

archived*

TM

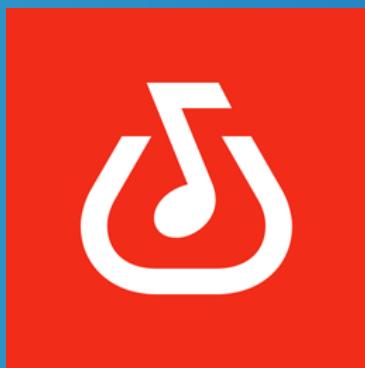
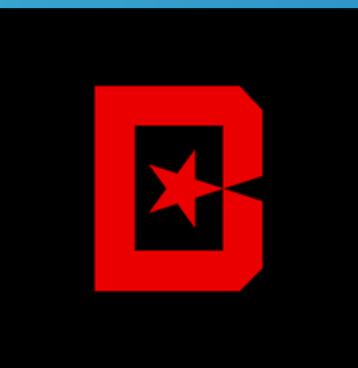
a mobile application built with Swift and Google Firebase to allow users to buy/auction/sell beats, opens, tracks as well as connecting with aspiring creators within the music community

Target audience: aspiring artists and producers who look to expand their fanbase, and users who seek to purchase unreleased tracks from well-known artists

User POV: a small independent producer who consistently makes beats but do not have a platform to promote it. With Archived, the producer can

- sell beats to artists in need**
- artists can send beat request to produce and offer a price for it in which the producer can accept/reject**
- other producers can reach out to collaborate together on a project**

Similar software: BeatStars, Bandlab



Purpose of Project

- To allow producers to sell beats and to collab with aspiring artists
- Provides a platform for “underground” artists to promote their music
- For artists to sell opens to other artists for features and collaboration
- For users to purchase unreleased music through group-buy

Why I'm interested

- Makes it easier for artists/producers who just started their career to boost their fanbase
- Provides a platform for producers/artists/users to build a niche community to meet fellow creators
- Music industry is a lucrative business
- From coding perspective: interested in building an auction bidding payment system

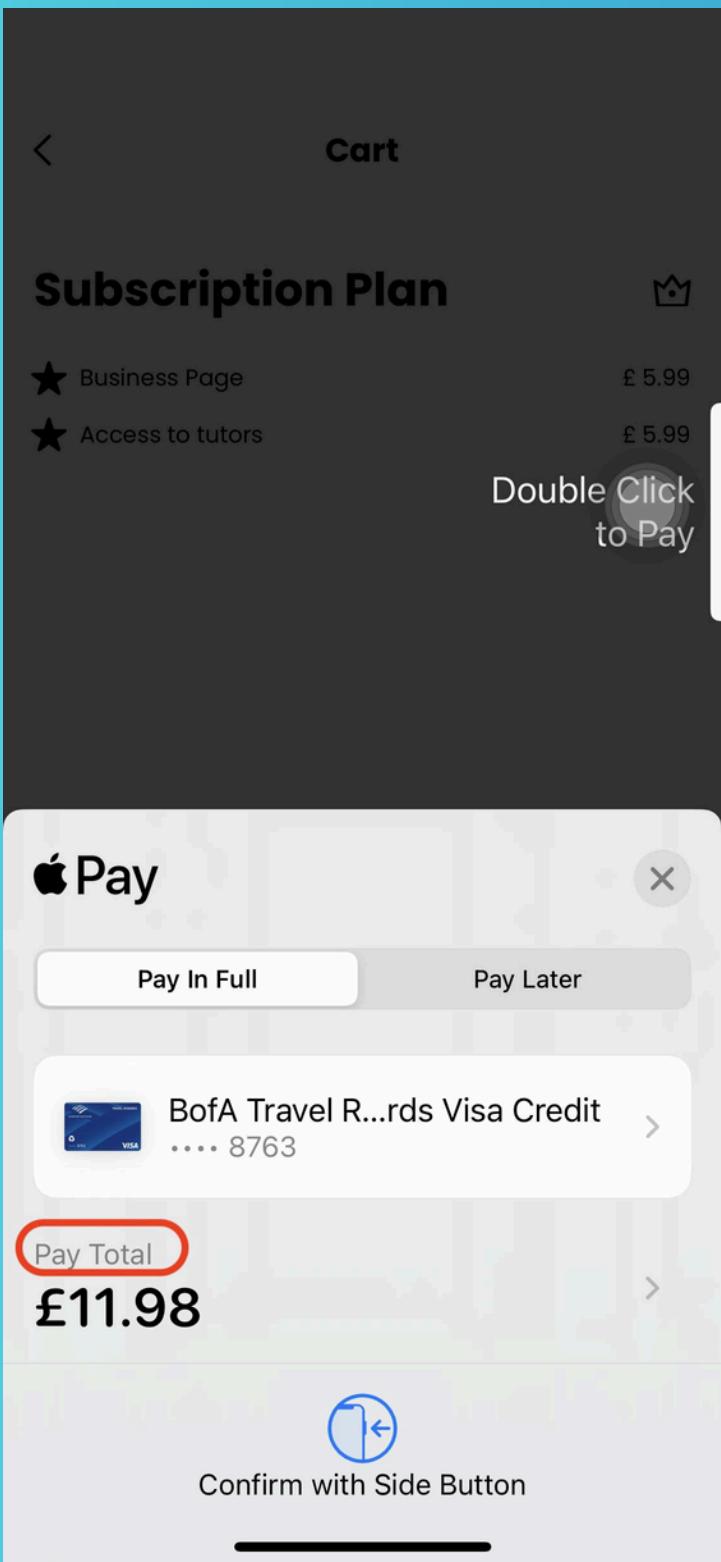
Techical Foundations

- **Inbox:** ability DM'ing fellow creators and users as well send request to other producers/artists
- Uploading cover art (jpeg/gif), music videos (in form of canva .mp4), audio (mp4/wav) and storing and displaying through Google Firebase
- Payment system (Apple Pay, ShopPay, PayPal, Venmo), bidding systems
ApplePay would be preferred payment method followed by PayPal as the backup method - includes instant buy and auction
- Maximizing profile customizations
- Machine learning based algorithm based on user searched history/listening history
- Potential integration with Bandlab/ FL Studio* (did not find a realistic implementation plan online)

Modules to Implement

- **Swift UI:** UI enhancement
- **SDWebImageSwiftUI:** for storing and display of GIFs
- **Google Firebase:** database for storing data of various forms
- **AVFoundation/AudioKit:** storing and displaying of audio; building own audio player UI
- **Waveform Visualization:** syncing with audio based on pitches and patterns
- **PKPaymentRequest:** for Apple Pay payment systems

PK Payment Request



Waveform Visualization



UndergroundDaily ▾

Storage

undergrounddaily-c51f7.appspot.com ▾

Need help getting started with Storage? Ask Gemini

Files

Rules

Usage

Extensions



Protect your Storage resources from abuse, such as billing fraud or phishing

Configure App Check



(i) Review changes to Cloud Storage for Firebase pricing plan requirements



[Learn more](#)

Dismiss

gs://undergrounddaily-c51f7.appspot.com > beats

Upload file



<input type="checkbox"/>	Name	Size	Type	Last modified
<input type="checkbox"/>	coverArt/	—	Folder	—
<input type="checkbox"/>	(free) Kankan x 30nickk angelic Pluggnb Type beat arranged.mp3	2.86 MB	audio/mpeg	Jan 27, 2025
<input type="checkbox"/>	2hollis Type Beat - Mercury.mp3	2.45 MB	audio/mpeg	Jan 24, 2025
<input type="checkbox"/>	[FREE] layze x Devstacks Type Beat - 'Pegasus'.mp3	2.83 MB	audio/mpeg	Jan 26, 2025

[Panel view](#)[Query builder](#)[Home](#) > beats > MvwsK5zhfA82..[More in Google Cloud](#) ▾

(default)

[+ Start collection](#)

beats

threads

users

beats

[+ Add document](#)

MvwsK5zhfA82cxRw2V2N

cUQpRIbRS0sLcaVys7iH

1sGSxpCoh5Tb45hRoFBR

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MvwsK5zhfA82cxRw2V2N

[+ Start collection](#)[+ Add field](#)

beatArchives: 0

beatComments: 0

beatLikes: 0

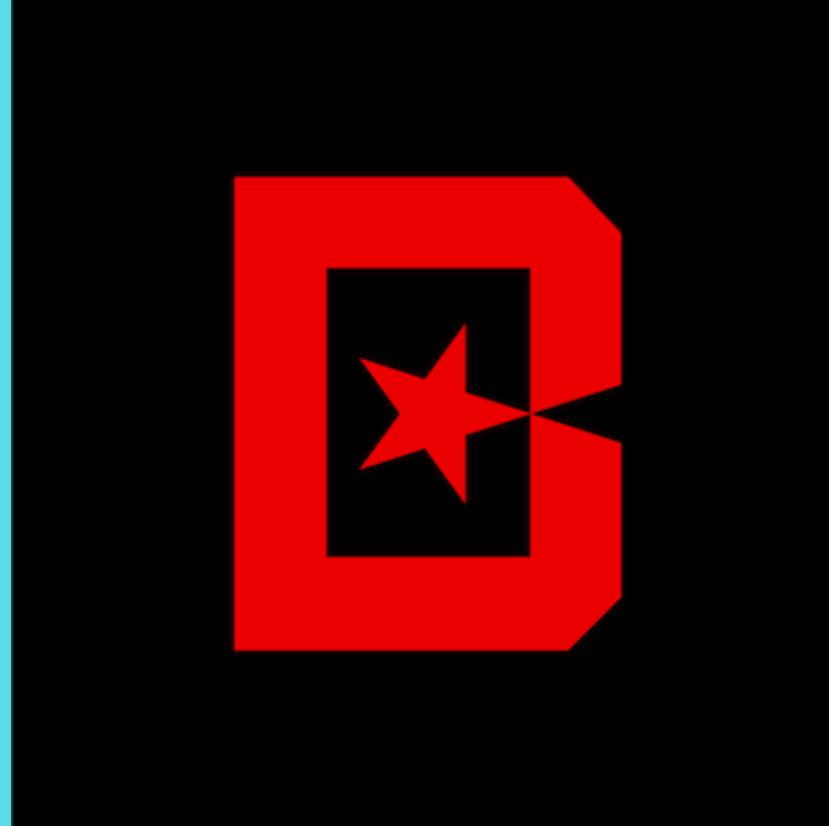
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beatStreams: 0

