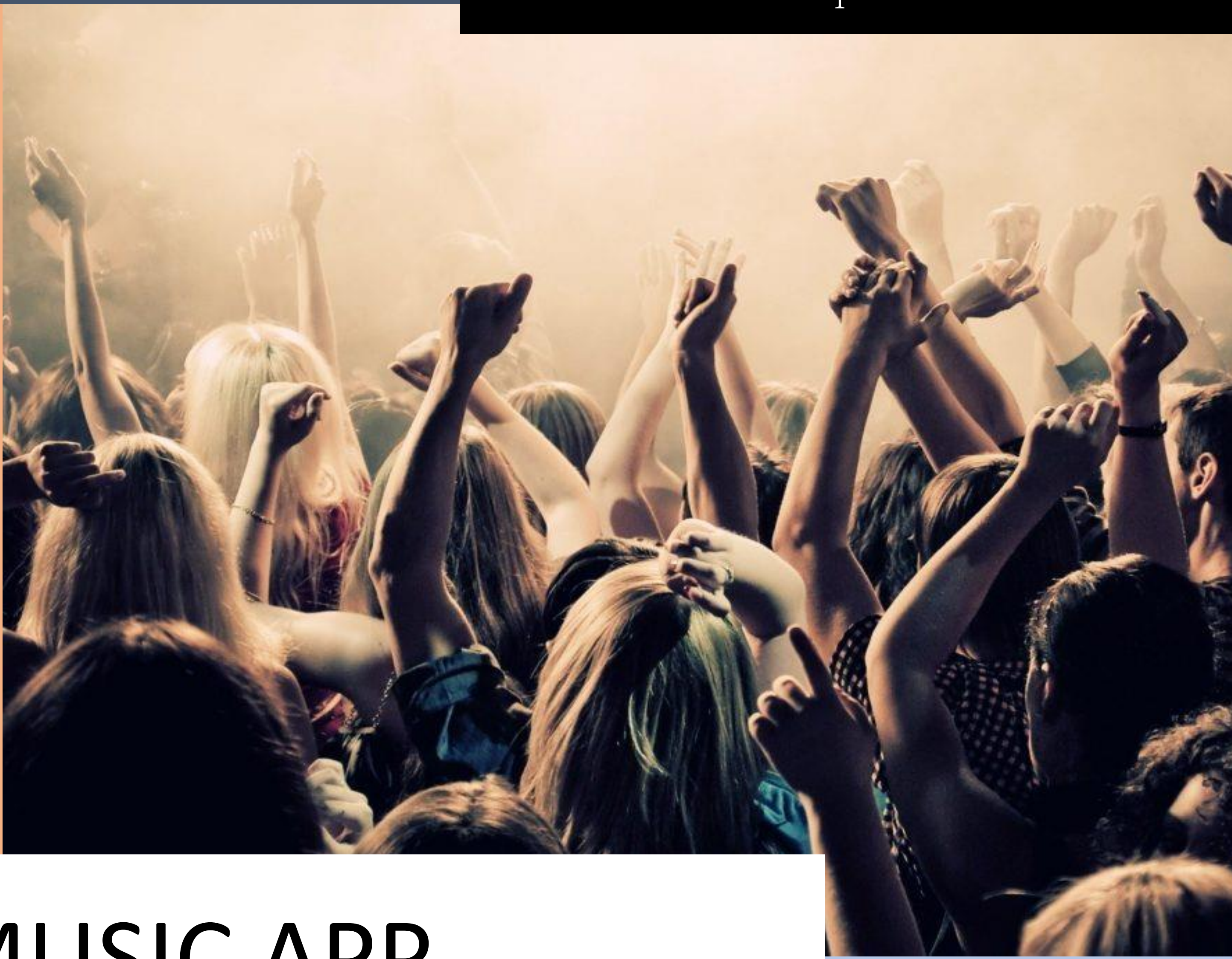
1^{st}



MUSIC APP

Name : Yonathan Cahyadi

Student Number : 10149953

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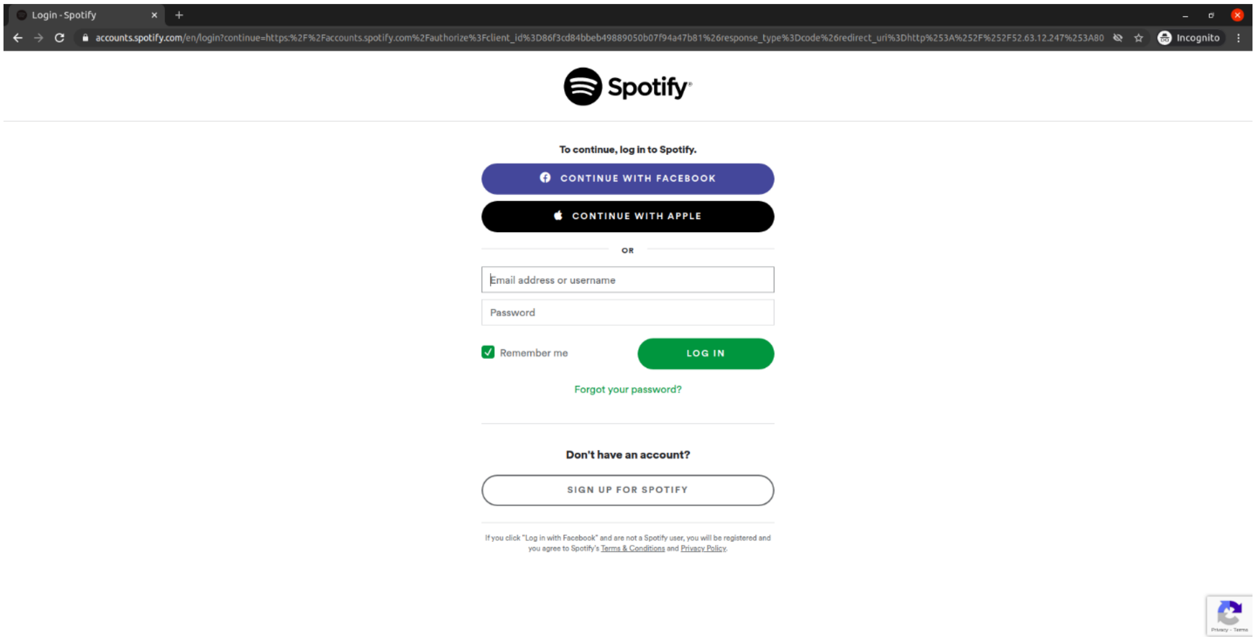
01


Login - Spotify
Incognito
Spotify
CONTINUE WITH FACEBOOK
CONTINUE WITH APPLE
OR
Email address or username
Password
☑ Remember me
LOG IN
Forgot your password?
SIGN UP FOR SPOTIFY
Privacy - Terms

accounts.spotify.com/en/login?continue=https:%2F%2Faccounts.spotify.com%2Fauthorize%3Fclient_id%3D86f3cd84bbeb49889050b07f94a47b81%26response_type%3Dcode%26redirect_uri%3Dhttp%253A%252F%252F52.63.12.247%253A80

To continue, log in to Spotify.

Don't have an account?

If you click "Log in with Facebook" and are not a Spotify user, you will be registered and you agree to Spotify's Terms & Conditions and Privacy Policy.

.... 21
02 21
03 22
04 22
05 23
06 23
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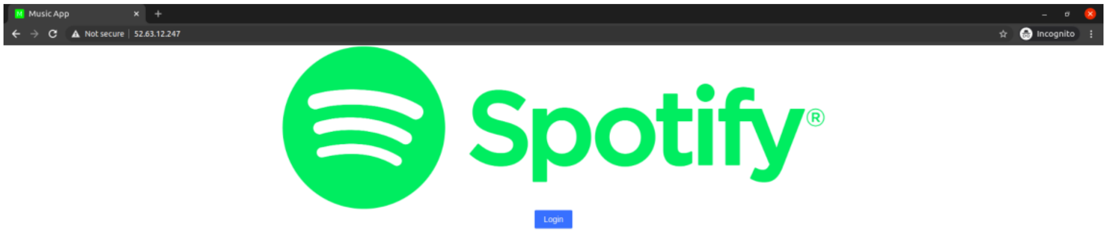
08 24
09 25
10 26
11 27

Introduction

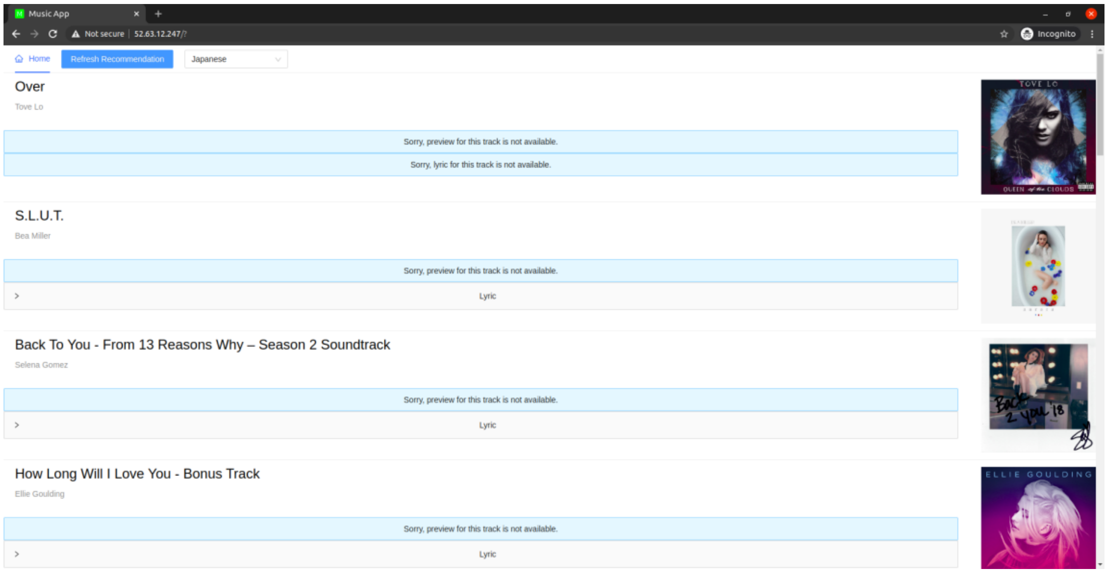
Mashup Purpose and Description

The purpose of this app is to give music enthusias recommended music of the day. This app also give the detailed information regarding the recommended music, the detail the app gives including: music title, artist name, preview music and the lyric of the music in 2 different languages.

The Login Page:


Music App
Not secure
52.63.12.247
Incognito
Spotify®
Login

The Home Page:


Music App
Not secure
52.63.12.247/?
Incognito
Home
Refresh Recommendation
Japanese

Over

Tove Lo

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

S.L.U.T.

Bea Miller

Sorry, preview for this track is not available.

> Lyric

Back To You - From 13 Reasons Why – Season 2 Soundtrack

Selena Gomez

Sorry, preview for this track is not available.

> Lyric

How Long Will I Love You - Bonus Track

Ellie Goulding

Sorry, preview for this track is not available.

> Lyric

Service Used

This is the list of service and API that has been used in this app.

Spotify API

Get user Authorization and recommended music.

- Authorization Endpoint: `https://accounts.spotify.com/authorize`
- Recommended Music Endpoint: `https://api.spotify.com/v1/recommendations`
- Authorization Docs: `https://developer.spotify.com/documentation/general/guides/authorization-guide/#authorization-flows`
- Recommended Music Docs: `https://developer.spotify.com/documentation/web-api/reference/browse/get-recommendations/`

Lyric.ovh API

Get the lyric of the recommended music.

- Lyric Endpoint: `https://api.lyrics.ovh/v1`
- Docs: `https://lyricsovh.docs.apiary.io/`

Google Cloud Text Translation API

Translate the music lyric into user c+hoise of language.

- Google Translate Endpoint: `https://translation.googleapis.com/language/translate/v2`
- Docs: `https://codelabs.developers.google.com/codelabs/cloud-translation-intro/index.html#0`

Mashup Use Case and Service

Get Recommended Music of The Day

As an	Music Enthusiast
I want	To get some good music recommendation
So that	I can have a good music to listen

Get Music Detailed Information

As an	Music Enthusiast
I want	To get Music detailed information

So that	I can know more of the music

Get Music Lyric

As an	Music Enthusiast
I want	To get Music lyric
So that	I can sing along with the music

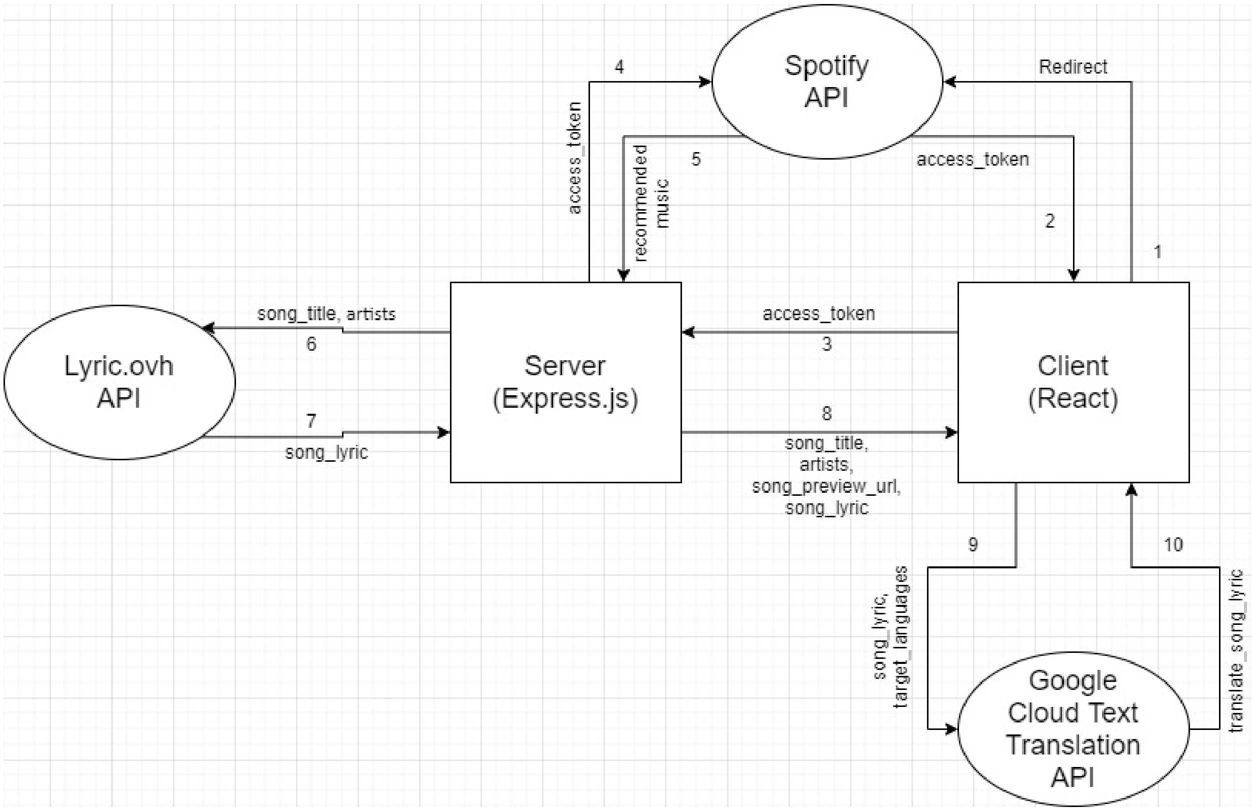
Get Music Lyric Translation

As an	Music Enthusiast
I want	To get Music lyric translation of my languages
So that	I know the meaning of the song

Technical Breakdown

The framework that I used for the server is Express.js and for the client, I use React. As for the API in this project I use 3 of them, which is Spotify, Lyric.ovh and Google Cloud Text Translation API. So for this project, I use Spotify to get the recommended song, after I receive the result from the Spotify I use those data to get the song lyric using the Lyric.ovh API and all of this data processing are been done in the server. After my server receives the lyric, my server will construct the data to be sent to the client. Those data include the song name, artists, song preview URL, and lyric. This data is sent to the client in JSON format. For the Client, it will handle the Spotify authorization so we can get access token required to get the recommended music. The client also handles the translation for the lyric using Google Cloud Text Translation API.

