

SENG 2021 | Team Melli

Deliverable 1

Group Members:

Afia Hoque
Arsham Emad
Kasra Mahabadi

Varun Kashyap
Yuechen Gong

Project Overview

The aim of this project is to identify a range of issues that users face during their interactions with music apps such as Spotify, and build upon those problems to deliver an app that will address their needs and desires.

Part 1: Problem statement

Primary problems

- The lack of social networking available through shared tastes in music
- Inability to easily access music history.
- Unable to keep updates on followed artist (aka no notification when artist released new music unless you go to their page or check released tab which only updates weekly)
- Users have difficulty in finding new artists they may like.
- Difficulty discovering new music/ similar music to what they already downloaded or liked

Secondary problems

- Artist are uploading remix versions of previously released songs separately instead of linking it to existing songs
- When playing songs, their lyrics aren't displayed in-app. Only some songs offer some of the lyrics, and the rest shown relates to the development of the song.

Part 2: Identify and Describe User Stories

Feature: View music history

As a daily listener of music

So that I can find previously-played songs

I want to view my music history

Scenario: View the music you listen to through a music history

GIVEN I am on the 'Tune Talk' dashboard

WHEN I click on "Music History" tab

THEN I should be on a "Music History" page

WHEN I choose the option sort by "Sort by..."

THEN I should see a tab that says "Recently heard, Frequently heard, Released date, Popularity"

WHEN I filter by "Recently heard"

THEN I should see music list sorted accordingly

WHEN I select a music

THEN I should be redirected to the external link to play the music

Feature: Make posts on the forum

As a listener who enjoys analysing music

So that I can talk with other people about music

I want to make posts on the forum for everyone to see

Scenario: Makes a post on the forum

GIVEN I am on the 'Tune Talk' dashboard

WHEN I click on "Forums" tab

THEN I will be redirected to the "Forums" page

WHEN I open up a "Popular post"

THEN I should be taken to a discussion page which has title, author's post and comments

WHEN I click on "Write comments"

THEN a text input field should open up

WHEN I write my comments

AND click post

THEN I should see a refreshed page which shows my post in the discussion page

Feature: notifications for new releases

As a user of the 'Tune Talk'

So that I can be updated when my favourite artists release new music

I want to be notified when certain artists release an album/song

Scenario: Receive notifications when an artist I am following releases new music

GIVEN I am following an artist
WHEN They release new music
THEN I should receive a notification
WHEN I open/ click on the notification
THEN I should be redirected to a page with the new music
WHEN I click on play
THEN I should hear the music playing

Feature: Display lyrics of songs
As a user of 'Tune Talk'
So that I can learn the words to songs
I want to be shown the lyric of the song I am playing

GIVEN I am on the 'Tune Talk' dashboard
WHEN I select a song
THEN the song begins to play
WHEN I select the lyrics button as one of the "Now Playing" options
THEN I am presented with an automatically updated segment of the song's lyrics based on the part of the song currently playing

Feature: Be recommended similar songs by previously unheard artists
As a user of 'Tune Talk'
So that I can find new music to listen to
I want to be shown a list of songs by new artists I may like

Scenario: User is listening to a song and wants to find similar music
GIVEN I am listening to a song on 'Tune Talk'
WHEN I click 'Find more music' on the bottom tab
THEN a list of 10 new songs by similar artists is presented
WHEN I click on a song from that list
THEN The song begins to play

Feature: music player on the page of the song, including Spotify, Apple music hyper-link/mini-player(if available), and Youtube player for the song
Scenario:
WHEN you open the main page of a specific music
THEN the webpage generate a link to Spotify, and have a embed music player(by Youtube or Spotify)

Feature: add to favourite list,when you are at the webpage of a specific music, you can click 'add to favourite' to your personal list, and you can see how many people have added this song to the favourite.

Scenario: WHEN you open the main page of a specific music
THEN webpage will generate how many people "like" this song

Feature: website can create a personal "may like" list depends on the other people's favourite list(if they have high percentage of same song on the list, the rest song not included in my list will be recommended in the "may like" list)

Scenario:WHEN you open the personal "may like" list
THEN the webpage will generate a playlist that you have not heard, including about 20 songs, sorted by an inner score system.

Feature:Comment on songs,you can reply or 'likes' the comment, the comment can be sorted by 'likes' or time

Scenario:

WHEN you are at the page of specific music, click see comment button

THEN system will show the comments, default in "likes" order

WHEN you click the button of sort

THEN the comments will be switched between "likes" and "time" order

WHEN you click to send a new comment

THEN comment will be sent to the system

WHEN you click 'likes' on the button

THEN the likes counter for the comment will +1, and the button turns to 'cancel likes'

WHEN you click 'cancel likes' on the button

THEN the likes counter for the comment will -1, and the button turns to 'likes'

WHEN you click 'reply' to the comment

THEN it will auto generate "reply @xxx on the add comment box"