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fileName: "[FREE] layze x Devstacks Type Beat - 'Pegasus'.mp3"

fileURL: "https://firebasestorage.googleapis.com:443/v0/b/underground-beats-c51f7.appspot.com/o/beats%2F%5BFREE%5D%20layze%20'Pegasus'.mp3?alt=media&token=257a9f22-1660-0000-0000-000000000000"



2:03 ↗

Sales

Marketplace Pro Page Players Widgets

71	\$3,639.95
Items Sold	Gross
\$30	\$0
Discounts	Collab %
\$3,609.95	\$304.93
Net Sales	Collab Sales

TOP SELLING ▾

PRODUCTS	
County (prod.Kaz The God)	>
Track • Earned \$825	
Town (Prod.Kaz The God)	>
Track • Earned \$735	
Reciever (Prod.Kaz The God)	>
Track • Earned \$180	
Something 89bpm	>
Track • Earned \$160	
Inspect (Prod.Kaz The God)	>
Track • Earned \$120	

Packs Loops One-Shots

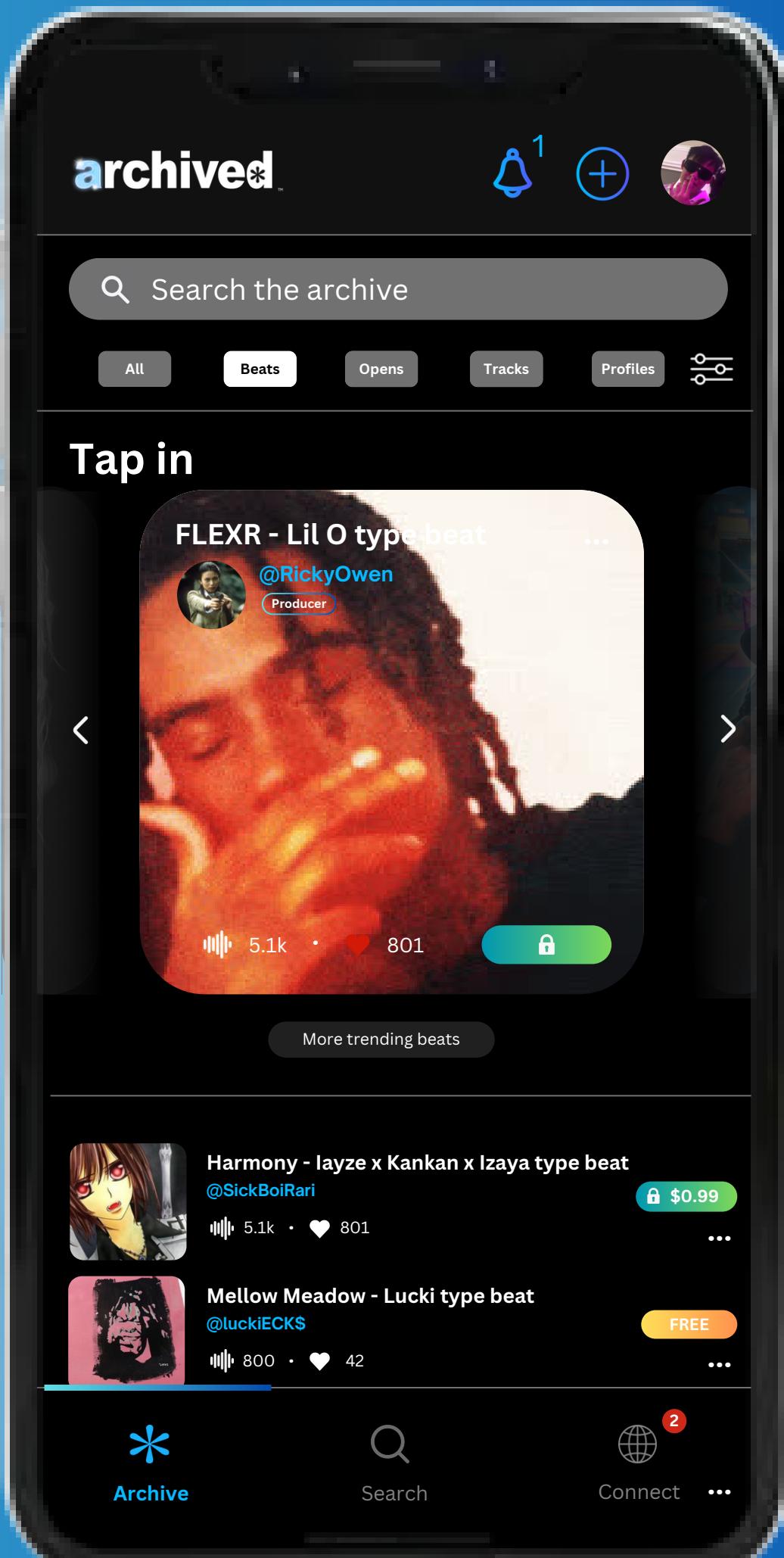
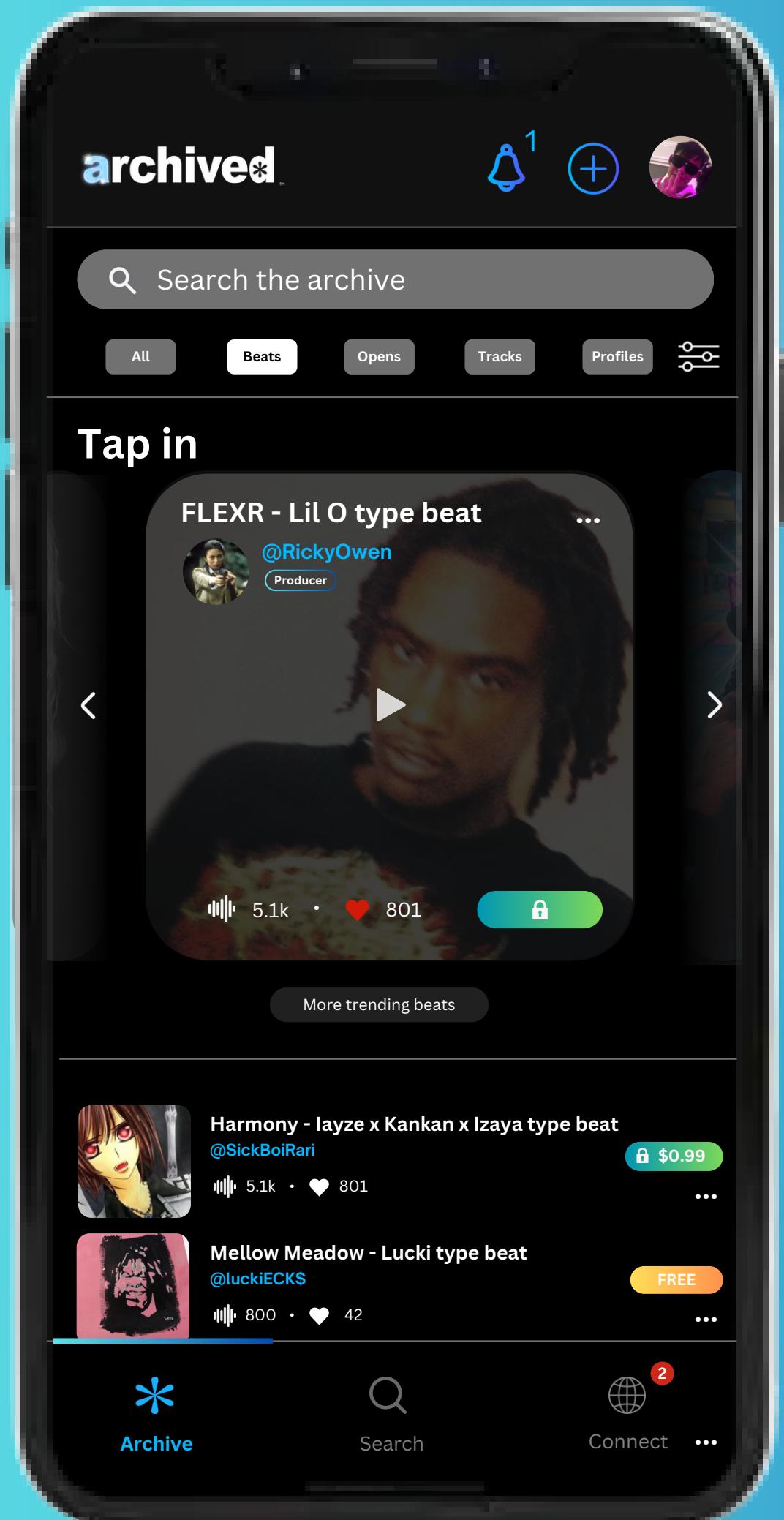
2120 Packs