Architecture and Data Flow


Spotify API
Redirect
4
access_token
recommended music
5
access_token
2
1
song_title, artists
6
Lyric.ovh API
7
song_lyric
Server (Express.js)
access_token
3
Client (React)
8
song_title, artists, song_preview_url, song_lyric
9
10
song_lyric, target_languages
Google Cloud Text Translation API
translate_song_lyric

Deployment and the use of Docker

I use Docker for making the images for both my client and server. My Dockerfile for server contains the instruction to make an image using node:erbium as the base images and copy the server code into the working directory of the container, also do ‘npm install’ to install all the needed dependency inside the container and expose the port 443. While my Dockerfile for the Client contains the instruction to make an image using node:erbium as the base images and copy the client code into the working directory of the container, also do ‘npm install’ to install all the needed dependency inside the container, it also specifies the environment variable inside the container for which is needed for the client, the Dockerfile also expose port 3000. I also use docker-compose for building the images and pushing the created images to the Docker hub, unfortunately, I cannot use docker-compose to pull the images from the repository. My docker-compose file contains information needed for the docker to build the images and push the images to the docker hub. Such information includes the Dockerfile directory for both client and server, the tag of the images and port that needed to be exposed for both client and server. For more information there would be an image of docker-compose file and Dokerfile of both the client and server in the appendix A.

Test Plan

Task	**Expected Outcome**	**Result**	**Screenshot/s (Appendix B)**
Login button clicked	Redirect to Spotify Authorization/Login Page	PASS	01
Authorization Success	Go to the Home page of the app, user get a loading page, while the client waiting for the data form the server	PASS	02
User arrive at Home Page	User get some music recommendation with, Song title, artist name, song preview, lyric in english and Bahasa Indonesia (default). User also see some option in the header of the page, such options are refresh the recommendation, and languages option for translated lyric by default it set to Bahasa Indonesia.	PASS	03
Click on Lyric Dropdown	Show both original lyric and translate lyric	PASS	04
Handle no song preview	The user get informed that the song did not have any song preview	PASS	05
Handle no song lyric	The user get informed that the song did not have any lyric.	PASS	06
Handle Lyric Translation	The user can see the translated lyric beside the original lyric	PASS	07
Click on song title	Open a spotify page regarding the music	PASS	08
Change the languages for the translated lyric	The user will see that lyric is being processes it will show the user a loading animation. After it finish processing it will change the old translated lyric with the new translated lyric (using user choice of language).	PASS	09

Authorization Failed	The user get redirected back to the Login Page	PASS	10
Error in handling user access token	The user get Error Page with button to go back to the Login page	PASS	11

Difficulities / Unresolved & Persistent Error

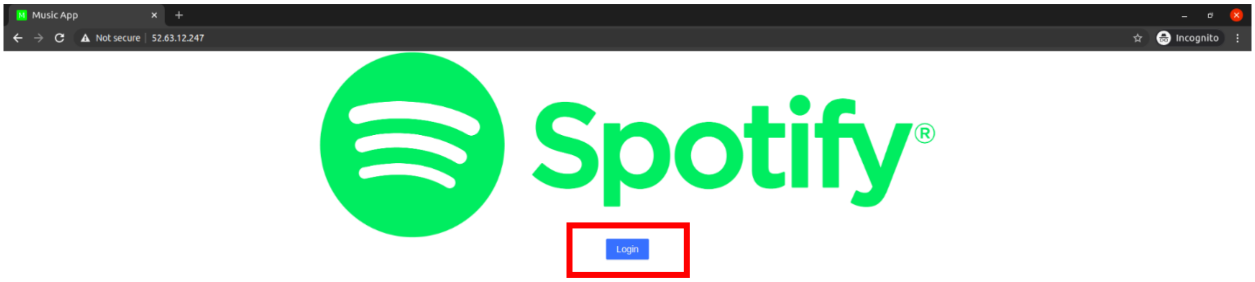
Some difficulties that I encouter when making this project is, dealing with Spotify Authorization Endpoint. At first I make user authorization form the server side, but after some understanding of how spotify API work I change the authorization process to the client side. Therefore when my client query my server I only need to pass the access token. When in before I need to pass around the access token back and forth between my client and server. Another difficulties that I encounter isu sing Google Cloud Text Translation API, their API documentation is confusing because of the variation of service they offer, but I manage to solve it. There is also some slight problem with my client side, because I use some library for the design of my app the library is pretty out dated. Therefore it give some warning when used, but it was not really a problem.

Extension

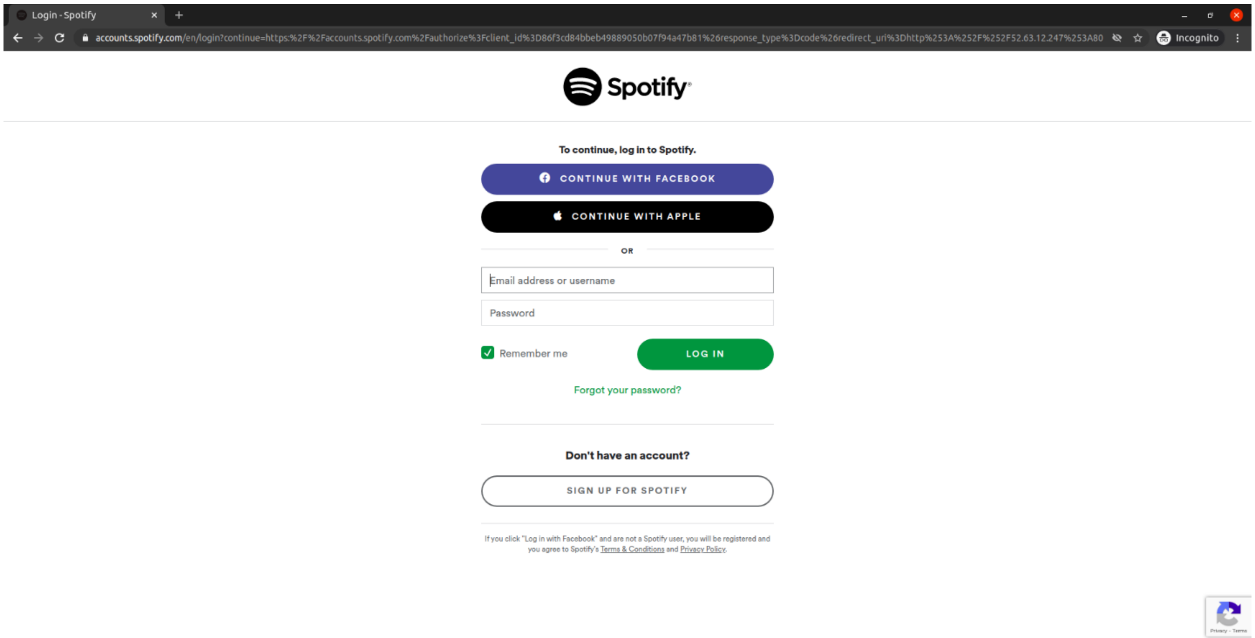
I'm thinking of making an event timeline of the artist past and future event. I also considering implementing Google Cloud Text Analysis API, maybe using this API and the music lyric I can give the music a tag like “Sad Music”, “Happy Music”, etc.

User Guide

Click the Login Button:



It will open a Spotify Login page, where you can log in using your spotify account

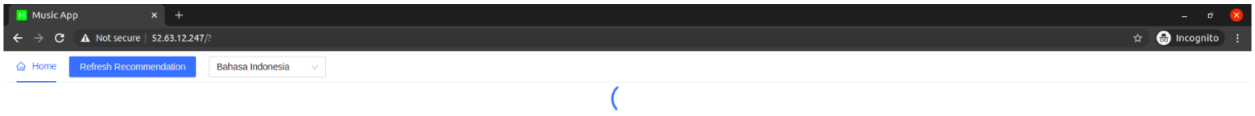

Login - Spotify
accounts.spotify.com/en/login?continue=https:%2F%2Faccounts.spotify.com%2Fauthorize%3Fclient_id%3D86f3cd84bbeb49889050b07f94a47b81%26response_type%3Dcode%26redirect_uri%3Dhttp%253A%252F%252F52.63.12.247%253A80
Incognito
Spotify
CONTINUE WITH FACEBOOK
CONTINUE WITH APPLE
OR
Email address or username
Password
Remember me
LOG IN
Forgot your password?
SIGN UP FOR SPOTIFY

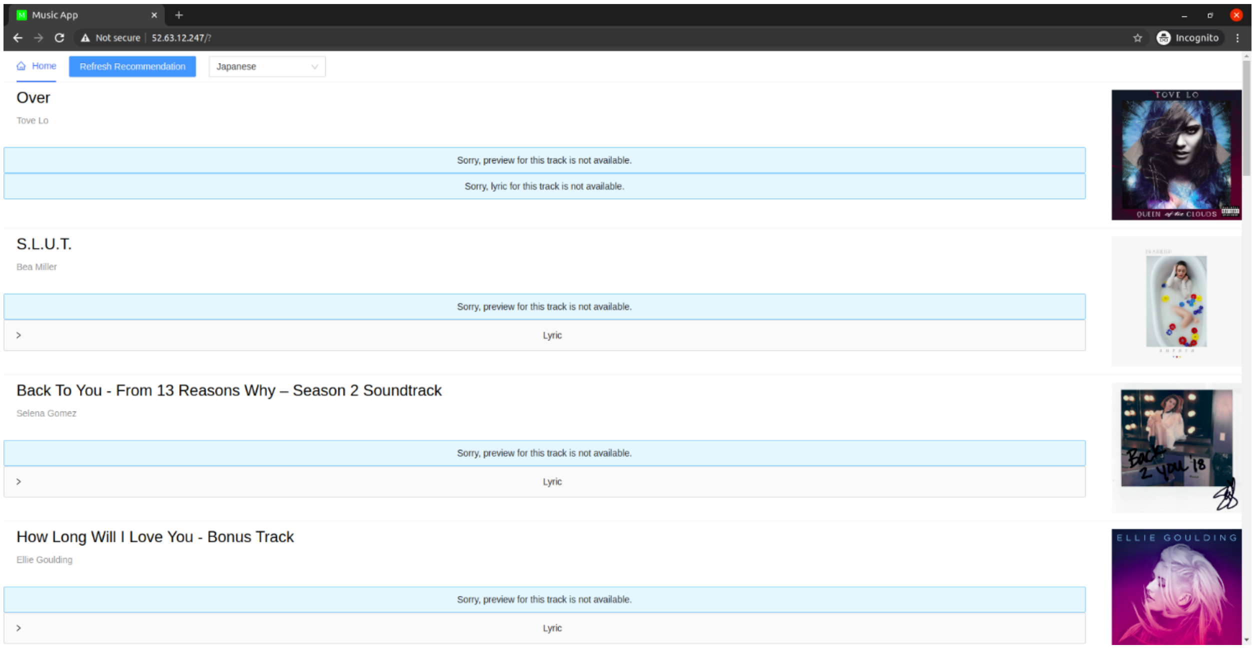
To continue, log in to Spotify.

Don't have an account?

If you click "Log in with Facebook" and are not a Spotify user, you will be registered and you agree to Spotify's Terms & Conditions and Privacy Policy.

If the authorization success, it will redirect you to the Home page of the app, in there you can see some music recommended by Spotify.


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Bahasa Indonesia


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Japanese

Over

Tove Lo

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

S.L.U.T.

Bea Miller

Sorry, preview for this track is not available.

Lyric

Back To You - From 13 Reasons Why – Season 2 Soundtrack

Selena Gomez

Sorry, preview for this track is not available.

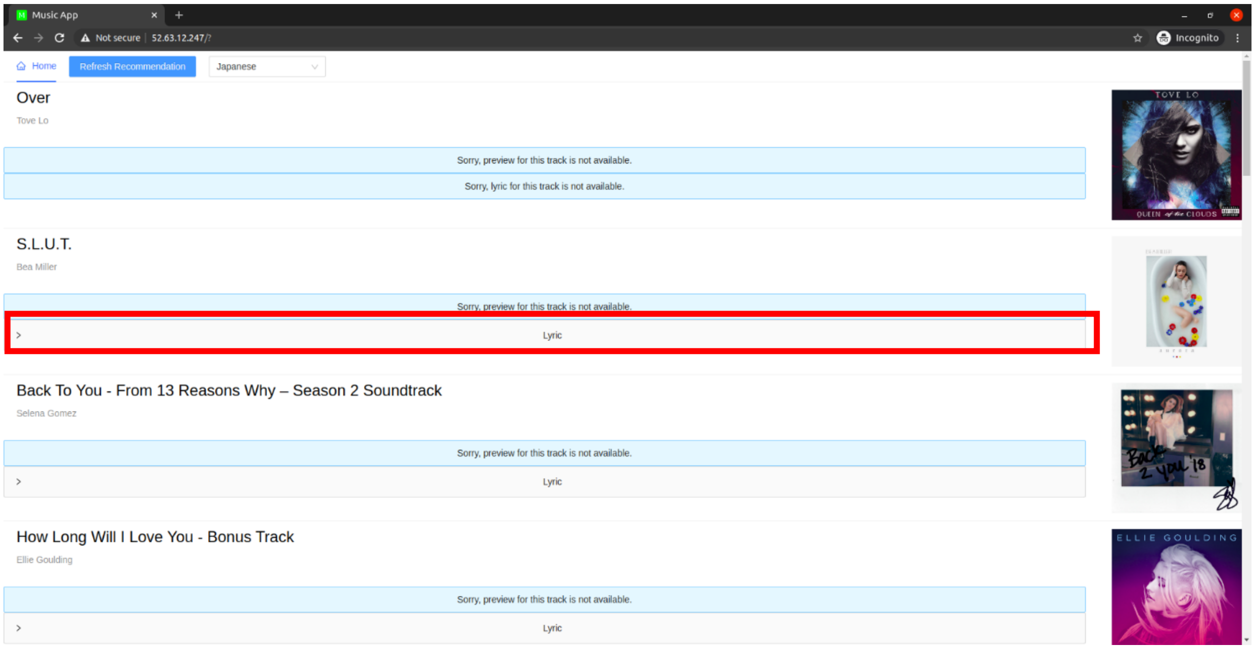
Lyric

How Long Will I Love You - Bonus Track

Ellie Goulding

Sorry, preview for this track is not available.

