

BANKAI - JUKEBOX

Documentation Phase

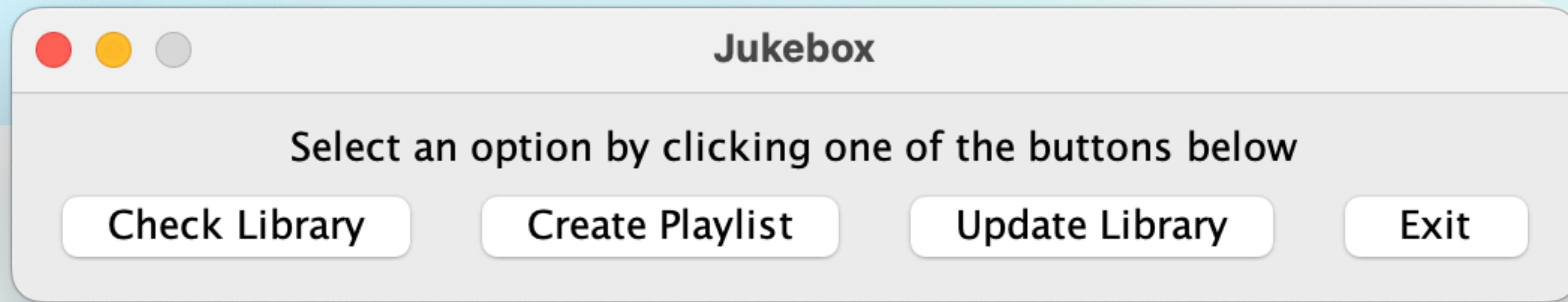
Friday, 5 April 2024

The Team (Usual Suspects)

- Kevin Nyende Omyonga (Dr. KNO)
- Billy Nelson Omingo (DJ Kutah)
- Leonard Ochieng Omondi (Man Leo)
- Wellington Wekesa Luvonga (WelliWelu)
- Brian John Onsati (Brainiac)

How It Started

Initial Design



How It Is Going

Library

Bankai Jukebox

Songs

Add	Artwork	Title	Album	Artist	Plays	Last Played	Select
(+)		faint	meteora	linkin park	97	28/03/2024 22:12:39	<input type="checkbox"/>
		what i've done	minutes to midnight	linkin park	25	28/03/2024 22:12:53	<input type="checkbox"/>
		Mortal Combat Theme	Unknown Album	Mortal Combat	4	22/03/2024 19:32:13	<input type="checkbox"/>
		in the end	hybrid theory	linkin park	12	22/03/2024 19:32:15	<input type="checkbox"/>
		crawling	hybrid theory	linkin park	11	22/03/2024 19:35:21	<input type="checkbox"/>
		The Requiem	A Thousand Suns	Linkin Park	4	22/03/2024 03:27:55	<input type="checkbox"/>
		numb	meteora	linkin park	27	04/04/2024 23:26:20	<input type="checkbox"/>
		wake	minutes to midnight	linkin park	1	22/03/2024 19:32:24	<input type="checkbox"/>
		hit the floor	meteora	linkin park	1	22/03/2024 19:28:55	<input type="checkbox"/>

LIBRARY

- Songs
- Albums
- Videos

PLAYLISTS

- My Playlists
- Shared Playlist
- Favourites

RADIO

- Channels
- Recordings

MORE

- Settings
- About

Logout

Exit

Add Play All

linkin park
faint
meteora

0:56 2:42

Volume slider

Albums

Bankai Jukebox

Albums

The screenshot shows the 'Bankai Jukebox' application interface. On the left, a sidebar menu titled 'LIBRARY' contains sections for 'Songs' (selected), 'Albums' (selected and highlighted with a blue border), and 'Videos'. Below these are 'PLAYLISTS' (My Playlists, Shared Playlist, Favourites), 'RADIO' (Channels, Recordings), and 'MORE' (Settings, About, Logout, Exit). In the main content area, the title 'Albums' is displayed above four album covers for Linkin Park: 'meteora' (black and white photo of a person on a bridge), 'minutes to midnight' (silhouettes of five people standing in water), 'Unknown Album' (red and black circular logo), and 'hybrid theory' (red and black abstract design). At the bottom, a footer bar displays the currently playing song 'linkin park faint meteora' and a control panel with icons for shuffle, previous, play/pause, next, repeat, volume, and a progress bar from 1:06 to 2:42.