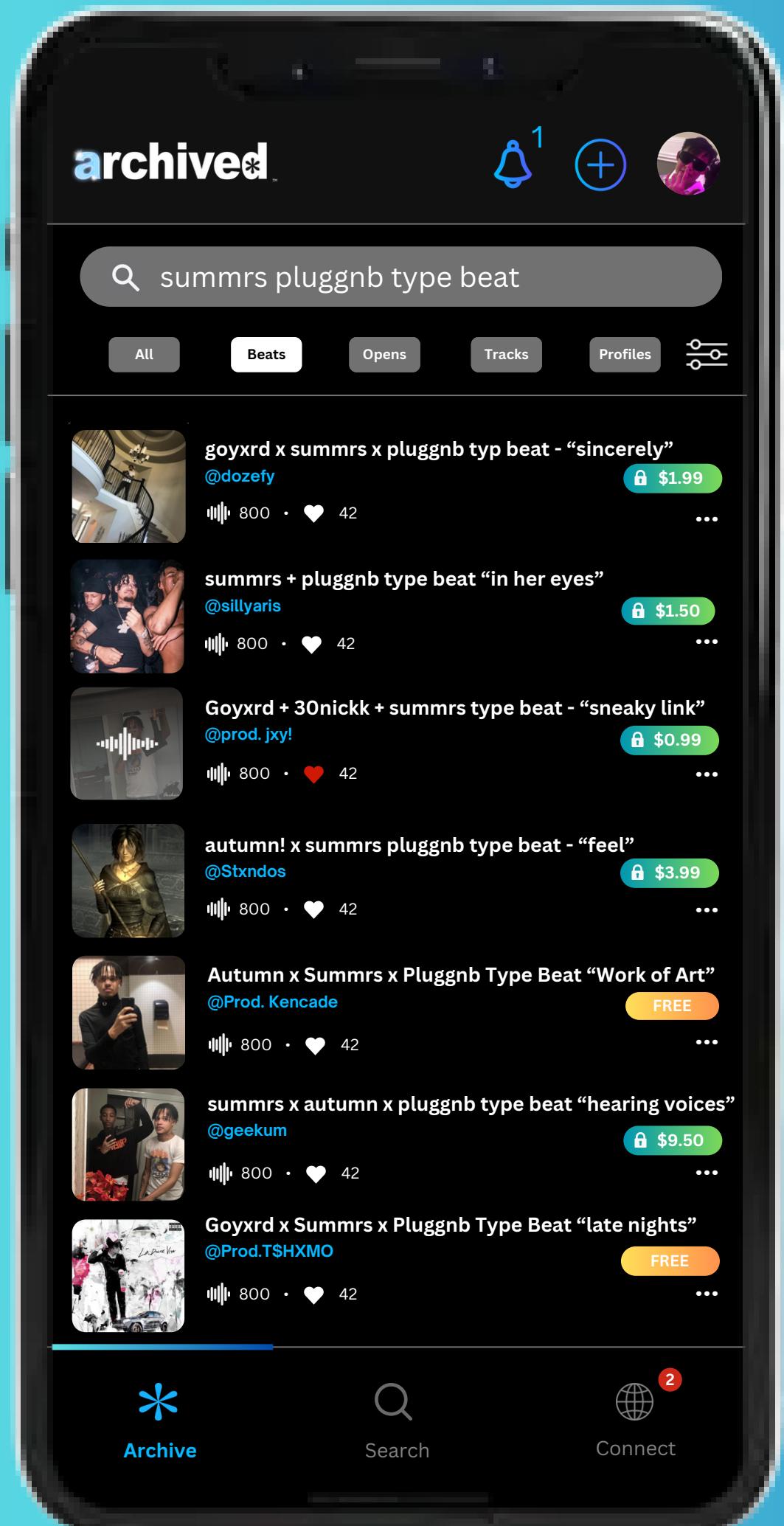
Newest

Fo'Real Beatz: Trap Breaks Vol. 5	100 samples • Trap	☆
Jagged Tones Studio: Modern Post Punk Bass	104 samples • Rock	☆
Nu-Disco Construction	101 samples • Disco	☆
Fo'Real Beatz: Bulletproof Trap Vol. 3	73 samples • Trap	☆
Brat Pop	100 samples • Pop, Electronic	☆

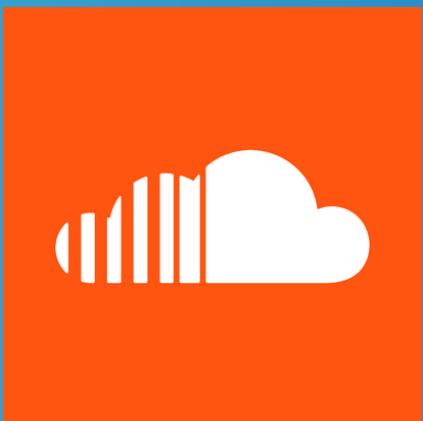
App UI Design Planning using Canvas

Beats in



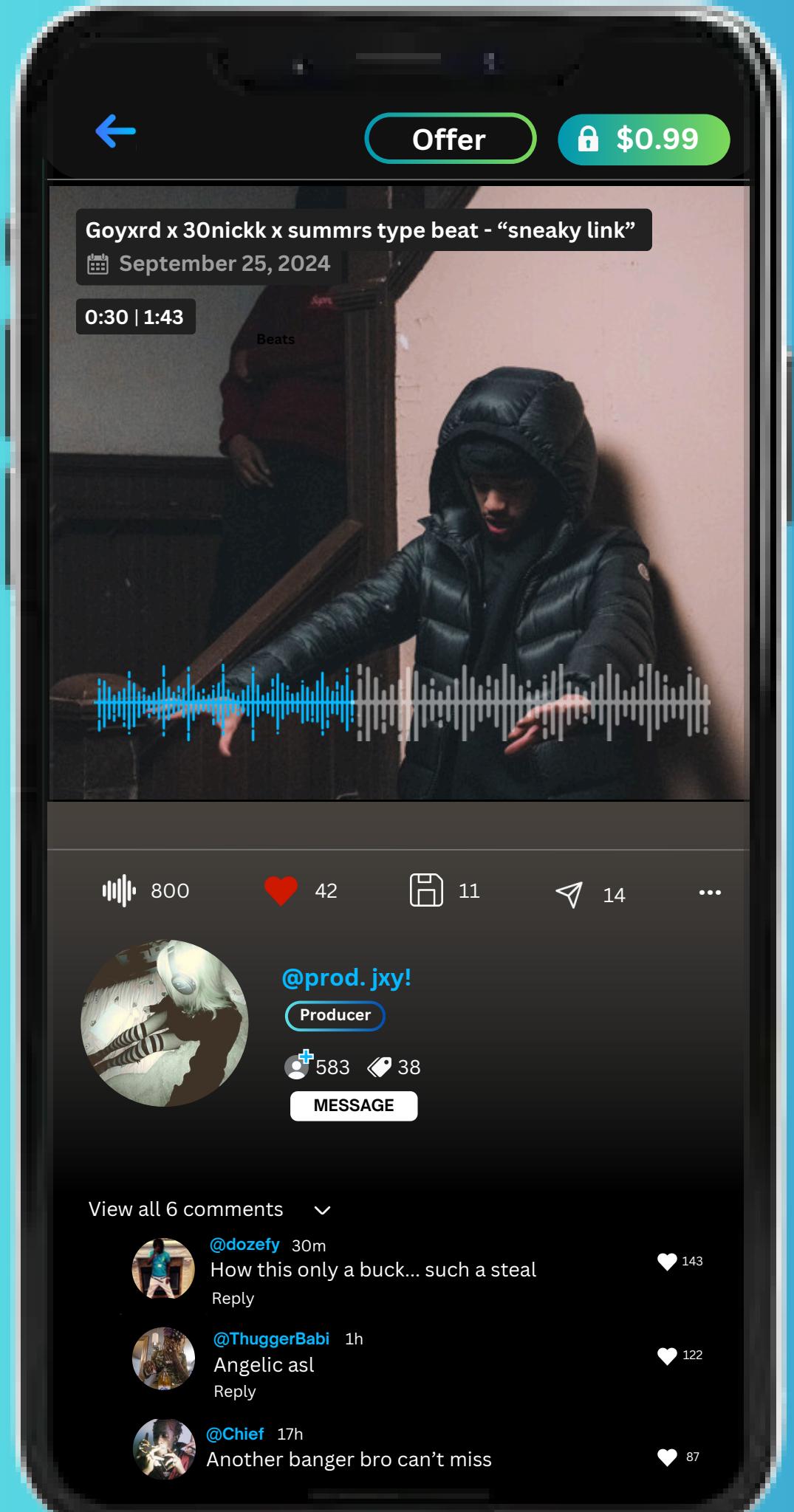


- Automatically sorted by popularity, recency, and relevance
 - Most listened to/liked songs at top
 - Combined with factor of recency/date



