CA400 USER MANUAL

Chirp – Audio Social Updates

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Date Completed: 15/05/2020

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1. Abstract

Chirp is an Android mobile application designed to enhance user experience on the popular social media platform Twitter. With the application you can record, share and listen to voice recordings. These recordings are shared in the form of a Google Drive shareable link that is tweeted out to your followers. Should you wish to listen to another user's recordings, you simply need to be following them on Twitter.

2. Installation Guide

Required Hardware

An Android mobile device capable of running the application with a steady internet connection.

Prerequisites

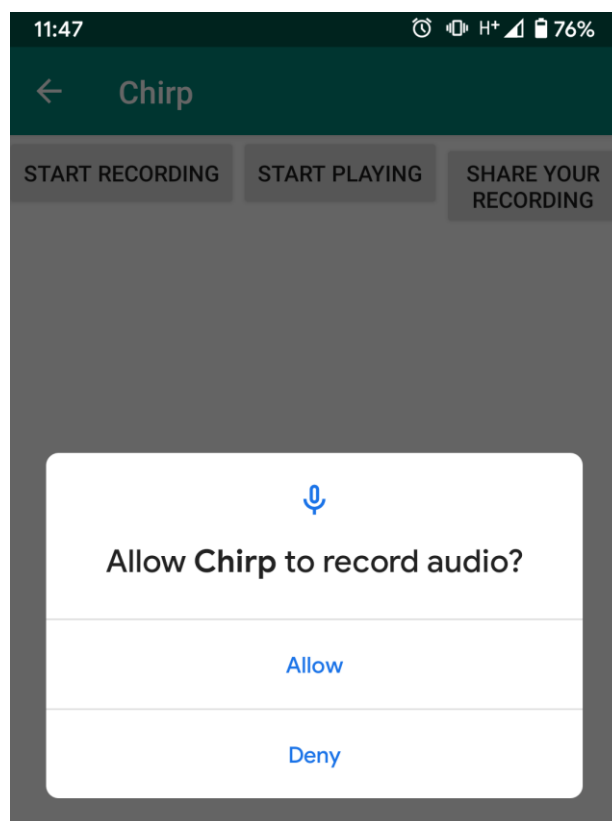A Twitter & Google Drive account.

Installation Steps

1. Download & Install Android Studio from the following link:
   https://developer.android.com/studio
2. Navigate to:
   https://gitlab.computing.dcu.ie/obriee82/2020-ca400-obriee82-flynnk36
3. Clone this directory.
4. Ensure that your mobile device is plugged into your computer via USB cable & 'USB Debugging' is enabled. Refer to the following link on how to do this:
   https://developer.android.com/studio/debug/dev-options
5. Open the cloned project in Android Studio.
6. In the toolbar at the top of Android Studio, select Run -> Edit Configurations…
7. Click on the + icon in the top left of the configuration screen to add a new configuration.
8. With the new configuration highlighted, In the Module dropdown menu select "app".
9. Click 'Ok'.
10. Select Run -> Run '[Configuration Name]'.
11. Once the Install has finished, locate and tap the Chirp launcher icon.

3. Granting Permissions & Initial Setup

The first time you launch the application a number of permissions will need to be granted as you navigate through the different functions. These can be seen below. In each case simply "Allow" or select the appropriate account for the given task. Exact information on each of these can be seen below.
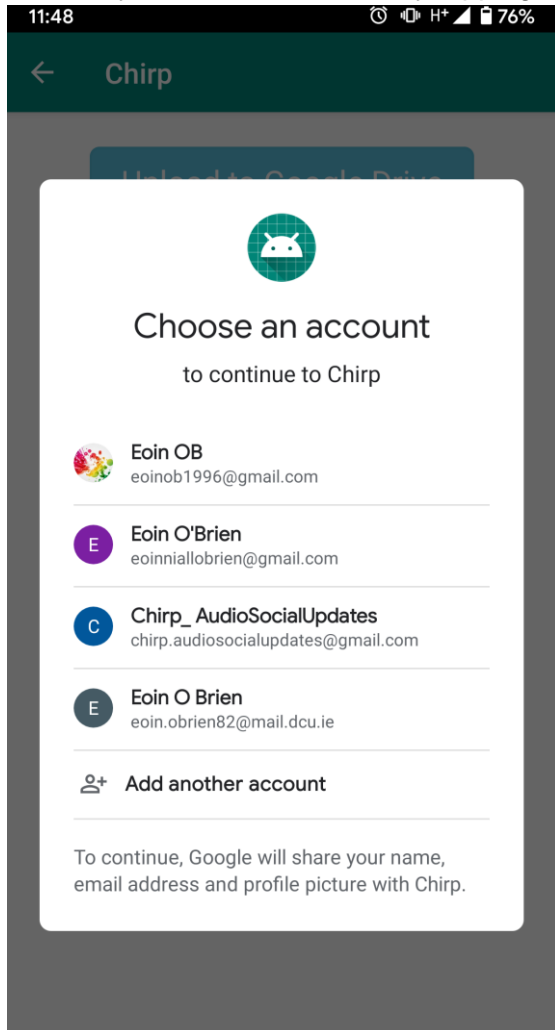
3.1 Record Audio

