

Initial App Plan.

SONG SHOW PAGE

- Release date — If its OC, maybe then make it an upload date
 - For the songs that we seed the DB with, this is not really an issue.
- There is a follow button for the artist
 - Under this, there is a count of the number of people that follow this user.
- There is a play count number, a like number, as well as a share number [The related tracks also all have this on them]
- There is a related tracks section. — For this maybe use the tag/arbitration thing
- **INFINITE SCROLL ON COMMENTS**
- In the song bar itself
 - Waveform
 - **The tags it is under**
 - A link to the artist
 - Play button
 - How long ago the track was uploaded (above the tag)

The screenshot shows a song page for 'That Far' by 6LACK. At the top, there's a large orange play button icon and the artist name '6LACK' next to it. Below that is the song title 'That Far'. To the right, there's a small circular profile picture of the artist and a timestamp '7 days' followed by '# R & B'. The main area features a large waveform visualization of the song's audio. Below the waveform is a row of small thumbnail images representing other songs or tracks. On the left side of the main content area, there's a comment input field with placeholder text 'Write a comment' and several interaction buttons: 'Like', 'Repost', 'Share', and 'More'. To the right of these buttons are the song's stats: '282K' (play count), '22.3K' (like count), and '4,461' (share count). Below this section, there's a profile picture of the artist, his name '6LACK', and a 'Follow' button. To the right, it shows his follower count '189K' and a '28' value. Further down, there's a section for 'Related tracks' with three items listed: 'Playboi Music' (by Madeintyo), 'Saturdaze' (by ItsRemmyMusic), and 'dules ~ For Your Lust' (by dules). At the bottom, there's a section for 'In playlists'.

The Commenting

- There is a bar on the page that allows you to submit a comment (`input type="text, value="Write a Comment"`)
- Under the bar, **LIKE, REPOST, SHARE, MORE** buttons.
- Has a reply button. When you hit it, a text bar pops up under the comment (similar to the first comment)
 - **Nested comments have the exact same functionality**
- When you hover over the profile/ the profile name a little window pops up. The window has:
 - A follow button,
 - Link to the profile (by clicking on photo or user)

- Number of followers
- User photo

Avi at 0:36:
so chill

3 days

Reply

Rawww at 0:28:
dope dope!

3 days

e at 0:15:
one zone

3 days

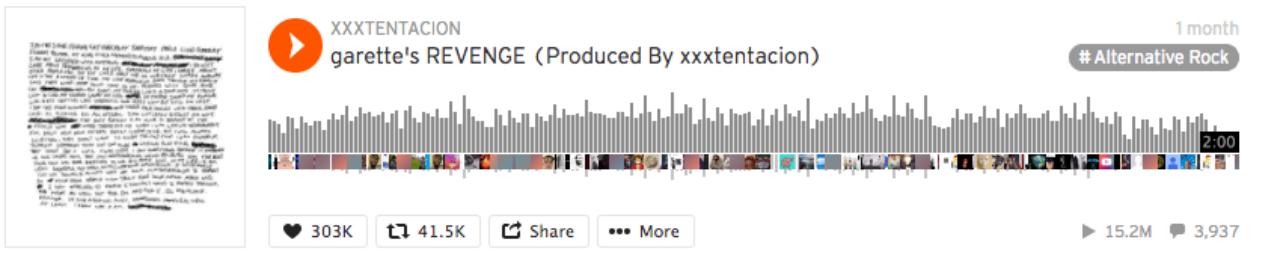
Rawww at 1:41:

