

# **MusicDB - iOS Project**

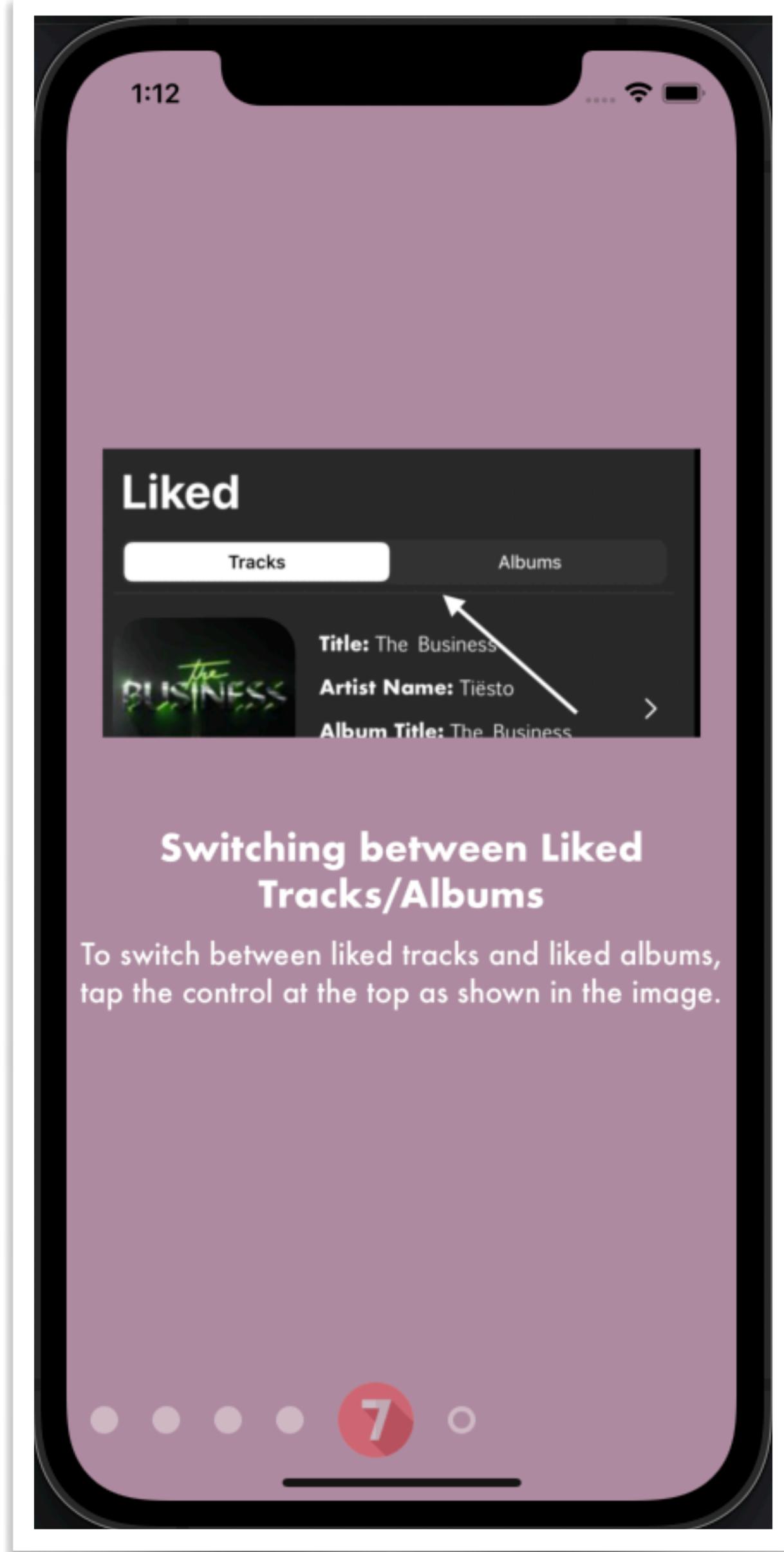
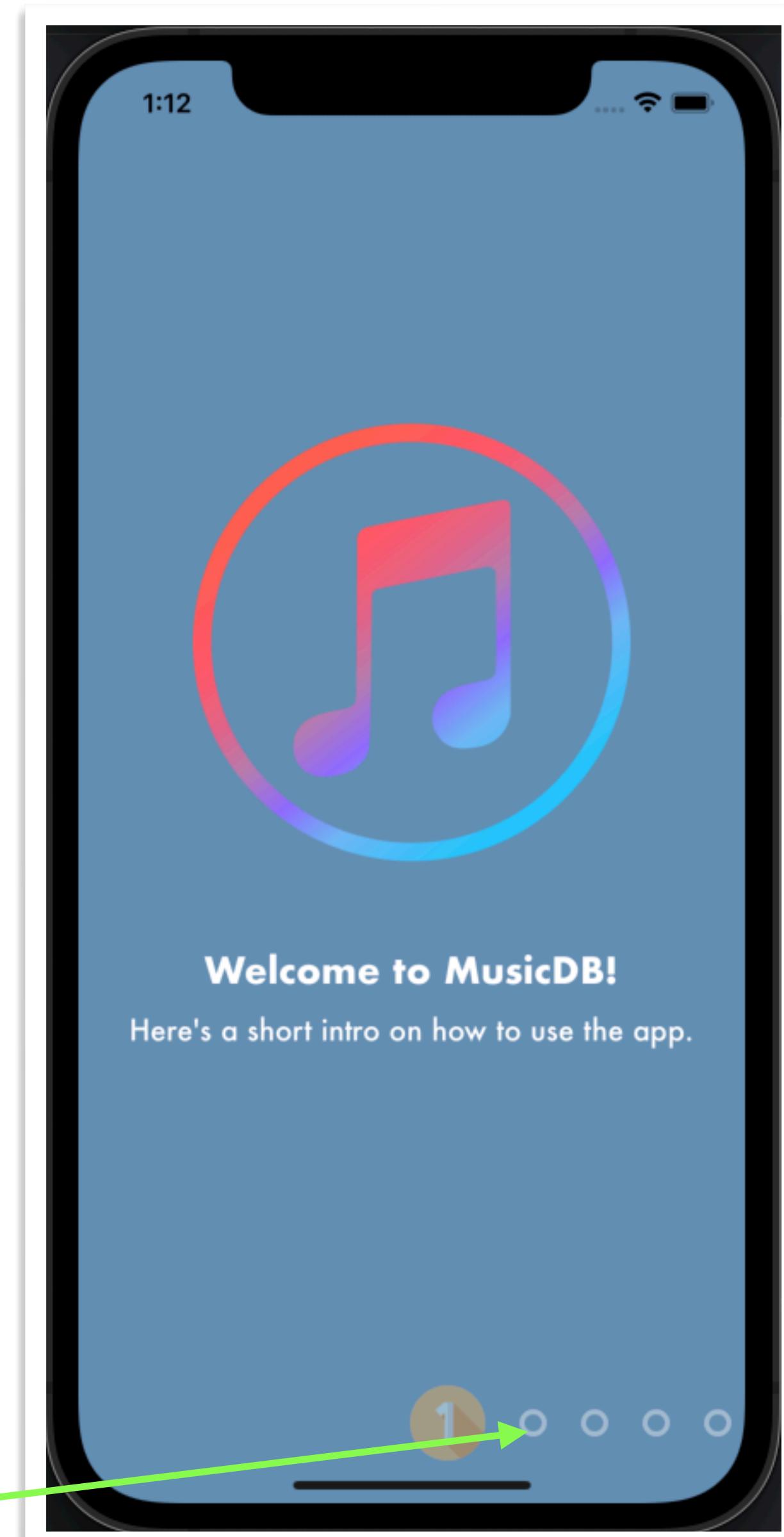
Музыкальная база данных

Made by Karen Nikoghosyan.

