song(ID, fileFormat, title)

	id	title	fileFormat
	1	Mad Love	mp3
	2	SOS	mp3
	3	Falling like the stars	mp3
	4	Afterlife	mp3
	5	Sweettalk my Heart	mp3
	6	Torn	mp3
	7	Never Really Over	mp3
	8	Feelings	mp3
	9	Memories	mp3
	10	How Do You Sleep	mp3
	11	7 Rings	mp3
	12	Nice To Meet Ya	mp3
	13	Wanted	mp3
	14	Sucker	mp3
▶	15	It's You	mp3
✱	NULL	NULL	NULL

5. album(ID, year, name)

	id	name	year
	1	Mad Love	2018
	2	SOS	2019
	3	Falling like the stars	2019
	4	Afterlife	2019
	5	Sweettalk my Heart	2019
	6	Torn	2019
	7	Never really Over	2019
	8	Feelings	2019
	9	Memories	2019
	10	How Do You Sleep	2019
	11	7 Rings	2019
	12	Nice To Meet ya	2019
	13	Wanted	2019
	14	Sucker	2019
	15	It's You	2019
...	NULL	NULL	NULL

6. Artist (ID, name, country)

	id	name	country
	1	Sean Paul	Jamaica
	2	Avgii	Sweden
	3	Bradley Spence	London
	4	Steve Early	USA
	5	Rihanna	Barbados
	6	Billie Eilish	USA
	7	The Beatles	Liverpool
	8	Lizzo	USA
	9	Taylor Swift	USA
	10	Ed sheeran	England
	11	Kevin Gates	USA
	12	Jonas Brothers	USA
	13	Shawn mendes	Canada
	14	Chris brown	USA
	15	Maroon 5	USA
▶	NULL	NULL	NULL

7. will(registerID, UserID)

	registerID	userID
	1	1
	2	2
▶	3	3
	4	4
	5	5
	6	6
	7	7
	8	8
	9	9
	10	10
	11	11
	12	12
	13	13
	14	14
	15	15
*	NULL	NULL

8. Plays (userID, playlistID)

	userID	playlistID
	1	10
	2	4
	3	1
	4	2
	5	8
	6	9
	7	12
	8	14
	9	15
	10	3
	11	11
	12	5
	13	6
	14	7
✎	15	13
*	NULL	NULL

9. contains(playlistID, songID)

	playlistID	songID
▶	1	7
	2	6
	3	5
	4	1
	5	5
	6	6
	7	9
	8	8
	9	7
	10	14
	11	15
	12	13
	13	11
	14	10
	15	12
*	NULL	NULL

10. include(songID, albumID)

	songID	albumID
	1	1
	2	2
	3	3
	4	4
	5	5
	6	6
	7	7
	8	8
	9	9
	10	10
	11	11
	12	12
	13	13
	14	14
✎	15	15
*	NULL	NULL

11. create(artistID, albumID)

	artistID	albumID
	1	2
	2	1
	3	5
	4	3
	5	4
	6	8
	7	9
	8	10
	9	7
	10	11
	11	12
	12	13
	13	14
	14	15
...	15	6
*	NULL	NULL