

# **BANKAI - JUKEBOX**

**Documentation Phase**

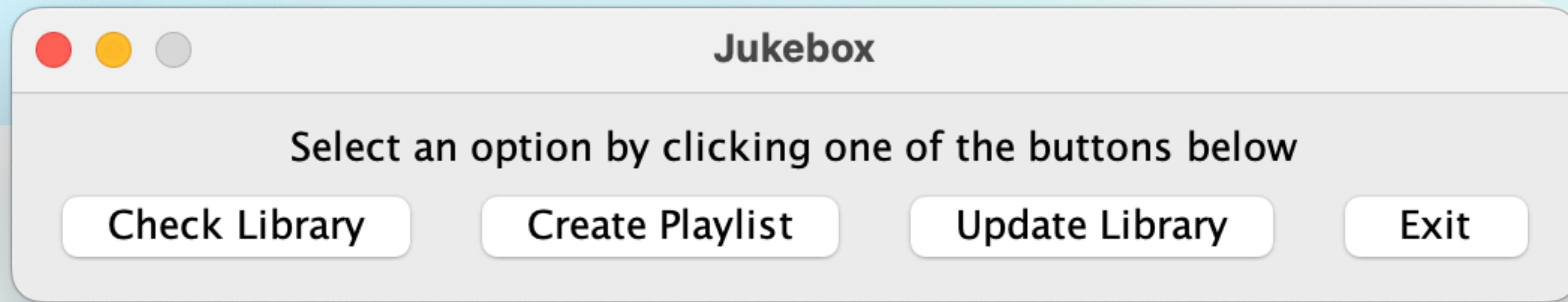
**Friday, 5 April 2024**

# 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 is a sidebar with the following sections and items:

- LIBRARY**: Songs, Albums (selected), Videos.
- PLAYLISTS**: My Playlists, Shared Playlist, Favourites.
- RADIO**: Channels, Recordings.
- MORE**: Settings, About, Logout, Exit.

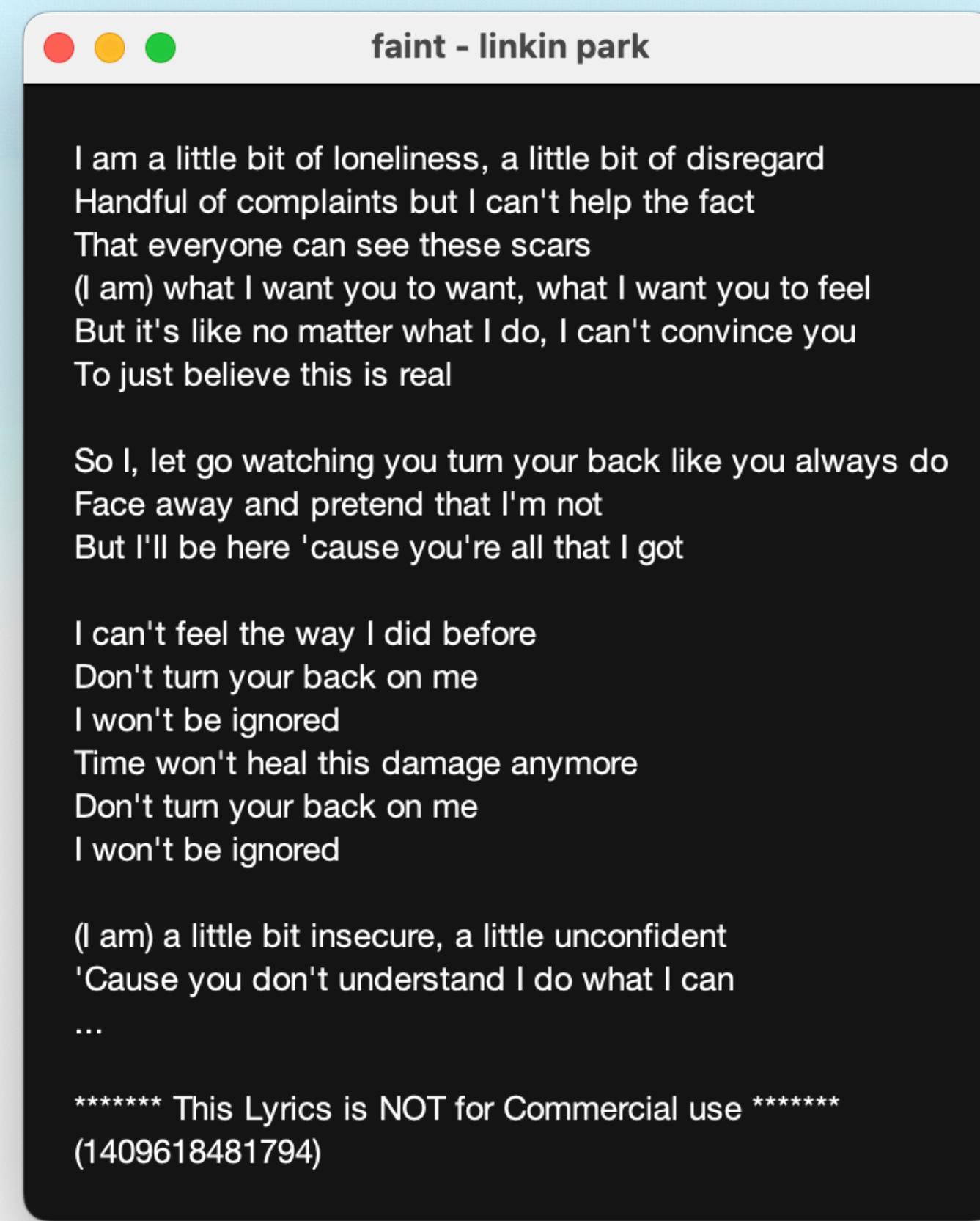
The main area displays four album covers in a grid:

