

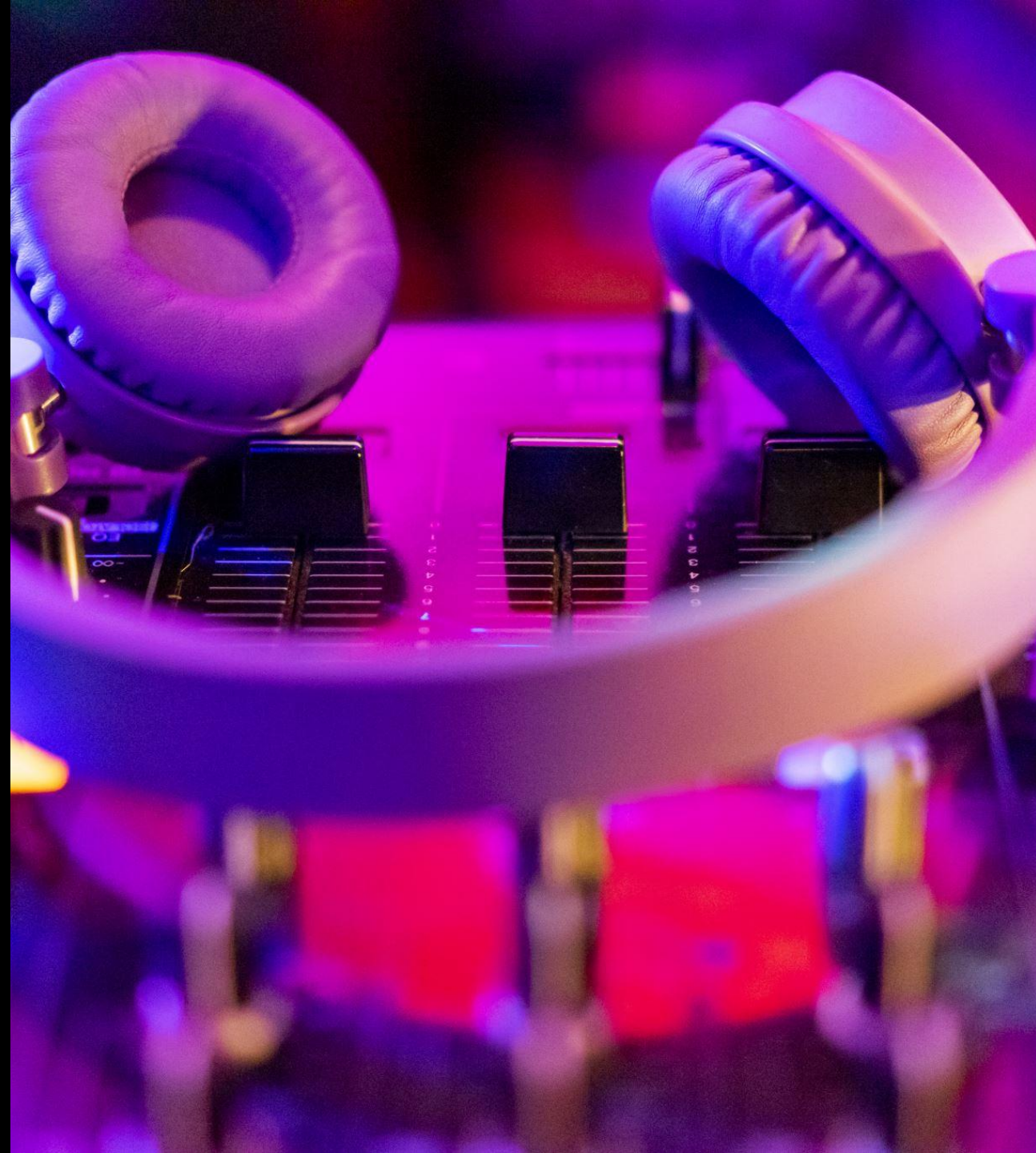
CLEF

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OVERVIEW

- With the growing user-base and variety of music streaming services, users can often switch companies and memberships without any transitional support.
- Members who spend hours curating their playlists can find themselves trapped in their respective companies - deterred by having to start over, or painstakingly copying playlists song by song.
- Clef is a web application that helps users transfer playlists between their favorite music services by automating that process.
- Clef utilizes public APIs to interact with each music streaming service to pull data and create playlists on the user's behalf.