# Intro Screen

- The intro screen is designed to give you a short tutorial on how to use the different aspects of the app, for example:
- How to navigate between pages
- How to play a preview of a track
- How to toggle between tracks/albums bookmarks
- How to search for Tracks
- How to like an album/track

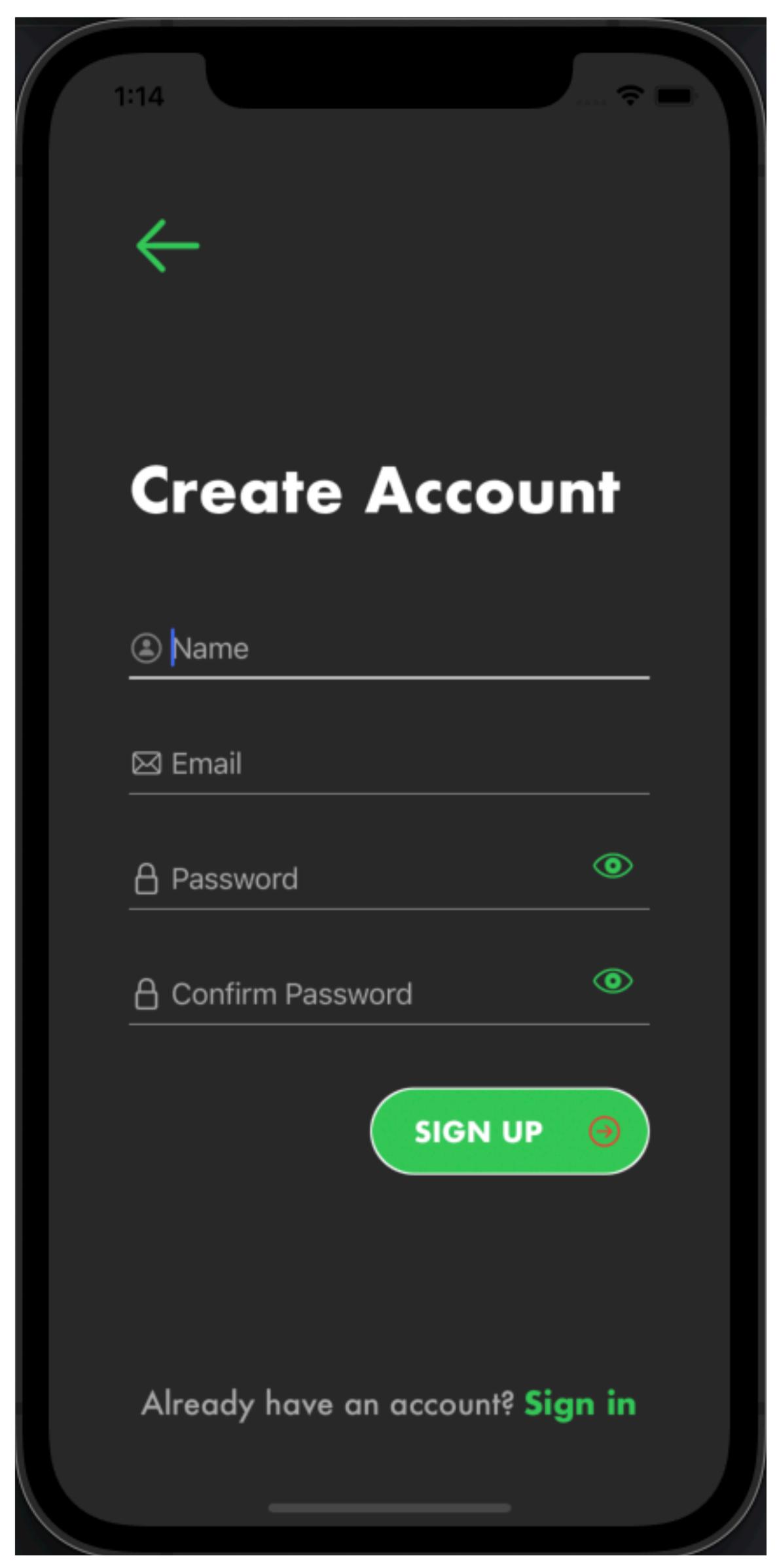
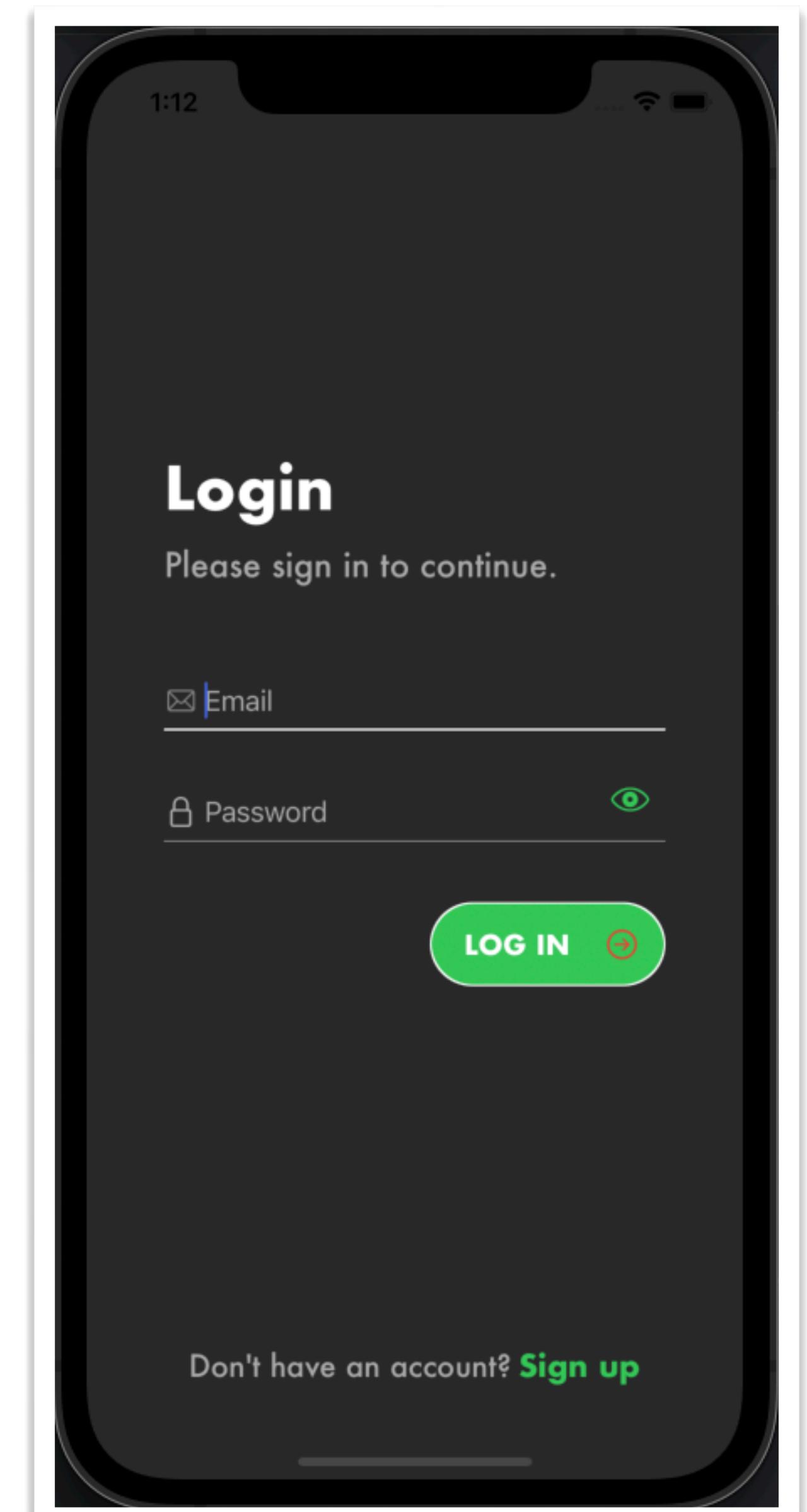
Tapping the dots at the bottom of the screen will allow you to skip pages