You can click the Lyric and it will give you the original music lyric and the translated music lyric.



Over

Tove Lo

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

S.L.U.T.

Bea Miller

Sorry, preview for this track is not available.

Lyric

Back To You - From 13 Reasons Why – Season 2 Soundtrack

Selena Gomez

Sorry, preview for this track is not available.

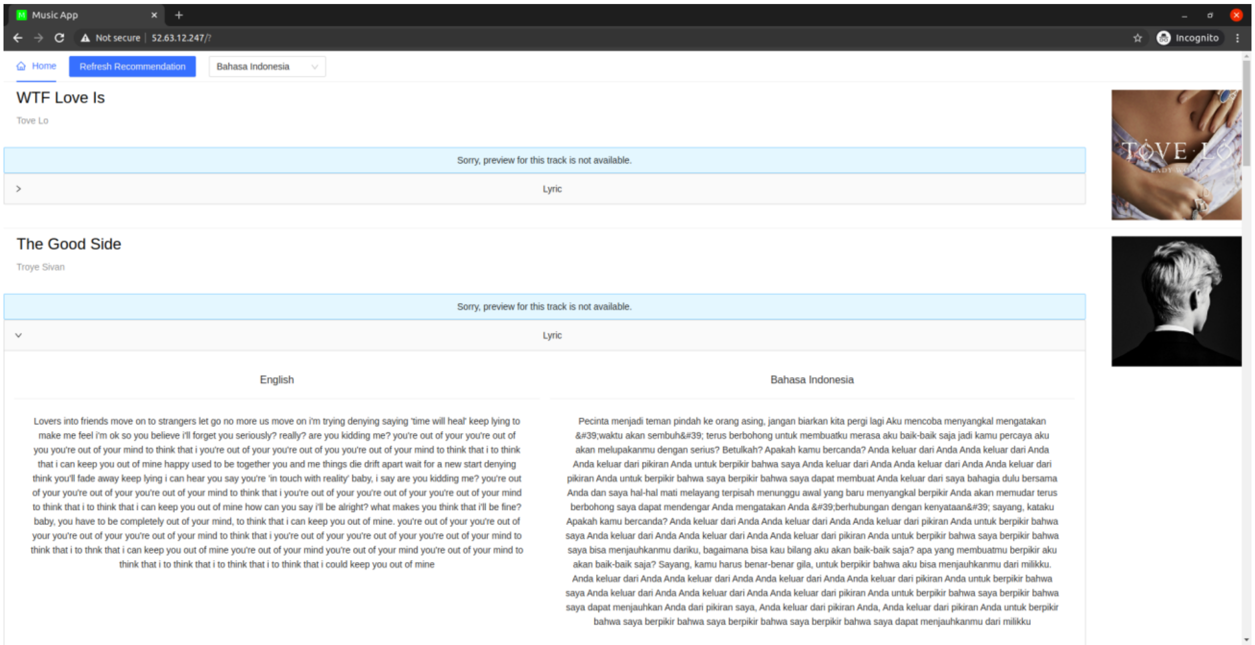
Lyric

How Long Will I Love You - Bonus Track

Ellie Goulding

Sorry, preview for this track is not available.

Lyric



WTF Love Is

Tove Lo

Sorry, preview for this track is not available.

Lyric

The Good Side

Troye Sivan

Sorry, preview for this track is not available.

Lyric

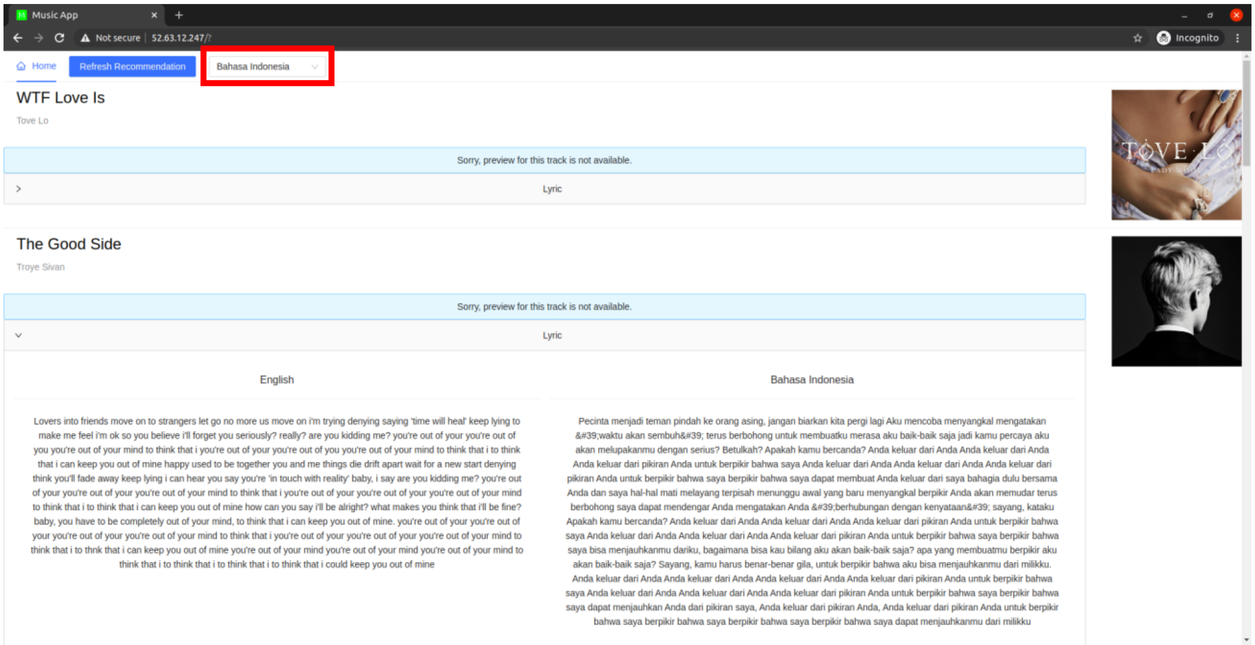
English

Lovers into friends move on to strangers let go no more us move on i'm trying denying saying 'time will heal' keep lying to make me feel i'm ok so you believe i'll forget you seriously? really? are you kidding me? you're out of your you're out of you you're out of your mind to think that i you're out of your you're out of you you're out of your mind to think that i to think that i can keep you out of mine happy used to be together you and me things die drift apart wait for a new start denying think you'll fade away keep lying i can hear you say you're 'in touch with reality' baby, i say are you kidding me? you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to think that i can keep you out of mine how can you say i'll be alright? what makes you think that i'll be fine? baby, you have to be completely out of your mind, to think that i can keep you out of mine. you're out of your you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to thnk that i can keep you out of mine you're out of your mind you're out of your mind you're out of your mind to think that i to think that i to think that i to think that i could keep you out of mine

Bahasa Indonesia

Pecinta menjadi teman pindah ke orang asing, jangan biarkan kita pergi lagi Aku mencoba menyangkal mengatakan &#39;waktu akan sembuh&#39; terus berbohong untuk membuatku merasa aku baik-baik saja jadi kamu percaya aku akan melupakanmu dengan serius? Betulkah? Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat membuat Anda keluar dari saya bahagia dulu bersama Anda dan saya hal-hal mati melayang terpisah menunggu awal yang baru menyangkal berpikir Anda akan memudar terus berbohong saya dapat mendengar Anda mengatakan Anda &#39;berhubungan dengan kenyataan&#39; sayang, kataku Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya bisa menjauhkanmu dariku, bagaimana bisa kau bilang aku akan baik-baik saja? apa yang membuatmu berpikir aku akan baik-baik saja? Sayang, kamu harus benar-benar gila, untuk berpikir bahwa aku bisa menjauhkanmu dari milikku. Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat menjauhkan Anda dari pikiran saya, Anda keluar dari pikiran Anda, Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya dapat menjauhkanmu dari milikku

You can also change the translated lyric using the button on the top of the page


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Bahasa Indonesia
WTF Love Is
Tove Lo
Lyric
The Good Side
Troye Sivan
Lyric
English
Bahasa Indonesia

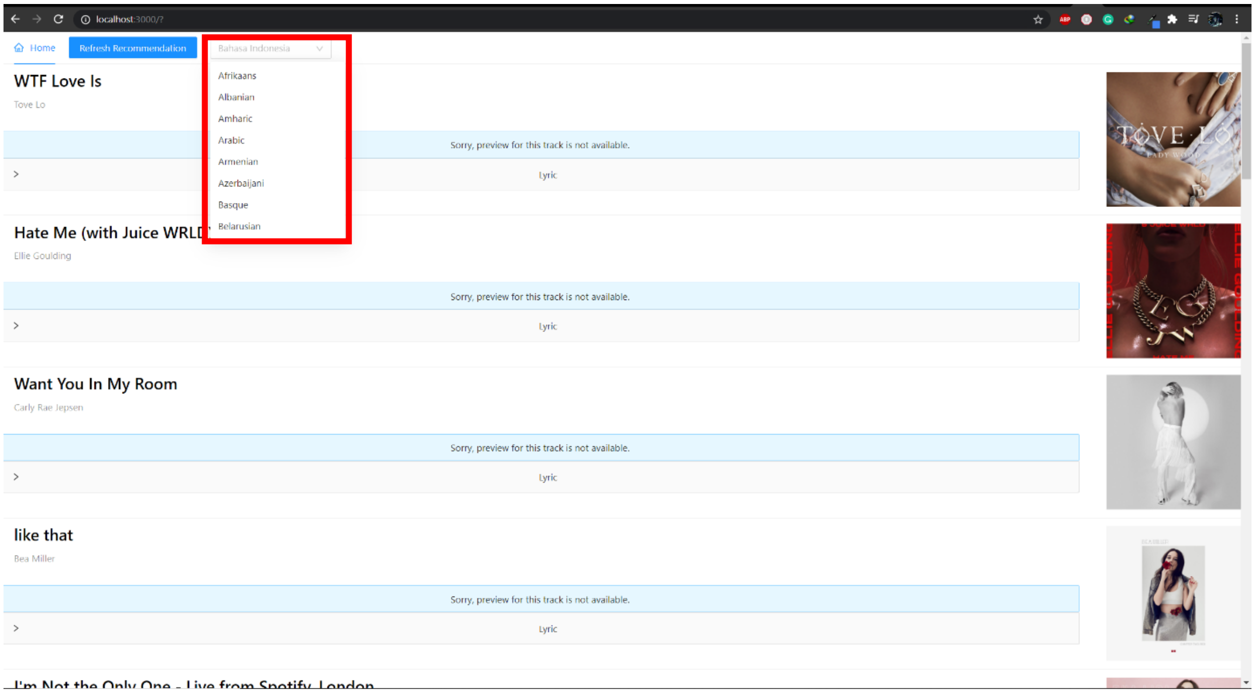
Sorry, preview for this track is not available.

Sorry, preview for this track is not available.

Lovers into friends move on to strangers let go no more us move on i'm trying denying saying 'time will heal' keep lying to make me feel i'm ok so you believe i'll forget you seriously? really? are you kidding me? you're out of your you're out of you you're out of your mind to think that i you're out of your you're out of you you're out of your mind to think that i to think that i can keep you out of mine happy used to be together you and me things die drift apart wait for a new start denying think you'll fade away keep lying i can hear you say you're 'in touch with reality' baby, i say are you kidding me? you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to think that i can keep you out of mine how can you say i'll be alright? what makes you think that i'll be fine? baby, you have to be completely out of your mind, to think that i can keep you out of mine. you're out of your you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to thnk that i can keep you out of mine you're out of your mind you're out of your mind you're out of your mind to think that i to think that i to think that i to think that i could keep you out of mine

Pecinta menjadi teman pindah ke orang asing, jangan biarkan kita pergi lagi Aku mencoba menyangkal mengatakan &#39;waktu akan sembuh&#39; terus berbohong untuk membuatku merasa aku baik-baik saja jadi kamu percaya aku akan melupakanmu dengan serius? Betulkah? Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat membuat Anda keluar dari saya bahagia dulu bersama Anda dan saya hal-hal mati melayang terpisah menunggu awal yang baru menyangkal berpikir Anda akan memudar terus berbohong saya dapat mendengar Anda mengatakan Anda &#39;berhubungan dengan kenyataan&#39; sayang, kataku Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya bisa menjauhkanmu dariku, bagaimana bisa kau bilang aku akan baik-baik saja? apa yang membuatmu berpikir aku akan baik-baik saja? Sayang, kamu harus benar-benar gila, untuk berpikir bahwa aku bisa menjauhkanmu dari milikku. Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat menjauhkan Anda dari pikiran saya, Anda keluar dari pikiran Anda, Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya dapat menjauhkanmu dari milikku

It will give you choice of languages


localhost:3000/?
Home
Refresh Recommendation
Bahasa Indonesia
Afrikaans
Albanian
Amharic
Arabic
Armenian
Azerbaijani
Basque
Belarusian
WTF Love Is
Tove Lo
Lyric
Hate Me (with Juice WRLD
Ellie Goulding
Lyric
Want You In My Room
Carly Rae Jepsen
Lyric
like that
Bea Miller
Lyric
I'm Not the Only One - Live from Spotify London

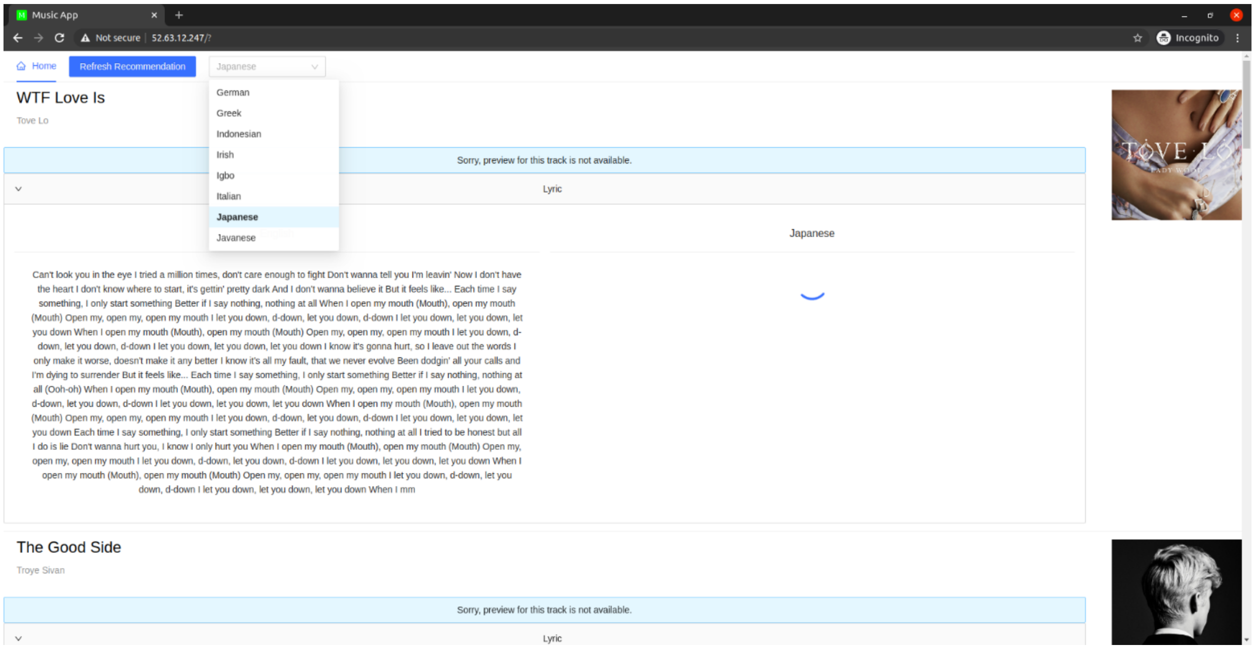
Sorry, preview for this track is not available.