modeled after Soundcloud UI design

Beats in

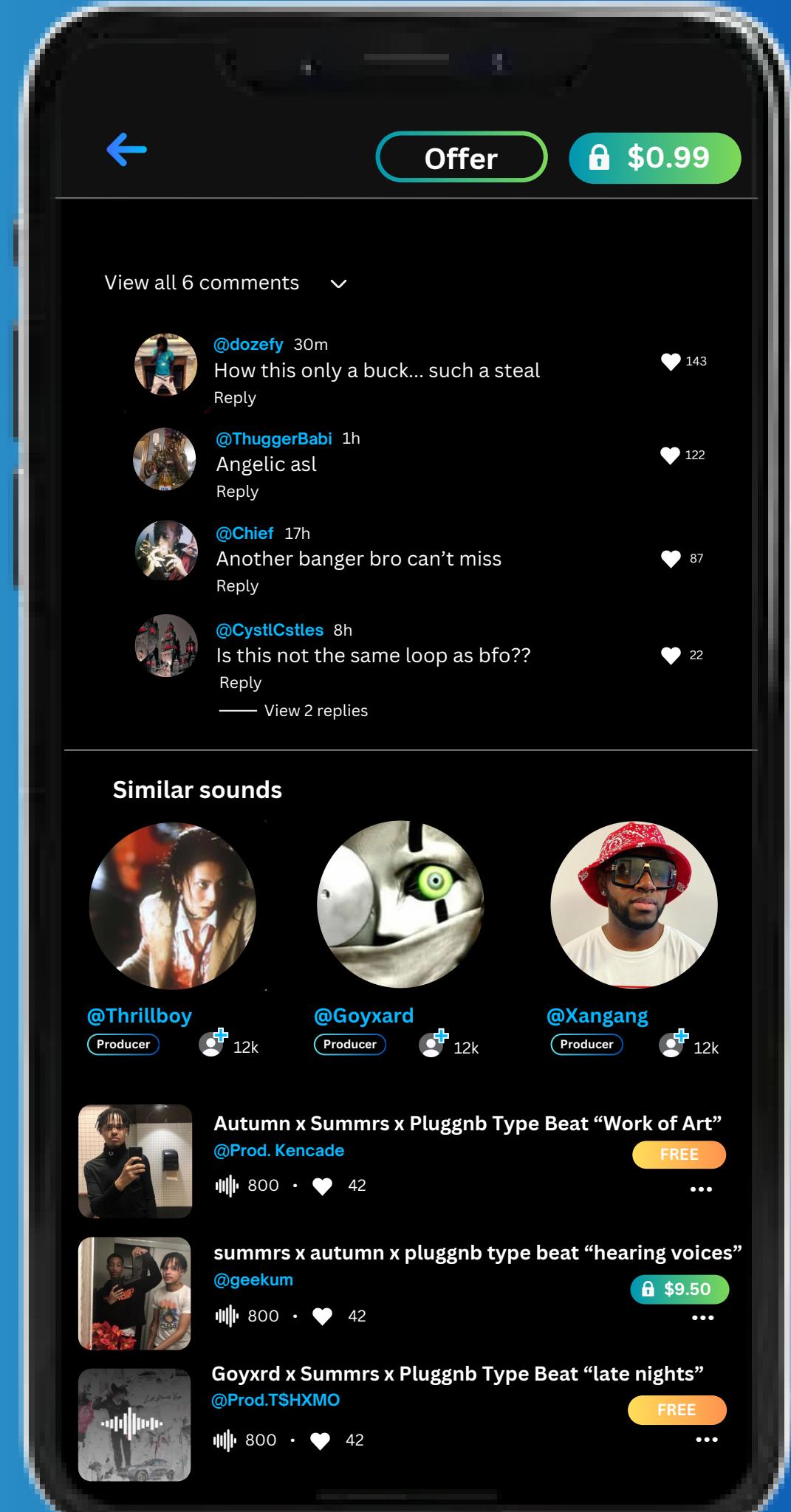


involves
machine
learning-based
algorithm to
suggest similar
artists and
tracks

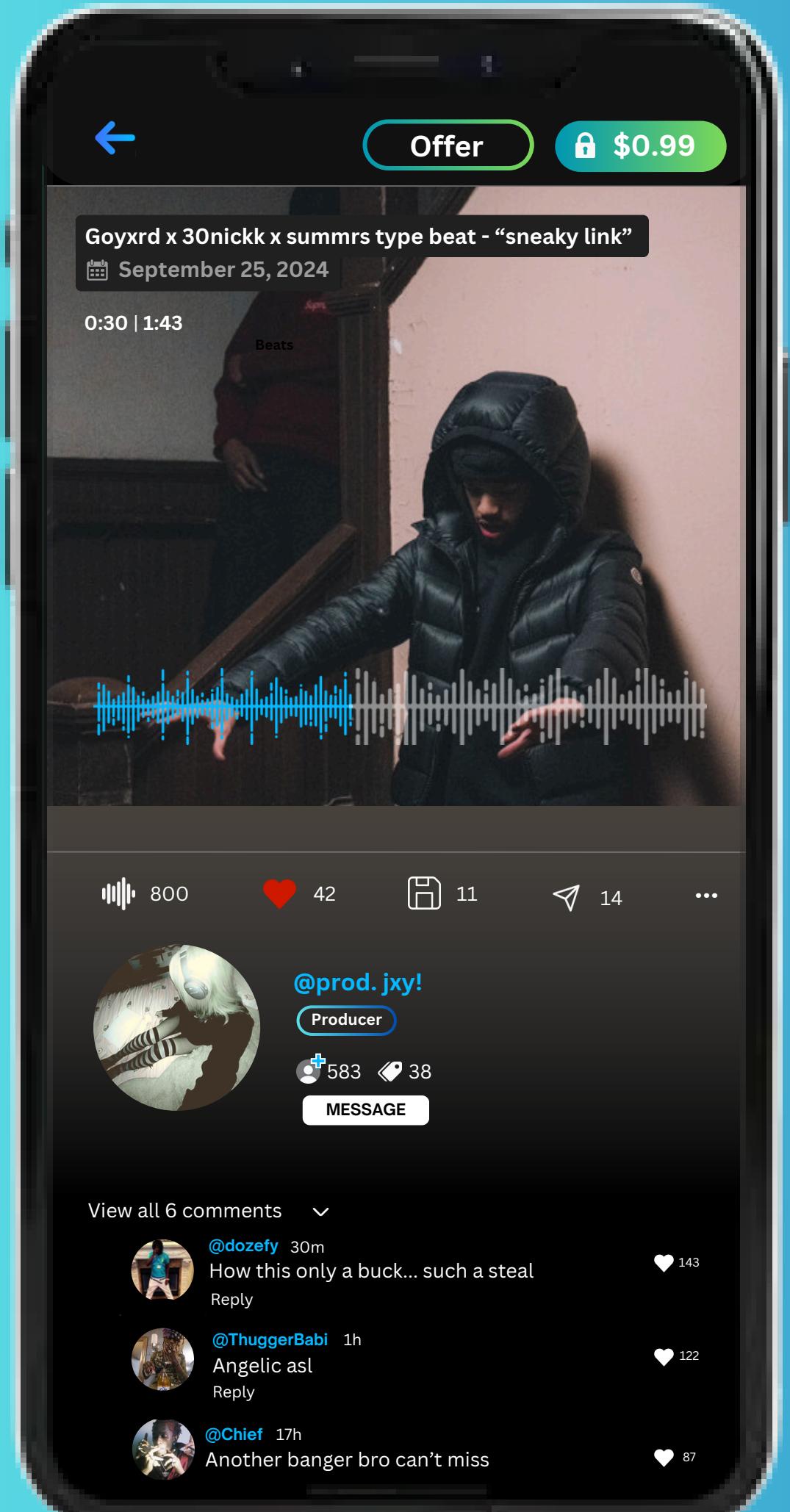
Downward scroll action



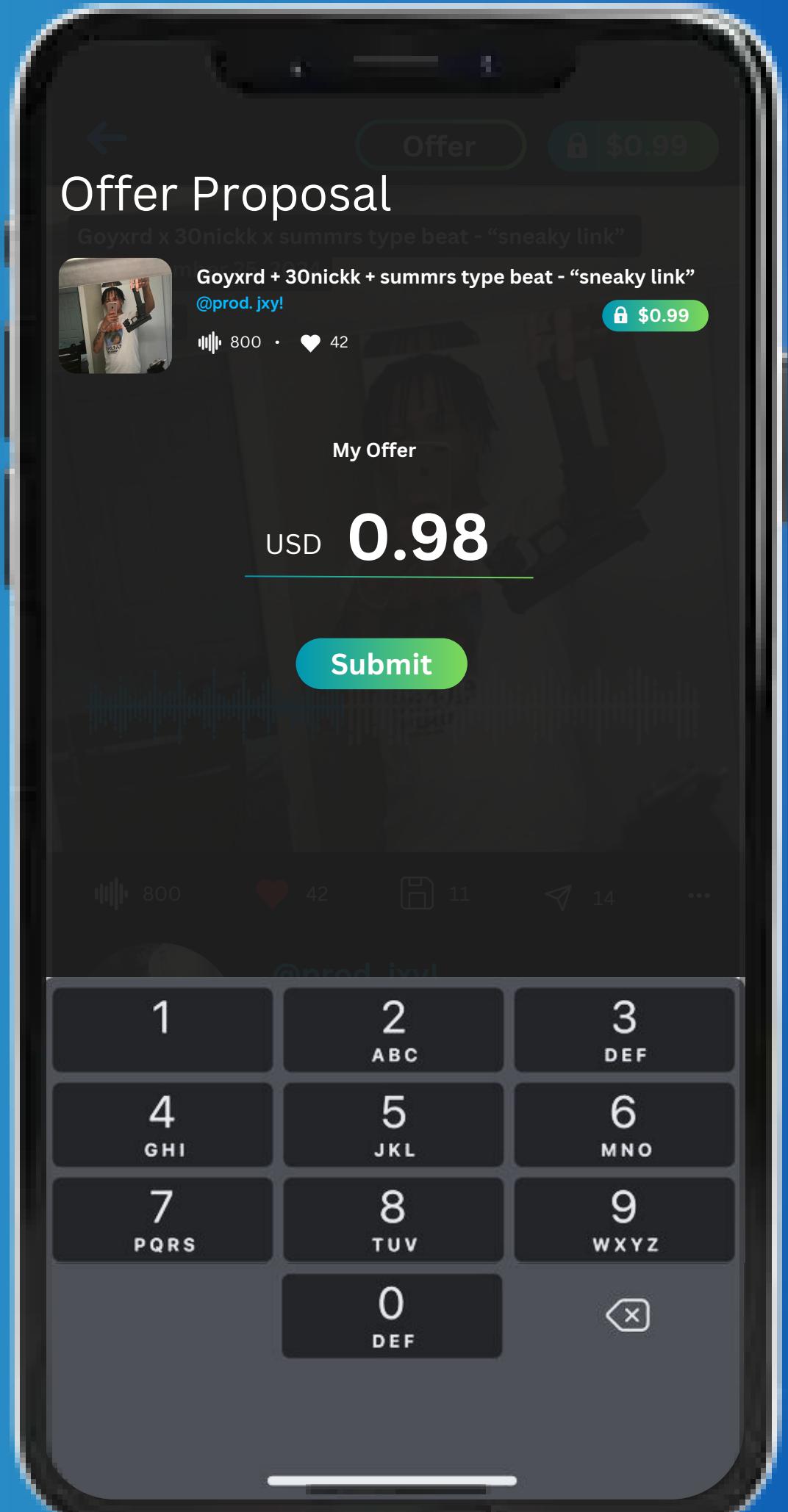
involves
waveform
visualization, as
well as option
to buy tracks
and bidding

