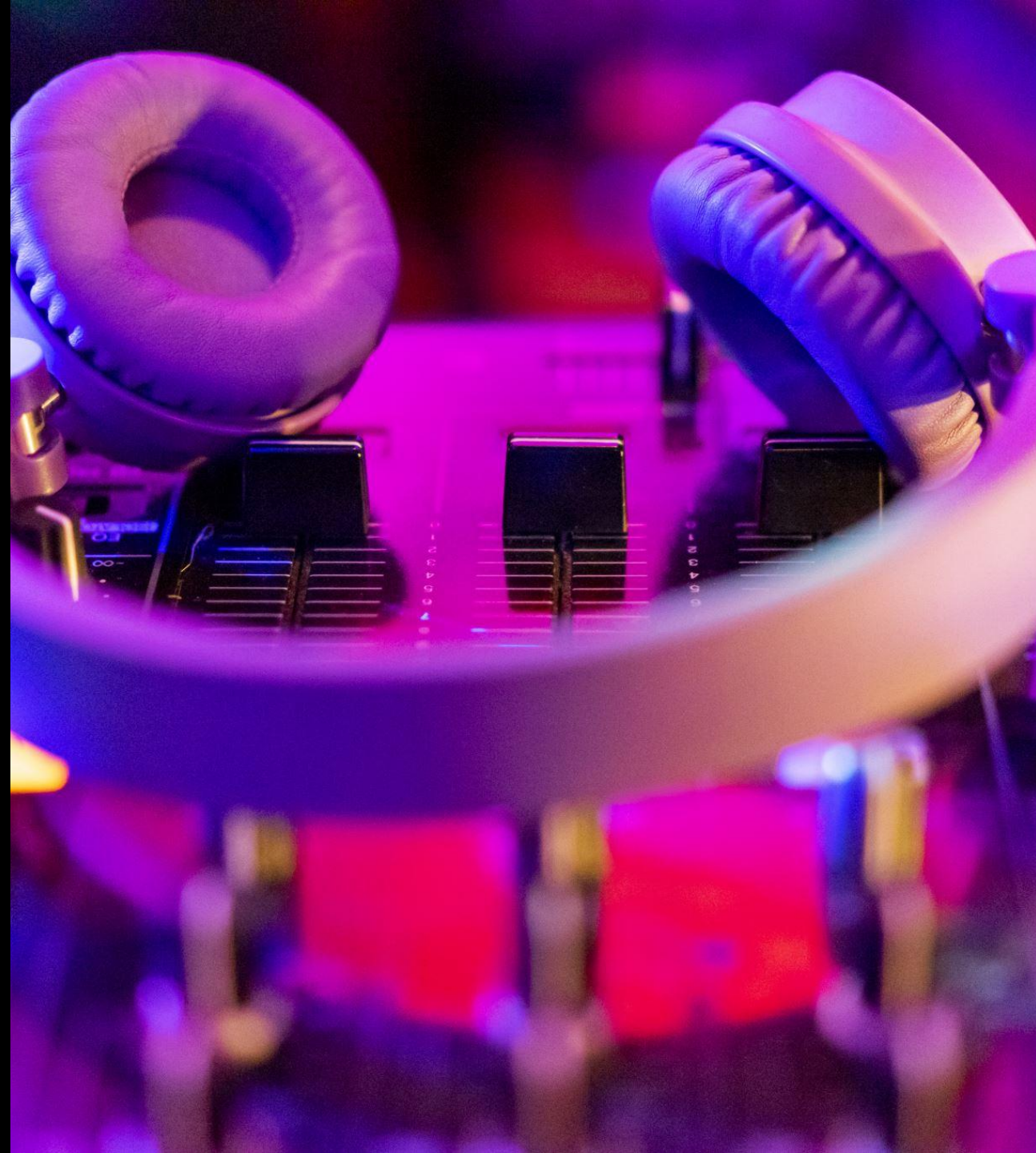# CLEF

CPSC- 2350 Project by:
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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.
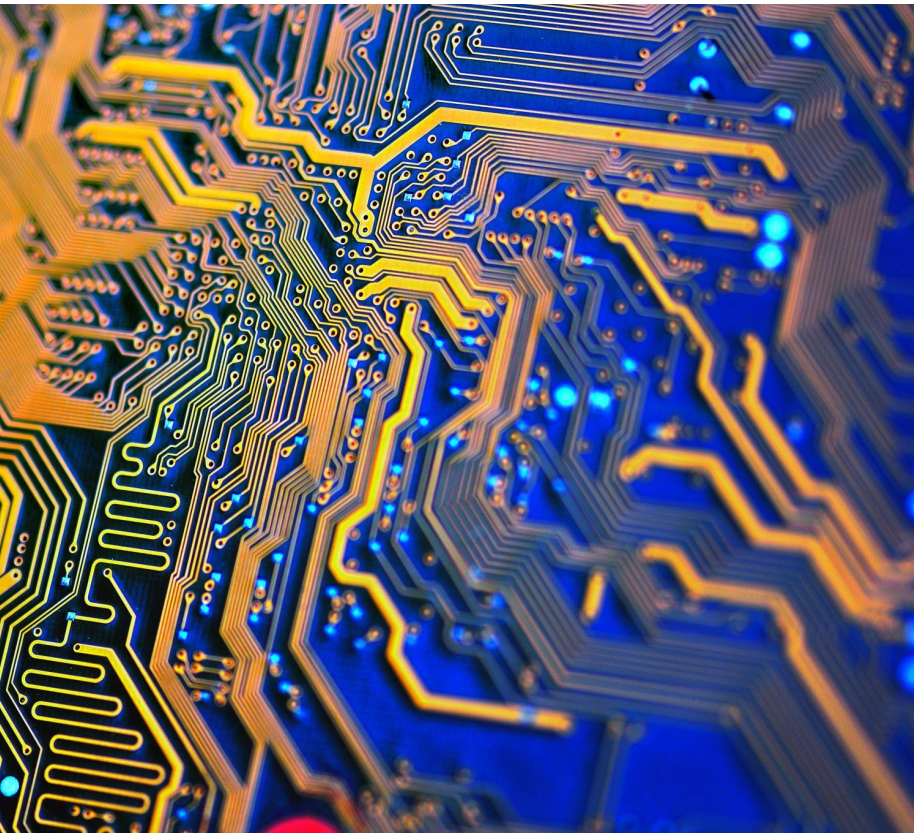
TECHNOLOGY STACK

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

Clef

Easy way to transfer your playlists between Spotify and Apple Music

Playlists from source:

Spotify

Account:

PIN:

Log in

Apple Music

Account:

PIN:

Log in

Playlists from target:

Options

☐ Convert chosen playlist(s)

☐ Convert all playlist(s)

Start

Log:

Doucumentation

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Clef
Easy way to transfer your playlists between different music services

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)

Start

Playlist(s) from target:

Log:

Clef

Easy way to transfer your playlists between different music services

Playlist(s) from source:

Spotify

Account:

Log in

Spotify

PIN:

Music

Account:

Log in

Apple
Music

PIN:

Options

☐ Convert chosen playlist(s)

☐ Convert all playlist(s)

Start

Log:

Playlist(s) from target:

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Easy way to transfer your playlists between different music services

Playlist(s) from source:

- [ ] Playlist 1
- [ ] Playlist 2
- [ ] Playlist 3
- [ ] Playlist 4

Spotify Username: User 1 [Log out]

Spotify

Music Username: User 1 [Log out]

Apple Music

Options

- [ ] Convert chosen playlist(s)
- [■] Convert all playlist(s)

[Start]

Playlist(s) from target:

- [ ] Playlist 1
- [ ] Playlist 2
- [ ] Playlist 3
- [ ] Playlist 4

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...

Clef

Easy way to transfer your playlists between different music services

Playlist(s) from source:
- ☐ Playlist 1
- ☐ Playlist 2
- ☐ Playlist 3
- ☐ Playlist 4

Spotify Username: User 1 [Log out]
Spotify

Music Username: User 1 [Log out]
Apple Music

Options

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

[Start]

Playlist(s) from target:
- ☐ Playlist 1
- ☐ Playlist 2
- ☐ Playlist 3
- ☐ Playlist 4

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!

Doucumentation   About   Contact