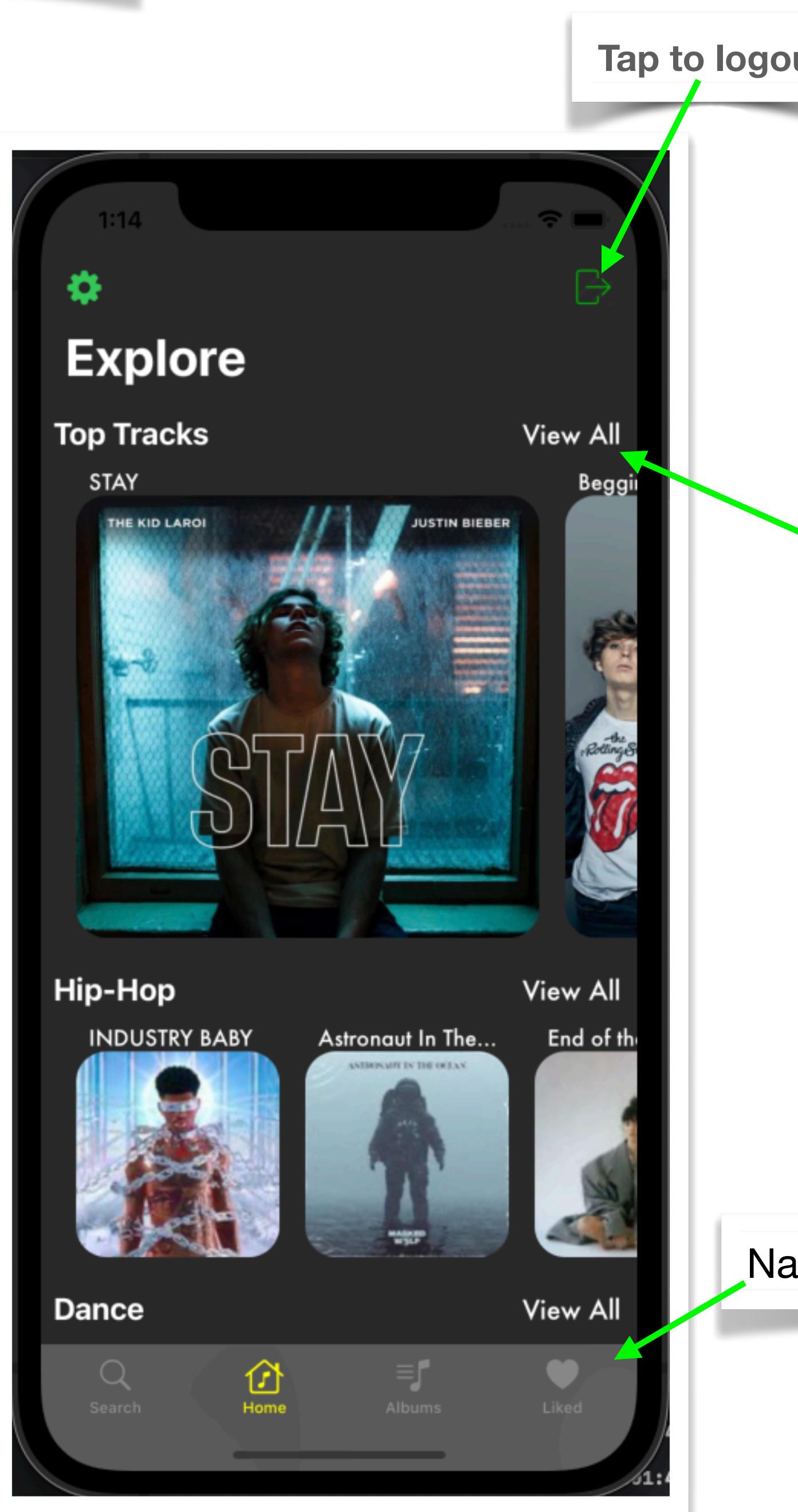
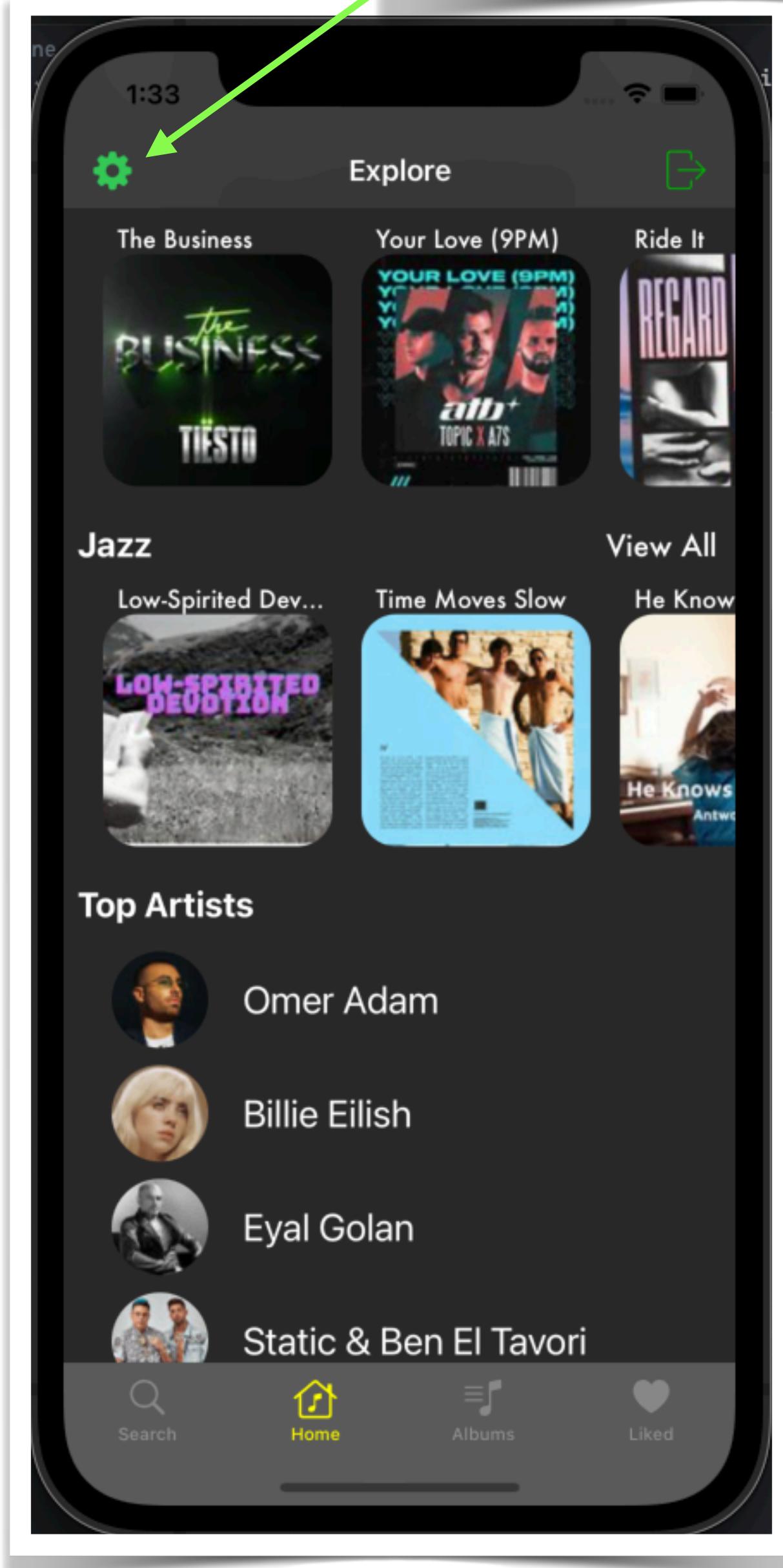
# Login/Register Screens