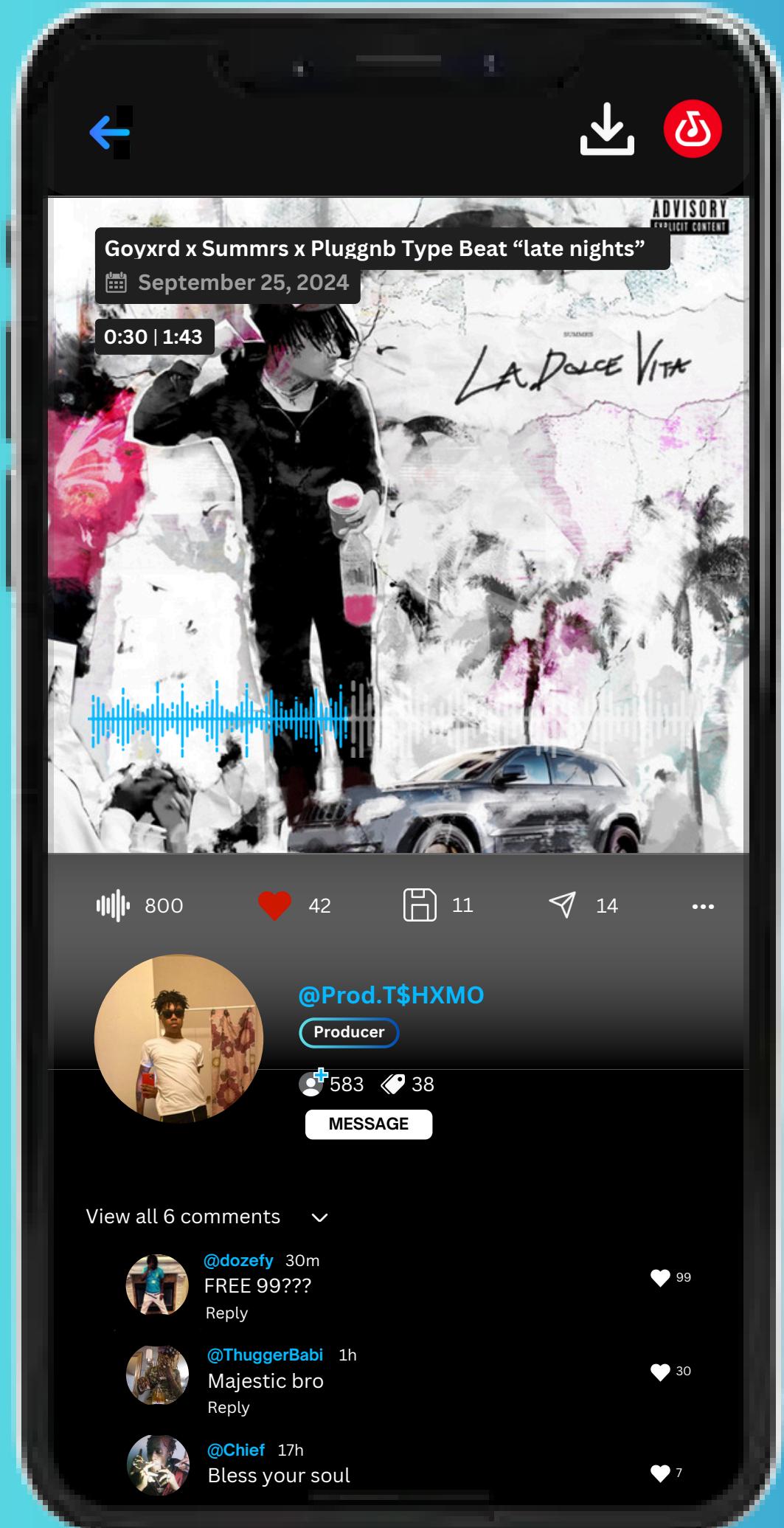


Offer Beats UI



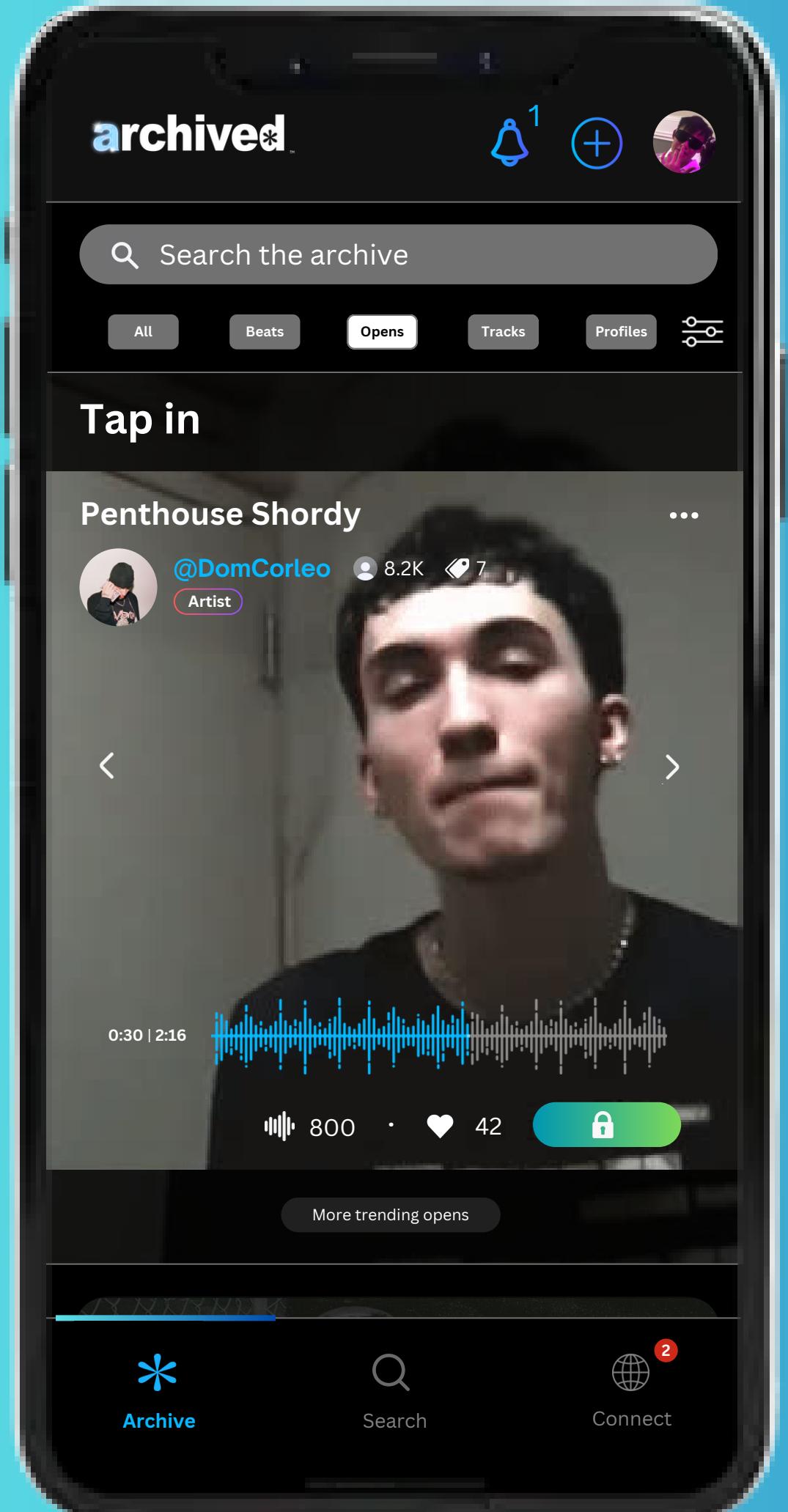
Buyer offers instead of
buy immediately



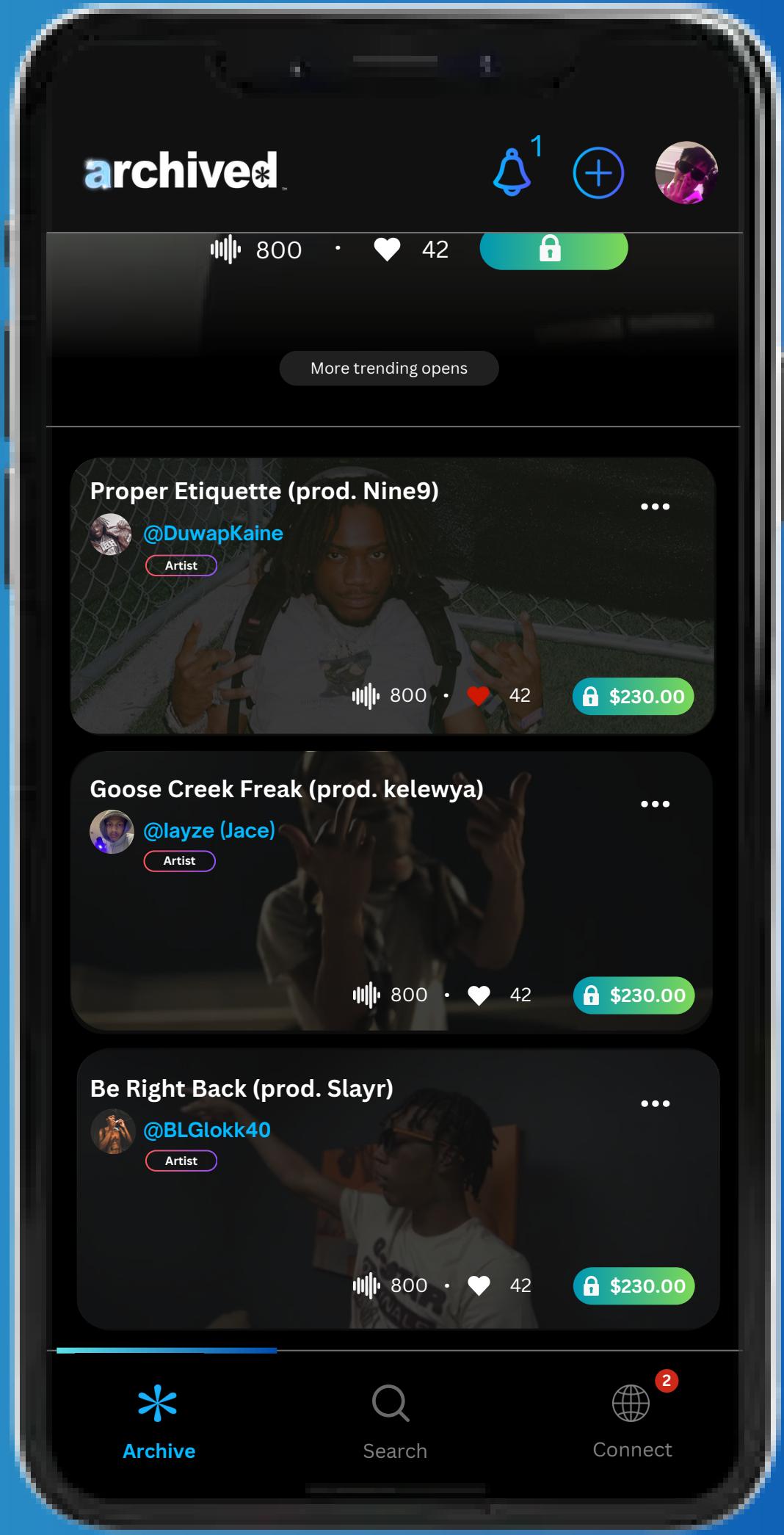


download button allows user to download the beat, lease license and lease agreement

