USER

- Can create an User Account
- each user has a username, a password, and a email, phone number
- it can log in with the username/email and password
- the username, password and email can be changed if the correct password is provided
- It will introduce the payment details when choosing a subscription
- When creating the account he will introduce its age and the zone
- it can listen to a song only if it has the necessary age and his zone is not restricted

CLIENT

- Can create an account
- A client has to log in using their credential to access the rest of the features
- Can associate with another client/firm through a contract for a song partnership.
- A client can edit their credentials/profile
- A client can take actions, for and against other clients and songs:
    - Ask for a take down of a song
    - Ask for demonetisation of a song
    - Offer a new contract
    - Buy (more) promotions such as ads
    - Can add songs to the app
- Can dispute (provide a reason why the action shouldn't be granted) actions taken against them.
- Can have at most 3 take down or demonetisation granted actions against them before they can be banned
- An admin decides if a Client is banned or not
- Banned means that they can't create any more songs and can't receive any revenue from any of their contracts

MUSIC (songs)
- Is related to a Client through a Contract
- can be listened by user only if it passes the restrictions of the age and zone

CONTRACT
- Connects two or more clients by a mutual agreement on a Song
- Can have multiple clauses that must be decided before the contract is offered, clause could include :
  - revenue split (as a %)
  - Relinquish revenue by a one of the involved parties
  - Relinquish creation/deletion rights from a song/creator
  - Give creation/deletion rights to a song/creator
- Anyone who is offered a contract has the right to accept or refuse it

ACTION
- Is created by a Client
- it is regarding a song, has a musicId
- Can be of two types:takedown or demonetisation
- takedown means that the song will be took down from the platform
- demonetisation means that the song will not generate any revenue
- it has a status that can be: pending, granted or denied
- pending status is the default status
- granted means that the action succeeded an the action will take place(takedown or demonetisation)
- denied means that no action will go further
- The owner of the song with MusicId can dispute (provide proof and answer questions) the action while it's status is pending
- the client that created it provides a text that motivates the action
- so the Action has two strings that are the client motives for taking the action and the Music owner proof of that not happening
- an Admin can change the status of the action
- has the id of the admin that changed the status of the action
- has a date that is the date when the action was initiated

ADS
- is owned by a client

- has categories of users determined by the owner to which it should appeal too
- has a start and end date when it should appear
- has a number of seconds determined by the owner over which the add is displayed. this can be no longer than 1 minute, but the add can be skipped after 3 seconds
- has an image file that is shown when the add is displayed to an user
- has an audio file that is played when the add is displayed to an user
- has an Hyperlink that the user can access and it is made visible when the add is displayed
- counts the number of times the hyperlink has been accessed when the add is displayed
- maintains an average of listened time. every time a user gets the add he listens to it an amount of time before he/she skips it, so the add maintains the average of these times from all the users

SUBSCRIPTION

- A user can choose a subscription from a tier list, gaining access to corresponding features to that tier
- There will be 2 categories of subscription that will be displayed based on the type of the user.One for the regular user, and one for the client type.
- Users can manage their subscriptions by cancelling the subscription, checking the status, and updating billing information including card details and address.
- Upon subscription billing, a receipt will be automatically sent.
- We will send push notifications about different actions that will happen or happened to the subscription such as renewal of the subscription, successful billing and so on
- A user can choose to upgrade its tier of subscription or to downgrade it.

STATS

- getting data from analytics and plotting it (revenue/views/likes)
- Processed data for each company individually
- money from ads
- most watched parts
- Geographic/demographic Usage Patterns

RESTRICTIONS
- It gets the user and music details and checks if the user age is grater than the age restriction of the music and if the user zone is not in the restricted zones of the music
- It is related to one music object
- Can be active or inactive
- Has a location or a minimum age. At least one of these needs to be not null, the location is the location in which the Song can't be played, and the age is the minimum age required to listened to the song

ADMIN

- Can pick an action(Ban user, delete song, Add restrictions) from the main page after logging in
- Can ban client by selecting a user from a list of all users at any time by clicking the ban button
- Can delete any song at any time from a list of all songs by clicking the delete button
- Can select a song from a list of songs and manually add restrictions by adding tags to it