Sorry, preview for this track is not available.

Sorry, preview for this track is not available.

Sorry, preview for this track is not available.

After you choose your choice of language it will change the translated lyric into the languages of your choice. (for this example I choose Japanese).



WTF Love Is

Tove Lo

Sorry, preview for this track is not available.

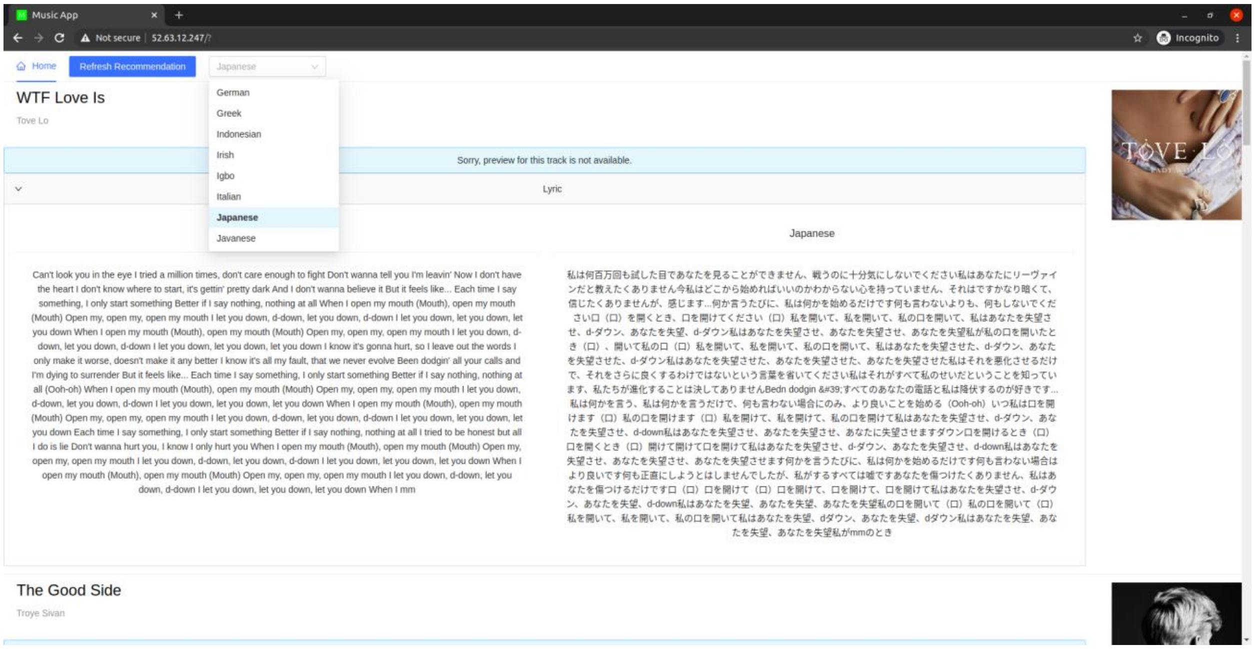
Can't look you in the eye I tried a million times, don't care enough to fight Don't wanna tell you I'm leavin' Now I don't have the heart I don't know where to start, it's gettin' pretty dark And I don't wanna believe it But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down I know it's gonna hurt, so I leave out the words I only make it worse, doesn't make it any better I know it's all my fault, that we never evolve Been dodgin' all your calls and I'm dying to surrender But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all (Ooh-oh) When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down Each time I say something, I only start something Better if I say nothing, nothing at all I tried to be honest but all I do is lie Don't wanna hurt you, I know I only hurt you When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I mm

The Good Side

Troye Sivan

Sorry, preview for this track is not available.

Lyric



WTF Love Is

Tove Lo

Sorry, preview for this track is not available.

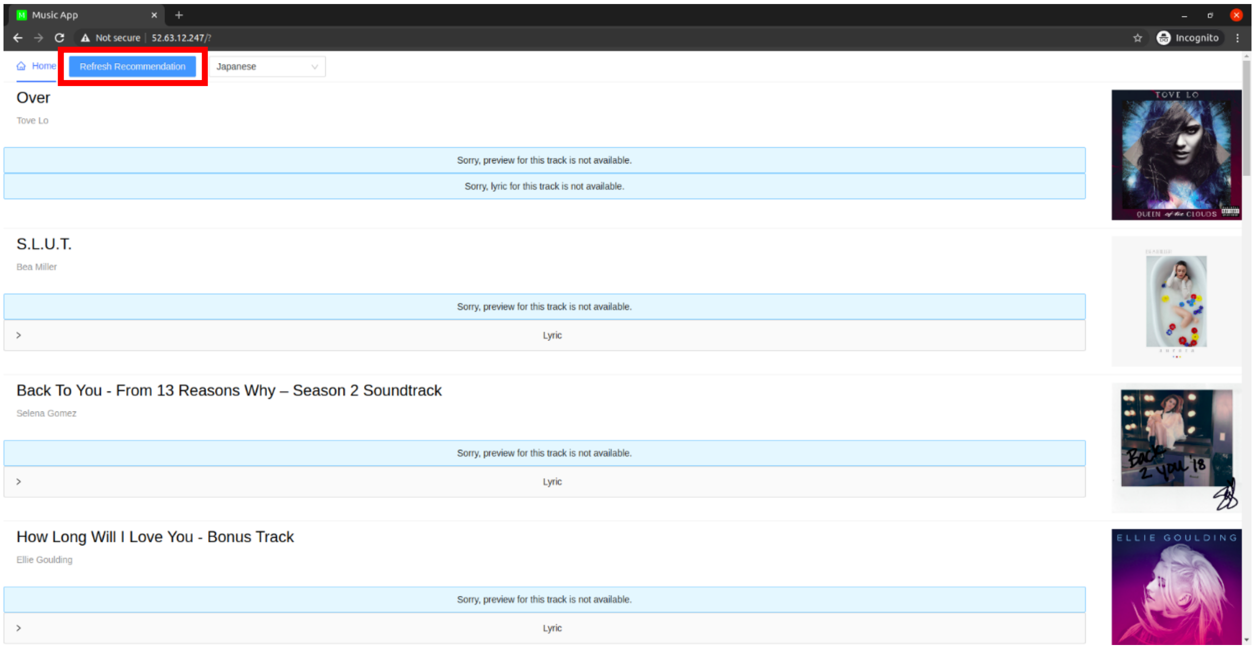
Can't look you in the eye I tried a million times, don't care enough to fight Don't wanna tell you I'm leavin' Now I don't have the heart I don't know where to start, it's gettin' pretty dark And I don't wanna believe it But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down I know it's gonna hurt, so I leave out the words I only make it worse, doesn't make it any better I know it's all my fault, that we never evolve Been dodgin' all your calls and I'm dying to surrender But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all (Ooh-oh) When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down Each time I say something, I only start something Better if I say nothing, nothing at all I tried to be honest but all I do is lie Don't wanna hurt you, I know I only hurt you When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I mm

私は何百万回も試した目であなたを見ることができません、戦うのに十分気にしないでください私はあなたにリーヴァインだと教えたくありません今私はどこから始めればいいのかわからない心を持っていません、それはですかなり暗くて、信じたくありませんが、感じます...何か言うたびに、私は何かを始めるだけです何も言わないよりも、何もしないでください口（口）を開くとき、口を開けてください（口）私を開いて、私を開いて、私の口を開いて、私はあなたを失望させ、d-ダウン、あなたを失望、d-ダウン私はあなたを失望させ、あなたを失望させ、あなたを失望私が私の口を開いたとき（口）、開いて私の口（口）私を開いて、私を開いて、私の口を開いて、私はあなたを失望させた、d-ダウン、あなたを失望させた、d-ダウン私はあなたを失望させた、あなたを失望させた、あなたを失望させた私はそれを悪化させるだけで、それをさらに良くするわけではないという言葉を省いてください私はそれがすべて私のせいだということを知っています、私たちが進化することは決してありませんBedn dodgin &#39;すべてのあなたの電話と私は降伏するのが好きです...私は何かを言う、私は何かを言うだけで、何も言わない場合にのみ、より良いことを始める（Ooh-oh）いつ私は口を開けます（口）私の口を開けます（口）私を開けて、私を開けて、私の口を開けて私はあなたを失望させ、d-ダウン、あなたを失望させ、d-down私はあなたを失望させ、あなたを失望させ、あなたに失望させますダウン口を開けるとき（口）口を開くとき（口）開けて開けて口を開けて私はあなたを失望させ、d-ダウン、あなたを失望させ、d-down私はあなたを失望させ、あなたを失望させ、あなたを失望させます何かを言うたびに、私は何かを始めるだけです何も言わない場合はより良いです何も正直にしようとはしませんでしたが、私がするすべては嘘ですあなたを傷つけたくありません、私はあなたを傷つけるだけです口（口）口を開けて（口）口を開けて、口を開けて、口を開けて私はあなたを失望させ、d-ダウン、あなたを失望、d-down私はあなたを失望、あなたを失望、あなたを失望私の口を開いて（口）私の口を開いて（口）私を開いて、私を開いて、私の口を開いて私はあなたを失望、dダウン、あなたを失望、dダウン私はあなたを失望、あなたを失望、あなたを失望私がmmのとき

The Good Side

Troye Sivan

If you want to get a new music recommendation you must use the Refresh Recommendation Button located at the top, next to the language selection dropdown box. If you just reload the page it will not change anything, because the page infomation is being stored in session storage.


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Japanese
Lyric
Lyric
Lyric

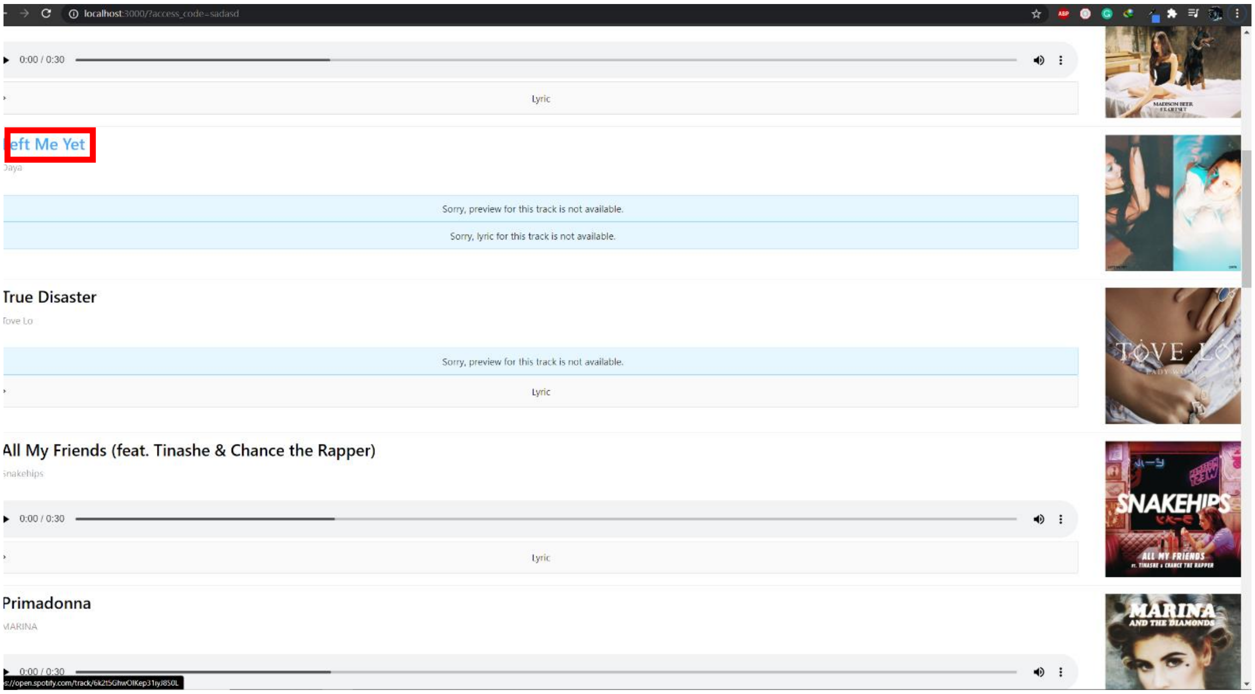
Over
Tove Lo
Sorry, preview for this track is not available.
Sorry, lyric for this track is not available.

S.L.U.T.
Bea Miller
Sorry, preview for this track is not available.

Back To You - From 13 Reasons Why – Season 2 Soundtrack
Selena Gomez
Sorry, preview for this track is not available.

How Long Will I Love You - Bonus Track
Ellie Goulding
Sorry, preview for this track is not available.

