

Practical 1

App- Musixmatch



1. Learnability-

Pros-

From a user's standpoint, the basic usage of the app is very easy to understand thanks to the extensive information provided in the Help Centre which is present in the app settings of the app under the About heading which then further redirects to an online Musixmatch Forum.

It includes information regarding all of MusixMatch's key features. Along with this, it also includes explanation on how to use the Floating Lyrics feature of the app. It also guides you on how to buy a premium subscription for the app as well as information on how a subscriber can contribute to lyrics for songs and how Musixmatch can be integrated with Spotify playlists.

Three screenshots of the Musixmatch Forum mobile application, likely taken from an Android device. The first screenshot shows the main forum page with a search bar and navigation links for Home and Support. The second screenshot shows a section titled 'FloatingLyrics' with a description and links to 'Premium Plan', 'My Music Library', 'Spotify Integration', and 'Add, sync and translate lyrics'. The third screenshot shows sections for 'Chromecast', 'Beta Program', 'Help us translating the Android app', and 'Lyrics LockScreen for Android'. Each screenshot includes a header with network and battery status, and a footer with navigation icons.

2. Usability-

Pros-

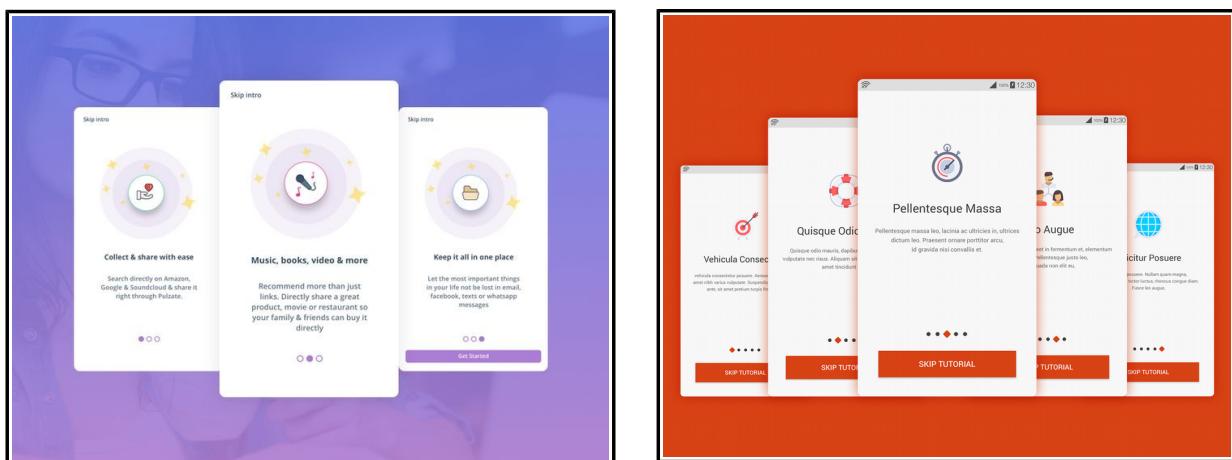
The app is extremely user friendly and has simple and well separated functionality.

As a result, it is easy for users to quickly get an understanding of all the functionality provided by the app.

Cons-

For first time signed in users, Musixmatch doesn't provide any introductory tutorial to guide these users through the app's functionality like some other apps do.

For example,

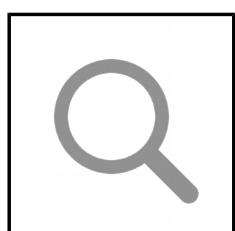


3. Metaphors-

Pros-

There is apt usage of metaphors in Musixmatch's design which basically means that the icons used within the app correctly convey their functionality.

Most of the icons like the ones for Settings, Shuffle, Home and Search make it easy for the user to correlate with their respective functionalities.