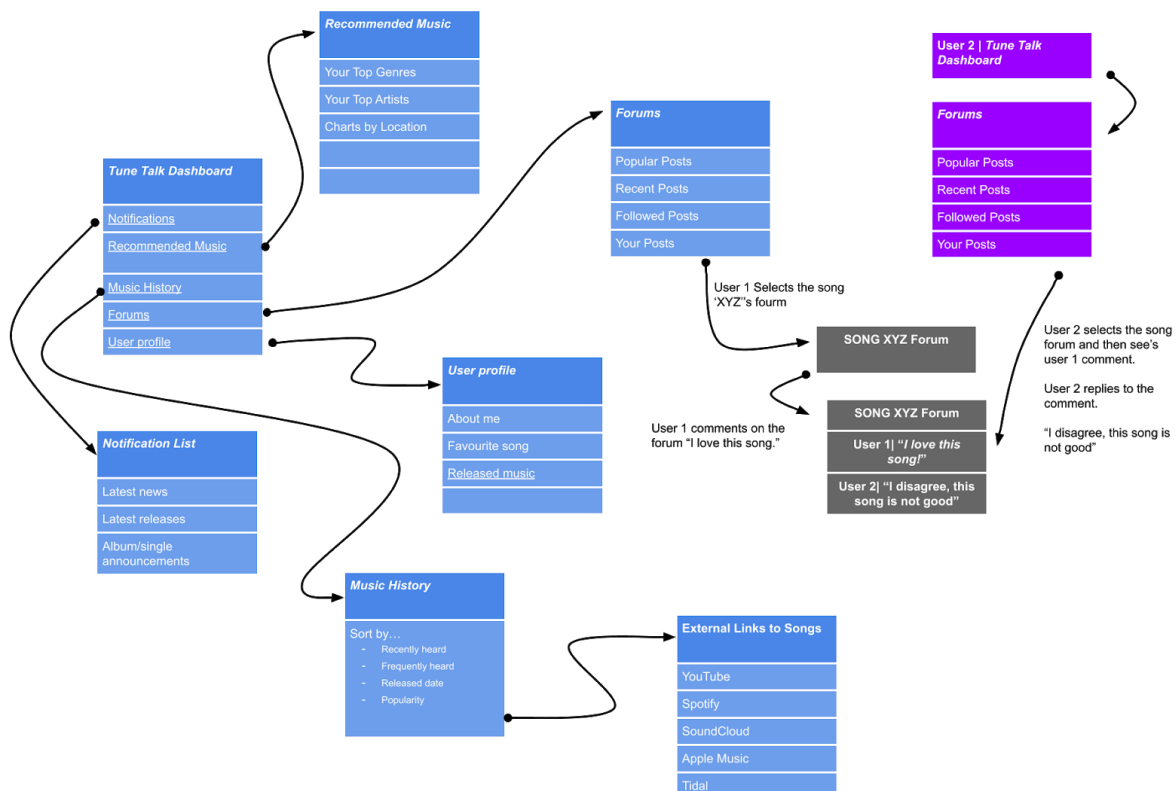
Part 3. Low-Fidelity Prototype

Storyboard Interactions + UI Component Sketches

The diagram below represents the high level user journey of an individual having the convenience of reflecting, sharing and discussing their passion for music. The diagram also outlines how one user would interact with another through the forums feature.

Thus 'Tune Talks' is a platform that will allow users to reflect their music taste through their **own user profile**, **create new discoveries through recommended music**, **keep track of their favourite tunes and artists**, **discuss their burning thoughts in the forums** and **connect with other users**.

Whenever a user will select music on the website, a request will be made to the API to gather the data.