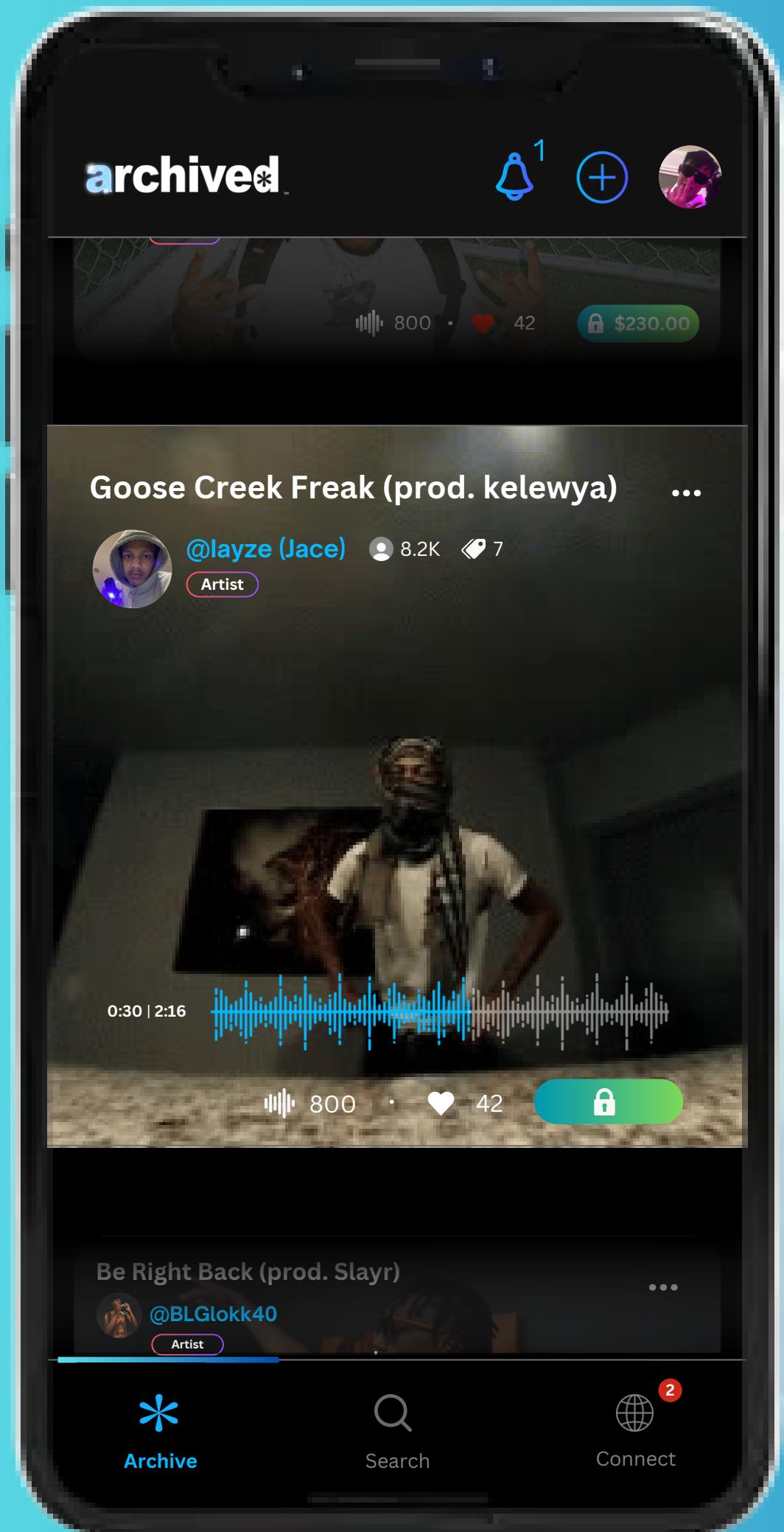
OpenSued UI



Downward scroll action



Opened UI

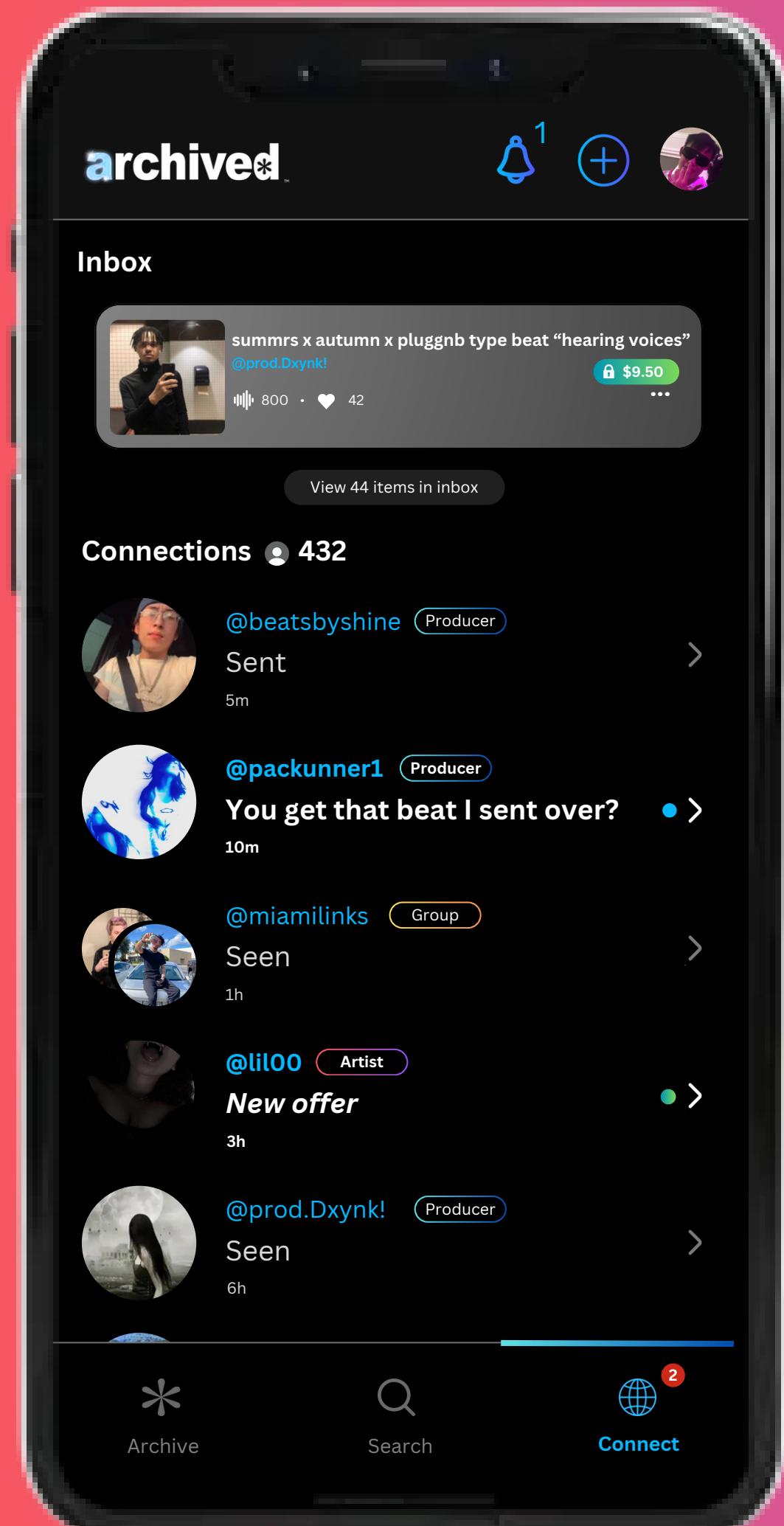


- Open expands to large square view when clicked by user
 - Opacity turns off
 - Soundcloud-like audio bar appears with time stamp



