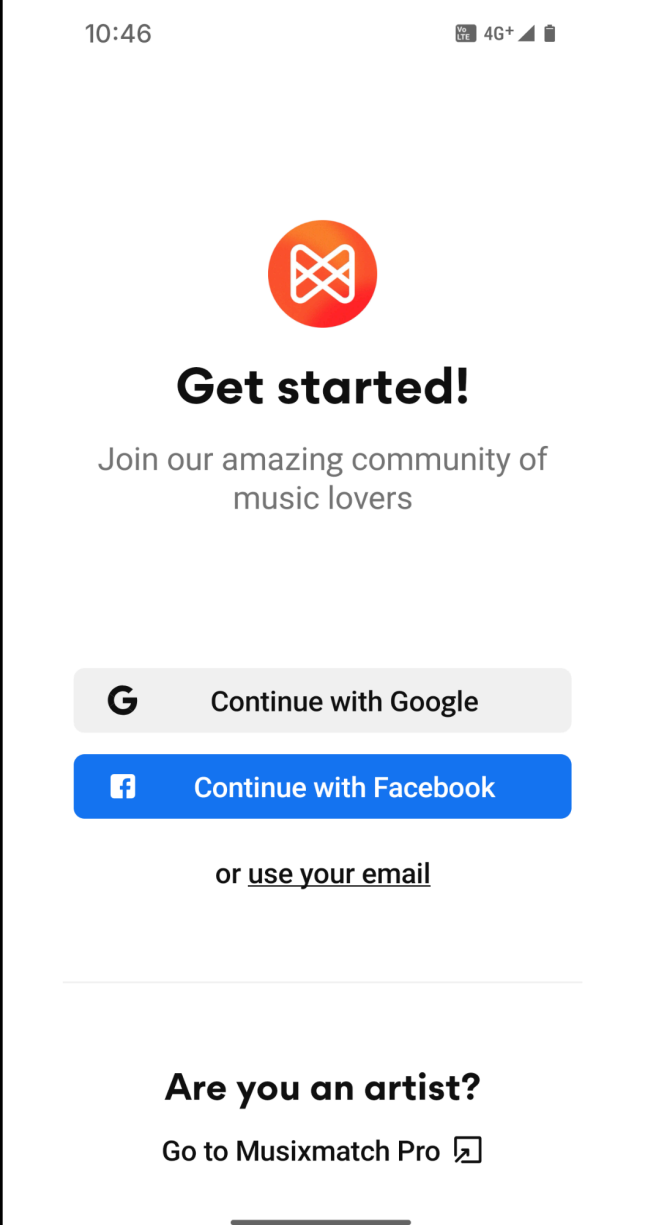
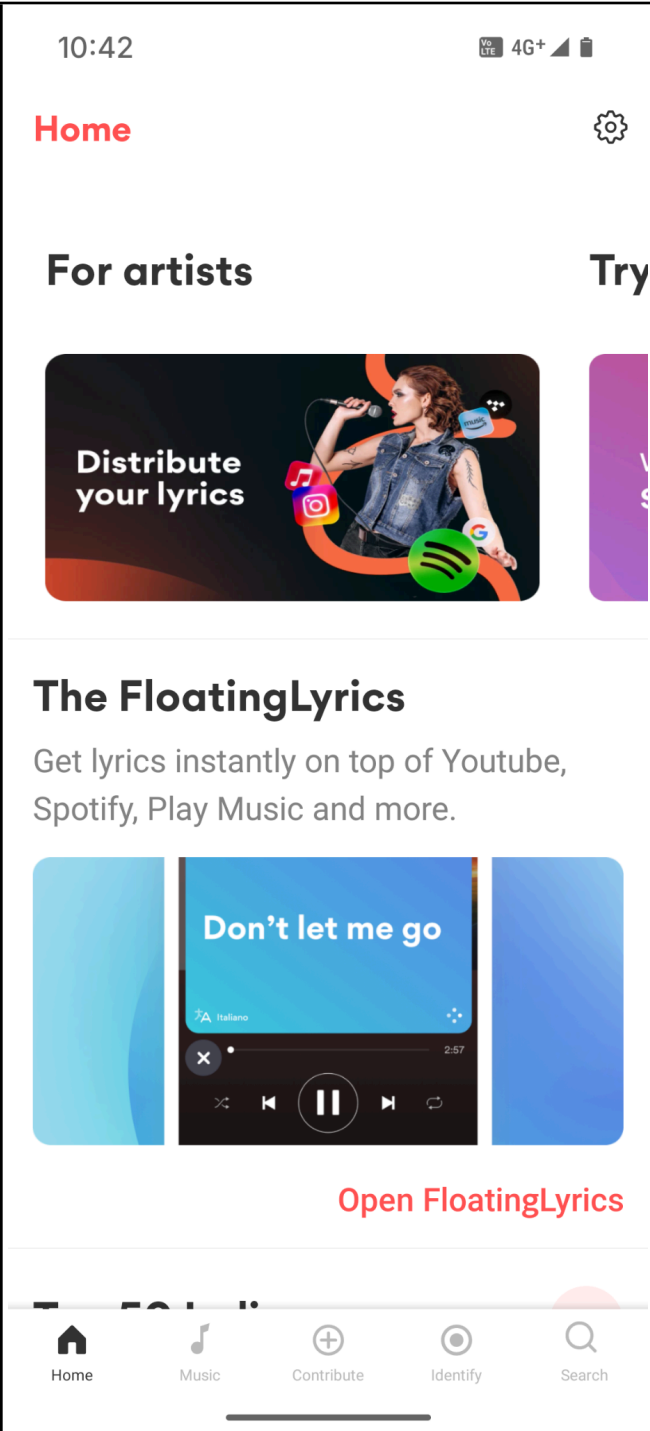