Cons-

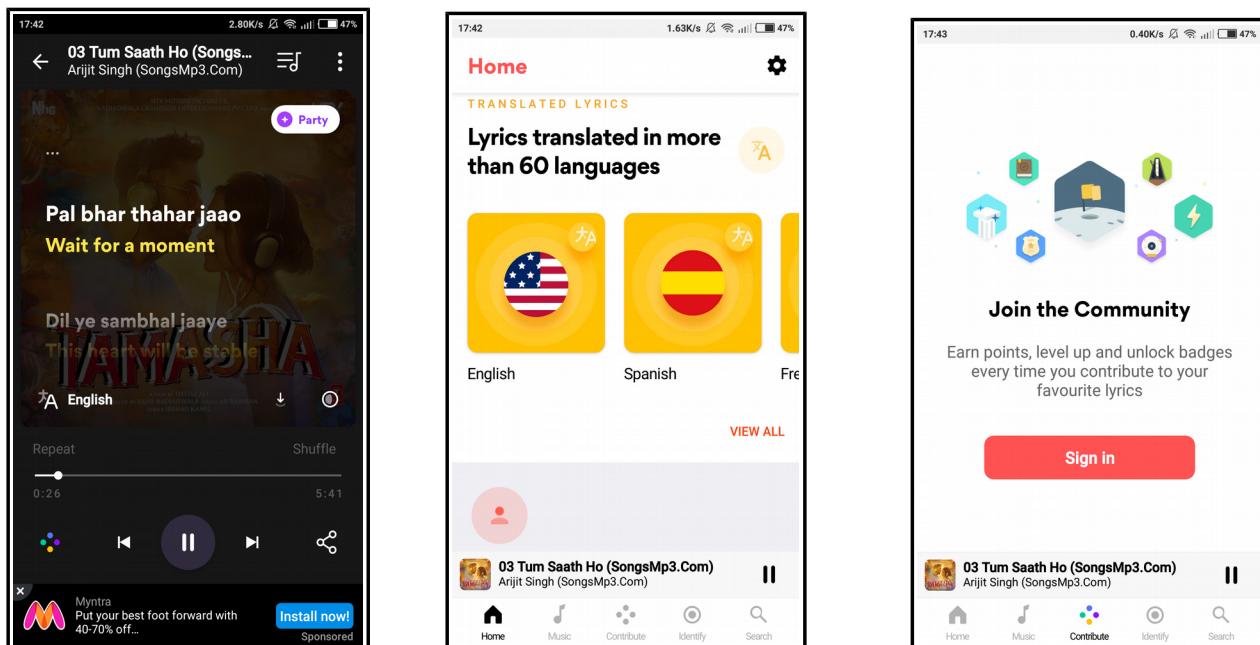
There are some icons which at their first look do not give out information as to what they do would on clicking them like the Currently playing song, Contribute, Identify, Fix all songs and Offers.



4. Intuitiveness-

Pros-

The app is very intuitive and hence it is very easy to use. Users get a grasp of the usage of all the functionalities pretty quickly.

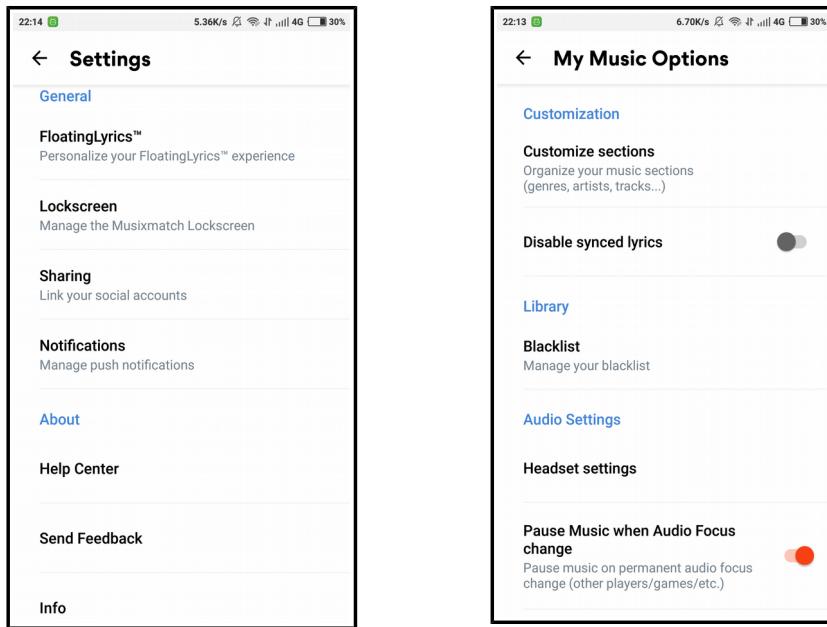


5. Consistency-

Pros-

There is definite consistency in terms of the theme display throughout all functionalities of the app.

All labels and almost all icons so what they are meant to do, in the sense that they correctly convey what they would be used to do.



6. Simplicity-

Pros-

The usage is very simple to understand and the user quickly gets well accustomed to the app.

7. Prevention-

Pros-

Musixmatch doesn't provide unnecessary option that what is required to get the user's work done.

Due to this, a situation rarely arises where due to some unexpected user intervention, the app stopped working.

8. Forgiveness-

Pros-

Rarely do users come across a scenario where the app faces certain technical problems or crashes.

Even if these cases happen, the app makes sure to display a meaningful message regarding what problem the app is facing, a message which can be easily understood by the common user.

The message does not contain technical information regarding the failure of the app to launch without errors, which is anyways not understood by the common user.

