

## The product backlog:

### UI pages:

#### creatorAllPlaylist:

- List of all the playlist the user created
- Button for create new playlist, this should lead to the creatorPlaylist page
- Retrieving hidden artworks specific to the playlist the creator created on this webapp, to be displayed on each of the playlist listed, along with playlist note and playlist title.
- Delete button for each playlist

#### creatorEditSong:

- Add notes to song
- Submit button for edit the note
  - Verification for the data (word limit)
- Button to return to playlist where this song belongs to

#### creatorPlaylist:

- Edit playlist button (to add songs to playlist), this leads to the creatorSearch page
- Each song has a “delete” button next to it. This allows the user to delete the song from the playlist
- Each song has a “edit button” next to it. This button will lead to the creatorEditSong page.
- Each song needs to display song title, album name, album artwork, artist, and duration
- “Add hidden image” button that is to be hidden by the grid
- Add textbox (editable field) for the playlist name
- Add note textbox (editable field) for the playlist note
- Submit button for changing the note textbox and the hidden image
  - Verification for this submit button
- Display total duration of all songs for the playlist, number of songs contained in the playlist, name of creator for this playlist

#### creatorSearch:

- Title of this page should have the name of the playlist in which we are editing
- Search engine (by song name) using Spotify API
- Most relevant songs to the search results will be displayed.
- Each of these results needs to display album artworks, artist, and the song title.
- Each of the result will have a button “Add song” next to it where the user will click on and this song will be added to the playlist that first linked to this search page (playlist that is listed in the title)
  - If the song already belongs in the playlist, the “Add song” button will not appear

#### login:

- Login/ Register with Spotify (OAuth)
- Verify and authenticate using the API

#### receiverGrid:

- A grid of song with clickable (opaque) boxes, each leading to a receiverSong page.
- When a box is clicked, the user will be directed to the corresponding receiverSong page
- When returning from a receiverSong page, the box assigned to the song turns transparent (but is still there able to be clicked) and the user can select another box to go to.
- Title of the page will be the corresponding playlist name
- The grid of songs number of boxes for each side will be in a dimension that is closest to the hidden image aspect ratio, and this number will be closest (ceiling) to the number of songs in the playlist. This is to ensure that there are at least as many boxes in the grid as there are songs in the playlist.
- When the playlist is created, if there are more boxes than songs in the playlist, the first song will be duplicated to fill in the empty boxes by having the song page linked to the remaining boxes

#### receiverSong:

- A song page with song data (artist, time, audio, album name, album artworks) from Spotify API
- A button to play/pause the song
- The note for the song from the creator will be displayed
- Button to return to the grid where the song belongs to

#### Extra features:

#### creatorSearch:

- Search by artist
- Results will be generated while typing, not just when entered

**The first sprint backlog:** a complete list of the functionality you will complete during your first sprint, and how that work is allocated among your team members.

- Researched about needed APIs for this project
- Look into login api
- Build Models
- Login page

**The name and Andrew ID of the product owner for the first sprint:** utran, xuanyel

**A complete implementation of the data models used by your application.**

Model:

User:

- Id - use the id provided by spotify

Playlist:

- Id

- User (Foreign key)
- Hidden artwork (type: image file)
- Playlist note (max character limit: 200)
- Playlist name (max character limit: 50)

Song:

- Id (spotify track's id)
- Playlist\_id (foreignKey)
- The note from the creator (max character limit: 200)
- Album artworks
- Song duration
- Artist
- Album name