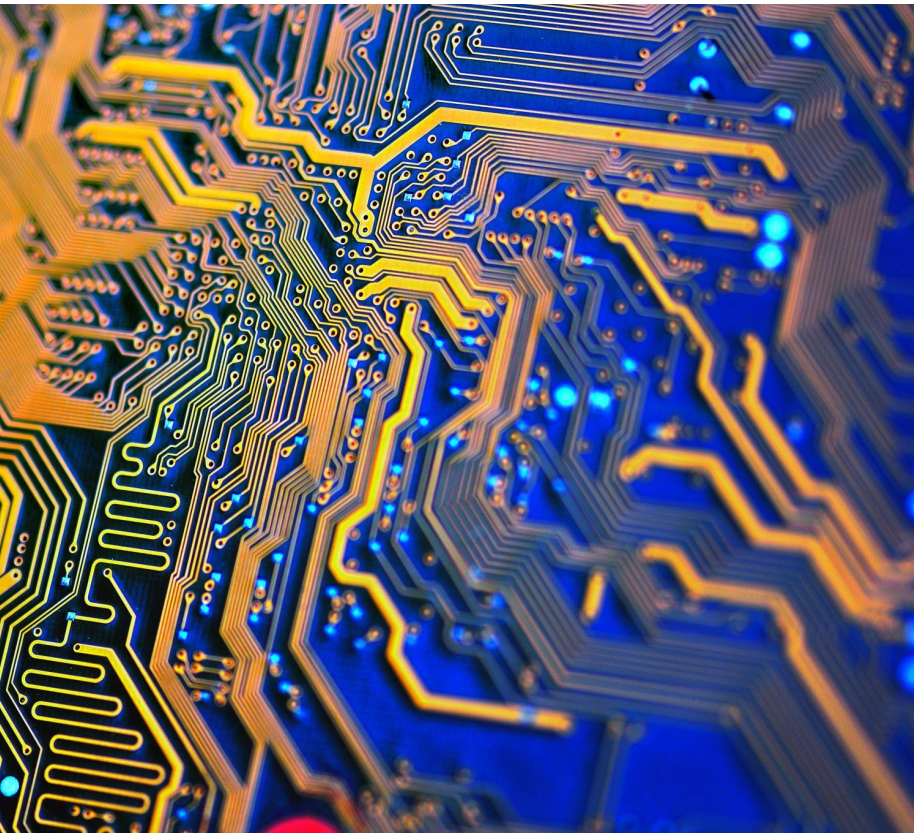
TECHNOLOGY STACK

Backend:
**Javascript/Node.js,
Python**

Frontend: **CSS,
HTML**

Frameworks:
Express.js

APIS AND SDLC MODEL



APIs: Spotify API, Apple Music API
SDLC Model: Agile Kanban

APPLICATION FEATURES

	User can play music on Webpage
	User can transfer their playlist from one application to another
	User can create own playlist
	User can merge two playlists into one



DATA FLOW DIAGRAM

WIREFRAMES AND PROTOTYPE ELEMENTS

01

Clef

Easy way to transfer your playlists between Spotify and Apple Music

Playlists from source:



Account:

Log in

Spotify

PIN:



Account:

Log in

Apple
Music

PIN:

Options

☐

Convert chosen
playlist(s)

☐

Convert all playlist(s)

Playlists from target:

Start

Log:

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Clef

Easy way to transfer your playlists between
different music services

Start

Clef

Easy way to transfer your playlists between different music services

Playlist(s) from source:

Source:



Target:



Next

Options

- ☐ Convert chosen playlist(s)
- ☐ Convert all playlist(s)

Start

Log:

Playlist(s) from target:

Playlist(s) from source:

Error

You cannot choose the same music service for both source and target. Please click [Back](#) button to choose services again.

[Back](#)**Options**☐

Convert chosen playlist(s)

☐

Convert all playlist(s)

Playlist(s) from target:

Start**Log:**

05

Clef

Easy way to transfer your playlists between different music services

Playlist(s) from source:



Spotify

Account:

Log in

Spotify

PIN:



Apple Music

Account:

Log in

Apple Music

PIN:

Options

☐

Convert chosen playlist(s)

☐

Convert all playlist(s)

Playlist(s) from target:

Start

Log:

[Documentation](#)

[About](#)

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Playlist(s) from source:

- ☐ Playlist 1
- ☐ Playlist 2
- ☐ Playlist 3
- ☐ Playlist 4



Spotify

Username:
User 1

Log out



Apple Music

Username:
User 1

Log out

Options

- ☐ Convert chosen playlist(s)
- ☒ Convert all playlist(s)

Start

Notification

Song 1 and song 2
are not found in target
music service, do you
want to continue
process without these
songs?

Yes

No

Log:

User successfully logged in!

Playlist(s) found.

Start convert...

Playlist 1 finished...

Playlist 2 finished...

Playlist 3 finished...

Song 1 in playlist 4 not found in target service...

Song 2 in playlist 4 not found in target service...

07

Playlist(s) from source:

- ☐ Playlist 1
☐ Playlist 2
☐ Playlist 3
☐ Playlist 4



Spotify

Username:
User 1

Log out

Apple
MusicUsername:
User 1

Log out

Options

- ☐ Convert chosen
playlist(s)
☒ Convert all playlist(s)

Start

Notification

Song 1 and song 2
are not found in target
music service, do you
want to continue
process without these
songs?

Yes

No

Log:

User successfully logged in!

Playlist(s) found.

Start convert...

Playlist 1 finished...

Playlist 2 finished...

Playlist 3 finished...

Song 1 in playlist 4 not found in target service...

Song 2 in playlist 4 not found in target service...

Stop converting Playlist 4...

All playlist(s) transferred except playlist 4!

End

Thanks for listening!