- meteora**: Cover art shows a person on a bridge, with the text 'LINKIN PARK METEORA'.
- minutes to midnight**: Cover art shows five silhouettes of people standing in a row, with the text 'LINKIN PARK MINUTES TO MIDNIGHT'.
- Unknown Album**: A red and black circular logo featuring a stylized figure.
- hybrid theory**: Cover art shows a person holding a heart, with the text 'LINKIN PARK HYBRID THEORY'.

At the bottom, there is a footer bar with the following elements:

- Album cover for 'linkin park faint meteora'.
- Control icons: shuffle, previous, play/pause, next, repeat.
- Progress bar: 1:06 to 2:42.
- Volume control and slider.

# 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

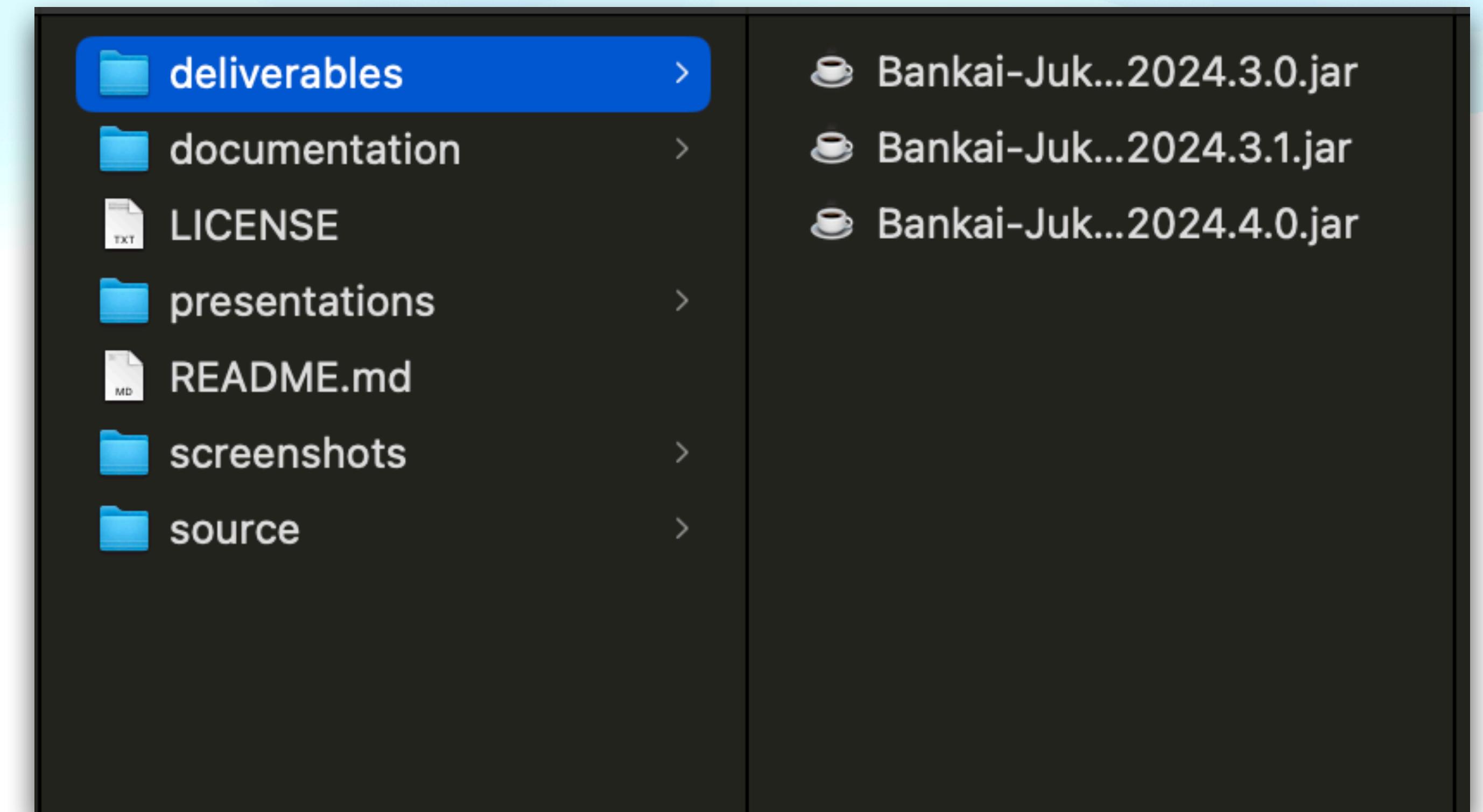
Volume Slider

# Mini-Player



# Packaging

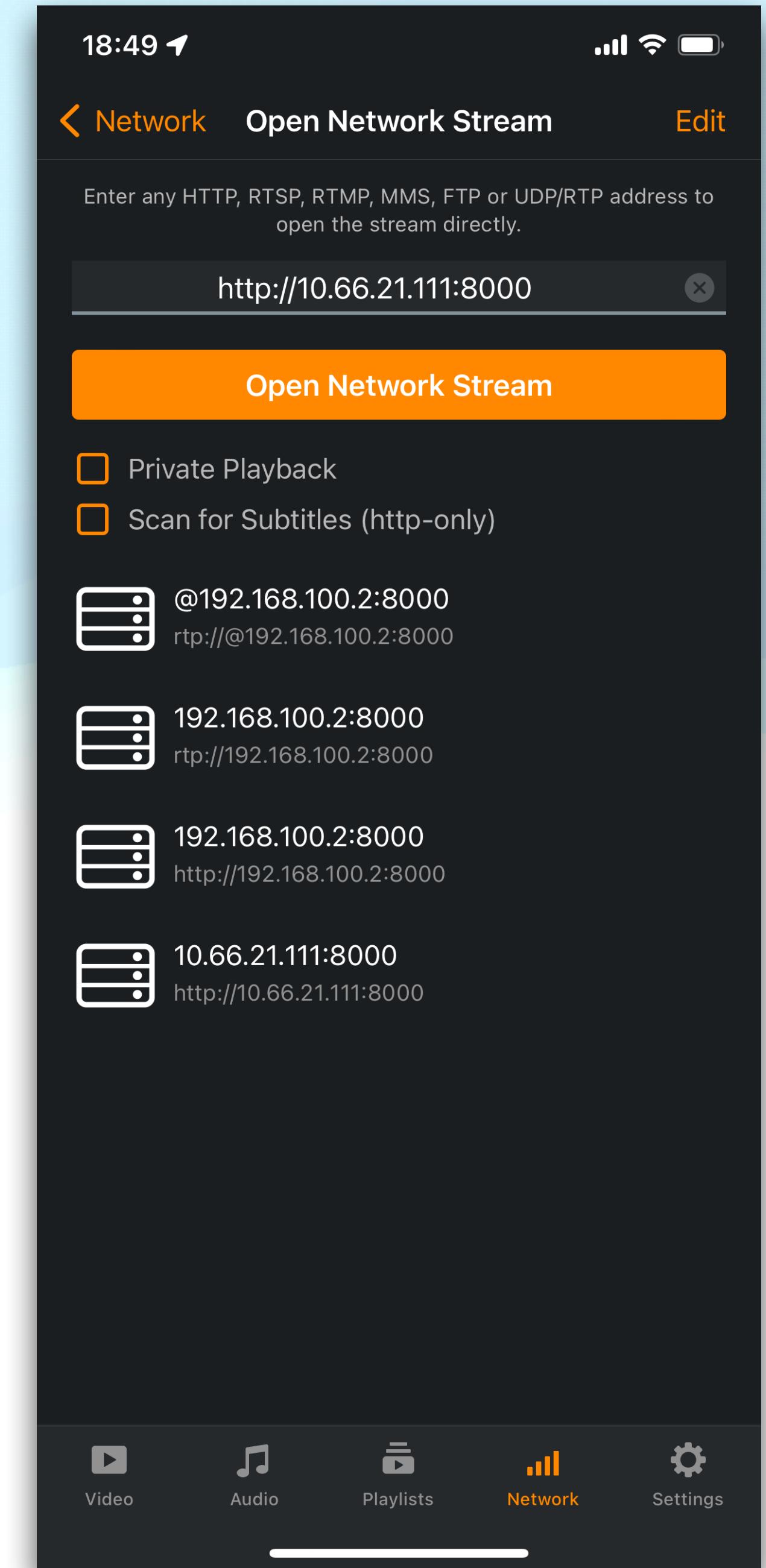
- Production-ready version v2024.4.0.
- The file format will be a .jar



# 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

# Vote of Thanks

- Ray - For violating the rules of engagement.
- Richard - For instigating a complete design overhaul.
- Kenneth - For the wildcard-based search field idea.
- Amos - For the mini-player idea.
- Arnold - For accidentally giving us the SharePlay idea.



# **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