

I. Requirements

A. Python

1. IDE/Compiler

- a) The Flask endpoint must be running and available to process requests sent by the user in the frontend

2. Libraries

- a) TikTokApi: you will need to pip install TikTokApi, the open source wrapper for the TikTok API leveraged in this program
- b) Spotipy: you will need to pip install Spotipy, the lightweight Spotify API wrapper for the Spotify API leveraged in this program

B. React-Native.js

1. Dependencies

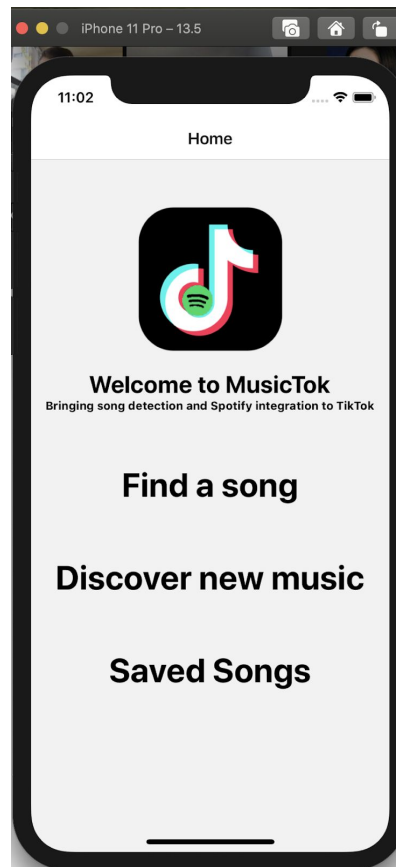
- a) You will need to have react-native installed with the Expo CLI. Follow the development environment set-up described in React-Native documentation:
- b) <https://reactnative.dev/docs/environment-setup>

C. Node.js

- 1. A standard installation of NodeJS should provide you with the necessary modules and package-json to compile and run the MusicTok CLI

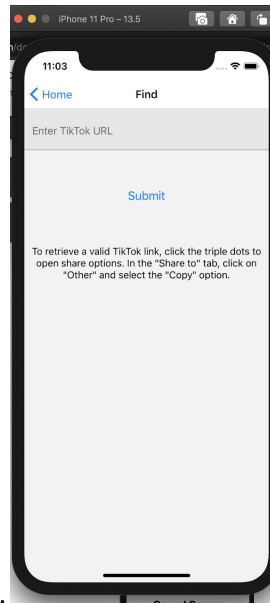
II. Home Screen

- A. The below screenshot shows the expected render for the home screen. There should be 3 buttons: “Find a song”, “Discover new music” and “Saved songs.”



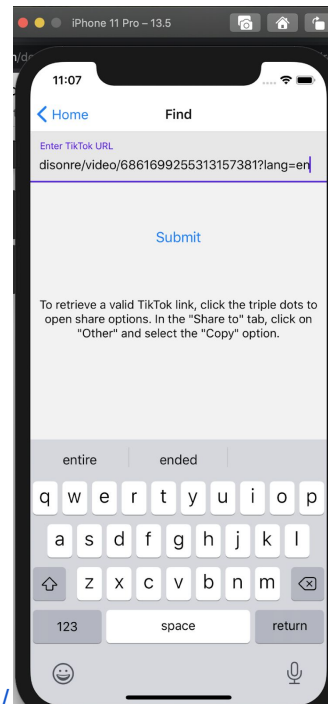
- B. Find a Song: Detectable Song

1. The “Find a Song” button should be clickable. Upon clicking, you should



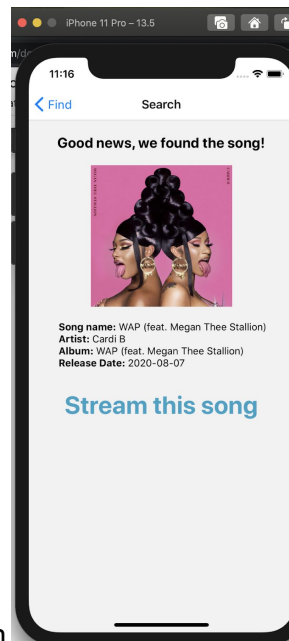
be navigated to this screen.