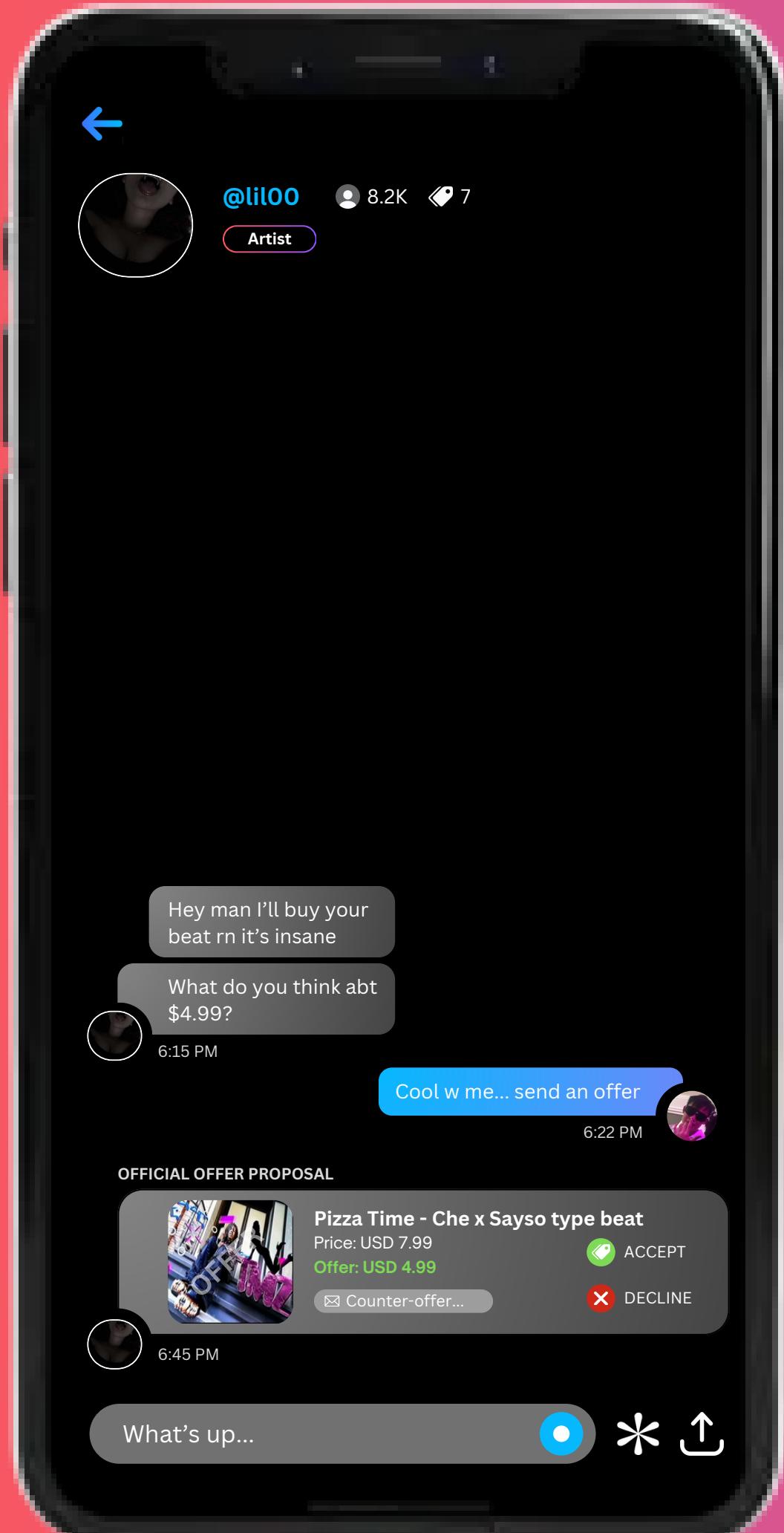
**modeled after TikTok UI design
and implement machine-
learning based algorithm
based on user search history,
purchase history, and listening
history**

Connections UI

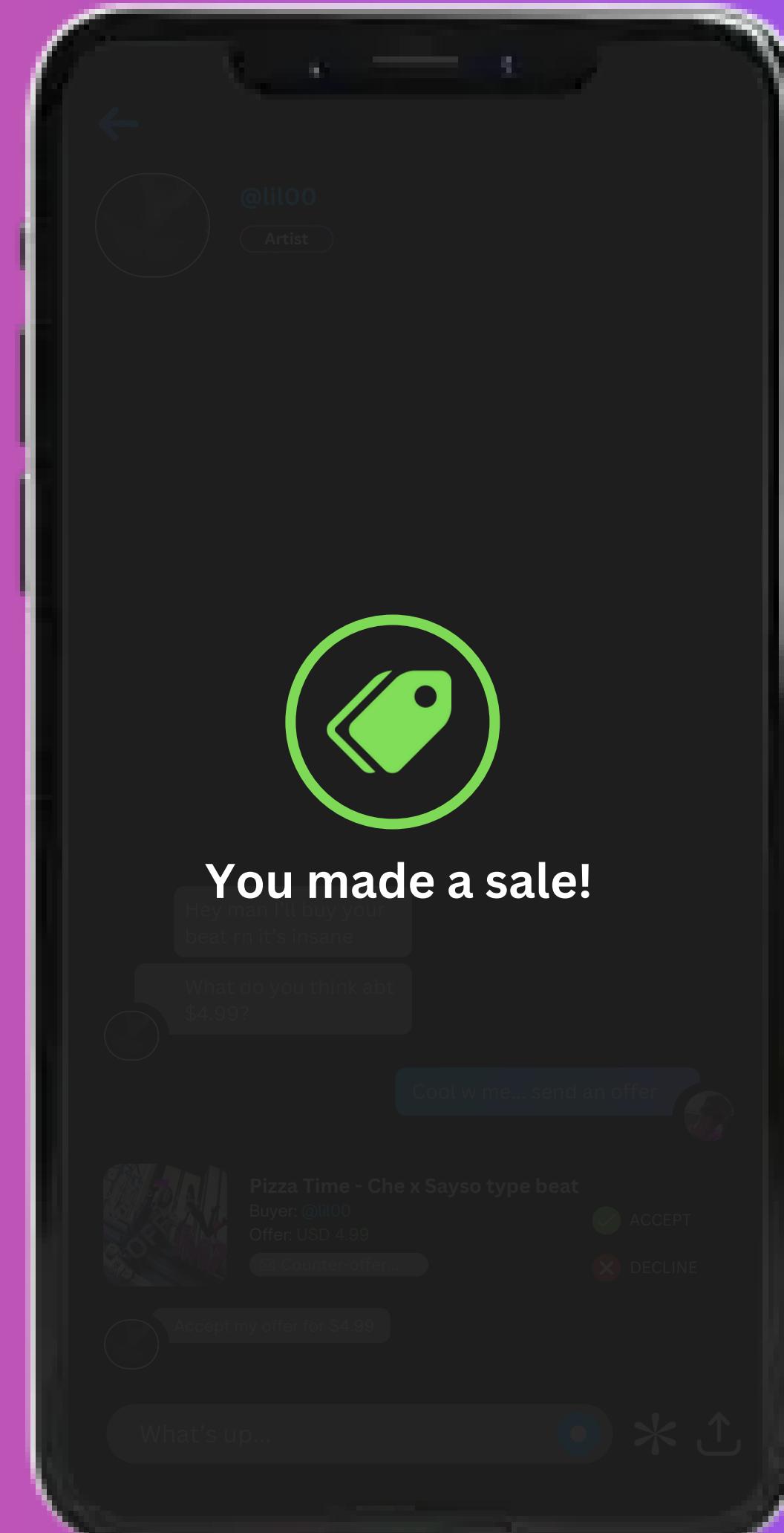


Inbox: allow users/artists/producers to submit request
Connections: allows connecting with fellow
producers/artists to collaborate and purchase tracks/beats