These screens were made so the user will need to register/login in order to be able to use the app.

The register/login process is handled by the FireBase's authentication service.



# Home Screen



This is the home screen you will see upon logging in, here you can press a single track/album to open the track's details, you can also swipe the CollectionView horizontally to reveal more tracks/albums.

Pressing “View All” on a corresponding genre will open up a different screen with up to 150 different track for you to search and discover.

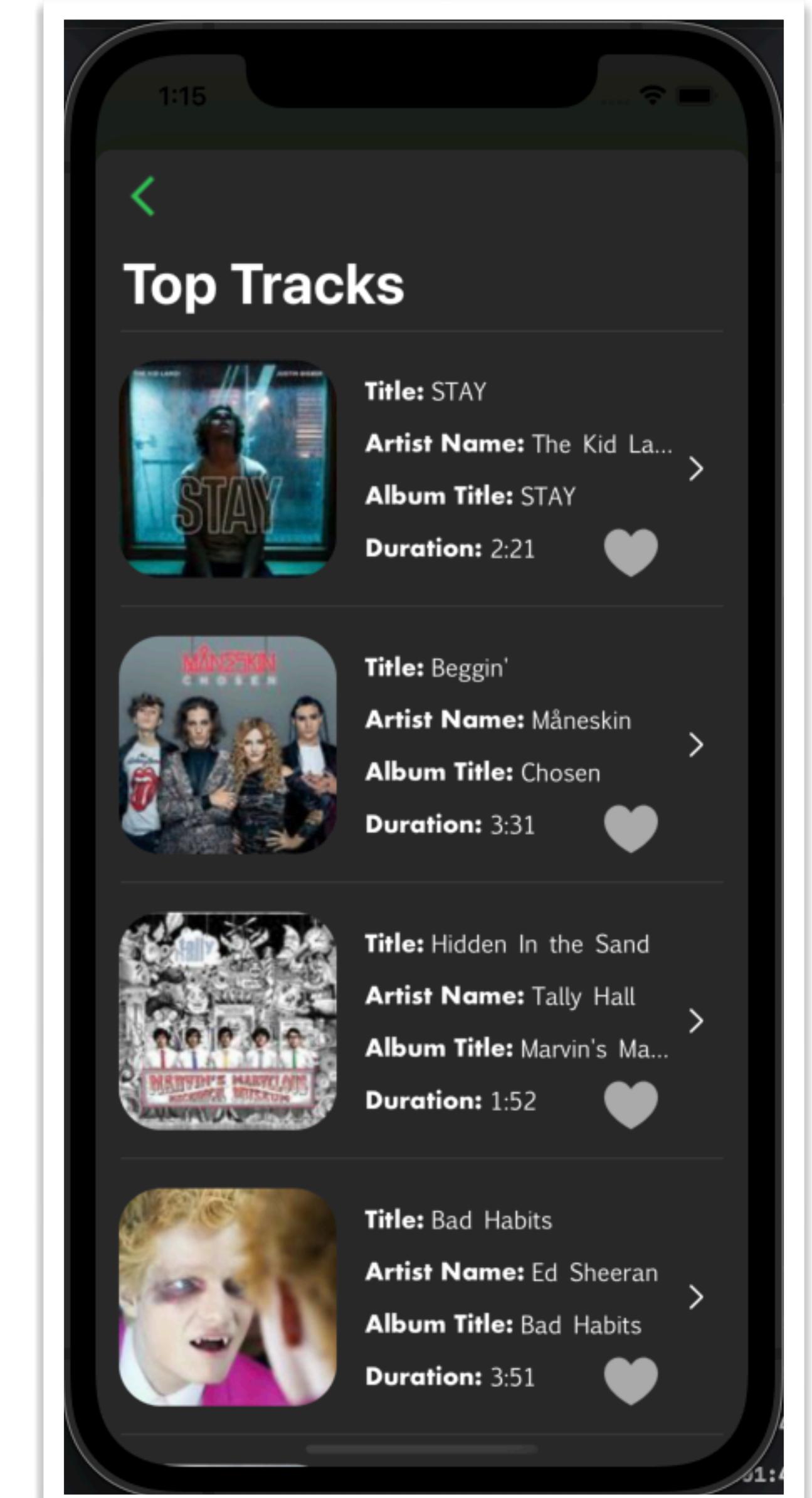
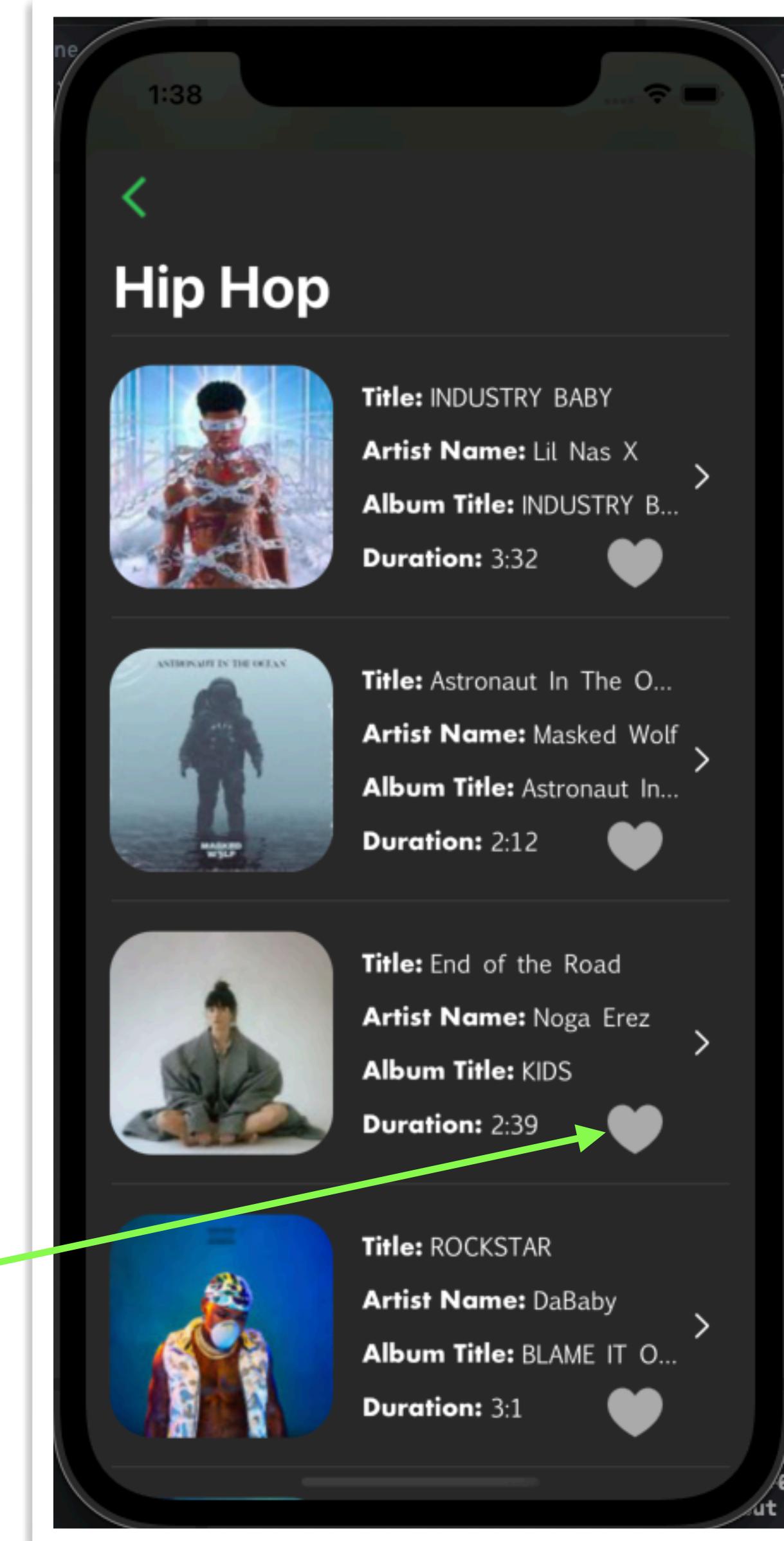
Navigate using the bottom navigation bar or by swiping the pages