In order to successfully use the application to record audio, permission must be granted to the application to use the device's on-board microphone. This permission request will be prompted after tapping the "Record a Tweet" button. Please tap the "Allow" button to proceed.
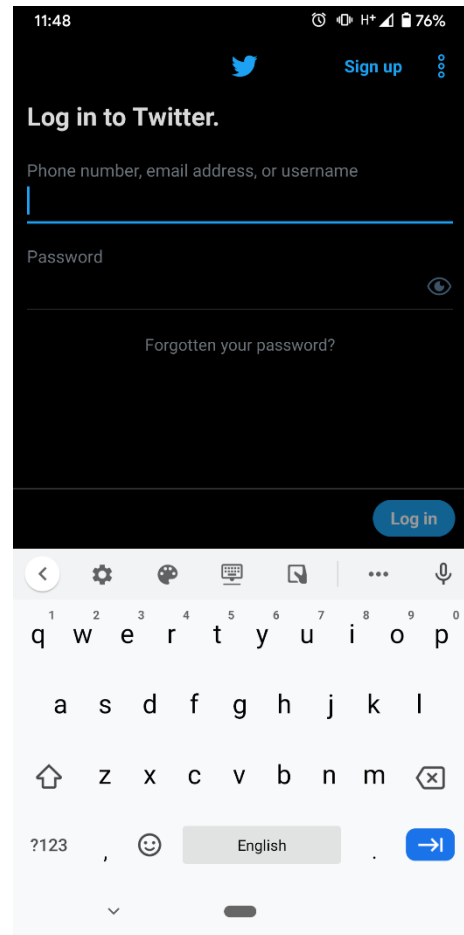
3.2 Choosing a Google Account

After tapping the "Share a Recording" button within Recording a Tweet, you will be prompted to select a Google account. This is required as the application needs to know which account's Google Drive storage will be used to upload the recording to. Simply select the account you would like to use by tapping one of the items in the list on screen.
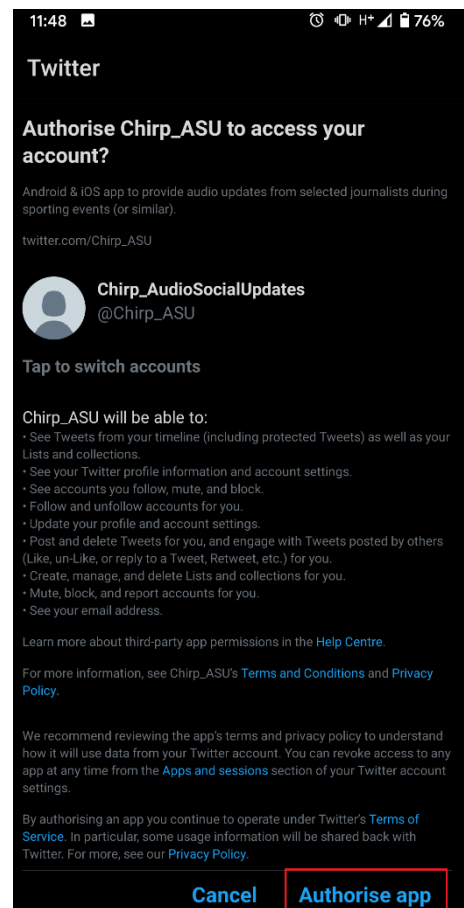
3.3 Logging in to Twitter