9. Aesthetics-

Pros-

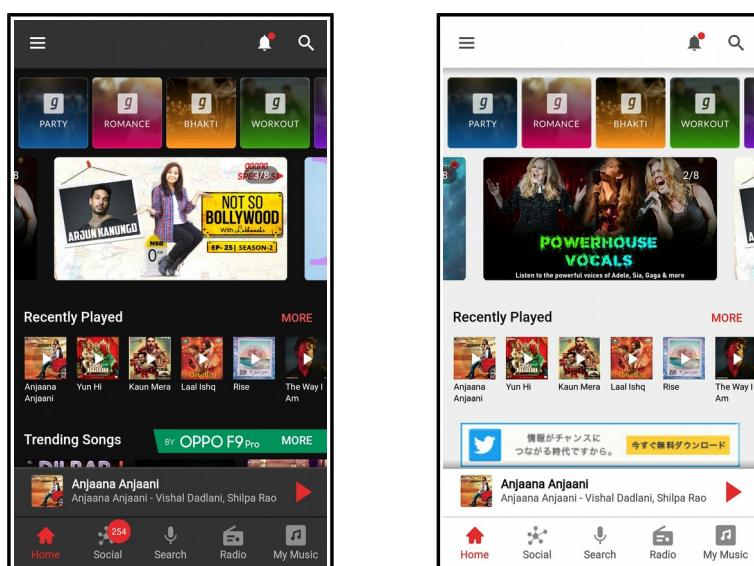
The UI and the design as well as the theme of Musixmatch is pretty basic and simple, though very attractive.

Cons-

Musixmatch doesn't provide support or options to change the theme of the app.

The least they could do is provide a light and dark mode option like some other apps do which will at least allow the user some preference to choose among the two.

For example,



Assignment 1

7 stages of action

Web portal-

1. **Forming the goal-** I want to sign up on a website.
2. **Forming the intention-** I would need to have access to resources like the internet and a device to sign up from.
3. **Specifying the action-** I would need to browse to the sign up page of the website using any web browser.
4. **Executing the action-** I browse to that particular page and fill in my details required for signing up for that website.
5. **Perceiving the system state-** Once I press the sign up button, I see some action being performed proceeding towards successful sign up.
6. **Interpreting the system state-** I see that I have been able to successfully sign up for that website when the website redirects to say, its home page.
7. **Evaluating the outcome-** I have been able to sign up for the website. Hence, my goal is successful.

Desktop application-

1. **Forming the goal-** I want to insert a table in a word document.
2. **Forming the intention-** I would have to figure out which options to select and where to select them from to do this task.
3. **Specifying the action-** I would have to search for the table insertion button in the toolbar and then select table parameters like number of rows and columns and then press insert.
4. **Executing the action-** I click the table insertion button, select the number of rows and columns that I need and then press insert.
5. **Perceiving the system state-** I see that there has been a change in my document at the current position of the cursor.
6. **Interpreting the system state-** I see that the table has been inserted at the current cursor position.
7. **Evaluating the outcome-** I have been able to insert table in my word document. Hence, my goal is successful.

Mobile app-

1. **Forming the goal-** I want my player to shoot with the gun in a combat gaming app.
2. **Forming the intention-** I would have to figure out which button to click to make my player shoot from his/her gun in a specified direction.
3. **Specifying the action-** I would have to direct my player in a particular direction and then press the button which enables him/her to shoot from his/her gun.
4. **Executing the action-** I change my player's direction as per need and click on the shoot button.
5. **Perceiving the system state-** I see that there has been some changes on the app's interface.
6. **Interpreting the system state-** I hear a shooting sound after I press the shoot button. I also see the ammunition status updated to one number less than before on the app's interface screen.
7. **Evaluating the outcome-** I have been able to shoot from my player's gun. Hence, my goal is successful.

Practical 2

App- Musixmatch



Various role specific tasks for an individual user-

- 1. Play local music-** play, pause, stop, next song and previous song are some tasks which can be performed on music (songs, other audio) present in local storage.
- 2. View local music-** local media files can be viewed on the basis of albums, artists, tracks, playlists, genres and folders.
- 3. Create/Delete/Edit playlist-** the user can create a playlist consisting of local songs, add songs to it, edit its name and other attributes, delete songs from it, delete the playlist itself.
- 4. Fix all songs-** the user can fix information like title or artist for all songs in one go. The information fetched from the internet.
- 5. Shuffle albums, tracks, artists, genres-** the user can change the ordering of these aspects.
- 6. Add song to favourites-** a song can be marked to be a favourite.
- 7. Edit song information-** edit information related to the song like its title, artist and genre.
- 8. Change audio quality using equalizer-** this tool can be used to improve the song audio quality by changing bass settings and mode of the song among other options.
- 9. Contribute lyrics to songs-** a user after login can contribute to lyrics of any song played via Musixmatch.
- 10. Search lyrics in song catalogue-** a user can view lyrics for the song being played via the app.

11. Floating lyrics- the app allows users to play songs on any other music app (default phone music app, Gaana, Saavn, YouTube, etc.) and it displays lyrics for that particular song being played.