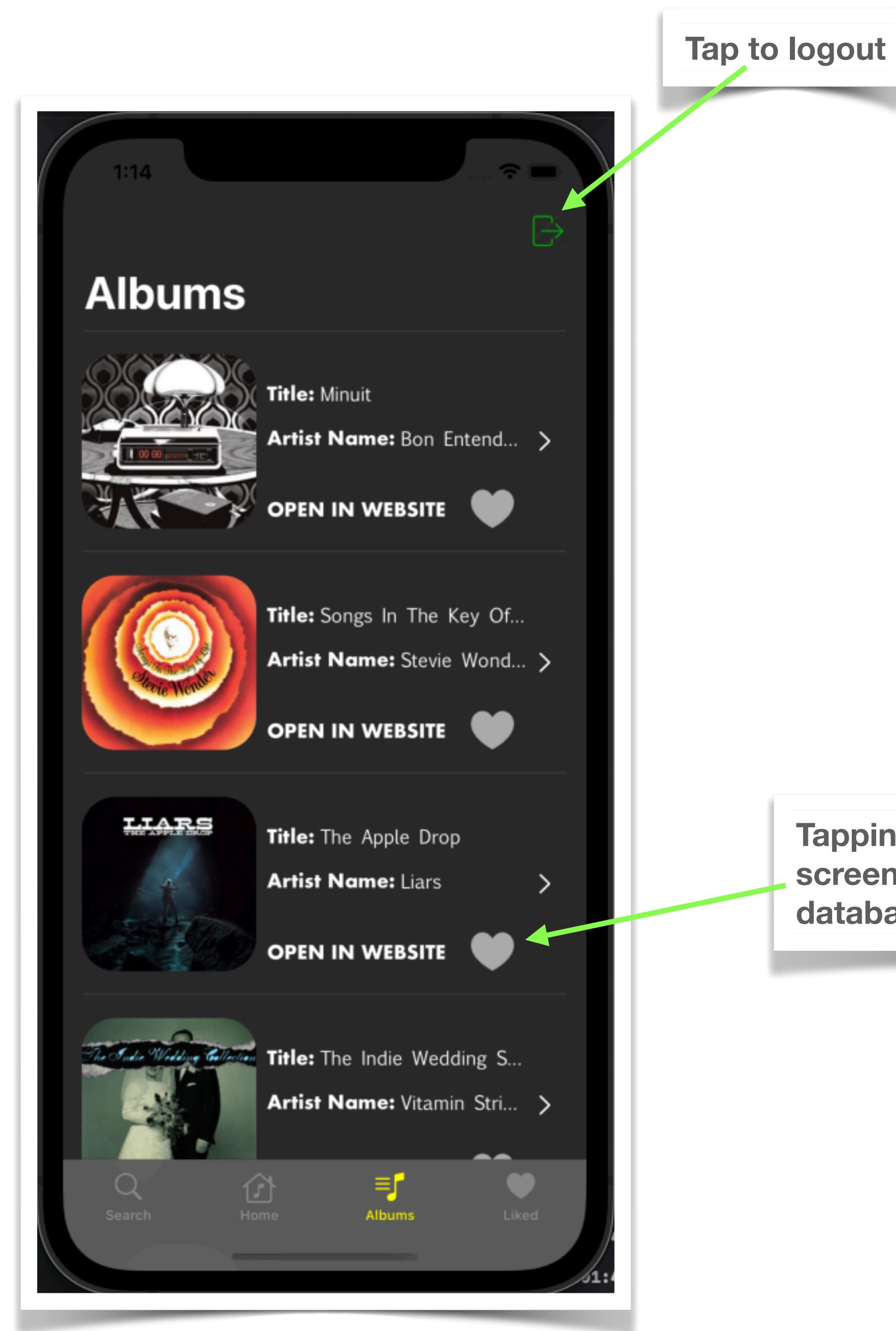
# Genre Screen

This is the genre screen, can be opened by pressing the “View All” button in the home screen as explained in the previous slide.

Here you can scroll to discover more tracks.

Tap the heart to add the track to the liked screen.