3 days

346666817 Write a reply

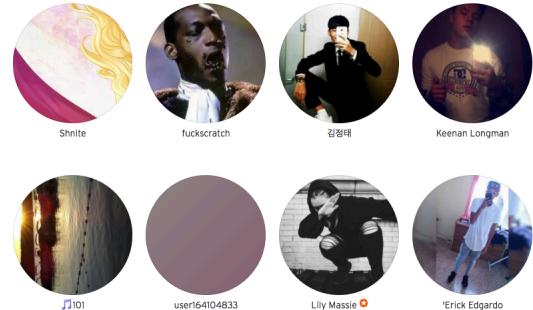
USERS/ARTISTS SHOW PAGE

- Banner style cover photo with embedded profile photo - kinda like Facebook.
 - When you click on the 'profile photo' part of the cover photo you are taken to a bigger picture of it (like clicking on a Facebook profile photo)
- Tracks/Albums/Playlists/Reposts all do as you would expect - show a list of the aforementioned category, sorted by date uploaded (most recent first)
 - **Albums and playlists** show a sneak peek of a few songs in them, as can be seen in the image below. If you click on the small play button next on the track name it will start playing the track.
 - The album cover art will have a small annotation that states the number of tracks in the album.
 - The album in this view can have a tag
- The tracks page
 - Like/Repost/Share buttons, as well as a 'more' button that - has the options saying [add to playlist, download, station]. For now, maybe a better option would be just to rename this 'add to playlist'. The like and repost buttons have the values of the number of likes and reposts.
 - The share button allows you to post to other social media sites - maybe best to not implement this for now.
 - The track has a play and comment count to the right of it.
 - The waveform comments can be seen here.
 - Each song can have its own cover art.
- The all page can allow both playlists and tracks. Has two main segments of functionality
 - A spotlight feature - This means that the user can select whatever they want to show up at the top of their page
 - After which, it is sorted by how recency of activity (This also shows other user's reposts of this user's material - maybe can't implement this)



- [Essentially does what it says — ALL]

- The reposts section
 - As seen in the photo below, the first user has reposed something made by the second user.
 - Similar to the song section in terms of functionality. Perhaps this can be implemented by a simple join table (a user has many reposts via the reposts of songs/playlists)
 - Each repost can have its own tags.
- The sidebar
 - Follow button - does what it says.
 - The Envelope icon allows you to message the user whose page it is.
 - The number of follows/ people followed/ the number of uploaded tracks
 - Artist description - Not necessary, but need to allow the user to edit this whenever they want.
 - The number of times the user has liked tracks, as well as the most recent likes?
 - There is a View all button, that essentially likes to all the likes a user has made — The layout of this page is pretty much the same as the tracks page
 - The follows section , with a view all button also. The format of this is different, as is shown on the photo on the right.



The Collection Page.

- There are 7 main headings
 - Overview
 - Likes
 - Playlists
 - Albums
 - Stations — Will not implement
 - Following

All Tracks Albums Playlists Reposts

Spotlight

X Ambassadors VHS 2.0 Album · 2016 1 year # Alternative

18 tracks

Track	Plays
1 Renegades	124K
2 Unsteady	591K
3 Hang On	5.117
4 Gorgeous	16.8K
5 Fear (feat. Imagine Dragons)	3,168

View 18 tracks

Followers 8,861 Following 1 Tracks 73

Show more ▾

f Facebook t Twitter i Instagram s Songkick

On tour View all

Monday, 26 June 2017
New York, NY, US
Theater at Madison Square Garden

- History — Maybe will implement in some sort go manner, but not fully.
- The Overview section
 - This is literally just as you scroll down, you see a shortened version of all the previous sections, except history.

Overview Likes Playlists Albums Stations Following History

Recently played

XXXTENTACION	ItWasntEnough XXXTENTACION	X Ambassadors	VHS 2.0 X Ambassadors · 2016		

Likes

Frank + Derol - Let It Go				

Shuffle

- The likes section - essentially just a bunch of list of all the tracks that you have liked (will sort by recency when I implement this)
- The playlist section is the same as the like section, but the cover art has the number of tracks inside it == maybe the way to implement playlist cover art is to just add the number when it is uploaded. [but this may not work]
- The following section shows a list of users that you have followed (in circular photos) with an adjacent search bar that will allow you to look for a particular user that you have followed.

Hear what the people you follow have posted:

Filter



ZeeHuq



Dhevan De Saram



Revatha Shah



Viren Ratwatte



Henry Brown 9



Ashane Gunathilake



Jacky Yee 1



Nina Pattu



queen urchin



johntsui33



Umesh Herath



Harini Muhunthan

575 likes

[View all](#)



XXXTENTACION
garette's REVENGE (Produced By x...
▶ 15.2M ❤ 303K ⏸ 41.5K 💬 3,936



SKI MASK THE SLUMP GOD
MY MIND SNIPPET PROD. NATRA A...
▶ 126K ❤ 13.1K ⏸ 1,837 💬 159

• The history section

- Shows the users who you have listened to as well as the individual tracks that you have listened to. Will be easier for me to implement this only by tracks listened to. This data will be used to aggregate preferences, by both tags and echo nest.