In order to use the 'Go Live', 'Browse Chirp' or 'User Tweets' functions you must be logged into a Twitter account. You will be prompted for this whenever you select the relevant 'Log in to Twitter' button within each functionality pipeline. Simply enter your username & password and you can continue.
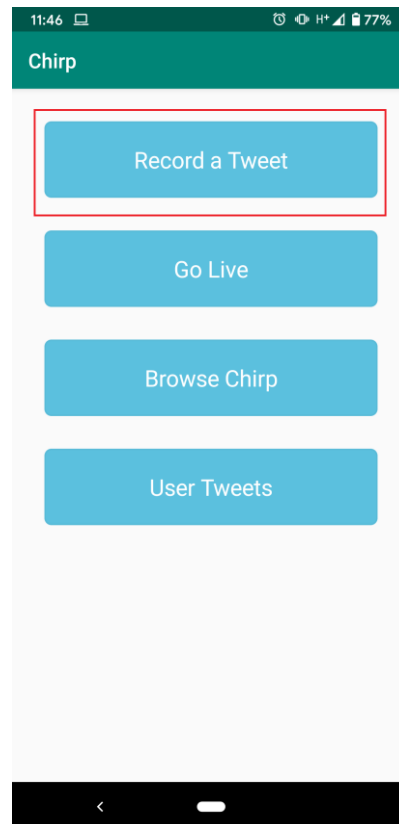
3.4 Grant authorization to Chirp

Similar to above, in order to use any of the 'Go Live', 'Browse Chirp' or 'User Tweets' functions you need to grant authorization to Chirp. This will always be prompted for when using the different functionality. Simply scroll down the page, and in the bottom right corner will be an 'Authorise app' button. Tap it to continue.
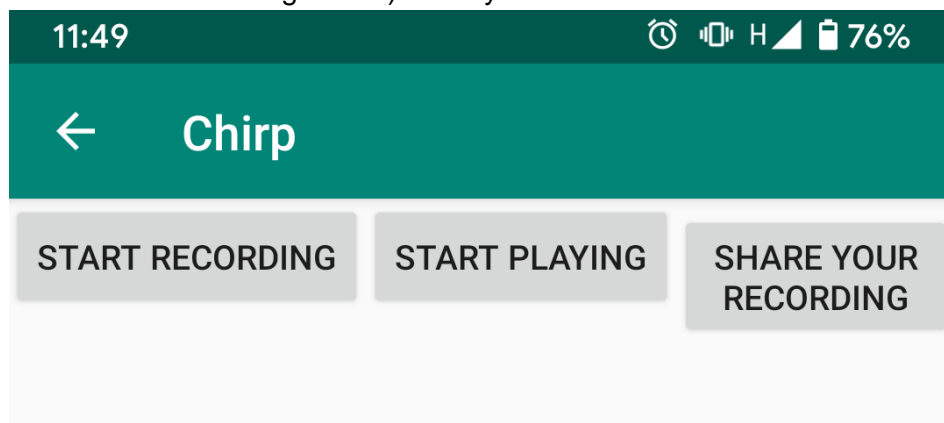
4. User Guide