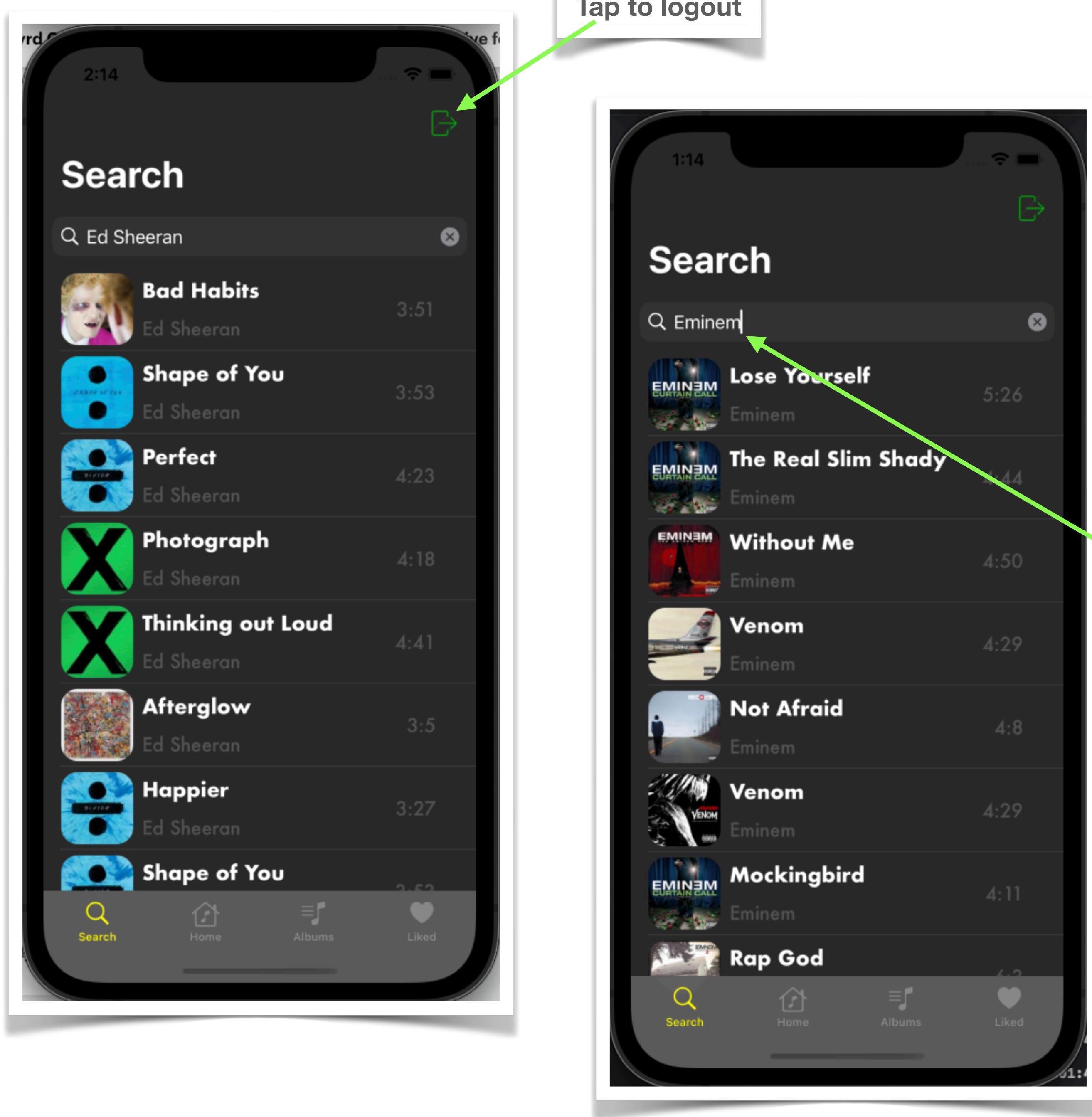
# Album Screen

This is the album screen, here you will discover all the top albums.

Tapping the card will open a new screen with all the album's tracks.

Tapping the heart button will add the album to the liked screen and will notify the other screens about the change via `NotificationCenter`, and will be also added to the `Firestore` database.

# Search Screen



Tap to logout

This is the search screen, designed to help you to find your favorite track.

Just type the track's name you're interested in in the search bar and find your favorite tracks.

Search bar to search for tracks.

Tapping edit will allow you to remove tracks/albums that you're not interested in anymore