You also can see song detail by clicking the song title. It will bring you to Spotify

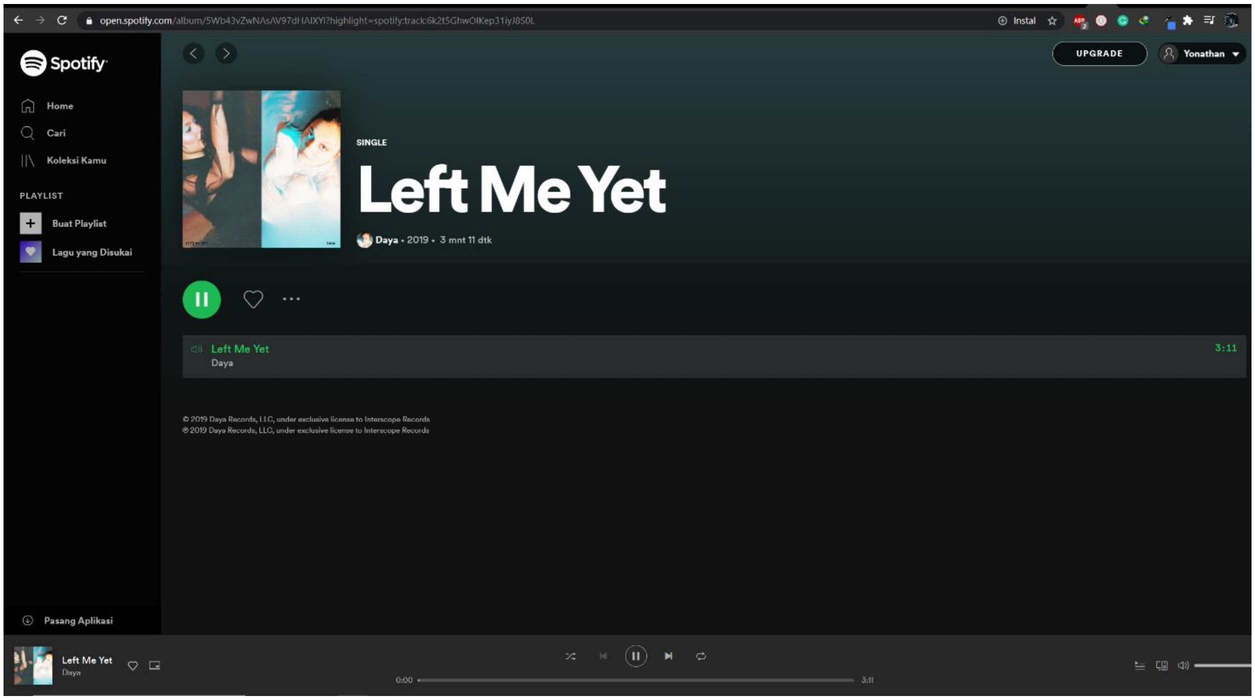

localhost:3000/?access_code=sadasd
0:00 / 0:30
Lyric
Lyric
0:00 / 0:30
Lyric
0:00 / 0:30
s://open.spotify.com/track/6k2t5GhwOIKep31iyJ850L

eft Me Yet
aya
Sorry, preview for this track is not available.
Sorry, lyric for this track is not available.

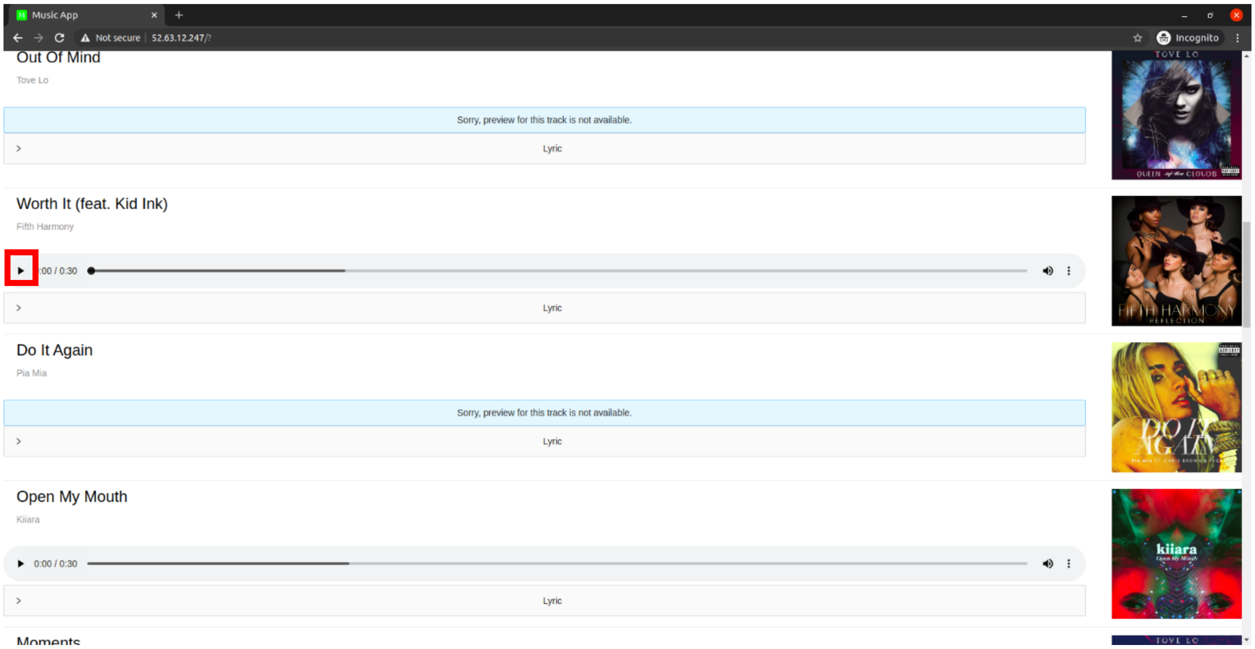
True Disaster
ove Lo
Sorry, preview for this track is not available.

All My Friends (feat. Tinashe & Chance the Rapper)
nakehips

Primadonna
ARINA


open.spotify.com/album/5Wb43vZwNAsAV97dHAlXYi?highlight=spotify:track:6k2t5GhwOlKep31iyJ8S0L
Instal
Spotify
Home
Cari
Koleksi Kamu
PLAYLIST
Buat Playlist
Lagu yang Disukai
Pasang Aplikasi
UPGRADE
Yonathan
SINGLE
Left Me Yet
Daya • 2019 • 3 mnt 11 dtk
Left Me Yet
Daya
3:11
© 2019 Daya Records, LLC, under exclusive license to Interscope Records
℗ 2019 Daya Records, LLC, under exclusive license to Interscope Records
Left Me Yet
Daya
0:00
3:11

You also can hear the song preview by clicking play on the media player.


Music App
Not secure | 52.63.12.247/?
Incognito
Out Of Mind
Tove Lo
Sorry, preview for this track is not available.
Lyric
Worth It (feat. Kid Ink)
Fifth Harmony
0:00 / 0:30
Lyric
Do It Again
Pia Mia
Sorry, preview for this track is not available.
Lyric
Open My Mouth
Kiiara
0:00 / 0:30
Lyric
Moments

Statement on Assignment Demo

For this assignment, I intended to make a video for the Demo.

The Demo video can be found here:

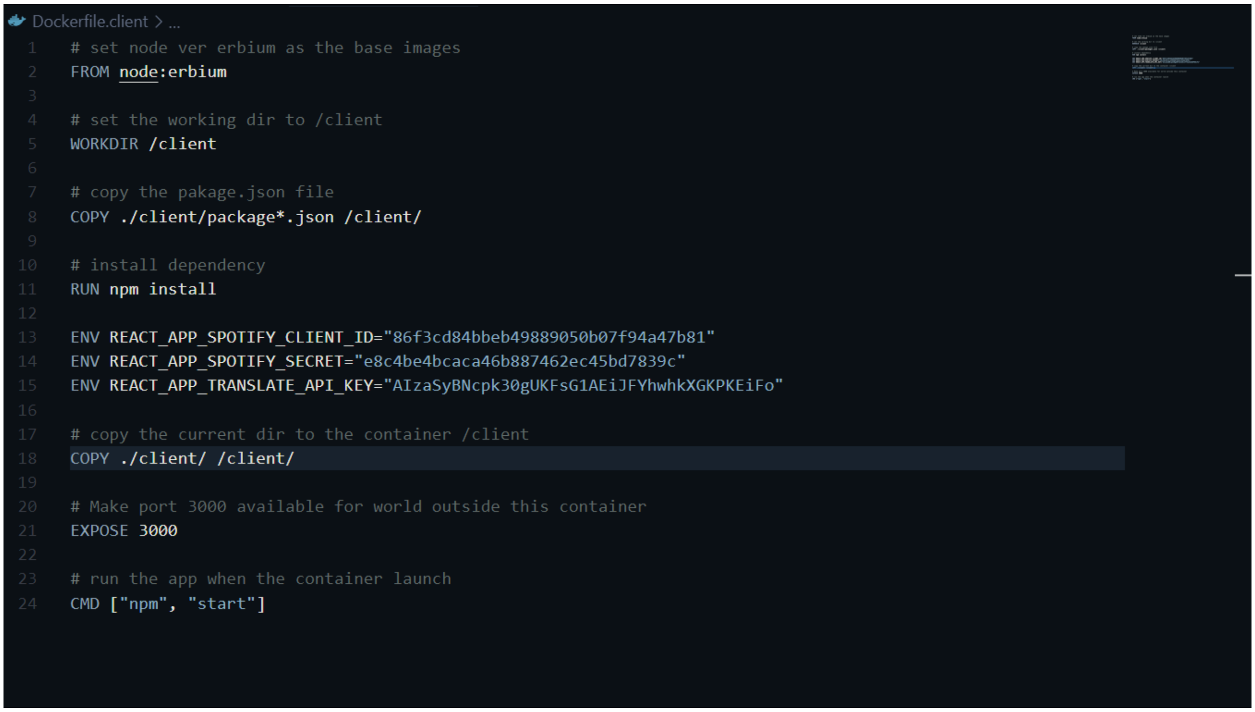
For more higher resolution:

Appendices

Appendix A

Dockerfile for Client

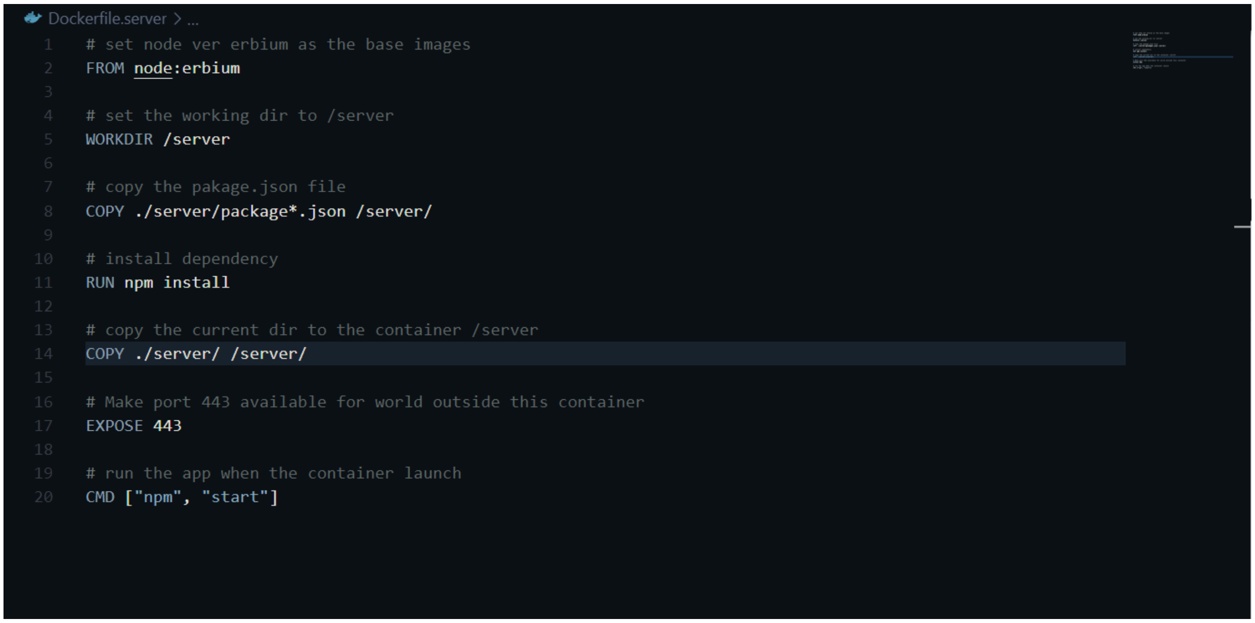
Dockerfile.client



```
# set node ver erbium as the base images
FROM node:erbium

# set the working dir to /client
WORKDIR /client

# copy the pakage.json file
COPY ./client/package*.json /client/

# install dependency
RUN npm install

ENV REACT_APP_SPOTIFY_CLIENT_ID="86f3cd84bbeb49889050b07f94a47b81"
ENV REACT_APP_SPOTIFY_SECRET="e8c4be4bcaca46b887462ec45bd7839c"
ENV REACT_APP_TRANSLATE_API_KEY="AIzaSyBNcpk30gUKFsG1AEiJFYhwhkXGKPKEiFo"

# copy the current dir to the container /client
COPY ./client/ /client/

# Make port 3000 available for world outside this container
EXPOSE 3000

# run the app when the container launch
CMD ["npm", "start"]
```

Dockerfile for Server

Dockerfile.server

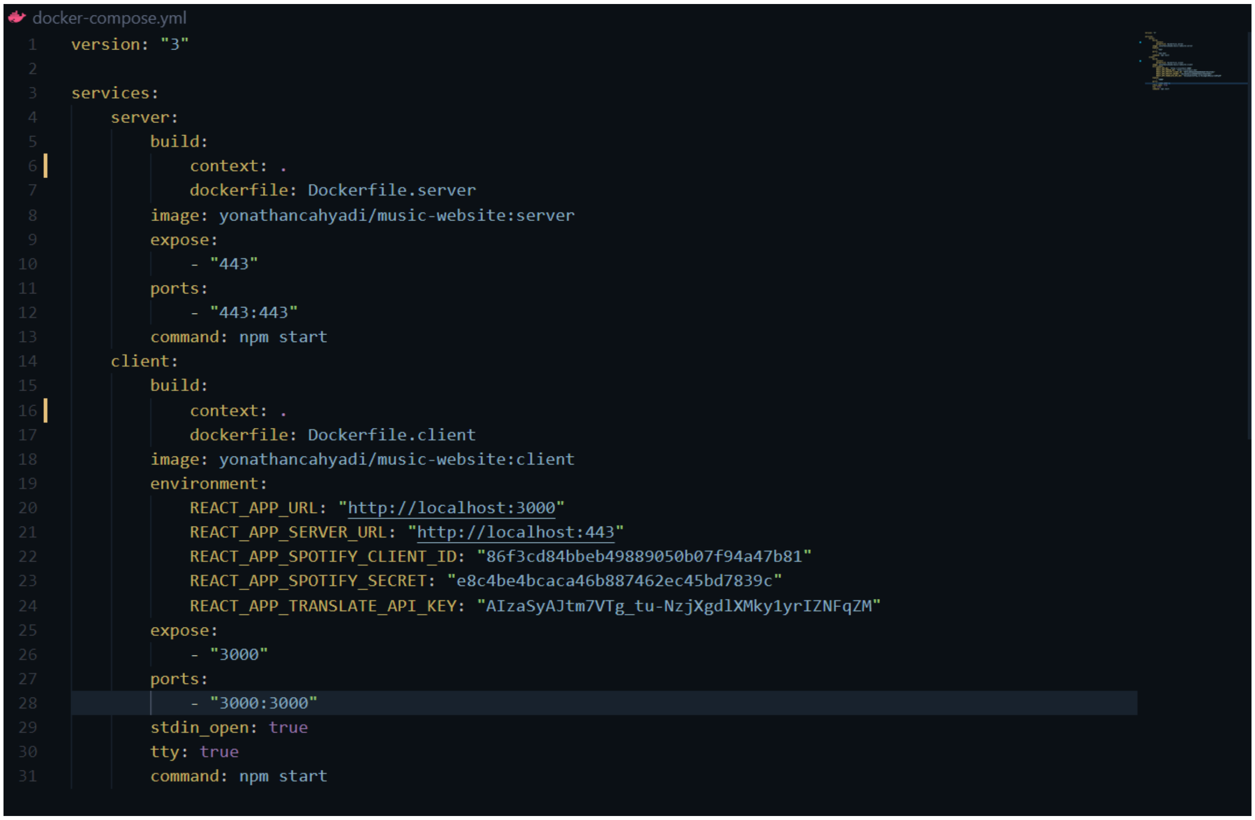


Dockerfile.server > ...

```
# set node ver erbium as the base images
FROM node:erbium

# set the working dir to /server
WORKDIR /server

# copy the pakage.json file
COPY ./server/package*.json /server/

# install dependency
RUN npm install

# copy the current dir to the container /server
COPY ./server/ /server/

# Make port 443 available for world outside this container
EXPOSE 443

# run the app when the container launch
CMD ["npm", "start"]
```

