Team Number:
#7
Team Name:
Comp Sci Hotties (Group 07)
Team Members:
Logan Chayet - Logan-Chayet - logan.chayet@colorado.edul
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Application Name:
PlaySwap
Application Description:
Mobile app available to the public that can be used to transfer playlists to Spotify from Apple Music and vice versa. Of the large group of people that listen to music daily, there is a pretty even split between spotify and apple music. A big part of listening to music is sharing it with people you know, and as such, there is no reputable way of quickly and effectively transferring music between the platforms. Whatsmore, both platforms are competitive enough to the point that there is no official method of transferring playlists between the two platforms.

To fix a problem most people have encountered numerous times, we have decided to make an app that allows users to transfer playlists between the two platforms and only have to sign into one of them. Many solutions that already exist are complicated and require signing into both platforms. This is because these websites are intended to be used when the user is switching from one platform to the other and needs to transfer their private playlists. Our app would solve this problem but also give the user the ability to save other peoples playlists from other platforms with ease.

Vision Statement:
For music listeners who want to share playlists with someone who has a different music listening app, PlaySwap is a phone application that transfers playlists. Unlike Soundizz, PlaySwap doesn't require you to sign in to both accounts to transfer, our product allows one user to send one person a playlist and access it from your music listening application.
Version Control:
Share the link to the GitHub repository that was created for you. This repository should have the following folders:
https://github.com/jwoody02/lab-3-compscihotties.git

Team Meeting Logs -

The minutes of the meeting with your TA every week will be recorded in a file here. You will be updating the same file every week with the latest updates.

Milestone Submissions -
All milestone documents, including this one, will be stored in this folder.

All project code/components -
The source code and all relevant documentation for the application will be stored in this folder.

You will also create a ReadMe.md file in your project GitHub repo at the root location. The ReadMe.md should include the project description and an overview of the application architecture.

Development Method:

Our team will follow an agile methodology. We will split the project into features sorted by importance and work through them on sprints. We will use Jira and the link to our board is below:
https://csci-3308-fall21-011-07.atlassian.net/jira/software/projects/C07/boards/1

Communication Plan:
We are using a snapchat group chat for communication over the course of the project. We will soon create a discord channel for specific file transfer.

Meeting Plan:
TEAM MEETING TIME:
Tuesdays: 11:00AM-12:40PM

TA TEAM MEETING TIME:
Thursdays 12:25PM-12:40PM

Mode: Face to Face

Proposed Architecture Plan:
Propose an architecture for your app. What technologies will you be using on the backend? What technologies on the front end? How will they communicate with each other? Which technologies will be responsible for which functionalities?

Sketch a preliminary architecture diagram.

The user accesses the application and transfers their playlist to a universal playlist type. Playlist gets sent to another user who opens it within their app and creates the playlist

within their account on their music listening app. Uses Spotify and Apple Music APIs which have the functionality to create playlists and get songs from playlists.
User interface will be done in swift. Python for connecting the front end to the APIs.

User may also search for playlists from both platforms whilst in the app and or paste the direct link to the playlist to start transfer. All songs can be transferred on device and saved to a playlist created by us as an exact duplicate. The user will then be redirected to the new playlist where they can listen/save.

Swift is used in IOS, Java is used in Android. Do we want a multi-OS app?
API for Python.
https://apple-music-python.readthedocs.io/en/latest/
https://spotipy.readthedocs.io/en/2.19.0/

Use Case Diagram:

Identify a minimum of 3 actors and 15 use cases for your project. Create and attach a use case diagram to depict them. You may change these at a later point in time as suited.

https://app.creately.com/diagram/beMpnV4wwz6/edit