11. Translate lyrics- provides the user with language conversion support for over 60 international languages.

12. Create lyrics card for songs- a user can create a lyrics card for any song which contains lyrics from the song on the foreground of a background image.

Practical 3

App- Musixmatch



1. Object:

Title of case study	Description	Various task objects
Musixmatch	A music app which allows users to listen to songs, view their lyrics, create lyrics cards and contribute to lyrics	songs, playlists, equalizer, lyric cards, floating lyrics

2. Object properties:

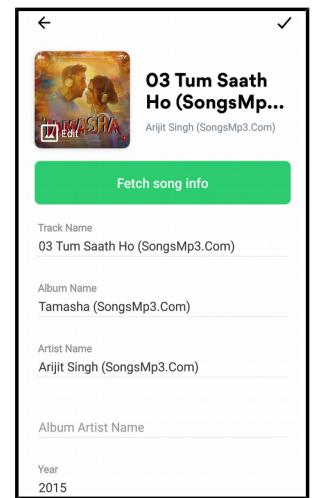
Task	Object	Object properties
1.	Song	a. Track name b. Album name c. Artist name d. Album artist name e. Year f. Genre
2.	Playlist	a. Name b. Number of tracks
3.	Lyrics card	a. Background image b. Lyrics/Quotes
4.	Floating lyrics	a. Lyrics
5.	Equalizer	b. Preset type b. Bass c. Mid d. Treble e. 3D effect

3. Object actions:

Task	Object	Various actions performed on objects
1.	Song	a. Edit song info b. Add to favourites c. Go to artist d. Create LyricsCard e. Sleep timer f. Equalizer g. Share as LyricsCard

		h. Play i. Pause j. Stop k. Next song l. Previous song
2.	Playlist	a. Play b. Play next c. Add to queue d. Delete e. Rename f. Shuffle play
3.	Lyrics card	a. Add/Change quote/lyrics b. Add/Change background image c. Change font d. Share
4.	Floating lyrics	a. Open b. Enable/Disable c. Keep screen on d. Enable transparency e. Smart minimize f. Remember state
5.	Equalizer	a. Switch on b. Select preset c. Change/Boost bass d. Apply 3D effect e. Change mid and/or treble

4. Object action interface:

Task	Object	Actions	Interface provided
1.	Song	a-g	 <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <ul style="list-style-type: none"> ● Add to Favorites ● Go to Artist ● Create LyricsCard ● Edit song info ● Sleep timer </div>

2.	Playlist	a-f	<p>A screenshot of a music application interface. At the top, there are tabs for 'TRACKS', 'PLAYLISTS' (which is selected), and 'GENRES'. Below the tabs, a list shows 'Recently added' and a selected item 'Hindi favo' which has 0 tracks. A context menu is open for this item, listing options: 'Play', 'Play next', 'Add to queue', 'Delete', and 'Rename'. At the bottom of the screen, there's a track preview for '03 Tum Saath Ho (SongsMp3.Com)' by Arjit Singh, with a play button icon.</p>	<p>A screenshot of a music application interface showing a playlist titled 'Hindi Favourites'. The screen displays the message 'This playlist is empty.' Below the message, there's a track preview for '03 Tum Saath Ho (SongsMp3.Com)' by Arjit Singh.</p>
3.	Lyrics card	a-d	<p>A screenshot of a 'Share LyricsCard' interface. It lists various sharing options with icons: Upload to Photos, Messaging, Hangouts, Add to Maps, Bluetooth, Feedback, Flipboard, Gmail, KDE Connect, and Mail. Each option is accompanied by a small description and a circular icon.</p>	<p>A screenshot of a 'Customize' interface for lyrics. It shows a scenic image of a river flowing through a forest with the lyrics 'Pal bhar thahar jaao' overlaid. Below the image, the song title 'Agar Tum Saath Ho' and artists 'ALKY VAGNIK FEAT. ARLIJIT SINGH' are displayed. At the bottom, there are three buttons labeled 'QUOTE', 'IMAGES', and 'FONTS'.</p>
4.	Floating lyrics	a-f	<p>A screenshot of the 'FloatingLyrics™' settings screen. It includes several toggle switches for configuration: 'Enable FloatingLyrics™' (on), 'Keep Screen On' (on), 'Enable transparency' (on), 'Smart minimize' (on), and 'Remember state' (on). There's also an 'Options' button.</p>	<p>A screenshot of the 'Home' screen for FloatingLyrics. It features a large promotional message: 'Let's play some music on your favorite music app...lyrics will appear here!' with a 'TRY NOW ON YOUTUBE' button. Below this, there's a track preview for '03 Tum Saath Ho (SongsMp3.Com)' by Arjit Singh, with a play button icon.</p>

5. Equalizer

a-e