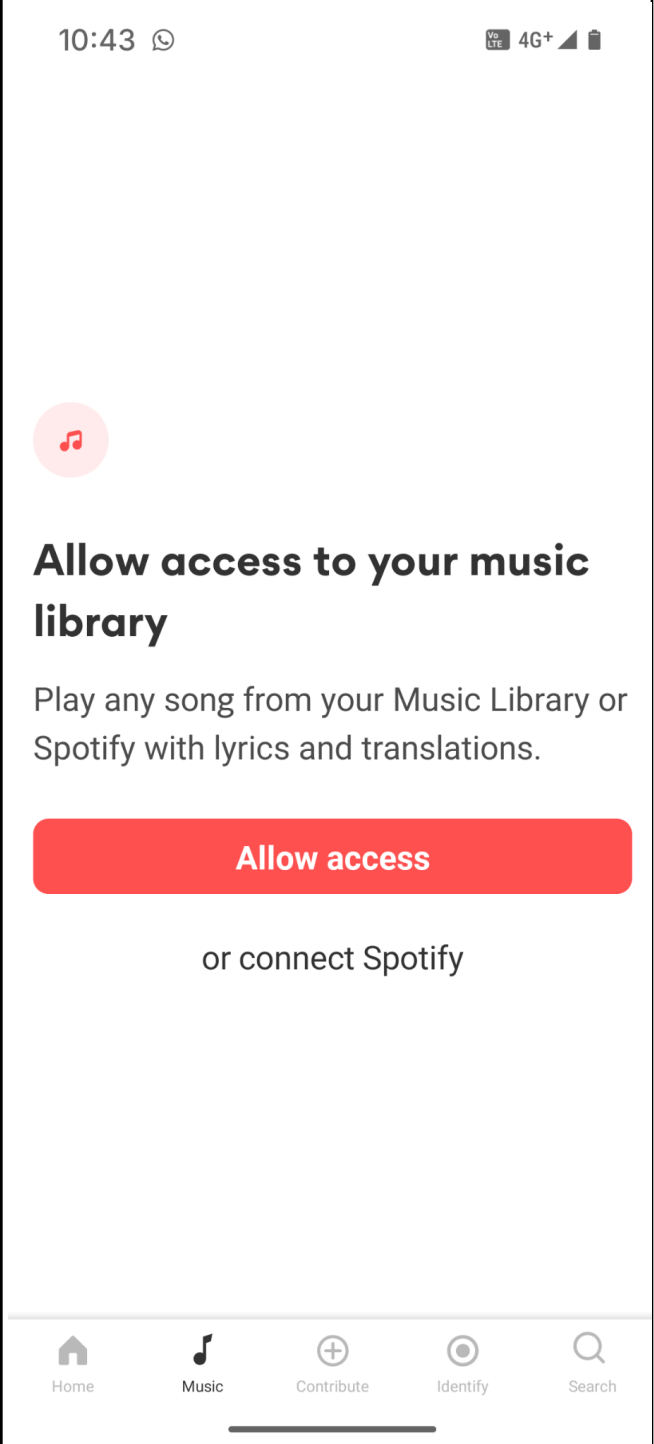
MPL & PWA LAB PREREQUISITE

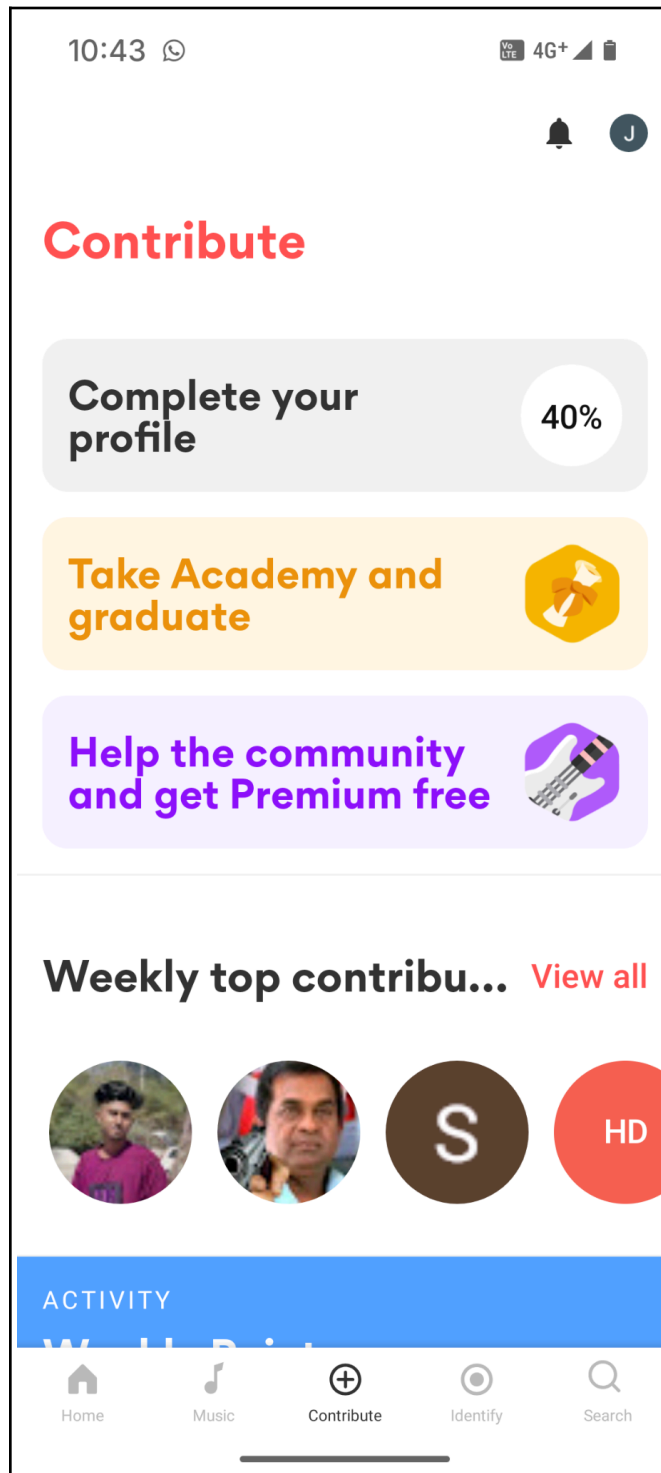
AIM: - Selecting features for application development, the features should comprise of:

1. Common Widgets
2. Should include icons, images, charts etc.
3. Should have an interactive form.
4. Should apply navigation, routing and gestures
5. Should connect with FireBase database

Screen Shot	Features
	<p>Login Page</p> <ul style="list-style-type: none"> • Purpose: Enables users to register or log in by Google Account, or optionally by Facebook login or another email ID. • Features: <ol style="list-style-type: none"> 1. “Continue with Google” Button 2. Option to use other email • Firebase Integration and Google Sign In Ensures secure login by storing user details in Firebase Authentication. GoogleSignInClient API can validate user identity based on Google Account credentials. • Facebook account sign in The LoginManager in Facebook SDK and handle sign in requests with Facebook account.