2. Clicking on in the “Enter TikTok URL” bar should prompt the native OS keyboard to pop up and allow you to type in an input. For the sake of this test plan, we will first try a TikTok link that contains music:



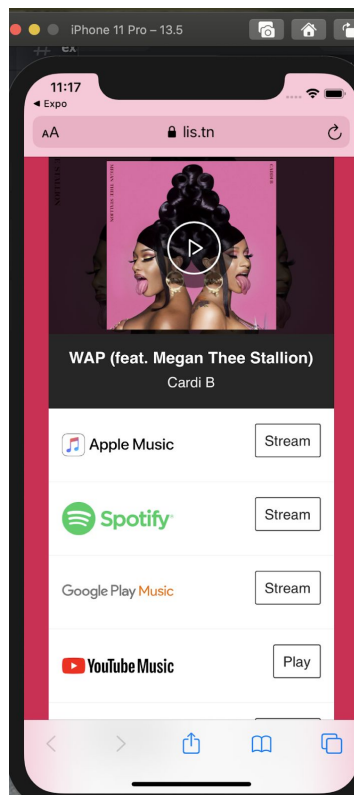
[https://www.tiktok.com/@addisonre/
video/6861699255313157381?lang=en](https://www.tiktok.com/@addisonre/video/6861699255313157381?lang=en)

3. Clicking on the “Submit” button should send a request to the backend and



display the following information

4. Clicking on the “Stream this song” should auto-navigate through the device’s default browser to a page containing listening options on all popular platforms.

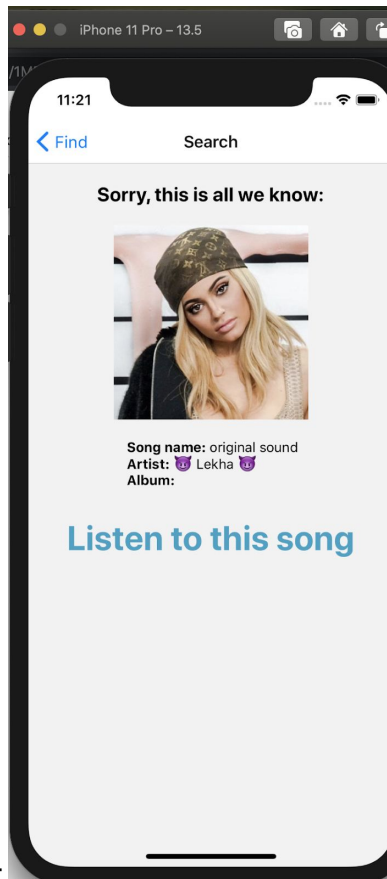


C. Find a Song: No Song Present

1. Repeat steps 1 and 2. Replace link with a TikTok link that contains no music (for example, just someone speaking). Example:

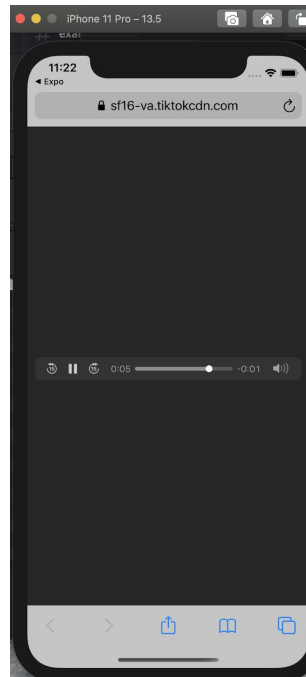
https://www.tiktok.com/@angry.browngirl/video/6869880177321708806?d=secCgsIARCbDRgBIAIoARI%2BCjzNW8kHC3vHVPqy%2FGqYzXqxcxFEh5rnjbz8OH34w1gExq5gucjbFHJrhCJdtgw%2B%2FH0uoMRpoek%2FnABHN4aAA%3D%3D&language=en&preview_pb=0&sec_user_id=MS4wLjABAAAawdcVL0GUaUZhOK7SFllpR2q3UOv0I6iBLoMG-tgaH7r9PurKVLCrz00EnWquM16M&share_item_id=6869393810137369861&share_link_id=F09194C2-4B8B-416C-AA36-44561CAC7324×tamp=1599415626&tt_from=copy&u_code=d9adie001584id&user_id=6759804484396811270&utm_campaign=client_share&utm_medium=ios&utm_source=copy&source=h5_m

2. Clicking on “Submit” should send a request to the backend and render the



following:

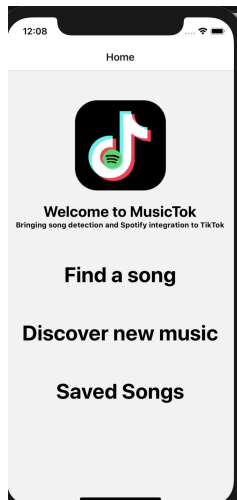
3. Clicking on “Listen to this Song” should link you to the mp3 audio file



