**Functional Requirements:**

**Account Creation and management:**

* Accounts will be created with Name, Age, Email and Password.
* Login with Email and Password.
* Reset Password with Email.
* Email will be verified with otp upon sign up
* System will ask for age and record it.
* Preference about clean or explicit versions of songs and records, remember the choice..
* Preference about song type and genres and record it.
* Free and Premium tier for users.
* Free users will see ads.

**System:**

* Option to create random or custom playlists.
* The playlist is saved.
* View saved playlists.
* Filter playlist based on artist, genre, publish date
* Create competition based on personalized settings like number of songs.
* Send challenge to a user using email.
* Show received challenge.
* View competition records.
* Competition records are saved.
* Provide and display scores and view leaderboard.
* Age restricted songs will be automatically restricted based on given age.
* Explicit versions of songs will be filtered based on preference.
* Play music.
* Record user’s singing.
* Generate and view singing frequency graph
* View lyrics on screen.
* Option to add reverb effect to recorded songs
* Option to add pitch change effect effect to recorded songs
* Change playback Time

**Non-Functional Requirements:**

**Operational:**

* Support and availability on both android and ios platforms.
* Apps should be able to connect wirelessly to televisions or wireless speakers and microphones.
* Apps should be able to connect to other users using the same platform for sharing playlists and songs.
* Usage of firebase as authentication system.

**Performance:**

* Smooth transition and waiting time between changing songs.
* Pre accessing the next song before currently playing the song to reduce waiting time or lag.
* Usage of Material theme to make the app look clean.
* Layout should be responsive across all sizes.
* Fonts and other layout size should be maintained in a way so they looks natural.

**Security:**

* A secured environment to record user information.
* Keep all relevant information that is possible encrypted.
* Authentication ensures user data is accessible for only that user and other requests are blocked.
* Keep all other personal data locally and they aren’t shared in anyway.

**Cultural and Political factors:**

* Ban and remove extremely explicit songs from the app.
* Ban and remove controversial songs from the platform.
* Songs banned by the government will also be banned from the app.
* App should be available in major languages (must include Bangla and English).