	<h2>HomePage</h2> <h3>Banner Carousel:</h3> <ul style="list-style-type: none"> • Purpose: Displays the capabilities of the app and available features. • Widgets Used: Carousel widget with images and animations. <h3>Feature Icons:</h3> <ul style="list-style-type: none"> • Purpose: Interactive icons representing categories like For Artists, Floating Lyrics, Translated languages. • Widgets Used: Icon Buttons with labels for clear representation. <h3>Navigation Bar:</h3> <ul style="list-style-type: none"> • Purpose: A bottom navigation bar for quick access to app sections like Home, Music, Contribute, Identify, Search. • Widgets Used: Navigation Widget with routing and gesture handling.
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 <p>The image shows a mobile application interface. At the top, the status bar displays the time 10:43, a signal strength icon, 4G+ connectivity, and a battery icon. The main content area features a red circular icon with a white musical note. Below this, the text reads: Allow access to your music library. Underneath, it says: "Play any song from your Music Library or Spotify with lyrics and translations." A large red button with the text "Allow access" is centered. Below the button, the text "or connect Spotify" is displayed. At the bottom, there is a navigation bar with five icons: a house (Home), a musical note (Music), a plus sign (Contribute), a target (Identify), and a magnifying glass (Search). The "Music" icon is highlighted.</p>	<h3>Music Page</h3> <ul style="list-style-type: none">● Purpose : To access locally stored music or optionally, Spotify account music.● Requirements :<ol style="list-style-type: none">1. Access to local storage,2. Spotify Integration using Spotify SDK● Features :<ol style="list-style-type: none">1. Button to bring local music access permission pop-up,2. Button to bring Spotify login window
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Contribute Page