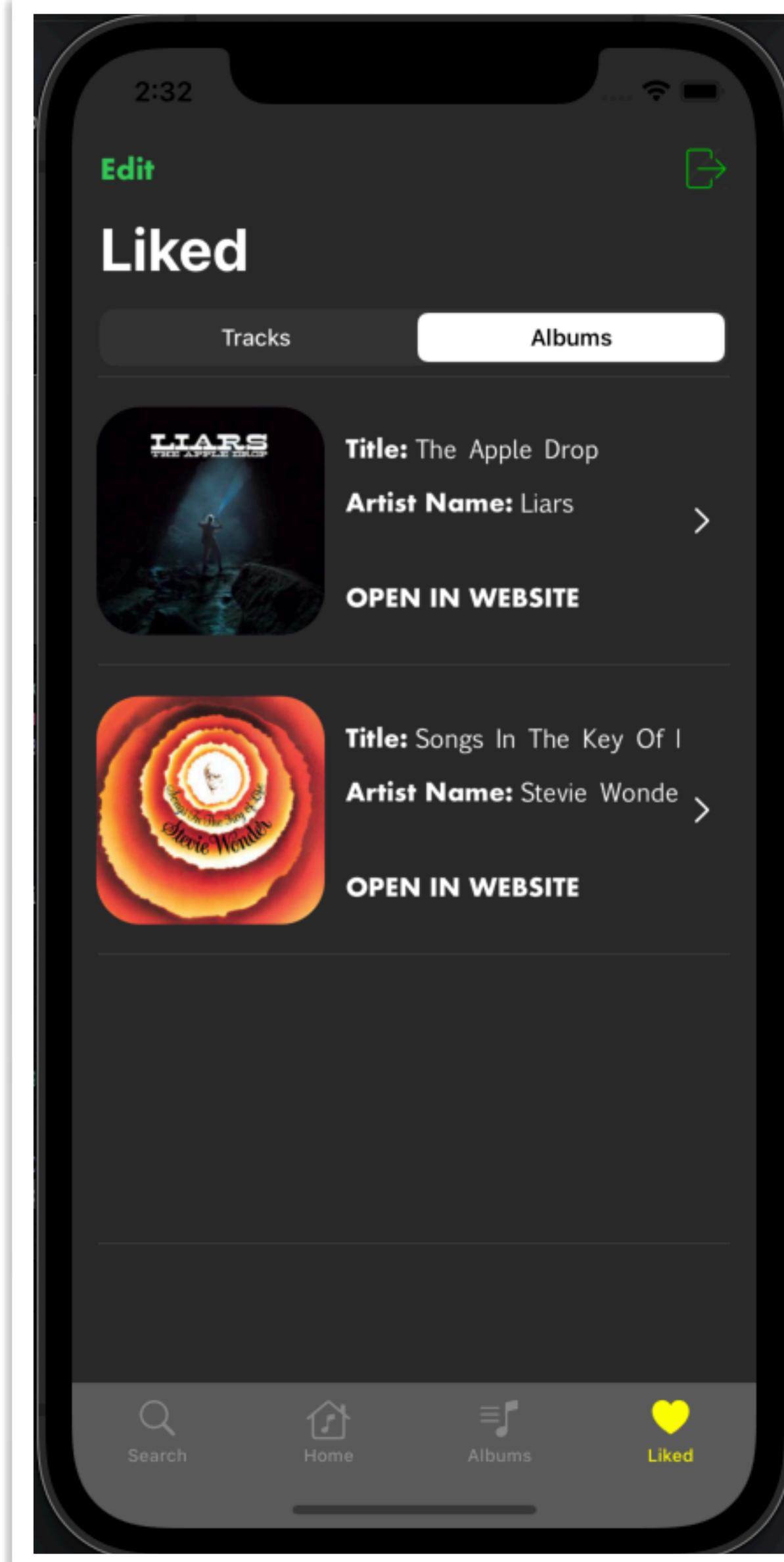
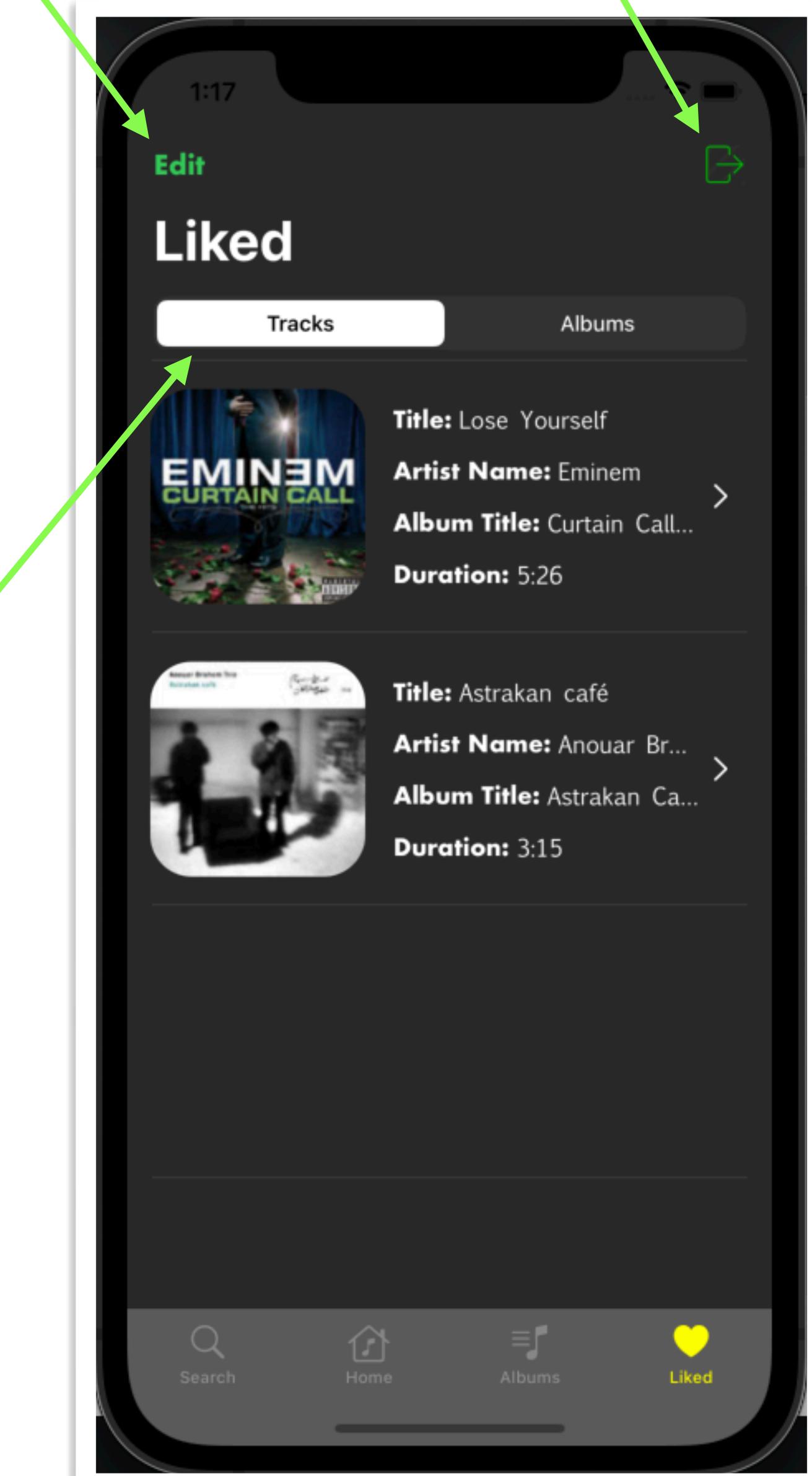
# Liked Screen

This is the liked screen, here you will find all your liked tracks/album you saved waiting for you to interact with, even if you reinstall the app they will still be here waiting for you.

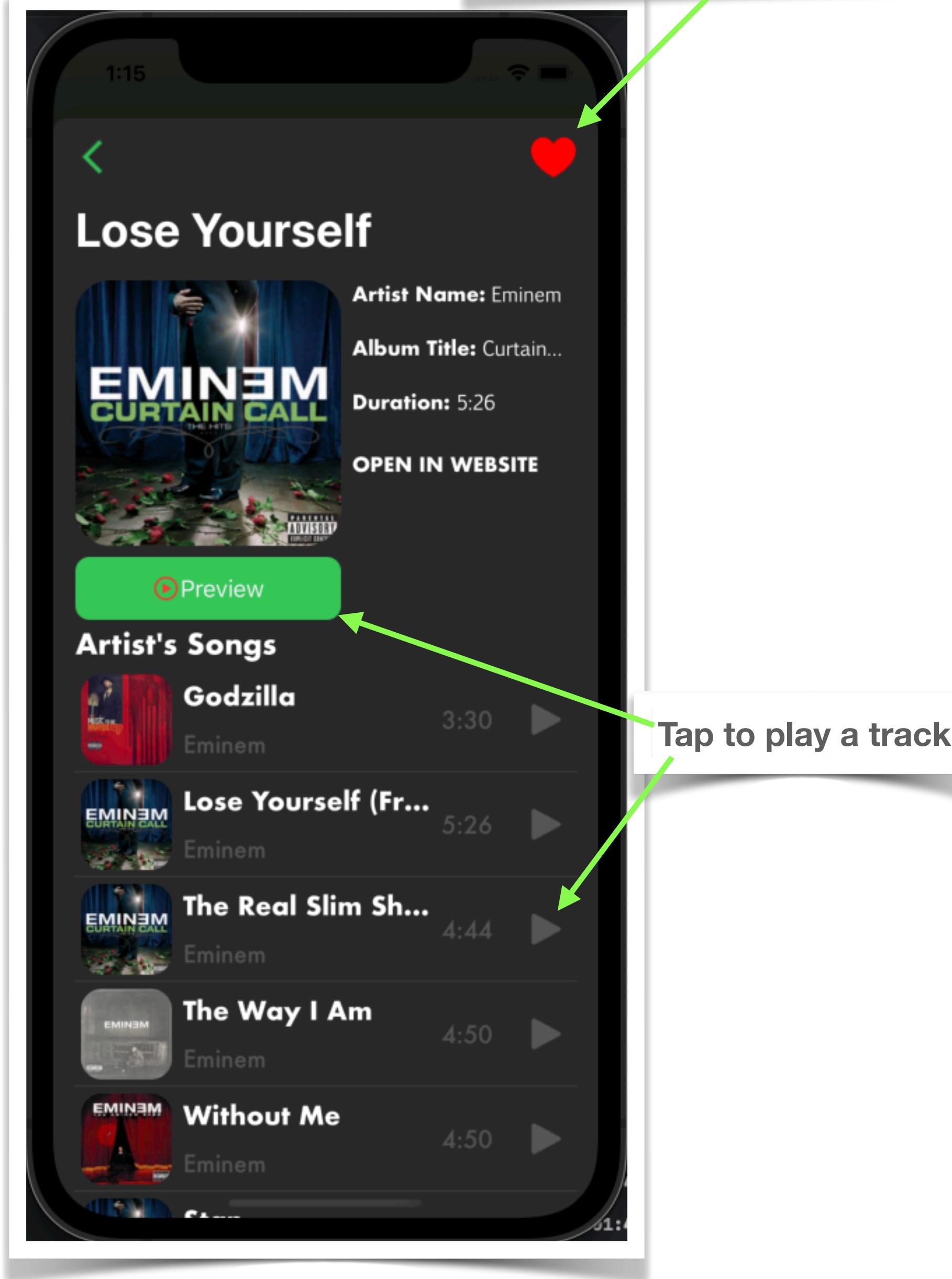
To remove the liked tracks/albums either by swiping the card or pressing the edit button.