Docker-compose

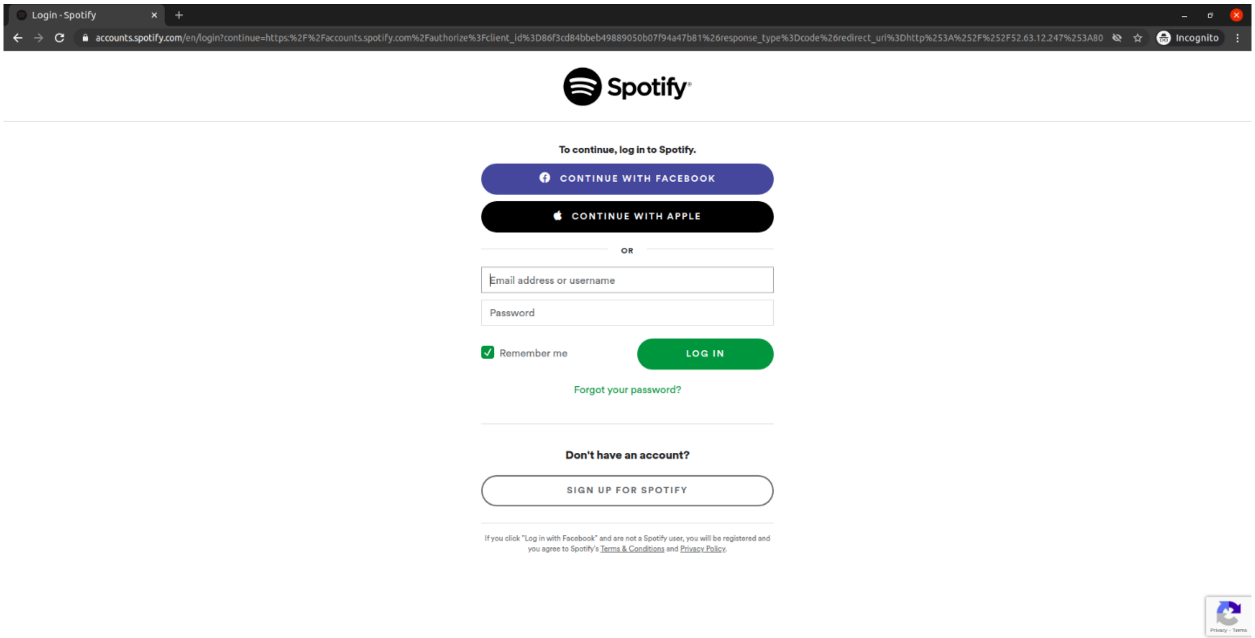
docker-compose.yaml



```yaml
version: "3"

services:
    server:
        build:
            context: .
            dockerfile: Dockerfile.server
        image: yonathancahyadi/music-website:server
        expose:
            - "443"
        ports:
            - "443:443"
        command: npm start
    client:
        build:
            context: .
            dockerfile: Dockerfile.client
        image: yonathancahyadi/music-website:client
        environment:
            REACT_APP_URL: "http://localhost:3000"
            REACT_APP_SERVER_URL: "http://localhost:443"
            REACT_APP_SPOTIFY_CLIENT_ID: "86f3cd84bbeb49889050b07f94a47b81"
            REACT_APP_SPOTIFY_SECRET: "e8c4be4bcaca46b887462ec45bd7839c"
            REACT_APP_TRANSLATE_API_KEY: "AIzaSyAJtm7VTg_tu-NzjXgdlXMky1yrIZNFqZM"
        expose:
            - "3000"
        ports:
            - "3000:3000"
        stdin_open: true
        tty: true
        command: npm start
```

Appendix B

01

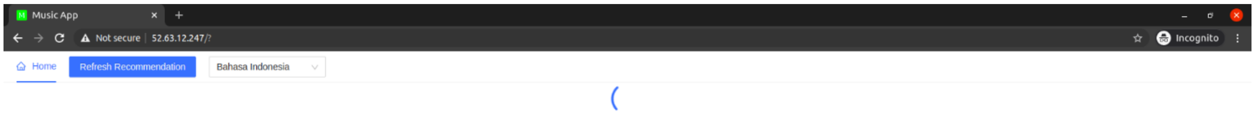

Login - Spotify
accounts.spotify.com/en/login?continue=https:%2F%2Faccounts.spotify.com%2Fauthorize%3Fclient_id%3D86f3cd84bbeb49889050b07f94a47b81%26response_type%3Dcode%26redirect_uri%3Dhttp%253A%252F%252F52.63.12.247%253A80
Incognito
Spotify
CONTINUE WITH FACEBOOK
CONTINUE WITH APPLE
OR
Email address or username
Password
Remember me
LOG IN
Forgot your password?
SIGN UP FOR SPOTIFY

To continue, log in to Spotify.

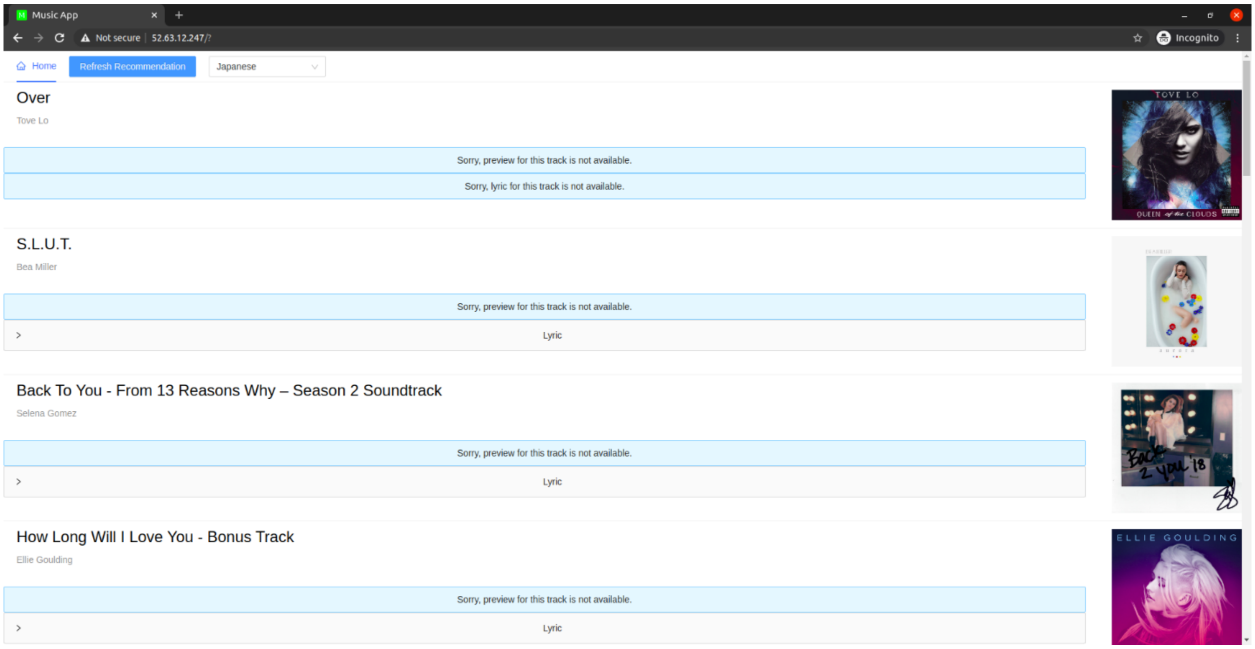
Don't have an account?

If you click "Log in with Facebook" and are not a Spotify user, you will be registered and you agree to Spotify's Terms & Conditions and Privacy Policy.

02


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Bahasa Indonesia

03



Japanese

Over

Tove Lo

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

S.L.U.T.

Bea Miller

Sorry, preview for this track is not available.

Lyric

Back To You - From 13 Reasons Why – Season 2 Soundtrack

Selena Gomez

Sorry, preview for this track is not available.

Lyric

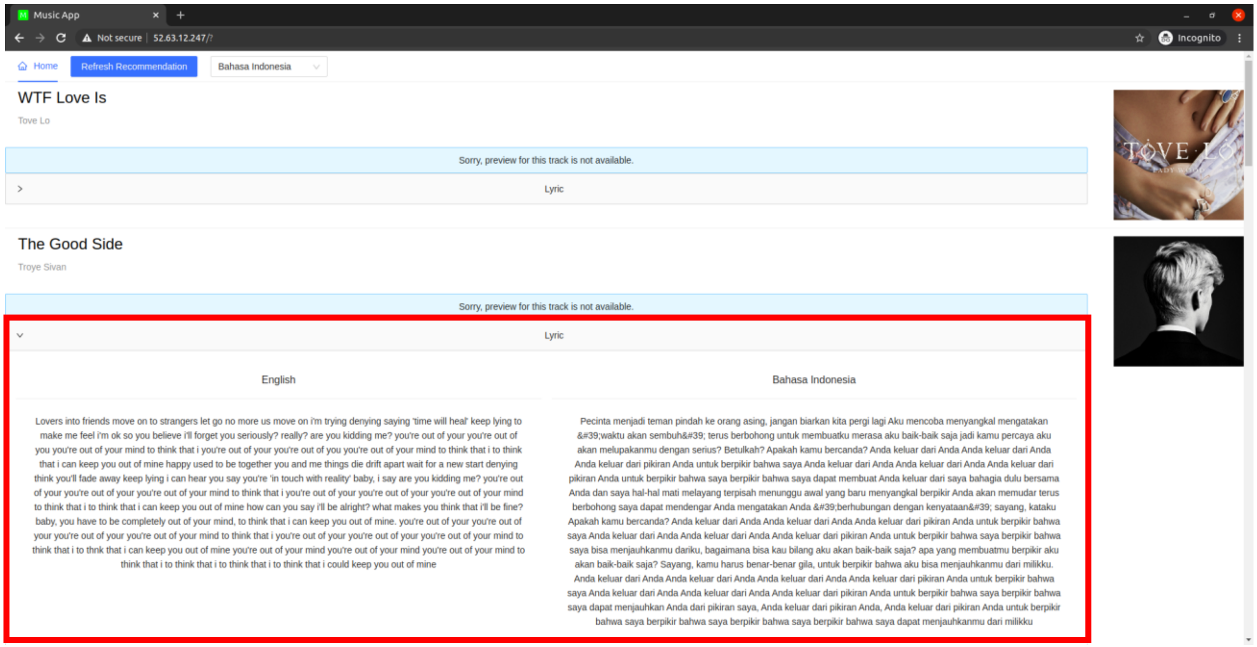
How Long Will I Love You - Bonus Track

Ellie Goulding

Sorry, preview for this track is not available.

Lyric

04



Bahasa Indonesia

WTF Love Is

Tove Lo

Sorry, preview for this track is not available.

Lyric

The Good Side

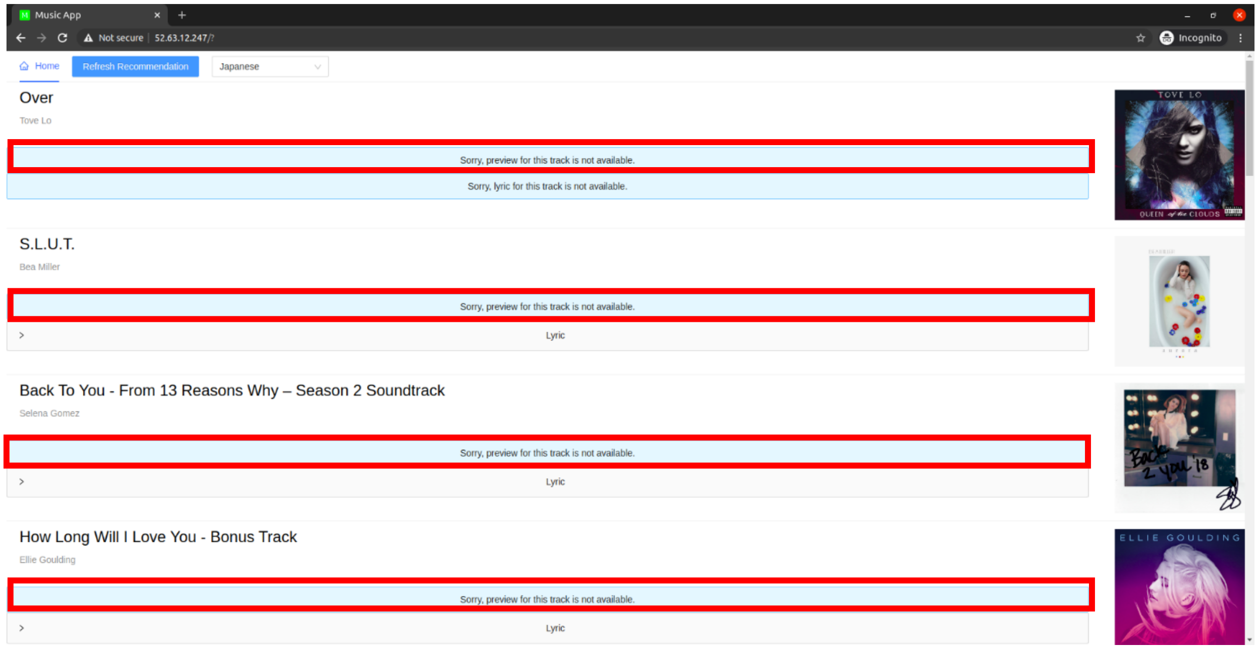
Troye Sivan

Sorry, preview for this track is not available.