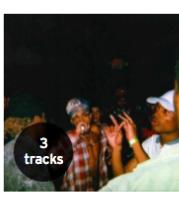
Recently played:

[Clear all history](#)

Filter



XXXTENTACION



3 tracks
ItWasntEnough
XXXTENTACION



X Ambassadors

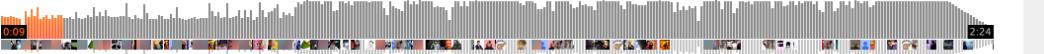


18 tracks
VHS 2.0
X Ambassadors - 2016

Hear the tracks you've played:



RyBundy
xxxtentacion - SUICIDE PIT (Freestyle)



1 year

#P & B

[Write a comment](#)

85K ⏸ 7,041 Share More Buy

▶ 5.13M 💬 665



XXXTENTACION
01 MANIKIN (Feat. Wifisfuneral) (Prod.Grimmidoza)



1 year

#Bad Vibes Forever

The Album/Playlist Show Page

- Cover art on the right
- How long ago it was uploaded
- The play button will automatically play the first track on the playlist, and then continue on through them
- The waveform pops up in the middle section when you start playing a song — THATS WHAT THE MIDDLE SECTION IS FOR
- The album can have multiple tags as is shown next to the profile photo of the artist. As is the case below, the photo of the artist needs to be in the same place on all of the song/playlist/album show pages. This means that this Artist/User photo section can actually be a component.
- By the looks of it you can have tags in two sections. — This is the same with playlists.
- Can see other playlists by the same user in the tab on the right.
- Can see people who have liked this playlist on the right as well.
- Can see the total length of the playlist as well.
- In the artists widget — The number of followers & the number of tracks.

The screenshot shows the 'Ferg Forever' playlist by A\$AP Ferg on SoundCloud. The top left features the artist's profile picture and name, followed by the playlist title 'Ferg Forever'. To the right are the upload date ('2 years'), a '#ASAP FERG' tag, and a large waveform graphic. Below the waveform is a circular badge indicating '19 TRACKS' and a total duration of '55:23'. On the far right is a dark album cover for 'Ferg Forever' with the text 'PRESENTS FERG FOREVER'.

Below the main header, there are social sharing options: 'Like', 'Repost', and 'Share'. The artist's bio includes a link to their SoundCloud profile, which has 1.05M listeners and 44 tracks. There is also a 'Follow' button.

The playlist itself is titled 'DJ Drama Presents: Ferg Forever' and includes a list of tracks:

- 1 Perfume (prod. Philo\$ Cult) ▶ 1.74M
- 2 Jungle ft. Marty Baller (Prod. by Crystal Caines & Black Jab) ▶ 630K
- 3 Fergsomnia ft. Twista (Prod. by Very Rare & DRAM) ▶ 1.16M
- 4 Bonnaroo ft. Wynter Gordon (Prod. by Big K.R.I.T.) ▶ 523K

On the right side of the page, there are sections for 'Playlists from this user' and 'Likes'. The 'Playlists from this user' section shows three playlists: 'A\$AP Ferg SBTRKT feat A\$AP Ferg- Voices In M...' (518 reposts), 'A\$AP Ferg A\$AP Ferg- VMA Tales' (1,330 reposts), and 'A\$AP Ferg A\$AP Ferg - Pantie Lover' (2,698 reposts). The 'Likes' section shows 22.9K likes and 5,192 reposts, each with a 'View all' link.

The Stream Page

- Pretty much shows the latest activity from the people that you are following.
- As can be seen, the activity feed will say if they reposted a track, uploaded a track, etc.
- The sidebar on the right gives an option of who to follow, shows a mini likes section, as well as a listening history section (which has the artist name and the song name)

The screenshot displays the Stream page interface. At the top, there are tabs for Stream, Charts, and Discover, with Stream being the active tab. Below the tabs, a message reads "Hear the latest posts from the people you're following:". The main content area shows three tracks:

- Travis Scott - A man** (Hip-hop & Rap) - Posted by Menushe Silva 3 days ago. Includes a video thumbnail, play button, genre tag, and interaction metrics (435K likes, 51.4K plays).
- A\$AP Ferg - Plain Jane (produced by Kirk Knight)** (Hip-hop & Rap) - Posted by Menushe Silva 3 days ago. Includes a video thumbnail, play button, genre tag, and interaction metrics (22.3K likes, 3,438 plays).
- RAYE - The Line (Offaiah Remix)** (Pop) - Posted by Interscope Records 8 days ago. Includes a video thumbnail, play button, genre tag, and interaction metrics (0 likes, 0 plays).