LIBRARY

Songs

Albums

Videos

PLAYLISTS

My Playlists

Shared Playlist

Favourites

RADIO

Channels

Recordings

MORE

Settings

About

Logout

Exit

linkin park
faint
meteora

meteora

minutes to midnight

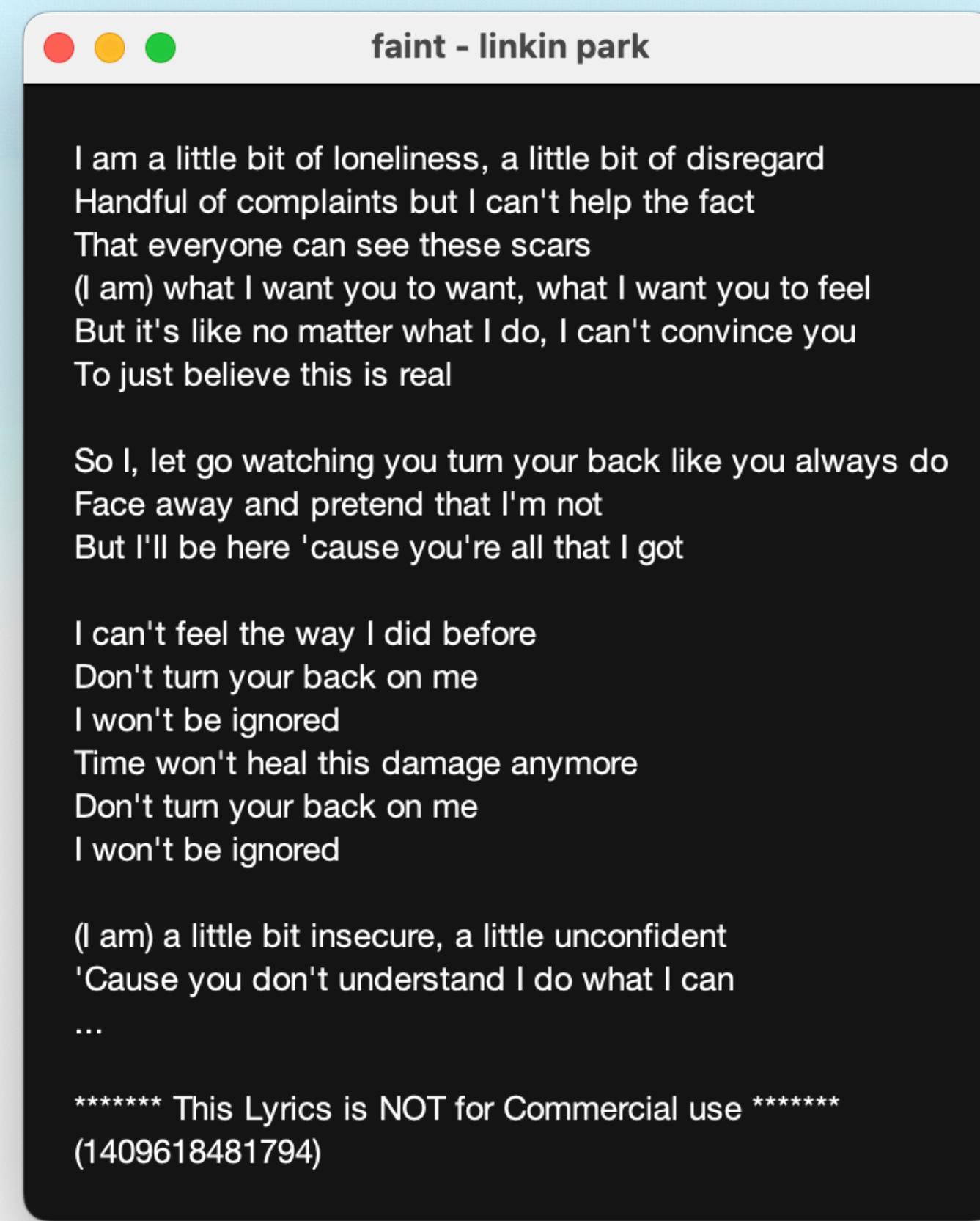
Unknown Album

hybrid theory

A Thousand Suns

1:06 2:42

Lyrics



Radio Channels

Bankai Jukebox

Radio Channels

The application interface includes a sidebar with navigation links for Library (Songs, Albums, Videos), Playlists (My Playlists, Shared Playlist, Favourites), Radio (Channels, Recordings), More (Settings, About), Logout, and Exit. At the bottom, there are track controls for 'linkin park' (faint, meteora) and volume controls.

- Kiss 100 FM
- Classic 105
- Capital FM (Nairobi)
- NRG Radio
- Family Radio 316 (Nairobi)
- XFM 105.5 (Nairobi)
- Hot 96
- Radio Jambo
- Ghetto Radio 89.5 FM
- Hope FM 93.3
- KBC English Service
- Kass FM