Tapping here will switch between the liked tracks and liked albums

Tap to logout



By Tapping the heart button, it will add the track to the liked screen, and it will notify the other screens about this change via the NotificationCenter, and will be added to a Firestore database.



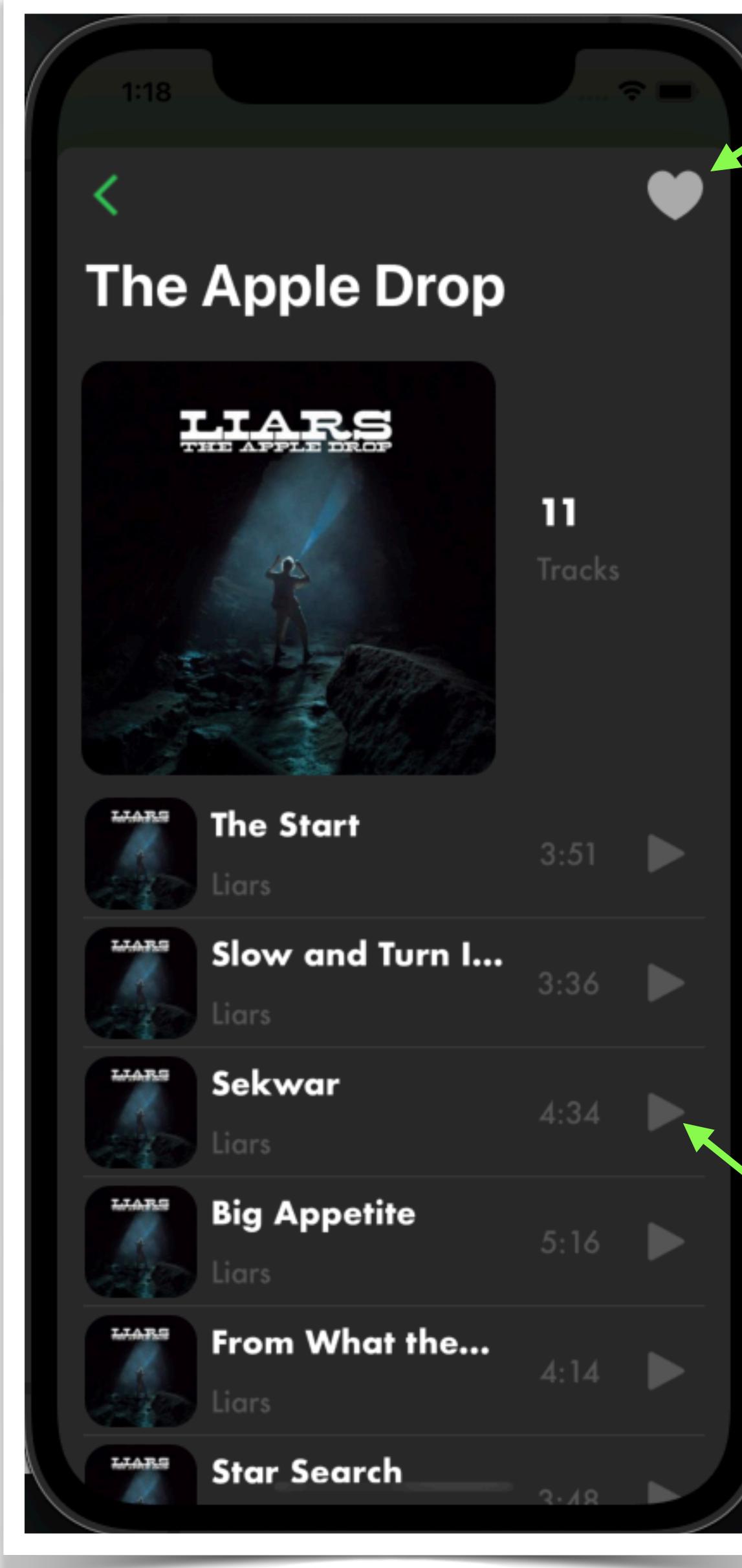
## Track Details Screen

This is the details screen, to get here just tap on any track card from any given screen.

Here you will find details about the track such as: the artist's name, album's title, artist's songs, duration and a link.

Also you can play a 30 seconds short preview by tapping the green button or the small play button.

To add/remove a track to/from the liked screen, just tap the heart icon.



By Tapping the heart button, it will add the album to the liked screen, and it will notify the other screens about this change via the NotificationCenter, and will be also added to the Firestore database.

## Album Details Screen

This is the album's details screen, to get here just tap on any album card either from the home screen/album screen.

Here you will find all the album's tracks.

You can also play a 30 seconds short preview by tapping the small play button.

To add/remove an album to/from the liked screen, just tap the heart icon.

Tap here to play a track.

# Settings Screen

This is the settings screen, it was built using SwiftUI.

Here you can contact the developer via his facebook, twitter accounts or by sending him an email.

Tapping the profile icon will let you edit the profile image by selecting a new image from the gallery.



# Technologies Used For This Project:

- FireBase Authentication
- FireStore Database
- UICollectionView(Compositional layout)
- UITableView
- MVC
- URL Session
- OOP
- Singleton
- Auto Layout
- Reachability
- SwiftUI
- JSON Decodable, manual decoding
- Protocols
- NotificationCenter
- UserDefaults
- ARC & preventing retain cycles
- Enums

# More About The Project:

- The Screen will adapt the auto layouts based on the current running device.
- The app consists of 12 screens(Loading, login, register and etc....).
- 8 Intro slides(Intro screen(UIViewController)).
- There's a connectivity checker that will check if there's an active internet connection at any given time.
- The app using both the Auto Layout and SwiftUI to display the screens.

## In Conclusion:

The app was created to help you find your favorite tracks quickly, or discover new tracks that you might be interested in by listening to, and decide whether to add them to your liked screen or not.

When you will decide you want to listen to that particular track you can look for that track in the provided Internet link or by finding the liked track/album in the liked screen.

So in short this app is a live database of tracks/albums to help you to get the latest information about a particular track/album.