4.1 Record & Share Tweets

- To record your Tweet, tap the "Record a Tweet" button located at the top of the home screen.
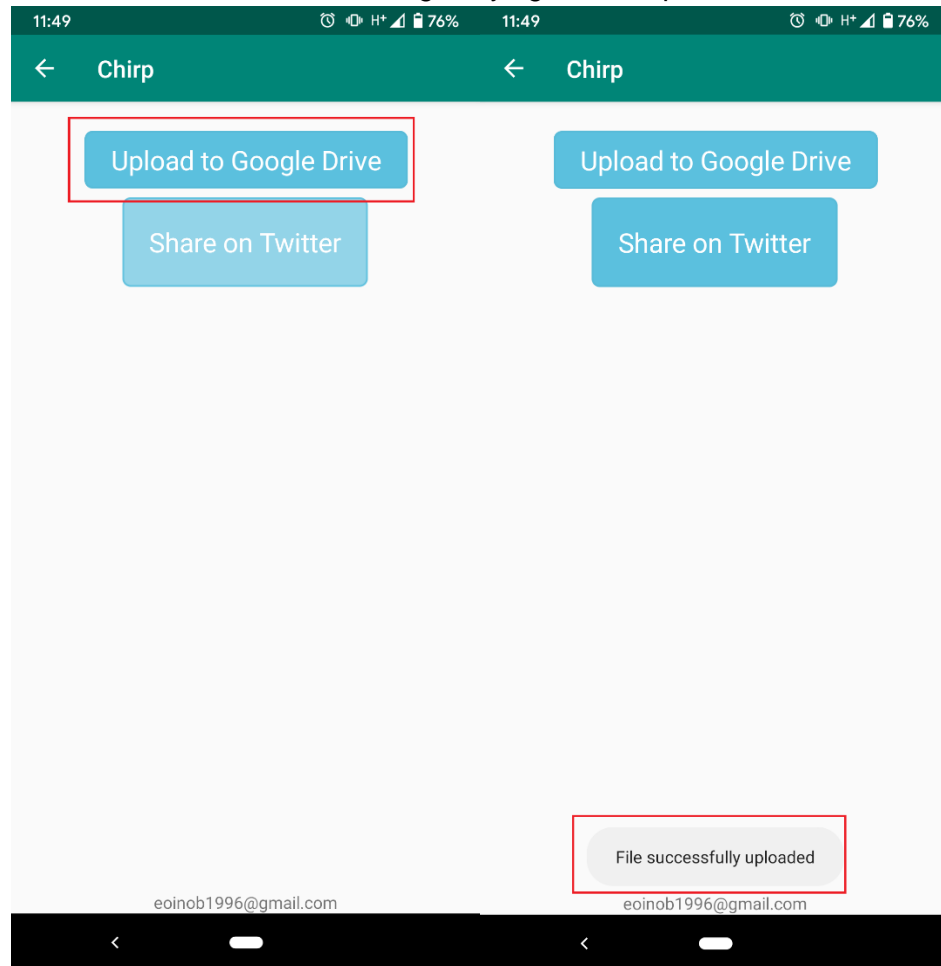

- From here you can tap "Start Recording" to begin the recording process. Simply speak into your device microphone and tap "Stop Recording" (located in the same place as the Start Recording button) when you are finished.
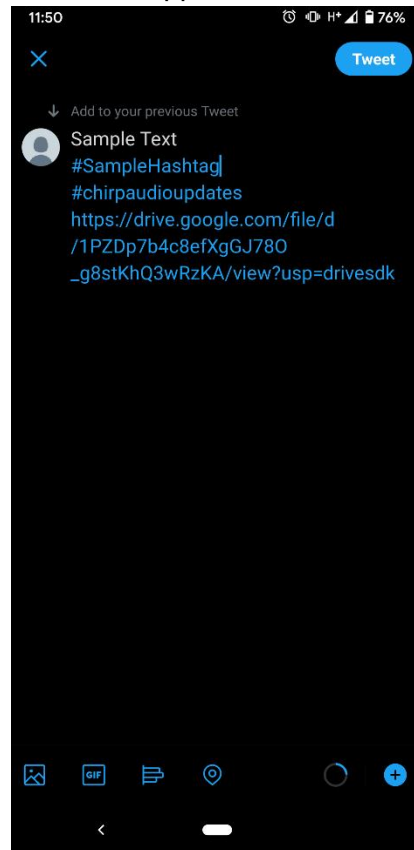

- If you would like to check the quality of the recording tap the "Start Playing" button which will play the audio back to you. Tap "Stop Playing" when you are finished.
- If you would like to re-record the tweet simply tap "Start Recording" again and repeat the above process.
- Provided the quality is satisfactory, tap the "Share Your Recording" button.

- In order to share your recording via Twitter, you must first upload it to Google Drive. Tap the "Upload to Google Drive" button. Provided this is performed successfully, you should receive a feedback message saying the file upload was successful.