To the right, a sidebar titled "Who to follow" lists users with profiles and activity counts. It also includes a "Who to follow" button, a "1 like" section with a "View all" link, and a "Listening history" section listing recent tracks with their artists and genres. At the bottom, there are download links for the App Store and Google Play, and a footer with legal links.

Charts

- For this project will sort it by the amount of times played — This will mean that the song will need a default play count.
- Can sort by genres as well. Perhaps genres can be a subsection of tags, where you can look at all the music for a genre? But this would mean that we would need to hardcode the genres that would be included on the dropdown.
- Shows the rankings of the tracks.
- Next to each track it shows the plays for this week and all time — This may be okay to implement. [Maybe plays by week will be more difficult to implement]

Stream Charts Discover

Top 50 ▾ All music genres ▾

The most played tracks on SoundCloud this week

#	Track	Plays (This week / All time)
1	LIL UZI VERT 1.5- XO TOUR Llif3 (Produced By TM88)	► 3.12M / 97.7M
2	PnB Rock Unforgettable (Freestyle)	► 2.69M / 14.1M
3	XXXTENTACION garette's REVENGE (Produced By xxxtentacion)	► 2.06M / 15.2M
4	A BOOGIE WIT DA HOODIE Drowning (feat. Kodak Black)	► 2.03M / 45.1M
5	playboicarti Magnolia	► 2M / 27.8M
6	Post Malone Congratulations (feat. Quavo)	► 1.92M / 61.9M

Discover

• Does pretty much what it says in the photo. Based on plays and likes, we look at either tags or the

aggregated echo nest score and go from there.

Stream Charts Discover

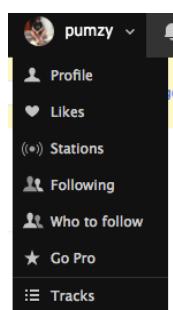


Sorry, we don't have any suggestions for you yet.
Play and like tracks to show us what you like. Try [Search](#) or [Charts](#)

The Nav Bar



- Soundcloud Icon and home both direct you to your steam
- Collection directs you to your collection
- Search allows you to search, and will take you to the search page



- Clicking on Upload will take you to an upload form
- Clicking on your profile will create a dropdown menu as shown on the right
- The bell shows your notifications (may not implement)
- The envelope shows your messages (may not implement)
- For this app, I will keep the logout button on this dropdown menu also.

The Search Section

- Brings up the page below. Will show you a list ordered by relevance of the search. Need to try implementing ordering by popularity for results with the same relevance.
- It would be easier to search by tracks only, but need to see what we can do. Soundcloud allows you to play songs from the search, which would use the same component as the album play song thing.

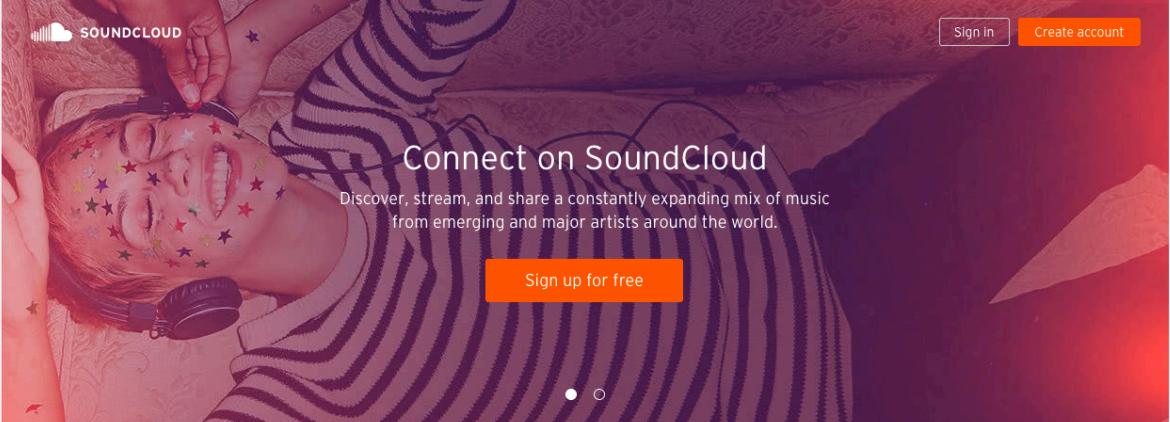
The screenshot shows the SoundCloud search results for the query "ef". At the top, there's a navigation bar with a magnifying glass icon and the text "Search results for 'ef'". Below it is a sidebar with a search bar and filters: "Everything" (highlighted in orange), "SoundCloud Go+ tracks", "Tracks", "People", "Albums", and "Playlists". The main content area displays two search results:

