INDY-2 — Playlist Syncer

CS 4850, Section 02, Spring 2024

1/19/24

Head Shots with Student Names

Josh Poore	Ben Pallotti
Nikita Smith	

Project Team

Roles	Name	Major responsibilities	Cell Phone / Alt Email
Team leader	Nikita Smith	Developer, Manager	678-628-6076 Nikitasmith6@gmail.com
Team members	Ben Pallotti	Documentation, Developer	770-906-3367 ben.pallotti@gmail.com
	Josh Poore	Programmer, Developer	770-337-5477 joshua.poore@gmail.com
Advisor / Instructor	Sharon Perry	Facilitate project progress; advise on project planning and management.	770-329-3895

Overview

This project aims to develop an iOS and Android mobile application using the Flutter framework that allows users to transfer their music playlists between streaming platforms such as YouTube, Apple Music, and Spotify. Upon opening the app, users can log in to their streaming services. Afterward, they can access a list of their playlists on each supported platform and initialize a transfer to another platform. The project will be using API calls from the streaming platforms to make this possible. Dart will be used to connect all the API data together to allow for the transfer of the playlists.

Final Deliverables

1. Final Report
2. Software files
3. Website (more on that later)
4. Github link
5. Final Video Presentation (40% how you did it, 60% demo of project) – you record this on your desktop and post it on your website
6. iOS and Android-compatible Apps
7. Documentation of app structure

Milestone Events (Prototypes, Draft Reports, Code Reviews, etc.)

#1 – By 2/19/24

- Complete app user flow concept for iOS and Android
- Proof of concept: Access Spotify and Apple Music data in Flutter using dart
- Requirements Spec and Design Document

#2 - By 3/18/24

- Prototype: Have a working Flutter app that allows users to log in to their Apple, Spotify, and YouTube accounts to access user data. This prototype should also include successfully transferring a playlist from Spotify to Apple Music.
- Presentation on project status

#3 – 4/22/2024

- Completed iOS and Android app
- Completed Documentation
- Final Report
- Presentation including poster

This is a list of Deliverables for the entire course, but you can list additional events

Team/Project Selection document (Individual Assignment)

Weekly Activity Reports (WARs – Individual Assignment)

Peer Reviews (Individual Assignment)

Project Plan (Group Assignment)

Present Prototype for Peer Review (Group Assignment)

Website (Group Assignment)

Video Demo (Group Assignment)

C-Day Application/Submission (Group applies to C-Day but you submit individual bonus points documentation in Individual Assignments)

Final Report Package (Group Assignment)

Meeting Schedule Date/Time

Determined in the kickoff meeting.

1/26 Friday: Noon

2/02 Friday: Noon

2/09 Friday: Noon

2/16 Friday: Noon

2/23 Friday: Noon

3/02 Friday: Noon

3/09 Friday: Noon

3/16 Friday: Noon

3/23 Friday: Noon

3/30 Friday: Noon

4/06 Friday: Noon

4/13 Friday: Noon

4/20 Friday: Noon

4/23 Tuesday: Noon

Collaboration and Communication Plan (Applies to All)

Our main methods of communication will be Outlook and Microsoft Teams. We will meet weekly in teams to discuss our progress.

Communication — Teams, Cellphones (Call/Text)

Version Control — GitHub

Project Schedule and Task Planning

See the Project Work Plan (Gantt chart) file attached.

Risk Assessment

1. Not all music platform APIs allow access to the same information. In the case that a platform does not support our needed functionality (reading and creating playlists), the team will move to support a different platform instead (ex: if YouTube does not allow for use to create playlists, we will move to support tidal or SoundCloud instead)
2. The accessibility of APIs depends on the server stability of the services we are accessing (YouTube, Spotify, Apple Music). There is a possibility that these services become temporarily unavailable, which may cause delays. If the services are unavailable for longer periods the team may switch to support alternate platforms instead (ex: if Spotify's API becomes unavailable the team may move to support tidal or Soundcloud instead)

Version Control Plan

Our team will create and document the credentials for an Organizational GitHub account to host all our repositories and source files. Team members will use GitHub Desktop software to push and receive commits to and from the project's repositories.

STATEMENT OF PARTICIPATION (put this at the bottom of your document and everyone signs it)

By signing below, I _____Nikita Smith_____ (type or print name here) acknowledge that I will participate in all meetings, communications, deliverables and other tasks necessary to complete the project. If I do not participate, I understand that Professor Perry will meet with me to remedy the situation.

Signed by:

_____Nikita Smith_____   _____1/19/24_____
Team Member 1   Date

STATEMENT OF PARTICIPATION (put this at the bottom of your document and everyone signs it)

By signing below, I _ Ben Pallotti _ (type or print name here) acknowledge that I will participate in all meetings, communications, deliverables and other tasks necessary to complete the project. If I do not participate, I understand that Professor Perry will meet with me to remedy the situation.

Signed by:

__Ben Pallotti_____   __1/19/24_____
Team Member 2   Date

STATEMENT OF PARTICIPATION (put this at the bottom of your document and everyone signs it)

By signing below, I Joshua Poore (type or print name here) acknowledge that I will participate in all meetings, communications, deliverables and other tasks necessary to complete the project. If I do not participate, I understand that Professor Perry will meet with me to remedy the situation.

Signed by:

__Joshua Poore_____   _____1/19/24_____
Team Member 3   Date