login

Register

## Login

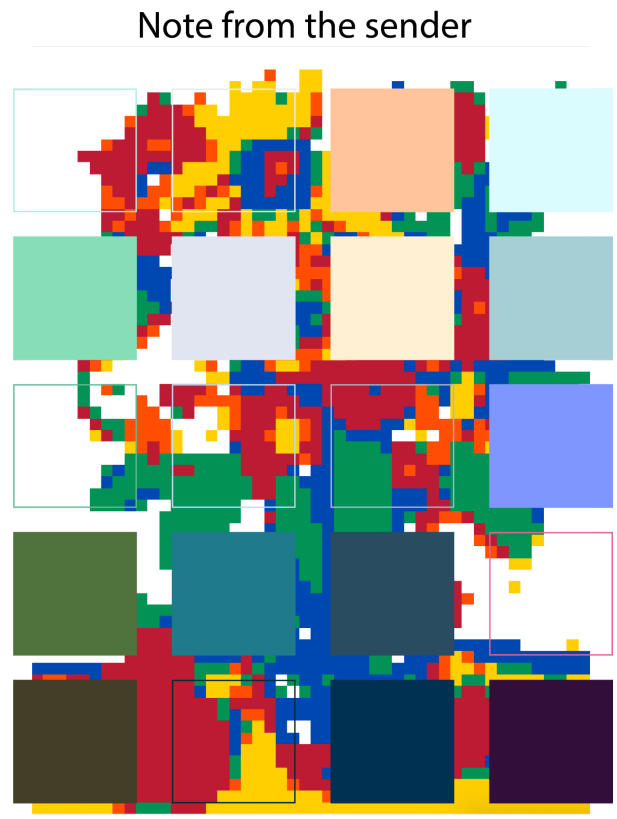
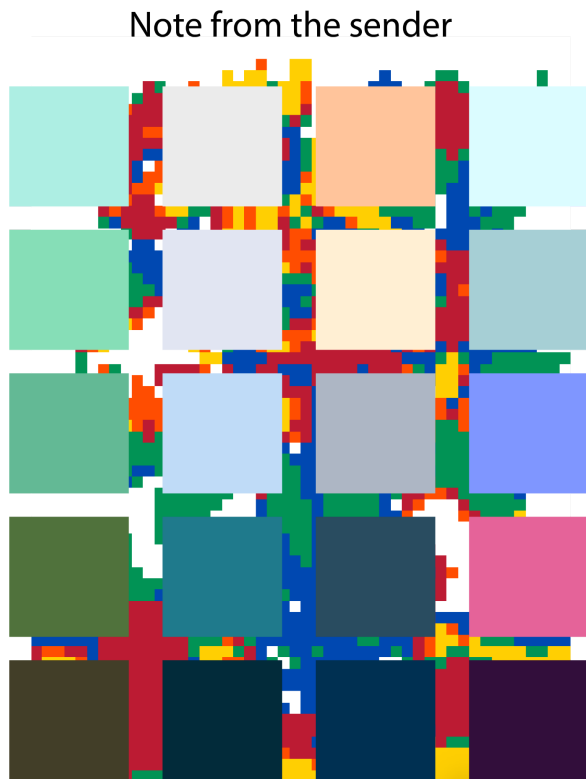
With Spotify

Username:

Password:

**Login page:** Both the creator and the receiver would need to login to Spotify to either create/receive the playlist gift.

Receiver's grid of all songs (receiverGrid)



Receiver's song view (receiverSong):



Note from the sender: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua."

Creator's main page ([creatorAllPlaylist](#))

## All Playlists

Create new playlist



### Playlist\_1

Playlist\_1 notes



### Playlist\_2

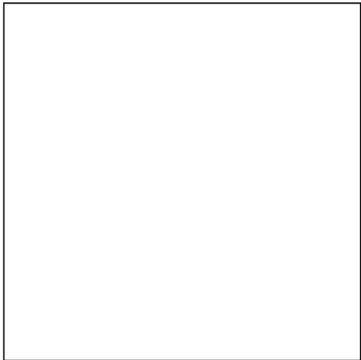
Playlist\_2 notes

Creator’s playlist page (creatorPlaylist)

All playlists

Current Playlist

Edit Playlist



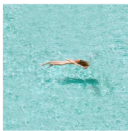
Playlist Name

Created by user - 14 songs, 2 hr 13 min

Add playlist note

Add hidden image

Songs



My Love - maye - My Love - 3:59

Edit X



Numb - Men I Trust - Numb - 3:39

Edit X



Tú - maye - Tú - 3:27

Edit X



Lauren - Men I Trust - Lauren - 3:38

Edit X



[Back to “playlist\\_name”](#)

## Edit Playlist “playlist\_name”

Search:

Search Results for songs with “Lana”:



Shades of Cool  
Lana Del Rey

Add song



West Coast  
Lana Del Rey

Add song



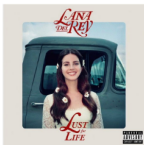
Cherry  
Lana Del Rey

Add song



Tulsa Jesus Freak  
Lana Del Rey

Add song



13 Beaches  
Lana Del Rey

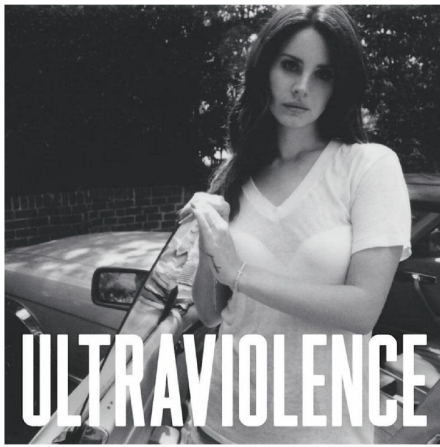
Add song

Creator's song page ([creatorEditSong](#))

[Back to "playlist\\_name"](#)

## Edit Song "song\_name"

From "playlist\_name"



## Shades of Cool Lana Del Rey

Edit Note