- Result 1:** A track by "lindamartini" titled "Eféméra". It has a play button, a waveform, and the text "11 years" and "#Rock". Below it are buttons for "Like", "Repost", "Share", and "More".
- Result 2:** A user profile for "Ef 3 A". It shows a large circular profile picture, the name "Ef 3 A", a follower count of 5, a following count of 4, and a "Follow" button. Below it is a track by "f4binh0" titled "Efésios 6 - Anderson Freire". It includes a play button, a waveform, and the text "4 years" and "#Gospel". Below it are buttons for "Like" (13.8K), "Repost" (1,020), "Share", and "More".

At the bottom of the results, there are links to "See all SoundCloud Go+ results >" and "Found 500+ tracks, 500+ playlists, 500+ people".

Pre Sign In

- Can search for tracks and listen to music, but cannot comment, etc. Keeping this in mind, it may be better to just require signing in.
- Animation at the top
- Sign in and Create account both create popups which would then I assume be used to sign in. Need to figure out how to do this.— (Sign in and signup are both very similar forms)
- Section with stuff that is trending
- Need a demo login button.



SOUND CLOUD

Sign in Create account

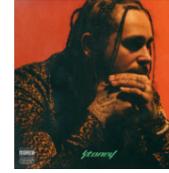
Connect on SoundCloud

Discover, stream, and share a constantly expanding mix of music from emerging and major artists around the world.

Sign up for free

Search for artists, bands, tracks, podcasts or Upload your own

Hear what's trending for free in the SoundCloud community

 1.5- XO TOUR Llif3 (Produced by LIL UZI VERT)	 Unforgettable (Freestyle) PnB Rock	 garette's REVENGE (Produced by XXXTENTACION)	 Drowning (feat. Kodak Black) A BOOGIE WIT DA HOODIE	 Magnolia playboicarti	 Congratulations (feat. Quavo & Post Malone) Post Malone
					

Initial Concerns

- Playlists can either be private or public — Need to add a Boolean value to the playlists
- In order to make an album, you can mark a playlist as an album.
- **ALBUMS === PLAYLISTS**

This would mean that the song model would look like:

1. Artists/Users
2. Albums/Playlists
3. Songs

BUT SONGS CAN BE ON THEIR OWN WITHOUT PLAYLISTS, SO THAT'S A MANY TO MANY RELATIONSHIP

- A playlist has many songs inside of it
- A song can be in many playlists - but can only be in one album// This may be a problem
- All songs inside the album need to be uploaded by the users that are making the album.
 - Conditional validations? Or maybe can just do this in the process of when you upload things to the database.

THE DISCOVER FEATURE

- Maybe add tags to the song uploads — This would enable us to discover the songs using similar tags
- OR can use the echo nest API (which I really want to do)
- Can use the attributes produced by the API to add tags for each song
 - Tags will most likely have to be implemented via a join table.
 - This can also be used for a potential tag search
 - The website allows you to tag the song yourself (Can allow for a dropdown menu in order to choose)

WAVEFORMS

- Need to figure this out
- How do we implement comments for this model
 - Essentially when you hover over the waveform at a particular time, then you can see the most recent comment that was uploaded at that time in the song? — **COMMENTS DO NOT HAVE LIKES ON SOUND CLOUD**
 - Date subtraction when commenting and listening to the music
 - What if the song is paused
 - This is actually fine because in order to implement the feature that would enable pause and play, we need this functionality anyway, so can just use the time value that is stored in the play pause thing.

FOLLOWS

- Users can follow other users. Maybe we want a sidebar with the most recent song that a user has played

REPOSTS

- Can repost both albums and songs. Same thing for your spotlight feature

—

SONGS

- Can use any songs as long as it is for educational purposes

- Tag this explicitly at the bottom of the app.