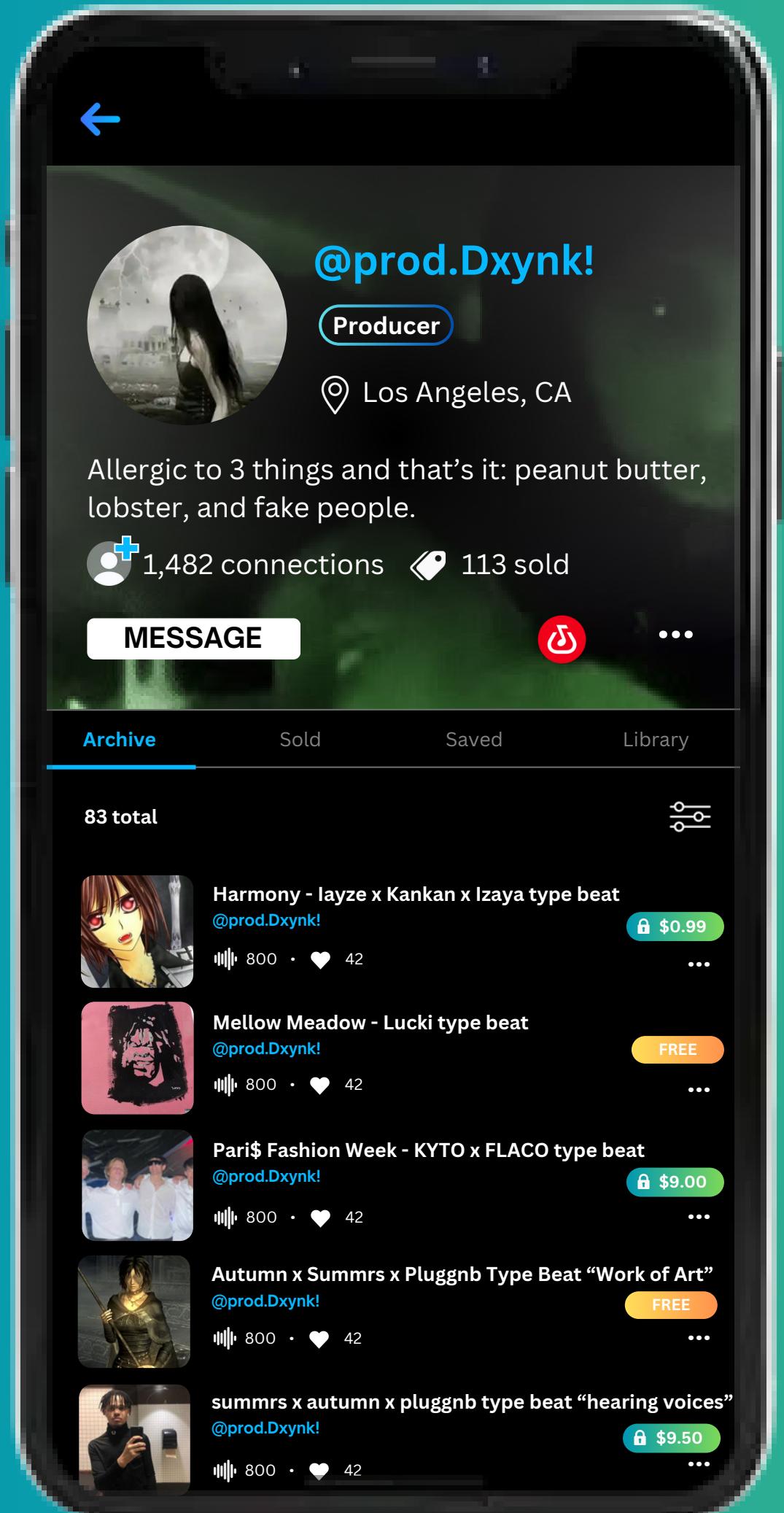
in Connections Chat



Seller accepts offer



Producer Profile UI-Archives

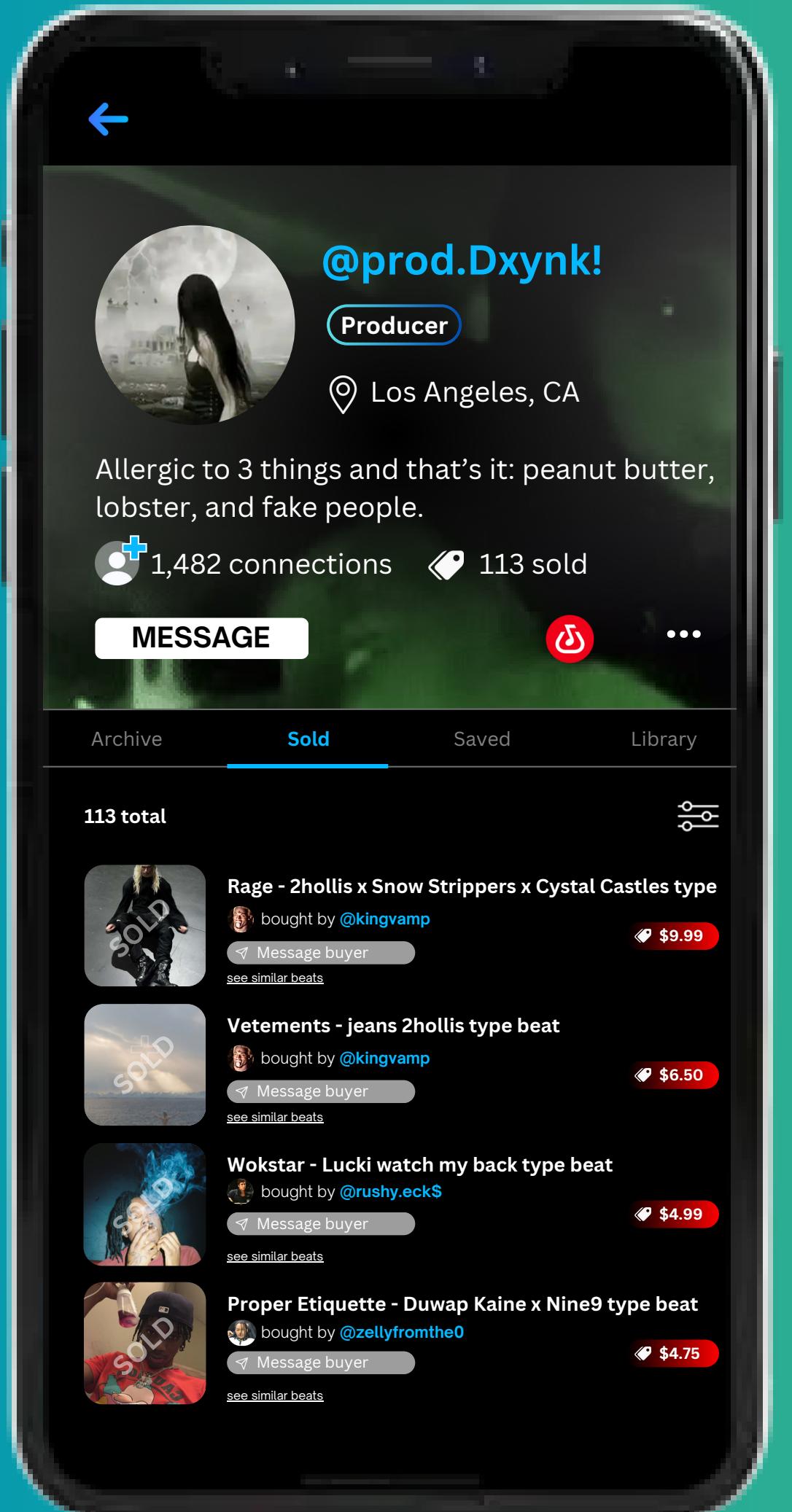


Components include

- profile picture
- username
- status - producer/artist
- location
- bio
- followers
- follow button
- message button
- background theme - png, jpeg, or gif

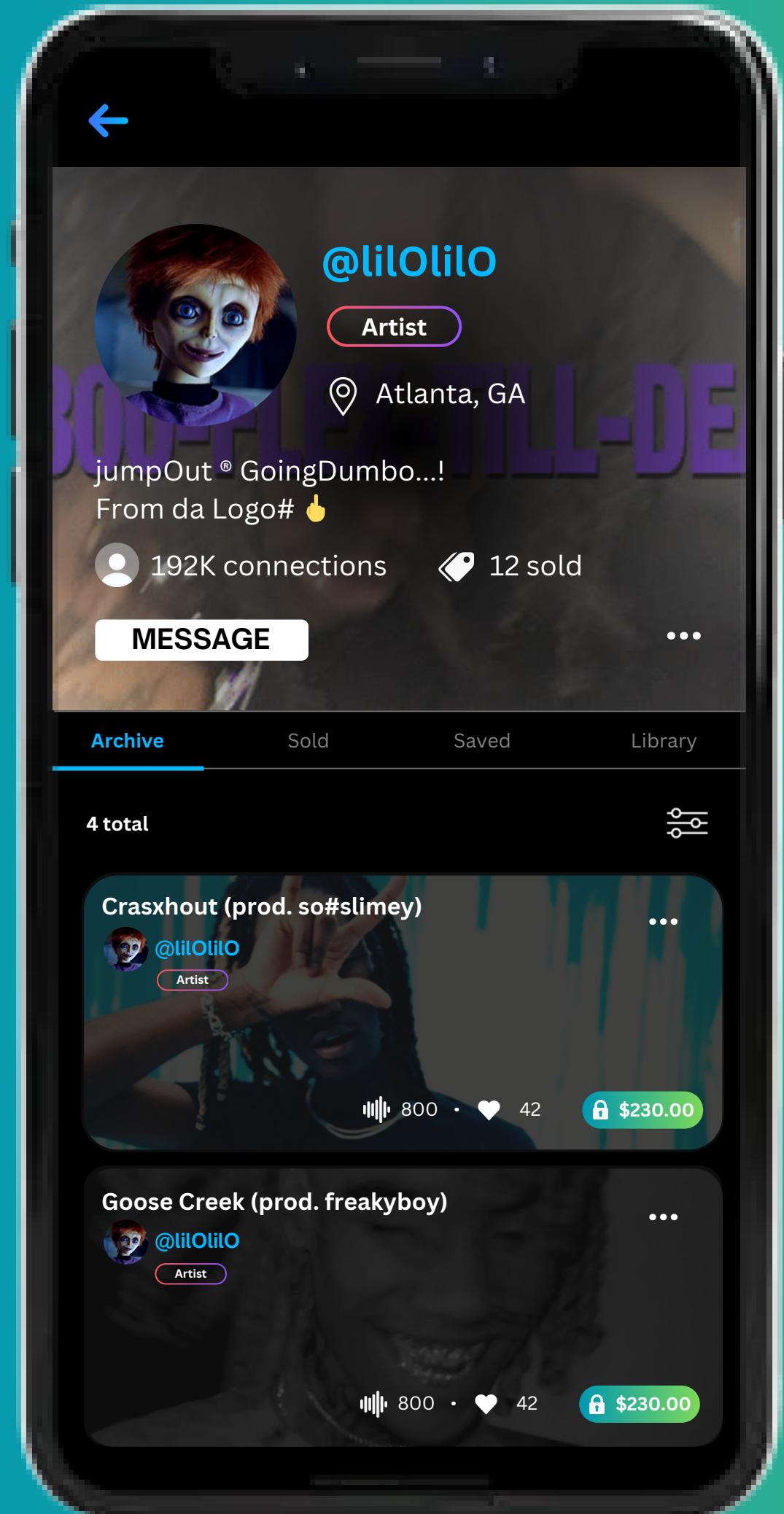
Producer Profile UI

Sold



- Beat cover
- Beat name
- Buyer name
- Purchase price
- Message buyer

Artist Profile UI



If all these are done and I have extra time before the semester ends:
I'll develop Archived Premium Membership allowing:

- Artist/Producer Insights
- Track Earnings
- extra profile customization

Potential Challenges

- Machine learning based algorithms based on BPM, beat style, subgenres (such as PLUGGNNB, New Jazz)
- Legal constraint with beat's lease agreements (for unreleased/leaks)

Any Questions?