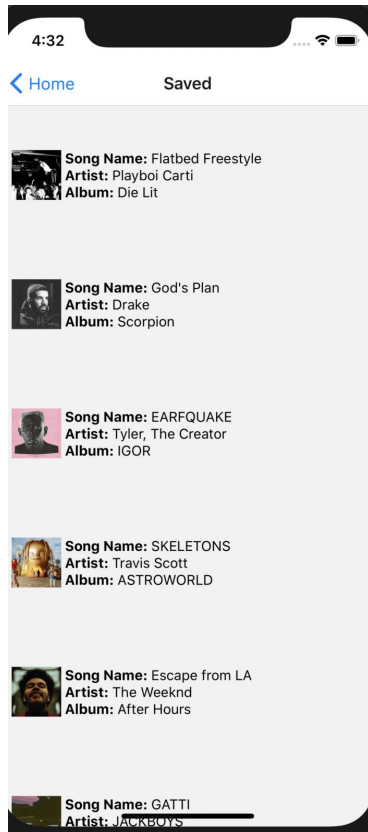
stored in TikTok’s database

III. Saved-Screen

- A. Click on the “Saved Songs” button on the home screen

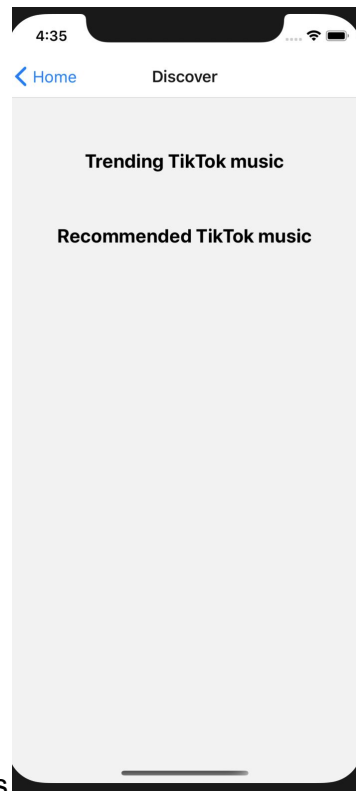


- B. The “Saved” screen should contain a scrollable list of all saved songs



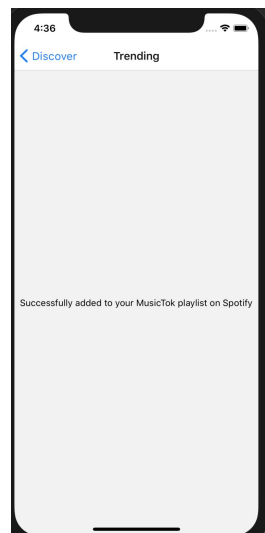
IV. Discover New Music Screen

- A. Clicking on the Discover New Music button should open up a screen with 2

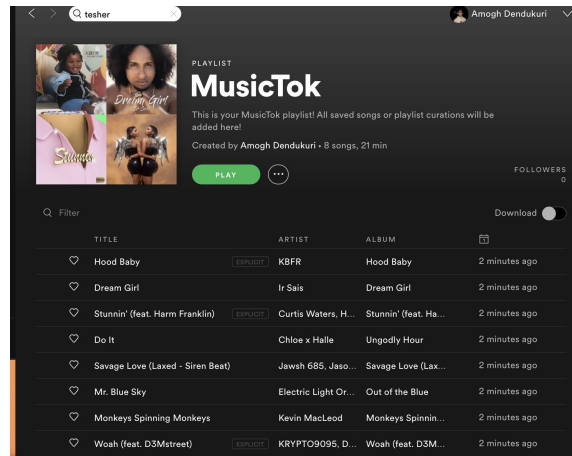


buttons

- B. Clicking on Trending or Recommended TikTok music should prompt authentication via browser/Spotify app and then yield the following message



- C. You can verify successful add by going to your Spotify library. A playlist called "MusicTok" should have been automatically created.



1.

V. Node Command Line Interface

- A. Running with argument `--screen=saved` should send a request to retrieve saved songs from the SQLite3 database and render to console

```
Amoghs-MacBook-Pro:Node CLI amoghden$ node cli.js --screen=saved
```

Saved songs

Song: Flatbed Freestyle
Artist: Playboi Carti
Album: Die Lit

Song: God's Plan
Artist: Drake
Album: Scorpion

Song: EARFQUAKE
Artist: Tyler, The Creator
Album: IGOR

Song: SKELETONS
Artist: Travis Scott
Album: ASTROWORLD

- B. Running with argument `--screen=trending` OR `--screen=recommended` should make a call to the backend and add trending/recommended songs to your Spotify playlist. The following message should return to console if it was successful

```
[Amoghs-MacBook-Pro:Node CLI amoghden$ node cli.js --screen=trending  
Successfully added trending audios to your Spotify playlist  
Amoghs-MacBook-Pro:Node CLI amoghden$ █
```