Full drawing available in

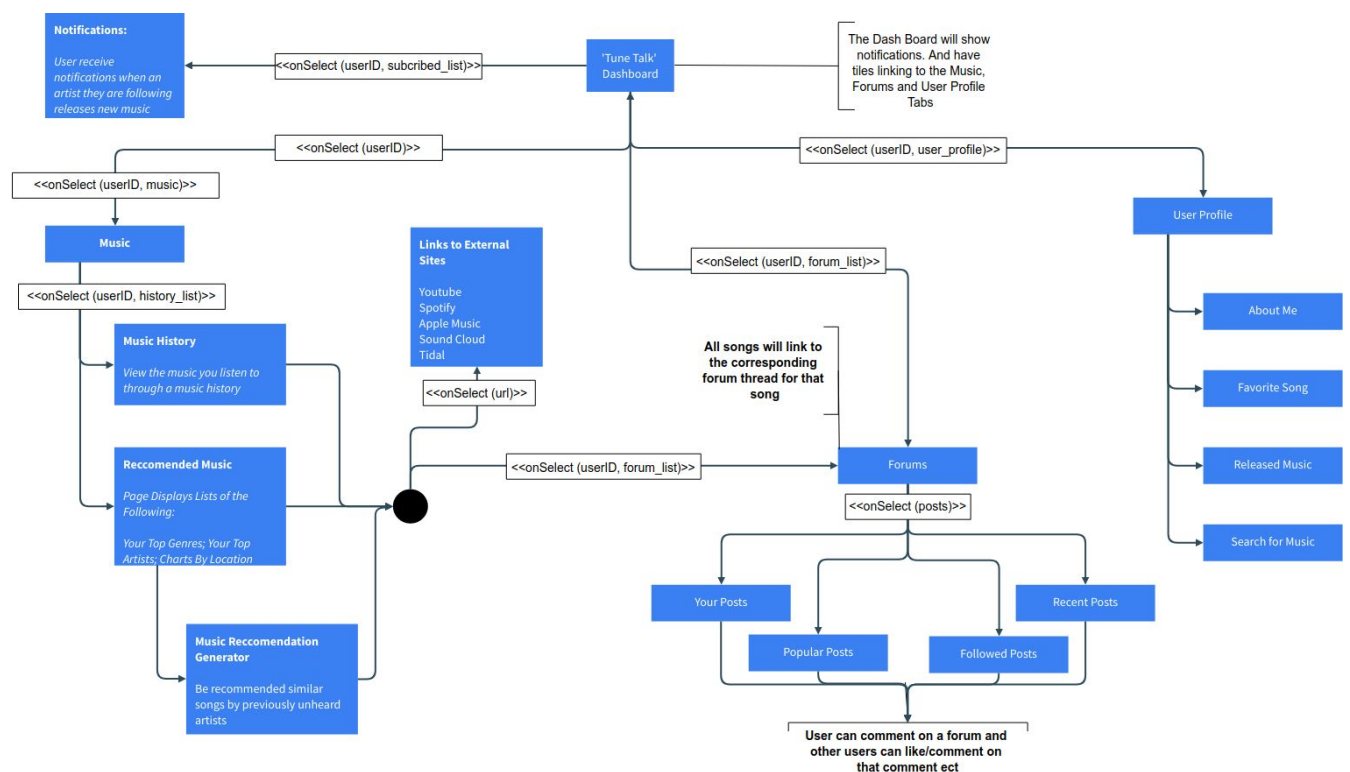
<https://docs.google.com/drawings/d/1A6PRmeY0Ziiq42JjDgL-NBxVXQ2CuFo-8nFu7nH7ICw/edit>

The diagram below represents the low level interaction of a user with the 'Tune Talks' platform. It is a site map which illustrates how the user would navigate through the site. As seen, '<<stereotypes>>' have been used to show what input and output the platform is taking when the user clicks through.

Please refer to the file "Low Fidelity - Low-Level Diagram.pdf" in the git repository for a higher definition image.

Key:

Each blue square represents a page/feature on the platform. The arrows indicate that the user must navigate through the previous blue square to access that feature/page.



The following are the diagrams for each of the pages that a user can be directed to from the dashboard. Please refer to the git repository in the Low Fidelity Prototype folder, titled Low Fidelity Feature_Diagrams.pdf for the full sized diagrams.

Recommended Music

[Your top genres](#)

Genre 1:
• Song 1
• Song 2
• Song 3

Genre 2:
• Song 1
• Song 2
• Song 3

Genre 1:
• Song 1
• Song 2
• Song 3

[Your top artists](#)

Artist 1:
• Song 1
• Song 2
• Song 3

Artist 2:
• Song 1
• Song 2
• Song 3

Artist 1:
• Song 1
• Song 2
• Song 3

User Profile

[About me \(editable\)](#)

Customisable bio about the user

[Released Music](#)

links to users own released music:
- link 1
- link 2
- link 3

[Top charts by location](#)

Global top 100:
- link to chart

US top 100:
- link to chart

Hot 100:
- link to chart

[Favourite Music](#)

Favourite Artist:
- artist name

Favourite Album:
- album name

Favourite Song:
- favourite song
- link to song

Music History

[Recently heard](#)

Today:

- Song 1
- Song 2
- Song 3
- Song 4
- Song 5
- Song 6

[Frequently heard](#)

Songs you've had on repeat

This week:
• Song 1
• Song 2
• Song 3

This month:
• Song 1
• Song 2
• Song 3

[Release date](#)

Your oldest songs:

- Song 1
- Song 2
- Song 3

Your newest songs:

- Song 1
- Song 2
- Song 3

[Popularity](#)

Your songs on the top 100:

- Song 1
- Song 2
- Song 3

Your most played songs all time:

- Song 1
- Song 2
- Song 3

Notifications

[Latest news](#)

Links to music news:
- [instagram](#)
- [link 1](#)
- [link 2](#)

[Latest releases](#)

Links to new released music:
- [link 1](#)
- [link 2](#)

Followed artists recent releases

[Music announcements](#)

Recent announcements:
- [link 1](#)
- [link 2](#)
- [link 3](#)

Your followed artists announcements

Forums

[Popular Posts](#)

[Example Forum Post 1](#)

text here

[Example Forum Post 2](#)

text here

[Recent Posts](#)

[Example Forum Post 1](#)

text here

[Example Forum Post 2](#)

text here

[Followed Posts](#)

[Example Forum Post 1](#)

text here

[Example Forum Post 2](#)

text here

[Your Posts](#)

[Example Forum Post 1](#)

text here

[Example Forum Post 1](#)

text here

Part 4. High-Fidelity Prototype



Full, interactive prototype available [here](#)