Start Stream | Stop Stream | Record Stream

linkin park
faint
meteora

98.4 Capital FM

105.5 Xfm Real Music

HOT 96 All time Hits!

RADIO JAMBO

GHETTO RADIO 89.5FM GHETTORADIO.CO.KE

HOPE FM Listen and Live

KENYA BROADCASTING CORPORATION KBC

Kass FM KIMNATE NAEET

Videos

Bankai Jukebox

Videos

LIBRARY

- Songs
- Albums
- Videos**

PLAYLISTS

- My Playlists
- Shared Playlist
- Favourites

RADIO

- Channels
- Recordings

MORE

- Settings
- About

Logout

Exit

Fireboy DML & Ed Sheeran - Peru

Imagine Dragons - Bones (Official Video)

KISHASH FT NDOUVU KUU [OFFICIAL VIDEO]

Nerih - Pas Le Temps (Clip officiel)

One Piece Opening 10 - Share the Future

AV - CONFESSION (OFFICIAL VIDEO)

Zuchu - Honey (Official Music Video)

Bensoul x Bien - Thick Thighs (Official Video)

Alikiba & Tommy Flavour - Huku

STARBOY Ft L A X & Wizkid - Cool

Rayvanny Ft Diamond Platnumz - Mtongoze

Panic! At The Disco_ Say Amen (Saturday Night)