Lyric

English	Bahasa Indonesia
Lovers into friends move on to strangers let go no more us move on i'm trying denying saying 'time will heal' keep lying to make me feel i'm ok so you believe i'll forget you seriously? really? are you kidding me? you're out of your you're out of you you're out of your mind to think that i you're out of your you're out of you you're out of your mind to think that i to think that i can keep you out of mine happy used to be together you and me things die drift apart wait for a new start denying think you'll fade away keep lying i can hear you say you're 'in touch with reality' baby, i say are you kidding me? you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to think that i can keep you out of mine how can you say i'll be alright? what makes you think that i'll be fine? baby, you have to be completely out of your mind, to think that i can keep you out of mine. you're out of your you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to thnk that i can keep you out of mine you're out of your mind you're out of your mind you're out of your mind to think that i to think that i to think that i to think that i could keep you out of mine	Pecinta menjadi teman pindah ke orang asing, jangan biarkan kita pergi lagi Aku mencoba menyangkal mengatakan &#39;waktu akan sembuh&#39; terus berbohong untuk membuatku merasa aku baik-baik saja jadi kamu percaya aku akan melupakanmu dengan serius? Betulkah? Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat membuat Anda keluar dari saya bahagia dulu bersama Anda dan saya hal-hal mati melayang terpisah menunggu awal yang baru menyangkal berpikir Anda akan memudar terus berbohong saya dapat mendengar Anda mengatakan Anda &#39;berhubungan dengan kenyataan&#39; sayang, kataku Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya bisa menjauhkanmu dariku, bagaimana bisa kau bilang aku akan baik-baik saja? apa yang membuatmu berpikir aku akan baik-baik saja? Sayang, kamu harus benar-benar gila, untuk berpikir bahwa aku bisa menjauhkanmu dari milikku. Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat menjauhkan Anda dari pikiran saya, Anda keluar dari pikiran Anda, Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya dapat menjauhkanmu dari milikku

05


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Japanese
TOVE LO
QUEEN of the CLOUDS
Back 2 you 18
ELLIE GOULDING

Over

Tove Lo

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

S.L.U.T.

Bea Miller

Sorry, preview for this track is not available.

Lyric

Back To You - From 13 Reasons Why – Season 2 Soundtrack

Selena Gomez

Sorry, preview for this track is not available.

Lyric

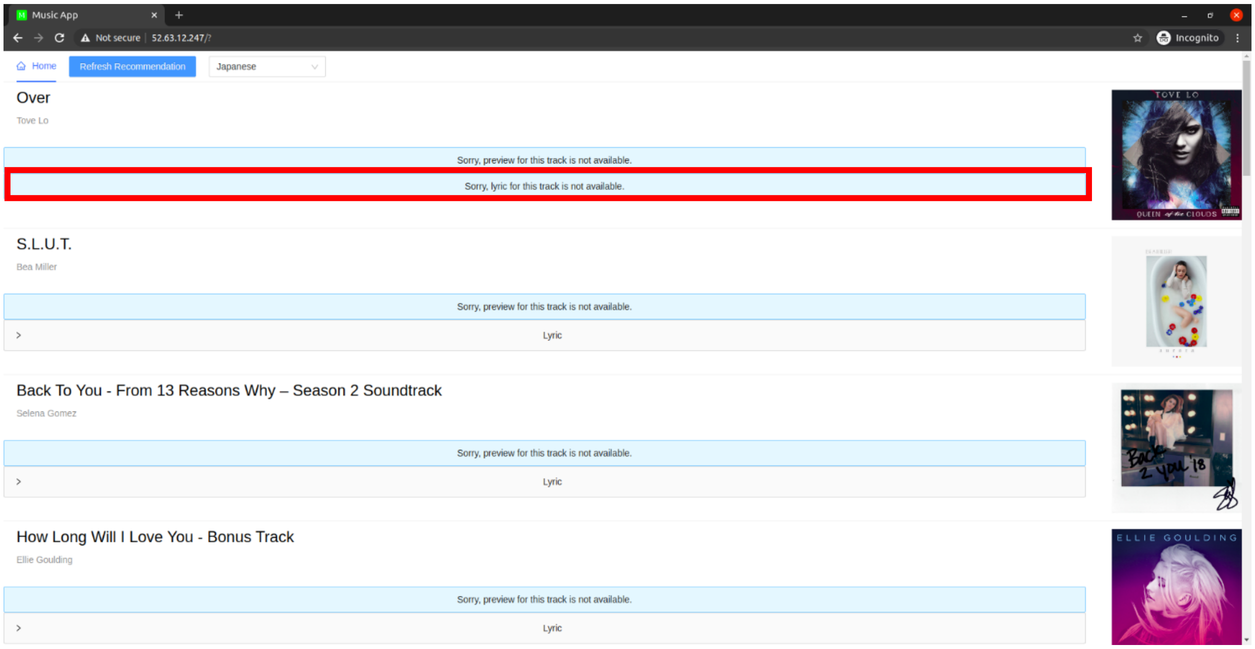
How Long Will I Love You - Bonus Track

Ellie Goulding

Sorry, preview for this track is not available.

Lyric

06


Music App
Not secure | 52.63.12.247/?
Incognito
Home
Refresh Recommendation
Japanese
TOVE LO
QUEEN of the CLOUDS
Back 2 you 18
ELLIE GOULDING

Over

Tove Lo

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

S.L.U.T.

Bea Miller

Sorry, preview for this track is not available.

Lyric

Back To You - From 13 Reasons Why – Season 2 Soundtrack

Selena Gomez

Sorry, preview for this track is not available.

Lyric

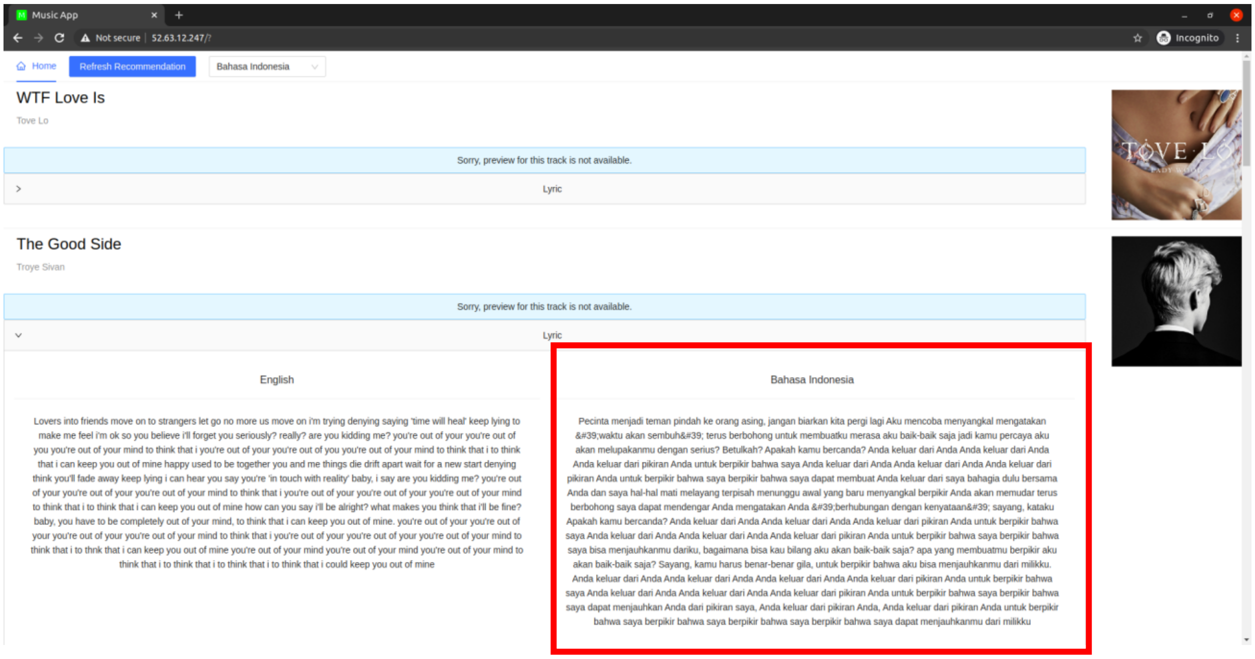
How Long Will I Love You - Bonus Track

Ellie Goulding

Sorry, preview for this track is not available.

Lyric

07



WTF Love Is

Tove Lo

Sorry, preview for this track is not available.

Lyric

The Good Side

Troye Sivan

Sorry, preview for this track is not available.

Lyric

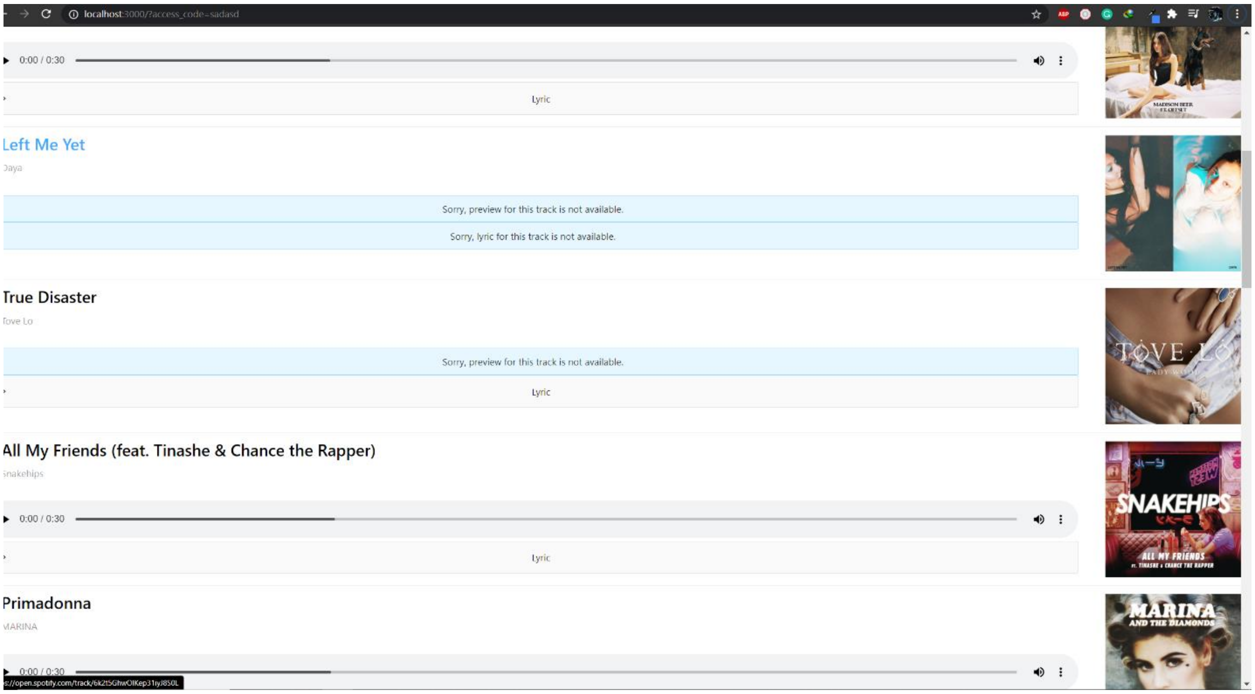
English

Lovers into friends move on to strangers let go no more us move on i'm trying denying saying 'time will heal' keep lying to make me feel i'm ok so you believe i'll forget you seriously? really? are you kidding me? you're out of your you're out of you you're out of your mind to think that i you're out of your you're out of you you're out of your mind to think that i to think that i can keep you out of mine happy used to be together you and me things die drift apart wait for a new start denying think you'll fade away keep lying i can hear you say you're 'in touch with reality' baby, i say are you kidding me? you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to think that i can keep you out of mine how can you say i'll be alright? what makes you think that i'll be fine? baby, you have to be completely out of your mind, to think that i can keep you out of mine. you're out of your you're out of your you're out of your you're out of your mind to think that i you're out of your you're out of your you're out of your mind to think that i to thnk that i can keep you out of mine you're out of your mind you're out of your mind you're out of your mind to think that i to think that i to think that i to think that i could keep you out of mine

Bahasa Indonesia

Pecinta menjadi teman pindah ke orang asing, jangan biarkan kita pergi lagi Aku mencoba menyangkal mengatakan &#39;waktu akan sembuh&#39; terus berbohong untuk membuatku merasa aku baik-baik saja jadi kamu percaya aku akan melupakanmu dengan serius? Betulkah? Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat membuat Anda keluar dari saya bahagia dulu bersama Anda dan saya hal-hal mati melayang terpisah menunggu awal yang baru menyangkal berpikir Anda akan memudar terus berbohong saya dapat mendengar Anda mengatakan Anda &#39;berhubungan dengan kenyataan&#39; sayang, kataku Apakah kamu bercanda? Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya bisa menjauhkanmu dariku, bagaimana bisa kau bilang aku akan baik-baik saja? apa yang membuatmu berpikir aku akan baik-baik saja? Sayang, kamu harus benar-benar gila, untuk berpikir bahwa aku bisa menjauhkanmu dari milikku. Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya Anda keluar dari Anda Anda keluar dari Anda Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya dapat menjauhkan Anda dari pikiran saya, Anda keluar dari pikiran Anda, Anda keluar dari pikiran Anda untuk berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya berpikir bahwa saya dapat menjauhkanmu dari milikku

08



Lyric

Left Me Yet

Daya

Sorry, preview for this track is not available.

Sorry, lyric for this track is not available.

True Disaster

Tove Lo

Sorry, preview for this track is not available.