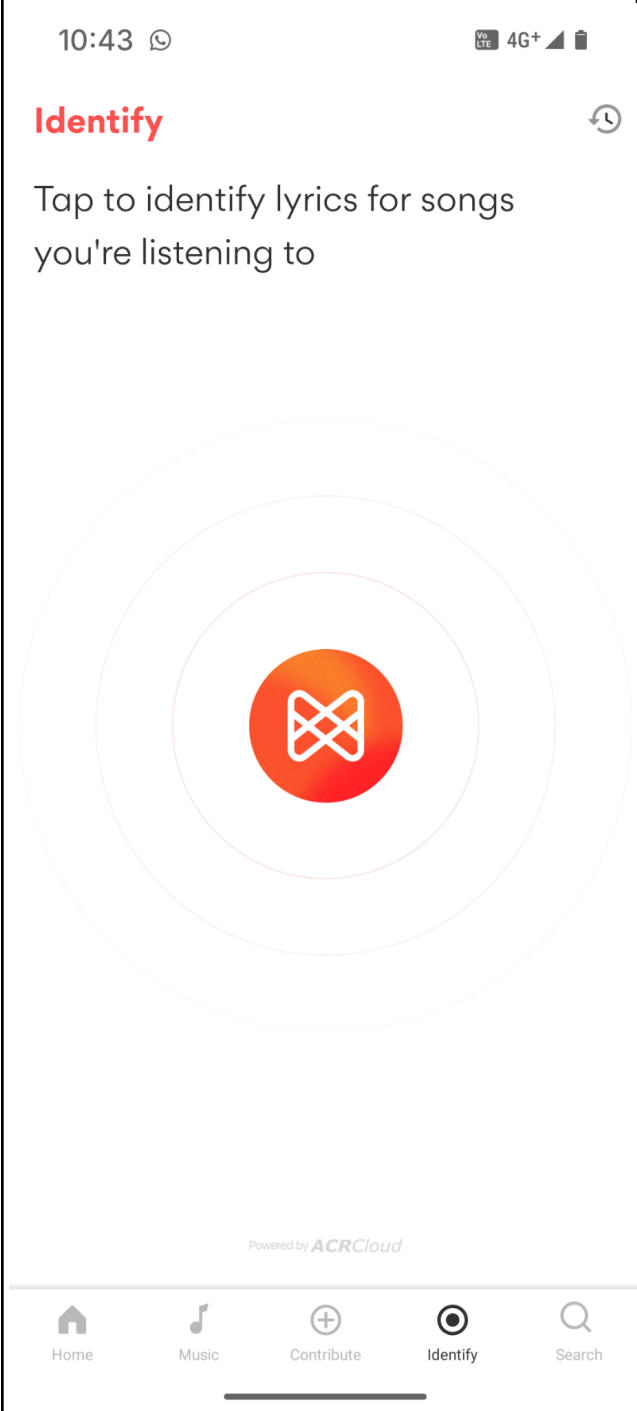
- **Purpose :**

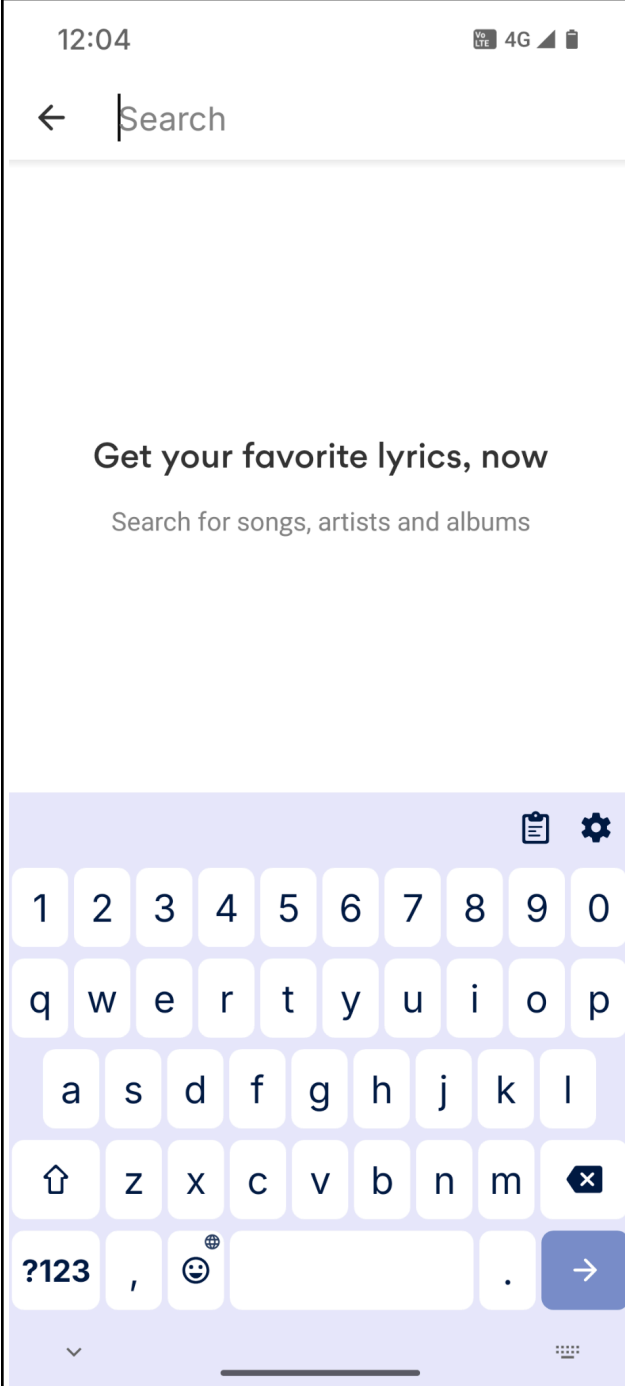
To encourage the user to contribute to the Musixmatch community and to the App's purpose.

- **Features :**

Widgets to take the user to the profile page and to other pages and one that redirects to a website,

A scrolling info field to display the profiles of the top contributors.

	<h3>Song Identification Page</h3> <ul style="list-style-type: none"> Purpose : To identify the song being played using the microphone. UI Features : An animated button for the user to start recording audio and to display that audio is being recorded. Functional Features : <ol style="list-style-type: none"> ACR Cloud SDK for the song detection API, Audio recording permission UI requirements : <ol style="list-style-type: none"> Button, ImageView, MaterialButton, ObjectAnimator, ValueAnimator, LottieAnimationView
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	<h3>Search Page</h3> <ul style="list-style-type: none"> Purpose : To let the user search for music using the name of the track, of the artist, or the lyrics within the track. Functional Features : <ol style="list-style-type: none"> 1. Pops up the default system keyboard when the page is visited, 2. Text input field UI Components : <ol style="list-style-type: none"> 1. EditText, 2. AutoCompleteTextVie w, 3. TextWatcher, 4. Button <p>(Keyboard not a part of the UI, it is another app)</p>
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<p>10:43 4G+ </p> <p>← Settings</p> <p> JAI TALREJA Rookie Logged in with Google</p> <p>Try Premium for free </p> <p>Connected music</p> <p> Spotify Connect</p> <p> Music Library Connect</p> <p>Customize</p> <p>FloatingLyrics™ ></p> <p>Lockscreen ></p> <p>Lyrics ></p> <p>Notifications ></p> <p>App theme ></p>	<h3>Settings Page</h3> <ul style="list-style-type: none"> Purpose : Allows the user to Change the logged in account, Customize app functionality, change the app tier (Free or Premium), And connect or disconnect local storage and Spotify Music library. UI Components : <ol style="list-style-type: none"> 1. LinearLayout, 2. RecyclerView, 3. MaterialButton, 4. android:DrawableEnd Functional Feature requirements : <ol style="list-style-type: none"> 1. Firebase Authentication, 2. Spotify Authentication, 3. GoogleSignInClient API, 4. Local Music access permission
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