linkin park
faint
meteora

Start Stream Stop Stream Record Stream

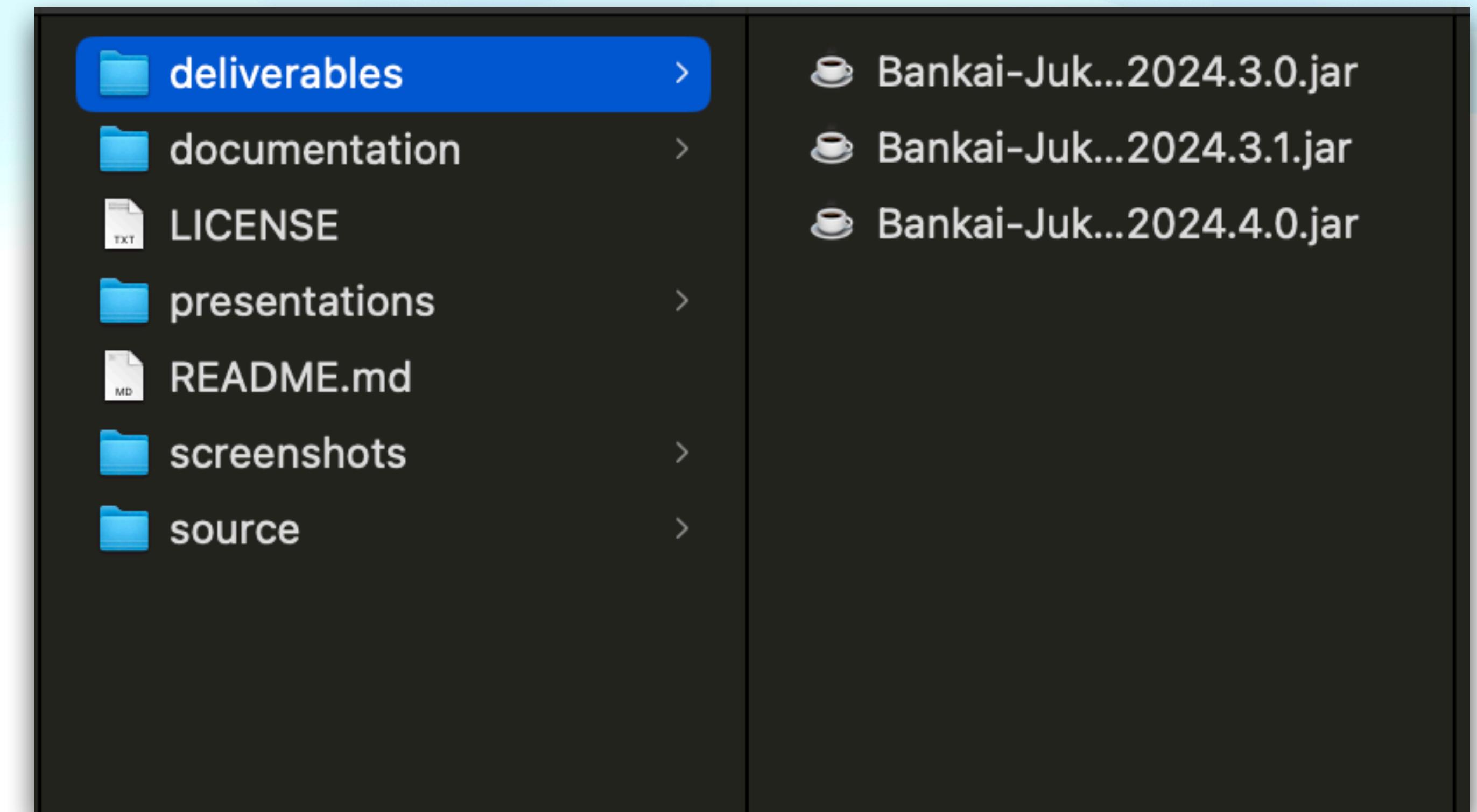
Volume Slider

Mini-Player



Packaging

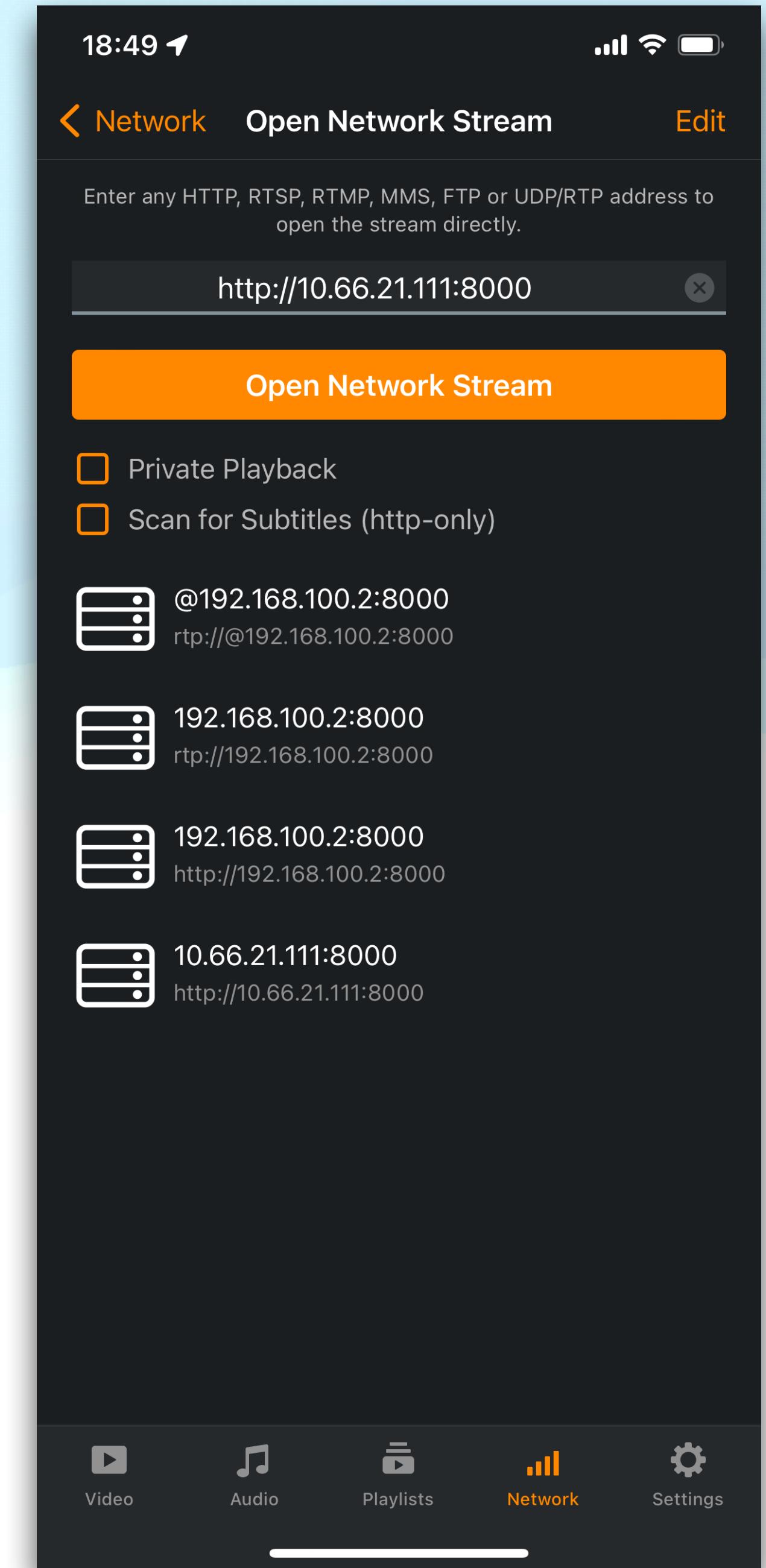
- Production-ready version v2024.4.0.
- The file format will be a .jar



New Feature

- Audio streaming

```
try {  
    System.out.println("Begin Streaming APP");  
    StreamHttp http = new StreamHttp();  
    http.start(new File(  
        songInQueue.getLocation()).getAbsolutePath());  
    System.out.println("End Streaming APP");  
} catch (Exception e) {  
    e.printStackTrace();  
}
```



Faults and Failures

- Network Streaming Latency
- UI Responsiveness
- Full duplex music exchange



How It Will Live On

**“You Cannot Be A Doer All Through. At
Some Point, You Will Have To Delegate
And Rely On Others.”**

Eddah Thuo

Open Source License

- Implement an MIT License.
- Invite community contributions.
- Implement A Dependency Upgrade Script.
- Create a CI/CD Pipeline.

Networking

- Implement **secure** networking with friends.
- Music sharing through streaming or file exchange.

Demo

“A shark in a fish tank will grow 8 inches, but in the ocean, it will grow to 8 feet or more. The shark will never outgrow its environment and the same is true about you.”

Unknown





The End