Lyric

All My Friends (feat. Tinashe & Chance the Rapper)

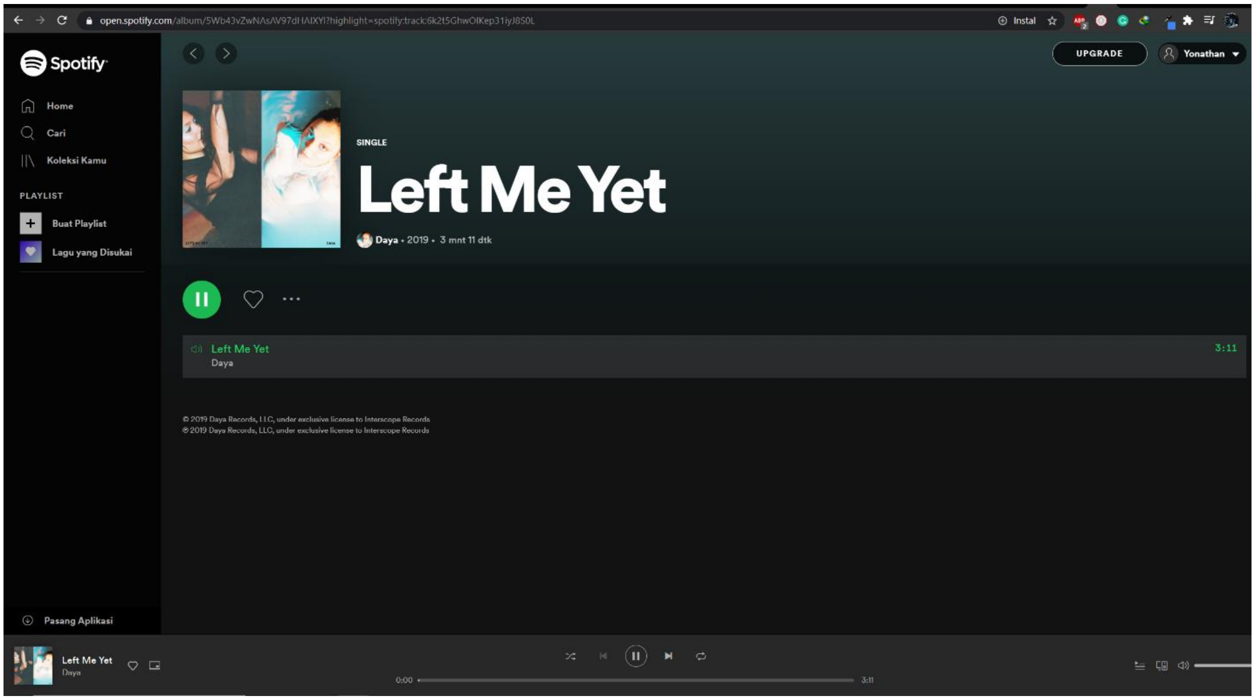
Snakehips

Lyric

Primadonna

MARINA

s://open.spotify.com/track/6kZt5GhwOlKep31ryJ850L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Instal
Spotify
Home
Cari
Koleksi Kamu
PLAYLIST
Buat Playlist
Lagu yang Disukai
Pasang Aplikasi
UPGRADE
Yonathan
SINGLE
Left Me Yet
Daya • 2019 • 3 mnt 11 dtk
Left Me Yet
Daya
3:11
Left Me Yet
Daya
0:00
3:11

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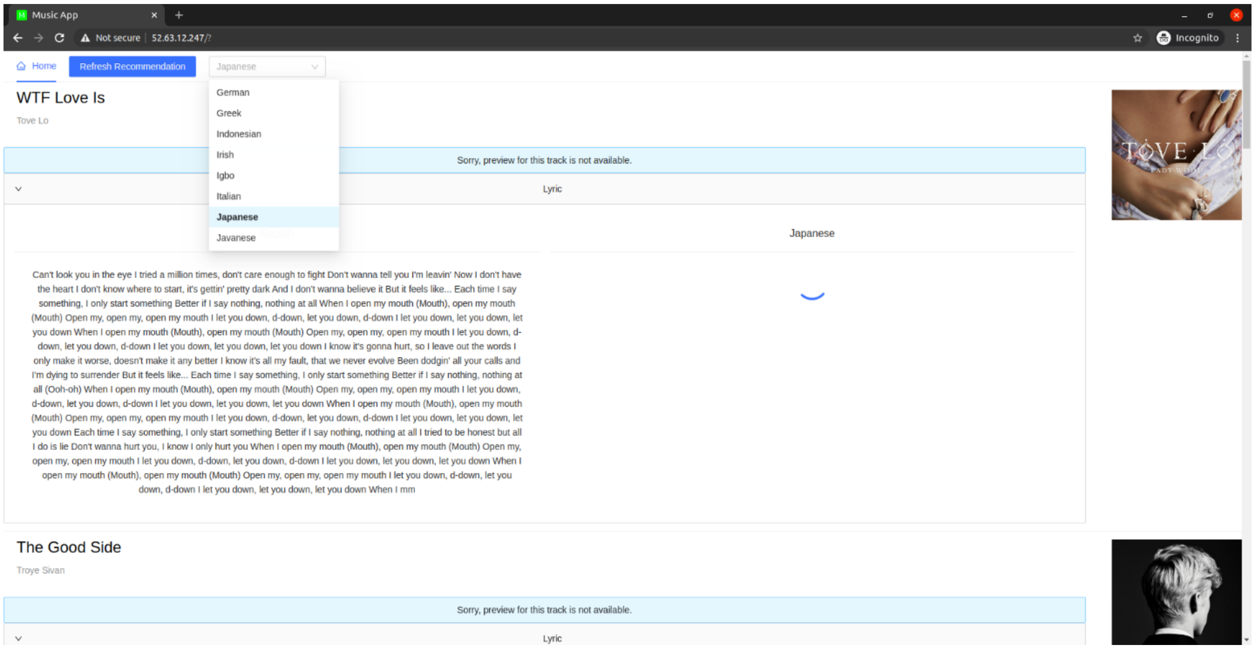
09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Javanese
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Japanese
Lyric

WTF Love Is

Tove Lo

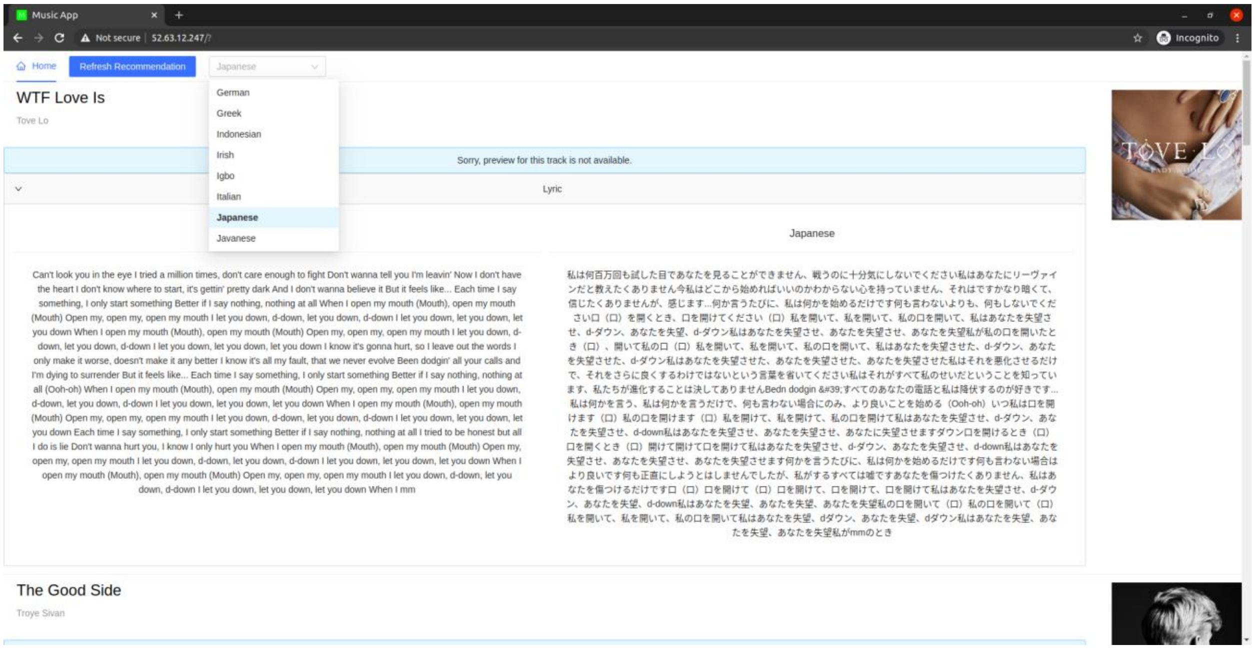
Sorry, preview for this track is not available.

Can't look you in the eye I tried a million times, don't care enough to fight Don't wanna tell you I'm leavin' Now I don't have the heart I don't know where to start, it's gettin' pretty dark And I don't wanna believe it But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down I know it's gonna hurt, so I leave out the words I only make it worse, doesn't make it any better I know it's all my fault, that we never evolve Been dodgin' all your calls and I'm dying to surrender But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all (Ooh-oh) When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down Each time I say something, I only start something Better if I say nothing, nothing at all I tried to be honest but all I do is lie Don't wanna hurt you, I know I only hurt you When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I mm

The Good Side

Troye Sivan

Sorry, preview for this track is not available.



WTF Love Is

Tove Lo

Sorry, preview for this track is not available.

Japanese

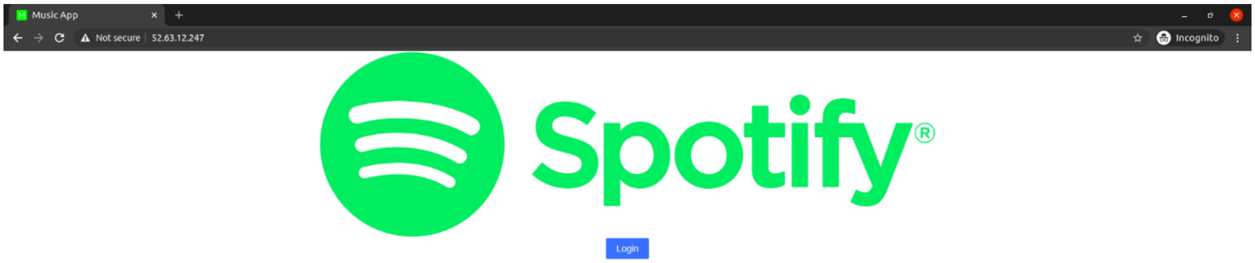
Can't look you in the eye I tried a million times, don't care enough to fight Don't wanna tell you I'm leavin' Now I don't have the heart I don't know where to start, it's gettin' pretty dark And I don't wanna believe it But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down I know it's gonna hurt, so I leave out the words I only make it worse, doesn't make it any better I know it's all my fault, that we never evolve Been dodgin' all your calls and I'm dying to surrender But it feels like... Each time I say something, I only start something Better if I say nothing, nothing at all (Ooh-oh) When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down Each time I say something, I only start something Better if I say nothing, nothing at all I tried to be honest but all I do is lie Don't wanna hurt you, I know I only hurt you When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I open my mouth (Mouth), open my mouth (Mouth) Open my, open my, open my mouth I let you down, d-down, let you down, d-down I let you down, let you down, let you down When I mm

私は何百万回も試した目であなたを見ることができません、戦うのに十分気にしないでください私はあなたにリーヴァインだと教えたくありません今私はどこから始めればいいのかわからない心を持っていません、それはですかなり暗くて、信じたくありませんが、感じます...何か言うたびに、私は何かを始めるだけです何も言わないよりも、何もしないでくださいロ（口）を開くとき、口を開けてください（口）私を開いて、私を開いて、私の口を開いて、私はあなたを失望させ、d-ダウン、あなたを失望、d-ダウン私はあなたを失望させ、あなたを失望させ、あなたを失望私が私の口を開いたとき（口）、開いて私の口（口）私を開いて、私を開いて、私の口を開いて、私はあなたを失望させた、d-ダウン、あなたを失望させた、d-ダウン私はあなたを失望させた、あなたを失望させた、あなたを失望させた私はそれを悪化させるだけで、それをさらに良くするわけではないという言葉を省いてください私はそれがすべて私のせいだということを知っています、私たちが進化することは決してありませんBedn dodgin &#39;すべてのあなたの電話と私は降伏するのが好きです...私は何かを言う、私は何かを言うだけで、何も言わない場合にのみ、より良いことを始める（Ooh-oh）いつ私は口を開けます（口）私の口を開けます（口）私を開けて、私を開けて、私の口を開けて私はあなたを失望させ、d-ダウン、あなたを失望させ、d-down私はあなたを失望させ、あなたを失望させ、あなたに失望させますダウン口を開けるとき（口）口を開くとき（口）開けて開けて口を開けて私はあなたを失望させ、d-ダウン、あなたを失望させ、d-down私はあなたを失望させ、あなたを失望させ、あなたを失望させます何かを言うたびに、私は何かを始めるだけです何も言わない場合はより良いです何も正直にしようとはしませんでしたが、私がするすべては嘘ですあなたを傷つけたくありません、私はあなたを傷つけるだけですロ（口）口を開けて（口）口を開けて、口を開けて、口を開けて私はあなたを失望させ、d-ダウン、あなたを失望、d-down私はあなたを失望、あなたを失望、あなたを失望私の口を開いて（口）私の口を開いて（口）私を開いて、私を開いて、私の口を開いて私はあなたを失望、dダウン、あなたを失望、dダウン私はあなたを失望、あなたを失望、あなたを失望私がmmのとき

The Good Side

Troye Sivan

10



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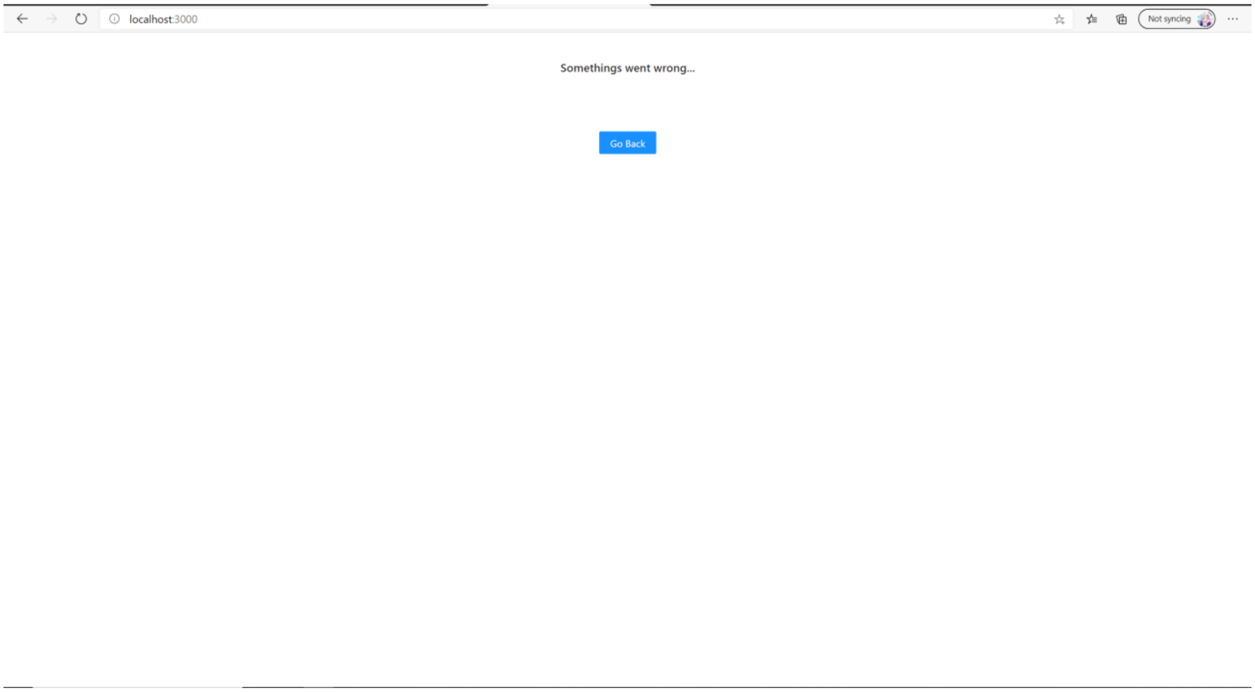
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