- The "Share on Twitter" button should now be enabled. Tap this button to proceed to the Compose Tweet screen.
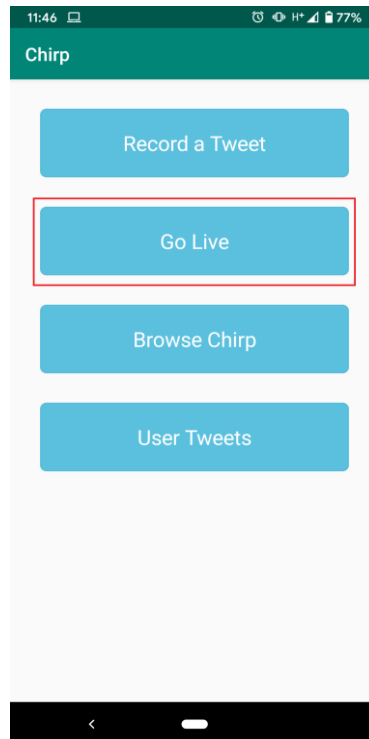
- The tweet will be auto filled with the link to the recording as well as the applications hashtag (*#chirpaudioupdates*). If you would like to add any additional text or hashtags simply select the text box and input them using your device's keyboard. It is important however that you do not modify the Google Drive sharing link or the Chirp hashtag, as both are required for the application to function.
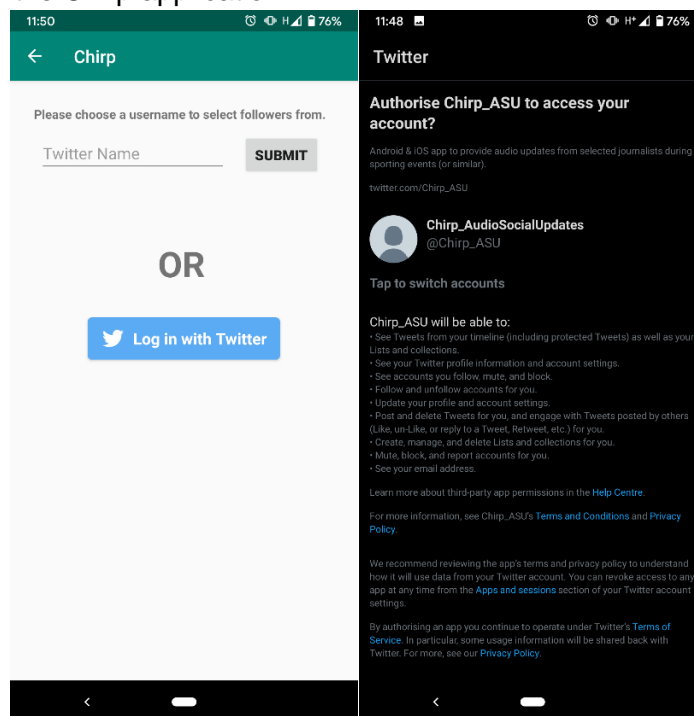

- When you are satisfied with the tweet, tap the 'Tweet' button in the top right corner. Your tweet has now been shared!
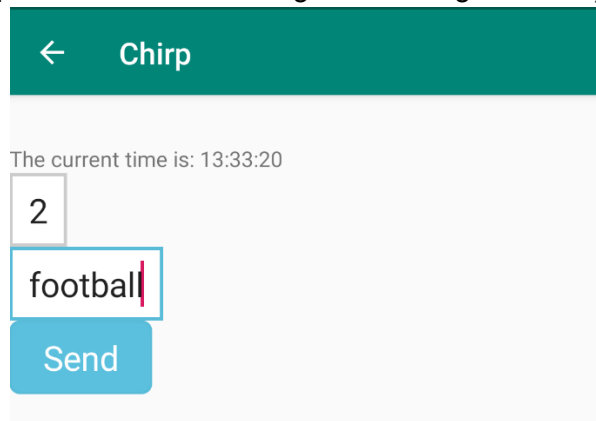
4.2 Go Live

- To Go Live, tap the "Go Live" button located one button from the top of the home screen.

- Here you have two options. You can search for an account whose following accounts will then be listed, or you can log in through Twitter with your own account & grant authorisation to the Chirp application.
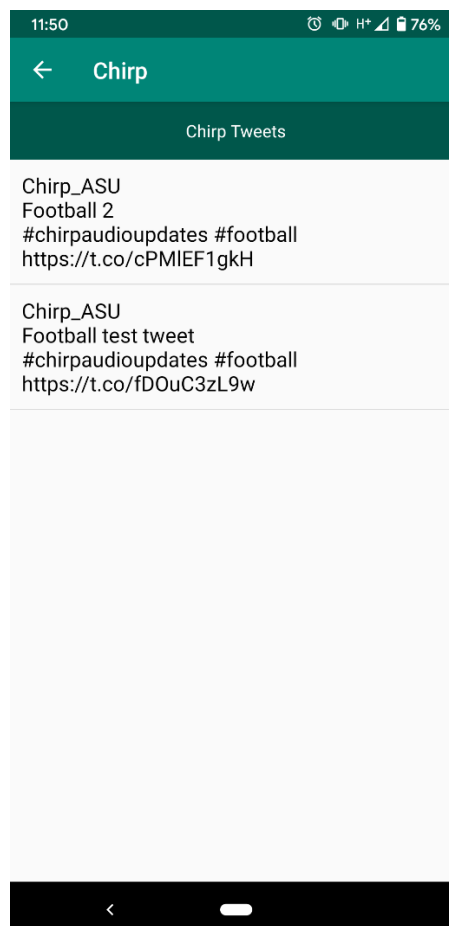
- You will then be shown a screen populated with a list of accounts. In order to select an account to listen to, simply tap one of the usernames displayed.
- Next you will be shown a screen containing two text boxes. The first box, which is located at the top of the screen, is where you can enter a time period you would like to be live for in hours (e.g. entering the number 2 will set the Go Live function to run for 2 hours).
- The second text box, located below the first, is where you can enter a specific hashtag you'd like to receive updates about (e.g. entering the hashtag "football" will search for any chirp tweets also containing the hashtag "football").
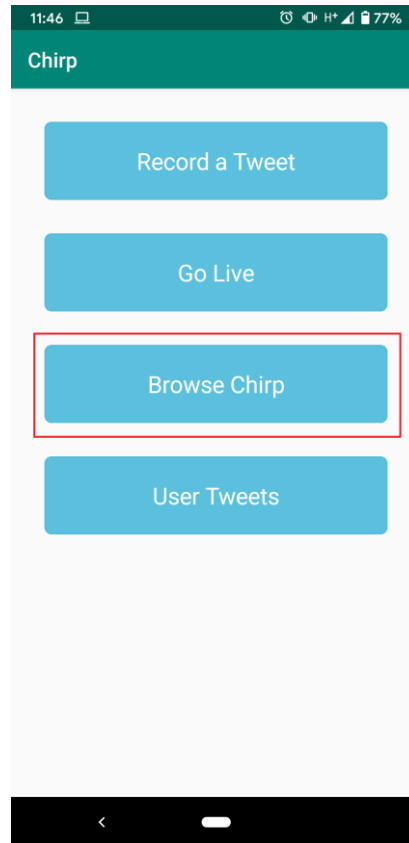

- Provided all of the above steps have been completed successfully, you should now see tweets from the selected user containing the specific hashtag you entered before. The below example has pulled all tweets containing the "football" hashtag from the user "Chirp_ASU".

- Any recordings that are contained in these tweets will be downloaded automatically. Simply wait about 60 seconds, after which point you can tap on a tweet to have it's recording played back through your device's speakers. Please ensure that your device media volume is of a sufficient level to hear the audio being played.
- In the case of a recording being deleted from a user's Google Drive, and therefore no longer exists to be downloaded, a feedback message will be displayed.
- After the Go live time period has ended, you will be brought back to the application home screen and receive a feedback message saying that "Go Live has ended"
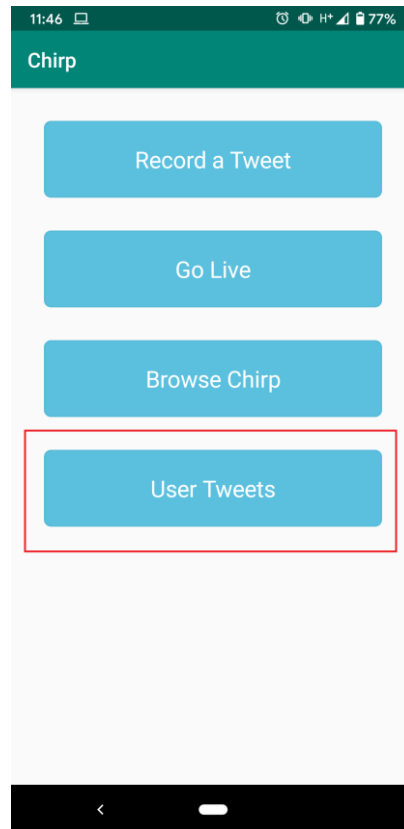
4.3 Browse User's own Feed

- To your own chirp feed, tap the "Browse Chirp" button located one button from the bottom of the home screen. The distinction between this function & Go Live is that it is not limited to a single user, but actually pulls your own user timeline (similar to the standard Twitter timeline).

- Provided you are logged in to Twitter, you simply need to grant authorization to Chirp at this stage and the application will continue to the display screen.

4.4 View own Tweets

- To view your own Chirp tweets, tap the "User Tweets" button located at the bottom of the home screen.

- Provided you are logged in to Twitter, you simply need to grant authorization to Chirp at this stage and the application will continue to the display screen.
- At this point once the recordings have finished downloading to your device storage, you may tap any of them to have the audio played through your device's speakers